

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

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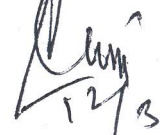
No. F6/DFS/MS/2014/ND2/351

Dated 12/03/2014

**FIRE SAFETY CERTIFICATE**

Certified that the **Mandi House Underground Metro Station New Delhi** was inspected by the officers concerned of this department on 20-02-2014 in the presence of Sh. Sanjeev kumar, Dy. Manager DMRC and found that the said Metro Station 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 **D-7 "Assembly Building"** with effect from 12/3/14 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, printed overleaf.

Issued on .....12/3/14..... at New Delhi by.



(Dr. G.C. Misra)  
Chief Fire Officer  
Delhi Fire Service

Copy to:-

1. Sh. A.K. Singh, Executive Director/Electrical at 8, Jantar Mantar Road, New Delhi-110001.

**Condition for the validity of fire safety certificate**

1. All the fire safety arrangements provided therein shall be maintained in good working condition at all time. 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).
2. Any loss of life or property due to non-functional fire safety measures shall be at the responsibility of the management.
3. The trained fire fighting staff should be available round the clock.
4. Any deviation w.r.t. construction etc. shall be verified by the concerned building sanctioning authority.
5. This fire safety certificate may not be treated in any case for regularization of unauthorized construction, if any.

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**INSPECTION REPORT**

1. Name & address of the building : Mandi House 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 NOC : NA
5. Fire Safety directives Letter No. : F6/DFS/MS/BP/2013 /2602 dated 28/11/2013
6. Date of inspection : 20/02/2014
7. Name of the Inspecting Officer : Sh. Gurmukh Singh (DO/CD) & Sh. M. K. Sharma (ADO/CC)
8. Name and designation of Officer  
from the building side : Sh. Sanjeev Kumar Dy Manager DMRC with Team
9. Year of Construction : 2013 & 2014
10. Applicant's letter No. : DMRC/CEE-8/2j/DFS dated 27-1-14

| S No | Minimum standards on fire prevention and fire safety U/R 33 | Existing Requirements   | Provided at site  | Remarks<br>MR/NMR |
|------|---|---|---|-------------------|
| 1.   | Access of building  |   |   |                   |
|      | • Road width  | 135 Mtr.  | 135 Mtr.  | MR                |
|      | • Gate width  | NA  | NA  | NA                |
|      | • Width of internal road                                    | NA  | NA  | NA                |
| 2.   | Number, width, Type & Arrangements of exits                 |   |   |                   |
|      | a. Number of staircases                                     |   |   |                   |
|      | • Upper floors  | NA  | NA  | NA                |
|      | • Basements   | NA  | NA  | NA                |
|      | b. Width of staircases                                      |   |   |                   |
|      | • Upper floors  | NA  | NA  | NA                |
|      | • Basements -3 level  | Gr to con. 4. s/c -<br>2x 2400 mm & 2650 x 2<br>Con to P/F.<br>2. s/c - 3150 mm | Gr to con. 4. s/c -<br>2400 mm & 2650 x 2<br>x 2<br>Con to P/F.<br>2. s/c - 3150 mm | MR                |

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|    |   | 2 s/c - 2400 mm,<br>2 s/c- 1950 mm,<br>P/f to u/croft.<br>2 - 1200 mm,<br>(service) | 2 s/c - 2400 mm,<br>2 s/c- 1950 mm,<br>P/f to u/croft.<br>2 - 1200 mm,<br>(service) | MR |
|    | Protection of exits                             | Required  | Provided  | MR |
|    | • Fire check door                               | Required  | Provided in<br>Firemen &<br>emergency<br>staircase                                  | MR |
|    | • Pressurization                                | NA  | NA  | NA |
|    | d. No of continuous staircase to<br>terrace/Gr. | 4 Nos.  | 4 Nos.  | MR |
|    | e. Width Of Corridor                            | NA  | NA  | NA |
|    | f. Door Size                                    | NA  | NA  | NA |
| 3. | Compartmentation                                |   |   |    |
|    | • Fire check door                               | Required  | 2 Hrs & 4 Hrs   | MR |
|    | • Sealing of electrical shafts                  | Required  | Provided  | MR |
|    | • Fire Rating of shaft door                     | Required  | 2 Hrs   | MR |
|    | • Water Curtain                                 | NA  | NA  | NA |
|    | • Fire Dampers                                  | Required  | provided  | MR |
| 4  | Smoke managements System                        |   |   |    |
|    | • Basements                                     | 30 ACPH   | Provided in ECS<br>plant room   | MR |
|    | • Upper floors                                  | NA  | NA  | NA |
| 5  | Fire Extinguishers                              |   |   |    |
|    | • Total numbers                                 | 70 Nos.   | 60+21+4=85<br>Nos.  | MR |
|    | • Types   | ABC, CO <sub>2</sub> , Wco <sub>2</sub> ,   | 6 Kg.ABC, 4.5<br>Kg .CO <sub>2</sub> , 9<br>Ltr.Wco <sub>2</sub>                    | MR |

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|    | <ul style="list-style-type: none"> <li>ISI marking</li> </ul>                   | Required                                    | Provided                                      | MR |
| 6  | First – Aid Hose Reels  |   |   |    |
|    | <ul style="list-style-type: none"> <li>Total numbers on each floor</li> </ul>   | Con.-6,P/F-6,Anc-1                          | 13 Nos.                                       | MR |
|    | <ul style="list-style-type: none"> <li>Length of hose reel hose</li> </ul>      | 30 Mtr.                                     | 30.5 Mtr.                                     | MR |
|    | <ul style="list-style-type: none"> <li>Nozzle diameter</li> </ul>               | 06 MM                                       | 06 MM   | MR |
| 7  | Automatic fire detection and alarming system                                    |   |   |    |
|    | <ul style="list-style-type: none"> <li>Type of detectors</li> </ul>             | Smoke                                       | Addressable multi sensor type and heat sensor | MR |
|    | <ul style="list-style-type: none"> <li>Location of Main Panel</li> </ul>        | Required                                    | Provided at Station Control Room              | MR |
|    | <ul style="list-style-type: none"> <li>Location of Repeater Panel</li> </ul>    | Required                                    | Provided                                      | MR |
|    | <ul style="list-style-type: none"> <li>Alternate source of power</li> </ul>     | Required                                    | Provided                                      | MR |
|    | <ul style="list-style-type: none"> <li>Hooters' Location</li> </ul>             | Floor wise                                  | Floor wise                                    | MR |
| 8  | MOEFA   | Required                                    | Provided                                      | MR |
| 9  | Public Address System   | Required                                    | Provided                                      | MR |
| 10 | Automatic Sprinkler   |   |   |    |
|    | <ul style="list-style-type: none"> <li>Basements</li> </ul>                     | Partially Required                          | Partially Provided                            | MR |
|    | <ul style="list-style-type: none"> <li>Upper Floor</li> </ul>                   | NA  | NA  | NA |
|    | <ul style="list-style-type: none"> <li>Sprinkler above false ceiling</li> </ul> | NA  | NA  | NA |
| 11 | Internal Hydrants   |   |   |    |
|    | <ul style="list-style-type: none"> <li>Size of riser/down- comer</li> </ul>     | 150 MM                                      | 150 MM  | MR |
|    | <ul style="list-style-type: none"> <li>Number of hydrants per floor</li> </ul>  | Con.-6,P/F-6,Anc-1                          | (6+1+6)=13 Nos.                               | MR |
|    | <ul style="list-style-type: none"> <li>Hose Box</li> </ul>                      | 13 Nos.                                     | (6+1+6)=13 Nos.                               | MR |
| 12 | Yard Hydrants   |   |   |    |
|    | <ul style="list-style-type: none"> <li>Total number of hydrants</li> </ul>      | NA  | 1   | MR |
|    | <ul style="list-style-type: none"> <li>Hose Box</li> </ul>                      | NA  | NA  | NA |
| 13 | Pumping Arrangements-6  |   |   |    |
|    | <ul style="list-style-type: none"> <li>Ground Level</li> </ul>                  | Main -2-2850, S/by-2-2850, jockey-2-180 LPM |   |    |

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|----|---|---------------|----------------------------|----|
|    | <ul style="list-style-type: none"> <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 Staring/Manual stopping</li> </ul> | 2850 LPM      | 2850 LPM                   | MR |
|    |   | Head 90 Mtr.  | Head 90 Mtr.               | MR |
|    |   | 2             | Hyd + Sprk                 | MR |
|    |   | 180 LPM       | 180 LPM                    | MR |
|    |   | Head 90 mtr.  | Head 90 mtr.               | MR |
|    |   | 2850 LPM      | 2850 LPM                   | MR |
|    |   | Head 90 mtr.  | Head 90 mtr.               | MR |
|    |   | Required      | Provided                   | MR |
|    | Pump House Access   | Required      | Provided                   | MR |
|    | ○ Terrace level   | NA            | NA                         | NA |
|    | • Discharge of pump   | NA            | NA                         | NA |
|    | • 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   |               |                            |    |
|    | • Under ground tank capacity  | NA            | NA                         | NA |
|    | Draw of connection  | Required      | Provided                   | MR |
|    | • Fire service inlet  | Required      | Provided                   | MR |
|    | • Access to tank  |               |                            |    |
|    | Overhead Tank capacity  | 2,00,000 Ltr. | 2 Nos. (100,000 Ltr. Each) | 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 |
|    | • Fireman's Grounding Switch  | Required      | Provided                   | MR |
|    | • Lift Signage  | Required      | Provided                   | MR |
| 17 | Standby power supply  | Required      | Provided                   | MR |
| 18 | Refuge Area   |               |                            |    |
|    | • Total area  | NA            | NA                         | NA |

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|----|--|----------|---|----|
|    | • Location   | NA       | NA  | NA |
| 19 | Fire control room  |          |   |    |
|    | • Detector system panel  | Required | Provided  | MR |
|    | • Flow Switch Panel  | NA       | NA  | NA |
|    | • PA System Panel  | Required | Provided  | MR |
|    | • Battery backup   | Required | Provided  | MR |
|    | • Building Floor Plans   | Required | Provided  | MR |
| 20 | Special Fire Protection Systems for Protection of special Risks, if any; | Required | Clean agent<br>Flooding system<br>for transformer &<br>LT panels. | MR |

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

*Sh. Gurmukh Singh*  
11/3/14

Name :- Sh. Gurmukh Singh  
Designation :-DO(CD)

*Sh. M. K. Sharma*  
11/3/14

Name:- Sh. M. K. Sharma  
Designation :- A. D.O. (CC)