

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

NO. F6/DFS/MS/2017 / 102/555

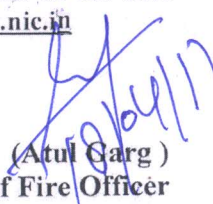
Dated: 18 / 04 / 2017

FIRE SAFETY CERTIFICATE

Certified that Delhi Metro Rail Corporation Ltd at Mukundpur Depot (Phase- III DMRC) Workshop Cum Inspection Bay, ETU Building, comprised of Ground plus one upper Floor building each block and P Way Building, Stabling Shed, Internal Cleaning Shed, Sub-Station, Pit-Wheel Lathe Shed comprised of Ground Floor building each block owned / occupied by Delhi Metro Rail Corporation Ltd have complied with the fire prevention and fire safety requirement in accordance with Rule 33 of the Delhi Fire Service Rules, 2010 and verified by the officer concerned of fire service on 08/04/2017 in the presence of Sh. Rajesh Chaturvedi (Chief Elec. Eng.) and that the building / premises is fit for occupancy Storage Building with effect from 18 / 04 / 2017 for 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. Following fire safety directives must be adhered to:

- 1) All the fire safety arrangement provided there in shall be maintained in good working conditions at all time.
- 2) 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 regards to construction etc shall be verified by the concerned building sanctioning agency.
- 5) This certificate cannot be treated in any case for regularizations of unauthorized construction unauthorized use of land if any.
- 6) The means of escape shall always be kept unobstructed and readily available for free movement of occupants in case of an emergency.
- 7) The owner/occupier shall apply for renewal of this Fire Safety Certificate to the Director of Form 'J' [sub rule (1) of rule 37] along with a copy of this Certificate, six months prior to its expiry".
- 8) The owner/occupier shall submit a declaration every year in form 'K' provided in the first schedule of Delhi Fire Service Rule 2010. This is available on www.dfs.delhigovt.nic.in

Issued on...18/4/2017.....at New Delhi by


(Atul Garg)
Chief Fire Officer
Ph: 011-23414250

Copy to:-

1. Sh. Amit Sengar, Addl. General Manager/PS-1, Project Office: Chief Electrical Engineer/PS-1, 9/11, Mall Road, Delhi - 110054.

INSPECTION REPORT

(One Block, Ground & Three blocks Ground + First Floor)

1. Name & address of the building: Mukundpur Depot (Phase – III DMRC) (Workshop cum inspection Bay, ETU Building, Permanent Way Building & DCO Building)
2. Type of Occupancy : **Storage Building WS cum IB-----G+01F only**
3. Type of Case : New Case **ETU, DCO building---G+01 Floor only**
4. Details of previous NOC : nil **P Way building ----- Ground floor only**
5. Fire Safety directives letter No : F6/DFS/MS/BP/2015/90 Dated 27/03/2015
6. Date of inspection : 08/04/2017
7. Name of the Inspecting Officers : Sh. Rajesh Kumar ADO (RN)
8. Name and designation of officers
from the building side : Sh. Rajesh Chaturvedi (Chief Elel. Eng.)
9. Year of Construction : 2015
10. Applicant's letter No. : DMRC/CEE/PS-1/CE-5 LOT-1/VENAPPL/20 Pt-16 dated 27/03/2017

	Minimum Standards on fire prevention and fire safety U/R 33	As directives letter dated 27/03/2015	Provided at site	Remarks MR/NMR
1	Access to building			
	• Road width	10 mtr	10m	M/R
	• Gate width	5 m	6m	M/R
	• Width of internal road	--	6m	--
2	Number, Width, Type & Arrangement of Exits			
	a. Number of staircases	--	--	--
	• Upper Floors	Workshop 08 no's ETU Building 04 no's DCO Building 03 no's	Provided Provided Provided	M/R M/R M/R
	• Basements	NA	NA	NA
	b. Width of staircases	1.50 mtr each	Provided	M/R
	• Upper Floors	Workshop 1.5m each ETU Bldg 1.5m each DCO Bldg 1.5m each	Provided	MR
	• Basements	N/A	N/A	N/A
	c. Protection of exits			
	• Fire check door	N/A	N/A	N/A
	• Pressurization	N/A	N/A	N/A
	e. No. of continuous staircases to terrace / platform	N/A	N/A	N/A
	g. Width of Corridor	N/A	N/A	N/A
	h. Door Size	N/A	N/A	N/A

K.

3	Compartmentation.			
	<ul style="list-style-type: none"> • Fire check door • Sealing of electrical shafts • Fire Rating of shaft door • Water Curtain • Fire Dampers 	N/A	N/A	N/A
		Required	Provided	M/R
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
4	Smoke Management System.			
	<ul style="list-style-type: none"> • Basements • Upper floors 	30 a/c per hour	N/A	N/A
		12 a/c per hour	N/A	N/A
5	Fire Extinguishers			
	<ul style="list-style-type: none"> • Total numbers • Types • IS marking 	Workshop 47 no's ETU Building 31 no's DCO Building 32 no's ISI marked	110	M/R
			ABC Type, Co2 type 4.5 kg , Co2 22.5 kg , Form type	M/R
			yes	M/R
6	First-Aid Hose Reels.			
	<ul style="list-style-type: none"> • Total numbers on each floor • Length of hose reel hose • Nozzle diameter 	One at each floor 45 m 25 mm	Provided	M/R
			Provided	M/R
			Provided	M/R
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 	Required	Workshop sensor- 217 Heat- 24	M/R
		Required	ETU building sensor 70 Heat - 37	M/R
		Required	DCO Building sensor 173 Heat -18	M/R
		Ground	Provided	M/R
		--	--	--
		Required	16+09+6	M/R
	Required	16+09+6	M/R	
8	MOEFA			
		N/A	N/A	N/A
9	Public Address System.			
		N/A	N/A	N/A
10	Automatic Sprinkler System.			
	<ul style="list-style-type: none"> • Basement • Upper Floor 			
		Required Required Required	Workshop 131 no's ETU Building 36 no's DCO Building 243 no's	M/R M/R M/R
	<ul style="list-style-type: none"> • Sprinkler above false ceiling 	Required Required Required	Workshop 08 no's ETU Building 04 no's DCO Building 03 no's	M/R M/R M/R

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11	Internal Hydrants			
	<ul style="list-style-type: none"> • Size of riser/down-comer 	Required Required Required	Workshop 4 no's ETU Building 04 no's DCO Building 02 no's	M/R M/R M/R
	<ul style="list-style-type: none"> • Number of hydrants per floor 	Required Required Required	Workshop 04 no's ETU Building 04 no's DCO Building 02 no's	M/R M/R M/R
	<ul style="list-style-type: none"> • Hose Box 	Required Required Required	Workshop 08 no's ETU Building 04 no's DCO Building 03 no's	M/R M/R M/R
12	Yard Hydrants.			
	<ul style="list-style-type: none"> • Total number of hydrants 	N/A	N/A	N/A
	<ul style="list-style-type: none"> • Hose Box 	N/A	N/A	N/A
13	Pumping Arrangements. Common for the entire workshop area			
	<ul style="list-style-type: none"> • Ground Level 			
	➤ Discharge of main Pump	2850 LPM	Provided	M/R
	➤ Head of Main pump	80 mtr	Provided	M/R
	➤ Number of main pumps	02 no's	Provided	M/R
	➤ Jockey Pump out put	180 LPM	180 LPM	M/R
	➤ Jockey pump head	80 mtr	Provided	M/R
	➤ Standby Pump out put	2850 LPM	Provided	M/R
	➤ Standby Pump Head	80 mtr	Provided	M/R
	➤ Auto Starting/ Manual stopping	Required	Provided	M/R
	➤ Pump House Access	Required	Provided	M/R
	• Terrace level			
	➤ Discharge of pump	900 LPM	Provided	M/R
	➤ Head of the pump	40 mtr	Provided	M/R
	➤ Power Supply	Required	Provided	M/R
	➤ Auto Starting of pump	Required	Provided	M/R
14	Captive Water Storage for fire fighting. Common for the entire workshop area			
	<ul style="list-style-type: none"> • Underground tank capacity 	2,00,000 ltr	Provided	M/R
	➤ Draw-off connection	Required	Provided	M/R
	➤ Fire service inlet	Required	Provided	M/R
	➤ Access to tank	Required	Provided	M/R
	<ul style="list-style-type: none"> • Overhead Tank capacity 	10,000 ltr	Provided	M/R

All.

15	Exit Signage.	Required	Provided	M/R
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	N/A	N/A	N/A
	• Fireman's Grounding Switch	N/A	N/A	N/A
	• Lift Signage	N/A	N/A	N/A
17	Standby power supply	N/A	N/A	N/A
18	Refuge Area.			
	➤ Total Area	N/A	N/A	N/A
	➤ Location	N/A	N/A	N/A
19	Fire Control Room at concourse level			
	• Detector System Panel	N/A	N/A	N/A
	• Flow Switch Panel	N/A	N/A	N/A
	• PA System Panel	N/A	N/A	N/A
	• Batter backup	N/A	N/A	N/A
	• Building Floor Plans	N/A	N/A	N/A
20	Special Fire Protection Systems for Protection of special Risks, if any:	N/A	N/A	N/A

The fire protection systems provided in the building were test 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 it is recommended to grant Fire Safety Certificate under rule 35 of the Delhi Fire Service Rules 2010.

Signature of the Inspecting Officer 11/12/4/17

Name **Rajesh Kumar**

Designation **ADO/RN & Rohini**

DO/NWD

Slugh
12.8.16

Dy CEO (P2) M/R
CFO/10/11
12/4/17

FT D/s

As approved, F.T. letter is put up for your signature pl

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