



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Shops  
Chandpol Bazar  
Jaipur  
Unique ID: CP-CC-UP-0071

Report Number: AIMIL/ESG/JMCEC/CP-CC-UP-0071/02/Verandah, Rev. 02, Dated: October, 2014

Building Owner  
Contractor

Various Owners  
CEC

Client  
Sub-Contractor

JMRC Limited  
AIMIL Limited





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## Introduction

The Jaipur Metro Rail is being constructed to provide the city of Jaipur with a modern and technologically advanced Transit System, to provide a safe and well connected means of transport that reduces traffic congestion. The project consists of two corridors with underground and elevated sections.

The construction of underground rail and road infrastructures in metropolitan and cosmopolitan cities are mostly through developed area under challenging soil conditions.

The alignment of structure is passing through densely inhabited areas, many structures are falling in the zone of influence of construction activities. It is required to carry out the pre-condition survey of those structures. The scope of work of this survey includes carrying out pre-condition survey of those structures.

## Survey Details

| S.No. | Head                       | Particulars | Signatures |
|-------|----------------------------|-------------|------------|
| 1     | Date of Survey             | 16/10/2014  |            |
| 2     | AIMIL Representative       |             |            |
| 3     | CEC Representative         |             |            |
| 4     | Structural Designer of CEC |             |            |
| 5     | JMRC/DMRC Representative   |             |            |



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### About the Structure

The structure under consideration is a Multistorey Load Bearing Structure having 2 floors. The structure was constructed in year 1915 and is 99 years old.

There are 31 defects in the structure out of which 13 are cracks. Category wise distribution of cracks is given in the table below. Overall the Building can be categorised in Category II (Slight)

| Category                 | Number of Cracks | % of Total Cracks |
|--------------------------|------------------|-------------------|
| Negligible (< 0.1mm)     | 0                | 0%                |
| Very Slight (0.1 to 1mm) | 6                | 46%               |
| Slight (1 to 5mm)        | 7                | 54%               |
| Moderate (5 to 15mm)     | 0                | 0%                |
| Severe (15 to 25mm)      | 0                | 0%                |
| Very Severe (>25mm)      | 0                | 0%                |

The average width of cracks is 1.02mm and average length of cracks is 1.92m. The maximum crack width is 2.50mm and minimum width is 0.15mm.

| Building Ownership Details |                                     |                    |            |
|----------------------------|-------------------------------------|--------------------|------------|
| Unique ID/Sub ID           | Premises Name                       | Owner              | Signatures |
| CP-CC-UP-0071/189          | Hari Narayan Govardhan Das Danyarth | Mr.Sitaram Ji      |            |
| CP-CC-UP-0071/190          | Jagdish Store                       | Mr. Jayesh Parik   |            |
| CP-CC-UP-0071/191          | Mohan Restaurant                    | Sushil Kumar       |            |
| CP-CC-UP-0071/192          | Badrinarayan Damodarlal Sethi       | Mr. Badri Narayan  |            |
| CP-CC-UP-0071/193-194      | Badri Narayan Madholal              | Mr. Babulal        |            |
| CP-CC-UP-0071/195          | Aggarwal Udyog                      | Mr. Kamal Aggarwal |            |



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Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Project Details |                                 |                                      |
|-----------------|---------------------------------|--------------------------------------|
| S. No.          | Head                            | Particulars                          |
| 1               | Project                         | Jaipur Metro Rail Project            |
| 2               | Section                         | Chandpole to Bari Chaupar            |
| 3               | Client                          | JMRC Limited                         |
| 4               | Consultant                      | DMRC Limited                         |
| 5               | Contractor                      | CEC                                  |
| 6               | Design Consultant of Contractor | Omikron Kappa - Indus Consultrans JV |
| 7               | Sub-Contractor                  | AIMIL Limited                        |
| 8               | Subject                         | Pre-Condition Survey Report          |

| General Building Details (As informed verbally by Building Owner) |                                |                               |
|---|--------------------------------|-------------------------------|
| S. No.  | Head                           | Particulars                   |
| 1   | Building Name                  | Shops                         |
| 2   | Building Address               | Shops, Chandpol Bazar, Jaipur |
| 3   | Year of Construction           | 1915                          |
| 4   | Number of Floors               | G+1                           |
| 5   | Number of Basements            | No                            |
| 6   | Type of Building               | Commercial                    |
| 7   | Approximate Height             | 6m                            |
| 8   | Approximate Area               | Not Known                     |
| 9   | Age of Building                | 99 years                      |
| 10  | Type of Structure              | Load Bearing Structure        |
| 11  | Type of Foundation             | Not Known                     |
| 12  | Number of Bore Wells           | None                          |
| 13  | Depth and Diameter of Bore     | N.A                           |
| 14  | Roadways                       | One Side                      |
| 15  | Presence of Equipment/Machines | None                          |



Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Summary of Cracks |  |             |                  |                  |             |           |
|-------------------|--|-------------|------------------|------------------|-------------|-----------|
| Defect ID         | Location   | Orientation | Appx. Width (mm) | Appx. Length (m) | Category    | Photo No. |
| 1                 | Int. Beam of Verandah of S.No.189,Ground Floor     | Inclined    | 2                | 1.4              | Slight      | 8         |
| 2                 | Roof of Verandah of S.No.189,Ground Floor          | Inclined    | 0.15             | 1.5              | Very Slight | 9         |
| 3                 | Roof of Verandah of S.No.190,Ground Floor          | Horizontal  | 0.15             | 2                | Very Slight | 14        |
| 4                 | Roof of Verandah of S.No.191,Ground Floor          | Horizontal  | 0.25             | 4                | Very Slight | 16A &16B  |
| 5                 | Int. Beam of Verandah of S.No.192,Ground Floor     | Horizontal  | 0.25             | 2.3              | Very Slight | 19        |
| 6                 | Left Ext. Col.of Verandah of S.No.192,Ground Floor | Horizontal  | 0.25             | 0.4              | Very Slight | 20        |
| 7                 | Roof of Verandah of S.No.194, Ground Floor         | Horizontal  | 0.25             | 2.1              | Very Slight | 29        |
| 8                 | Outer R.Ext.Col.of Verandah of S.No.194, G.Floor   | Horizontal  | 2.5              | 1.2              | Slight      | 30        |
| 9                 | Roof of Verandah of S.No.195,Ground Floor          | Horizontal  | 1                | 2                | Slight      | 34        |
| 10                | Roof & Beam of Verandah of S.No.195,G.Floor        | Inclined    | 1.5              | 3                | Slight      | 35        |
| 11                | Right Ext. Col.of Verandah of S.No.195,G.Floor     | Inclined    | 2                | 0.3              | Slight      | 36        |
| 12                | Outer Ext. Beam of Verandah of S.No.195&196,G.F    | Horizontal  | 2                | 4                | Slight      | 37A & 37B |
| 13                | Outer Right Ext.Col. of Verandah of S.No.195, G.F  | Inclined    | 1                | 0.7              | Slight      | 38        |

| Summary of Defects Other Than Crack |   |                    |           |
|-------------------------------------|---|--------------------|-----------|
| Defect ID                           | Location  | Description        | Photo No. |
| 1                                   | Roof of Verandah of S.No.189,Ground Floor       | Dampness/Seepage   | 10        |
| 2                                   | Int. Beam of Verandah of S.No.189,G. Floor      | Plaster Removal    | 11        |
| 3                                   | Ext. Beam of Verandah of S.No.189,G. Floor      | Dampness/Seepage   | 12        |
| 4                                   | Roof of Verandah of S.No.190,Ground Floor       | Dampness/Seepage   | 15        |
| 5                                   | Roof of Verandah of S.No.191,Ground Floor       | Peeling of Plaster | 17        |
| 6                                   | Roof of Verandah of S.No.192,Ground Floor       | Dampness/Seepage   | 21        |
| 7                                   | Wall No.1 of Verandah of S.No.192,Ground Floor  | Plaster Removal    | 22        |
| 8                                   | Wall No.1 of Verandah of S.No.192,Ground Floor  | Plaster Crack      | 23        |
| 9                                   | Roof of Verandah of S.No.192,Ground Floor       | Plaster Removal    | 24        |
| 10                                  | Ext. Beam of Verandah of S.No.192,Ground Floor  | Dampness/Seepage   | 25        |
| 11                                  | Roof of Verandah of S.No.193,Ground Floor       | Dampness/Seepage   | 26        |
| 12                                  | Ext. Beam of Verandah of S.No.193,Ground Floor  | Dampness/Seepage   | 27        |
| 13                                  | Roof of Verandah of S.No.193,Ground Floor       | Plaster Crack      | 28        |
| 14                                  | Roof of Verandah of S.No.194,Ground Floor       | Dampness/Seepage   | 31        |
| 15                                  | Ext. Beam of Verandah of S.No.194,Ground Floor  | Dampness/Seepage   | 32        |
| 16                                  | Outer R.Ext.Col.of Verandah of S.No.194,G.Floor | Plaster Removal    | 33        |
| 17                                  | Roof of Verandah of S.No.195,G.Floor            | Plaster Removal    | 39        |
| 18                                  | Roof of Verandah of S.No.195,G.Floor            | Plaster Crack      | 40        |

| Summary of Areas that Could not be Surveyed |  |                            |           |
|---|--|----------------------------|-----------|
| Defect ID                                   | Location                                       | Description                | Photo No. |
| 1   | Wall No.2 of Verandah of S.No.191,Ground Floor | Covered with Plastic Cover | 18        |





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Photo 1  
View of Shop No.189



Photo 2  
View of Shop No.190



Photo 3  
View of Shop No.191



Photo 4  
View of Shop No.192



Photo 5  
View of Shop No.193



Photo 6  
View of Shop No.194



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Photo 7  
View of Shop No.195



Photo 8  
Horizontal Crack on Int. Beam of Verandah of S.No.189,(G. Floor)  
Approx. Width = 2.0mm, Approx.Length = 1.4m.  
Distance from L.Int.Col. =0.50m, Height from Floor =2.10m.



Photo 9  
Horizontal Crack on Roof of Verandah of S.No.189,(G. Floor)  
Approx. Width = 0.15mm, Approx.Length = 1.5m.  
Distance from Wall No.3 =0m, Height from Floor =2.50m.



Photo 10  
Dampness/Seepage on Roof of Verandah of S.No.189,  
Ground Floor



Photo 11  
Plaster Removal on Int. Beam of Verandah of S.No.189,  
Ground Floor



Photo 12  
Dampness/Seepage on Ext. Beam of Verandah of S.No.189,  
Ground Floor





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Photo 13

View of Roof of Verandah of Shop No.190, Ground Floor



Photo 14

Horizontal Crack on Roof of Verandah of S.No.190,(G. Floor)  
Approx. Width = 0.15mm, Approx.Length = 2.0m.  
Distance from Ext. Beam =0m, Height from Floor =2.80m.



Photo 15

Dampness/Seepage on Roof of Verandah of S.No.190,  
Ground Floor



Photo 16A

Horizontal Crack on Roof of Verandah of S.No.191,(G. Floor)  
Approx. Width = 0.25mm, Approx.Length = 4.0m.  
Distance from L.Ext.Col. =0m, Height from Floor =2.80m.



Photo 16B

Horizontal Crack on Roof of Verandah of S.No.191,(G. Floor)  
Approx. Width = 0.25mm, Approx.Length = 4.0m.  
Distance from L.Ext.Col. =0m, Height from Floor =2.80m.



Photo 17

Peeling of Plaster on Roof of Verandah of S.No.191,  
Ground Floor

Ground





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Photo 18

Covered with Plastic Cover, Wall No.2 of Verandah of S.No.191,  
Ground Floor



Photo 19

Horizontal Crack on Int. Beam of Verandah of S.No.192,(G.F.)  
Approx. Width = 0.25mm, Approx.Length = 2.30m.  
Distance from Left Int.Col.=0.0m, Height from Floor =2.80m.



Photo 20

Horizontal Crack on Left Ext.Col. of Verandah of S.No.192,(G.F.)  
Approx. Width = 0.25mm, Approx.Length = 0.40m.  
Distance from Left Ext.Col.=0.0m, Height from Floor =1.60m.



Photo 21

Dampness/Seepage on Roof of Verandah of S.No.192,  
Ground Floor



Photo 22

Plaster Removal on Wall No.1 of Verandah of S.No.192,  
Ground Floor



Photo 23

Plaster Crack on Wall No.1 of Verandah of S.No.192,  
Ground Floor

Ground



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Photo 24  
Plaster Removal on Roof of Verandah of S.No.192,  
Ground Floor



Photo 25  
Dampness/Seepage on Ext.Beam of Verandah of S.No.192,  
Ground Floor



Photo 26  
Dampness/Seepage on Roof of Verandah of S.No.193,  
Ground Floor



Photo 27  
Dampness/Seepage on Ext. Beam of Verandah of S.No.193,  
Ground Floor



Photo 28  
Plaster Crack on Roof of Verandah of S.No.193,  
Ground Floor



Photo 29  
Horizontal Crack on Roof of Verandah of S.No.194,(G.F.), Approx.  
Width = 0.25mm, Approx.Length = 2.10m.  
Distance from R.Ext.Col. =0m, Height from Floor =2.80m.





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Photo 30

Inclined Crack on Outer R.Ext.Col. of Verandah of S.No.194, (G.F.),  
Approx. Width = 2.50mm, Approx.Length = 1.20m.  
Distance from Right Ext.Col. = 0m, Height from Floor = 2.50m.



Photo 31

Dampness/Seepage on Roof of Verandah of S.No.194,  
Ground Floor



Photo 32

Dampness/Seepage on Ext. Beam of Verandah of S.No.194,  
Ground Floor



Photo 33

Plaster Removal on Outer R.Ext.Col. of Verandah of S.No.194,  
Ground Floor



Photo 34

Horizontal Crack on Roof of Verandah of S.No.195, (G.F.), Approx.  
Width = 1.0mm, Approx.Length = 2.0m.  
Distance from Left Int.Col. = 0m, Height from Floor = 2.80m.



Photo 35

Inclined Crack on Roof & Beam of Verandah of S.No.195, (G.F.),  
Approx. Width = 1.50mm, Approx.Length = 3.0m.  
Distance from Left Ext.Col. = 0m, Height from Floor = 2.80m.





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Photo 36

Inclined Crack on Right Ext.Col. of Verandah of S.No.195, (G.F.),  
Approx. Width = 2.0mm, Approx.Length = 0.30m.  
Distance from Joint of Beam & Col. = 0m, Height from Floor = 2.50m.



Photo 37A

Horizontal Crack on Outer Ext.Beam of Verandah of  
S.No.195&196, (G.F.), Approx. Width=2.0mm, Approx.Length=4.0m.  
Distance from Right Ext.Col. = 0m, Height from Floor = 2.50m.



Photo 37A

Horizontal Crack on Outer Ext.Beam of Verandah of  
S.No.195&196, (G.F.), Approx. Width=2.0mm, Approx.Length=4.0m.  
Distance from Right Ext.Col. = 0m, Height from Floor = 2.50m.



Photo 38

Inclined Crack on Outer R.Ext.Col. of Verandah of S.No.195, (G.F.),  
Approx. Width = 1.0mm, Approx.Length = 0.70m.  
Distance from R.Ext. Col. = 0m, Height from Floor = 2.0m.



Photo 39

Plaster Removal on Roof of Verandah of S.No.195,  
Ground Floor



Photo 40

Plaster Crack on Roof of Verandah of S.No.195,  
Ground Floor



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| 4     | Building Ownership Details                  | 3        |
| 5     | Project Details                             | 4        |
| 6     | General Building Details                    | 4        |
| 7     | Summary of Cracks                           | 5        |
| 8     | Summary of Defects other than Cracks        | 5        |
| 9     | Summary of Areas that Could not be surveyed | 5        |
| 10    | Defect Photographs                          |          |

## Introduction

The Jaipur Metro Rail is being constructed to provide the city of Jaipur with a modern and technologically advanced Transit System, to provide a safe and well connected means of transport that reduces traffic congestion. The project consists of two corridors with underground and elevated sections.

The construction of underground rail and road infrastructures in metropolitan and cosmopolitan cities are mostly through developed area under challenging soil conditions.

The alignment of structure is passing through densely inhabited areas, many structures are falling in the zone of influence of construction activities. It is required to carry out the pre-condition survey of those structures. The scope of work of this survey includes carrying out pre-condition survey of those structures.

## Survey Details

| S.No. | Head                       | Particulars | Signatures |
|-------|----------------------------|-------------|------------|
| 1     | Date of Survey             | 16/10/2014  |            |
| 2     | AIMIL Representative       |             |            |
| 3     | CEC Representative         |             |            |
| 4     | Structural Designer of CEC |             |            |
| 5     | JMRC/DMRC Representative   |             |            |





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Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

### About the Structure

The structure under consideration is a Multistorey Load Bearing Structure having 3 floors. The structure was constructed in year 1913 and is 101 years old.

There are 20 defects in the structure out of which 11 are cracks. Category wise distribution of cracks is given in the table below. Overall the Building can be categorised in Category I (Very Slight)

| Category                 | Number of Cracks | % of Total Cracks |
|--------------------------|------------------|-------------------|
| Negligible (< 0.1mm)     | 0                | 0%                |
| Very Slight (0.1 to 1mm) | 8                | 73%               |
| Slight (1 to 5mm)        | 3                | 27%               |
| Moderate (5 to 15mm)     | 0                | 0%                |
| Severe (15 to 25mm)      | 0                | 0%                |
| Very Severe (>25mm)      | 0                | 0%                |

The average width of cracks is 0.80mm and average length of cracks is 1.79m. The maximum crack width is 2.50mm and minimum width is 0.25mm.

| Building Ownership Details |                            |                   |            |
|----------------------------|----------------------------|-------------------|------------|
| Unique ID/Sub ID           | Premises Name              | Owner             | Signatures |
| CP-CC-UP-0072/196          | Guru Nanak Provision Store | Mr.Rajender Kumar |            |
| CP-CC-UP-0072/197          | Adityas                    | Mr. Pawan Mittal  |            |
| CP-CC-UP-0072/198          | Shop No. 198               |                   |            |
| CP-CC-UP-0072/199          | Shiv Bhandar               | Mr. Rishi Gupta   |            |
| CP-CC-UP-0072/200          | Gulabchand Ghasilal        | Shiv Kishor       |            |



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| Project Details |                                 |                                      |
|-----------------|---------------------------------|--------------------------------------|
| S. No.          | Head                            | Particulars                          |
| 1               | Project                         | Jaipur Metro Rail Project            |
| 2               | Section                         | Chandpole to Bari Chaupar            |
| 3               | Client                          | JMRC Limited                         |
| 4               | Consultant                      | DMRC Limited                         |
| 5               | Contractor                      | CEC                                  |
| 6               | Design Consultant of Contractor | Omikron Kappa - Indus Consultrans JV |
| 7               | Sub-Contractor                  | AIMIL Limited                        |
| 8               | Subject                         | Pre-Condition Survey Report          |

| General Building Details (As informed verbally by Building Owner) |                                |                               |
|---|--------------------------------|-------------------------------|
| S. No.  | Head                           | Particulars                   |
| 1   | Building Name                  | Shops                         |
| 2   | Building Address               | Shops, Chandpol Bazar, Jaipur |
| 3   | Year of Construction           | 1913                          |
| 4   | Number of Floors               | G+2                           |
| 5   | Number of Basements            | No                            |
| 6   | Type of Building               | Commercial                    |
| 7   | Approximate Height             | 9m                            |
| 8   | Approximate Area               | Not Known                     |
| 9   | Age of Building                | 101 years                     |
| 10  | Type of Structure              | Load Bearing Structure        |
| 11  | Type of Foundation             | Not Known                     |
| 12  | Number of Bore Wells           | None                          |
| 13  | Depth and Diameter of Bore     | N.A                           |
| 14  | Roadways                       | One Side                      |
| 15  | Presence of Equipment/Machines | None                          |



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| Summary of Cracks |   |             |                  |                  |             |           |
|-------------------|---|-------------|------------------|------------------|-------------|-----------|
| Defect ID         | Location  | Orientation | Appx. Width (mm) | Appx. Length (m) | Category    | Photo No. |
| 1                 | Ext. Beam of Verandah of S.No.196,Ground Floor    | Horizontal  | 2.5              | 2.3              | Slight      | 7         |
| 2                 | Roof of Verandah of S.No.196,Ground Floor         | Horizontal  | 0.35             | 1.8              | Very Slight | 8         |
| 3                 | Ext. Beam of Verandah of S.No.197,Ground Floor    | Inclined    | 0.6              | 1.8              | Very Slight | 9         |
| 4                 | Roof of Verandah of Ganpati Guest House,G. Floor  | Horizontal  | 0.25             | 1.8              | Very Slight | 10        |
| 5                 | Roof of Verandah of Ganpati Guest House,G. Floor  | Horizontal  | 0.5              | 1.8              | Very Slight | 11        |
| 6                 | Ext.Beam of Verandah of Ganpati Guest House,G.F.  | Inclined    | 2                | 0.15             | Slight      | 12        |
| 7                 | Roof of Verandah of S.No.198, Ground Floor        | Horizontal  | 0.35             | 1.3              | Very Slight | 15        |
| 8                 | Roof of Verandah of S.No.198, Ground Floor        | Horizontal  | 0.5              | 2                | Very Slight | 16        |
| 9                 | Ext.Beam & Roof of Verandah of S.No.199, G. Floor | Inclined    | 0.4              | 2.3              | Very Slight | 19        |
| 10                | Roof of Verandah of S.No.200,Ground Floor         | Horizontal  | 1                | 2.3              | Slight      | 24A & 24B |
| 11                | Ext.Beam & Roof of Verandah of S.No.200, G. Floor | Horizontal  | 0.4              | 2.1              | Very Slight | 25        |

| Summary of Defects Other Than Crack |  |                    |           |
|-------------------------------------|--|--------------------|-----------|
| Defect ID                           | Location   | Description        | Photo No. |
| 1                                   | Roof of Verandah of S.No.197,G. Floor              | Peeling of Plaster | 13        |
| 2                                   | Ext. Beam of Verandah of S.No.197,G. Floor         | Dampness/Seepage   | 14        |
| 3                                   | Roof of Verandah of S.No.198,Ground Floor          | Dampness/Seepage   | 17        |
| 4                                   | Outer Left Ext.Col.of Verandah of S.No.198,G.Floor | Dampness/Seepage   | 18        |
| 5                                   | Roof of Verandah of S.No.199,Ground Floor          | Plaster Crack      | 20        |
| 6                                   | Ext.Beam & Roof of Verandah of S.No.199, G. Floor  | Plaster Crack      | 21        |
| 7                                   | Roof of Verandah of S.No.199,Ground Floor          | Dampness/Seepage   | 22        |
| 8                                   | Outer Left Ext.Col.of Verandah of S.No.199,G.Floor | Plaster Removal    | 23        |
| 9                                   | Roof of Verandah of S.No.200,Ground Floor          | Dampness/Seepage   | 26        |





**JAIPUR METRO** Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 1  
View of Shop No.196



Photo 2  
View of Shop No.197



Photo 3  
View of Shop No.198



Photo 4  
View of Shop No.199



Photo 5  
View of Shop No.200



Photo 6  
View of Roof of Verandah of Shop No.196, Ground Floor



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 7

Horizontal Crack on Ext. Beam of Verandah of S.No.196,(G. Floor)  
Approx. Width = 2.5mm, Approx.Length = 2.3m.  
Distance from L.Ext.Col. =0m, Height from Floor =2.80m.



Photo 8

Horizontal Crack on Roof of Verandah of S.No.196,(G. Floor)  
Approx. Width = 0.35mm, Approx.Length = 1.8m.  
Distance from L.Ext.Col. =1.8m, Height from Floor =2.8m.



Photo 9

Inclined Crack on Ext. Beam of Verandah of S.No.197,(G. Floor)  
Approx. Width = 0.60mm, Approx.Length = 1.8m.  
Distance from Left Ext. Col. = 0.40m, Height from Floor =2.0m.



Photo 10

Horizontal Crack on Roof of Veranda of Ganpati Guest House,(GF)  
Approx. Width = 0.25mm, Approx.Length = 1.8m.  
Distance from L.Ext.Col. =0.4m, Height from Floor =2.5m.



Photo 11

Horizontal Crack on Roof of Veranda of Ganpati Guest House,(GF)  
Approx. Width = 0.50mm, Approx.Length = 1.8m.  
Distance from R.Ext.Col. =0.4m, Height from Floor =2.5m.



Photo 12

Inclined Crack on Ext. Beam of Veranda of Ganpati G. House,(GF)  
Approx. Width = 2.0mm, Approx.Length = 0.15m.  
Distance from Right Ext. Col. = 0m, Height from Floor =2.20m.





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 13

Peeling of Plaster on Roof of Verandah of S.No.197,  
Ground Floor



Photo 14

Dampness/Seepage on Ext. Beam of Verandah of S.No.197,  
Ground Floor



Photo 15

Horizontal Crack on Roof of Verandah of S.No.198,(G. Floor)  
Approx. Width = 0.35mm, Approx.Length = 1.30m.  
Distance from R.Ext.Col. =0m, Height from Floor =2.80m.



Photo 16

Horizontal Crack on Roof of Verandah of S.No.198,(G. Floor)  
Approx. Width = 0.50mm, Approx.Length = 2.0m.  
Distance from R.Ext.Col. =0m, Height from Floor =2.80m.



Photo 17

Dampness/Seepage on Roof of Verandah of S.No.198,,  
Ground Floor



Photo 18

Dampness/Seepage on Outer Left Ext.Col.of Verandah of S.No.198,  
Ground Floor





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 19

Horizontal Crack on Ext.Beam & Roof of Verandah of S.No.199,GF  
Approx. Width = 0.40mm, Approx.Length = 2.30m.  
Distance from Left Ext.Col.=0.0m, Height from Floor =2.80m.



Photo 20

Plaster Crack on Roof of Verandah of S.No.199,  
Ground Floor



Photo 21

Plaster Crack on Ext.Beam & Roof of Verandah of S.No.199,  
Ground Floor



Photo 22

Dampness/Seepage on Roof of Verandah of S.No.199,  
Ground Floor



Photo 23

Plaster Removal on Outer Left Ext.Col.of Verandah of S.No.199,  
Ground Floor



Photo 24A

Horizontal Crack on Roof of Verandah of S.No.200,(G.F.),      Approx.  
Width = 1.0mm, Approx.Length = 2.80m.  
Distance from L.Ext.Col. =0.1m, Height from Floor =2.80m.



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 24B

Horizontal Crack on Roof of Verandah of S.No.200, (G.F.), Approx.  
Width = 1.0mm, Approx.Length = 2.80m.  
Distance from L.Ext.Col. = 0.1m, Height from Floor = 2.80m.



Photo 25

Horizontal Crack on Ext.Beam & Roof of Verandah of S.No.200, GF  
Approx. Width = 0.40mm, Approx.Length = 2.10m.  
Distance from R.Ext.Col. = 0m, Height from Floor = 2.80m.



Photo 26

Dampness/Seepage on Roof of Verandah of S.No.200,  
Ground Floor





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Shop No.201-202  
Chandpol Bazar  
Jaipur  
Unique ID: CP-CC-UP-0073

Report Number: AIMIL/ESG/JMCEC/CP-CC-UP-0073/02/Verandah, Rev. 02, Dated: October, 2014

Building Owner  
Contractor

Various Owners  
CEC

Client  
Sub-Contractor

JMRC Limited  
AIMIL Limited





Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

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Introduction

The Jaipur Metro Rail is being constructed to provide the city of Jaipur with a modern and technologically advanced Transit System, to provide a safe and well connected means of transport that reduces traffic congestion. The project consists of two corridors with underground and elevated sections.

The construction of underground rail and road infrastructures in metropolitan and cosmopolitan cities are mostly through developed area under challenging soil conditions.

The alignment of structure is passing through densely inhabited areas, many structures are falling in the zone of influence of construction activities. It is required to carry out the pre-condition survey of those structures. The scope of work of this survey includes carrying out pre-condition survey of those structures.

Survey Details

| S.No. | Head                       | Particulars | Signatures |
|-------|----------------------------|-------------|------------|
| 1     | Date of Survey             | 16/10/2014  |            |
| 2     | AIMIL Representative       |             |            |
| 3     | CEC Representative         |             |            |
| 4     | Structural Designer of CEC |             |            |
| 5     | JMRC/DMRC Representative   |             |            |





## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

### About the Structure

The structure under consideration is a Multistorey Load Bearing Structure having 4 floors. The structure was constructed in year 1860 and is 154 years old.

There are 9 defects in the structure out of which 3 are cracks. Category wise distribution of cracks is given in the table below. Overall the Building can be categorised in Category I (Very Slight)

| Category                 | Number of Cracks | % of Total Cracks |
|--------------------------|------------------|-------------------|
| Negligible (< 0.1mm)     | 0                | 0%                |
| Very Slight (0.1 to 1mm) | 3                | 100%              |
| Slight (1 to 5mm)        | 0                | 0%                |
| Moderate (5 to 15mm)     | 0                | 0%                |
| Severe (15 to 25mm)      | 0                | 0%                |
| Very Severe (>25mm)      | 0                | 0%                |

The average width of cracks is 0.38mm and average length of cracks is 1.87m. The maximum crack width is 0.50mm and minimum width is 0.15mm.

| Building Ownership Details |                                   |             |            |
|----------------------------|-----------------------------------|-------------|------------|
| Unique ID/Sub ID           | Premises Name                     | Owner       | Signatures |
| CP-CC-UP-0073/201          | Ram Sahay Jagdish Narayan Singhal | Mr.Mahender |            |
| CP-CC-UP-0073/202          | Tata Indicom                      | Locked      |            |



## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Project Details |                                 |                                      |
|-----------------|---------------------------------|--------------------------------------|
| S. No.          | Head                            | Particulars                          |
| 1               | Project                         | Jaipur Metro Rail Project            |
| 2               | Section                         | Chandpole to Bari Chaupar            |
| 3               | Client                          | JMRC Limited                         |
| 4               | Consultant                      | DMRC Limited                         |
| 5               | Contractor                      | CEC                                  |
| 6               | Design Consultant of Contractor | Omikron Kappa - Indus Consultrans JV |
| 7               | Sub-Contractor                  | AIMIL Limited                        |
| 8               | Subject                         | Pre-Condition Survey Report          |

| General Building Details (As informed verbally by Building Owner) |                                |                              |
|---|--------------------------------|------------------------------|
| S. No.  | Head                           | Particulars                  |
| 1   | Building Name                  | Shop No.201 & 202            |
| 2   | Building Address               | Shop, Chandpol Bazar, Jaipur |
| 3   | Year of Construction           | 1860                         |
| 4   | Number of Floors               | G+3                          |
| 5   | Number of Basements            | No                           |
| 6   | Type of Building               | Commercial                   |
| 7   | Approximate Height             | 12m                          |
| 8   | Approximate Area               | Not Known                    |
| 9   | Age of Building                | 154 years                    |
| 10  | Type of Structure              | Load Bearing Structure       |
| 11  | Type of Foundation             | Not Known                    |
| 12  | Number of Bore Wells           | None                         |
| 13  | Depth and Diameter of Bore     | N.A                          |
| 14  | Roadways                       | One Side                     |
| 15  | Presence of Equipment/Machines | None                         |



# JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Summary of Cracks |  |             |                  |                  |             |           |
|-------------------|--|-------------|------------------|------------------|-------------|-----------|
| Defect ID         | Location   | Orientation | Appx. Width (mm) | Appx. Length (m) | Category    | Photo No. |
| 1                 | Roof of Verandah of S.No.201,Ground Floor          | Horizontal  | 0.15             | 2.8              | Very Slight | 3         |
| 2                 | Left Int. Col.of Verandah of S.No.201,Ground Floor | Inclined    | 0.5              | 0.8              | Very Slight | 4         |
| 3                 | Roof of Verandah of S.No.202,Ground Floor          | Horizontal  | 0.5              | 2                | Very Slight | 9         |

| Summary of Defects Other Than Crack |   |                  |           |
|-------------------------------------|---|------------------|-----------|
| Defect ID                           | Location  | Description      | Photo No. |
| 1                                   | Left Int. Col.of Verandah of S.No.201,Ground Floor  | Dampness/Seepage | 5         |
| 2                                   | Roof of Verandah of S.No.201,Ground Floor           | Plaster Removal  | 6         |
| 3                                   | Roof of Verandah of S.No.201,Ground Floor           | Dampness/Seepage | 7         |
| 4                                   | Right Int. Col.of Verandah of S.No.201,Ground Floor | Plaster Removal  | 8         |
| 5                                   | Roof of Verandah of S.No.202,Ground Floor           | Plaster Removal  | 10        |
| 6                                   | Roof of Verandah of S.No.202,Ground Floor           | Dampness/Seepage | 11        |



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 1  
View of Shop No.201



Photo 2  
View of Shop No.202



Photo 3  
Horizontal Crack on Roof of Verandah of S.No.201, (G. Floor)  
Approx. Width = 0.15mm, Approx.Length = 2.0m.  
Distance from L.Ext.Col. = 0m, Height from Floor = 2.80m.



Photo 4  
Inclined Crack on L.Int.Col. of Verandah of S.No.201, (G. Floor)  
Approx. Width = 0.50mm, Approx.Length = 0.80m.  
Distance from L.Int.Col. = 0m, Height from Floor = 2.50m.



Photo 5  
Dampness/Seepage on Left Int. Col. of Verandah of S.No.201,  
Ground Floor



Photo 6  
Plaster Removal on Roof of Verandah of S.No.201,  
Ground Floor





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 7

Dampness/Seepage on Roof of Verandah of S.No.201,  
Ground Floor



Photo 8

Plaster Removal on Right Int. Col. of Verandah of S.No.201,  
Ground Floor



Photo 9

Horizontal Crack on Roof of Verandah of S.No.202, (G. Floor)  
Approx. Width = 0.50mm, Approx.Length = 2.0m.  
Distance from Right Ext. Col. = 0m, Height from Floor = 2.80m.



Photo 10

Plaster Removal on Roof of Verandah of S.No.202,  
Ground Floor



Photo 11

Dampness/Seepage on Roof of Verandah of S.No.202,  
Ground Floor



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Shop No.203,204 & 205  
Chandpol Bazar  
Jaipur  
Unique ID: CP-CC-UP-0074

Report Number: AIMIL/ESG/JMCEC/CP-CC-UP-0074/02/Verandah, Rev. 02, Dated: October, 2014

Building Owner  
Contractor

Various Owners  
CEC

Client  
Sub-Contractor

JMRC Limited  
AIMIL Limited





Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

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| 7     | Summary of Cracks                           | 5        |
| 8     | Summary of Defects other than Cracks        | 5        |
| 9     | Summary of Areas that Could not be surveyed | 5        |
| 10    | Defect Photographs                          |          |

Introduction

The Jaipur Metro Rail is being constructed to provide the city of Jaipur with a modern and technologically advanced Transit System, to provide a safe and well connected means of transport that reduces traffic congestion. The project consists of two corridors with underground and elevated sections.

The construction of underground rail and road infrastructures in metropolitan and cosmopolitan cities are mostly through developed area under challenging soil conditions.

The alignment of structure is passing through densely inhabited areas, many structures are falling in the zone of influence of construction activities. It is required to carry out the pre-condition survey of those structures. The scope of work of this survey includes carrying out pre-condition survey of those structures.

Survey Details

| S.No. | Head                       | Particulars | Signatures |
|-------|----------------------------|-------------|------------|
| 1     | Date of Survey             | 16/10/2014  |            |
| 2     | AIMIL Representative       |             |            |
| 3     | CEC Representative         |             |            |
| 4     | Structural Designer of CEC |             |            |
| 5     | JMRC/DMRC Representative   |             |            |





## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

### About the Structure

The structure under consideration is a Multistorey Load Bearing Structure having 4 floors. The structure was constructed in year 1863 and is 151 years old.

There are 8 defects in the structure out of which 6 are cracks. Category wise distribution of cracks is given in the table below. Overall the Building can be categorised in Category I (Very Slight)

| Category                 | Number of Cracks | % of Total Cracks |
|--------------------------|------------------|-------------------|
| Negligible (< 0.1mm)     | 0                | 0%                |
| Very Slight (0.1 to 1mm) | 5                | 83%               |
| Slight (1 to 5mm)        | 1                | 17%               |
| Moderate (5 to 15mm)     | 0                | 0%                |
| Severe (15 to 25mm)      | 0                | 0%                |
| Very Severe (>25mm)      | 0                | 0%                |

The average width of cracks is 0.86mm and average length of cracks is 1.22m. The maximum crack width is 2.50mm and minimum width is 0.25mm.

| Building Ownership Details |                   |                                |            |
|----------------------------|-------------------|--------------------------------|------------|
| Unique ID/Sub ID           | Premises Name     | Owner                          | Signatures |
| CP-CC-UP-0074/203          | SBBJ ATM          | State Bank of Bikaner & Jaipur |            |
| CP-CC-UP-0074/204          | Goyal Trading Co. | Mr.Subhash Ji Goel             |            |
| CP-CC-UP-0074/205          | Surya Agency      | Mr.Niranjan Kumar              |            |



## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Project Details |                                 |                                      |
|-----------------|---------------------------------|--------------------------------------|
| S. No.          | Head                            | Particulars                          |
| 1               | Project                         | Jaipur Metro Rail Project            |
| 2               | Section                         | Chandpole to Bari Chaupar            |
| 3               | Client                          | JMRC Limited                         |
| 4               | Consultant                      | DMRC Limited                         |
| 5               | Contractor                      | CEC                                  |
| 6               | Design Consultant of Contractor | Omikron Kappa - Indus Consultrans JV |
| 7               | Sub-Contractor                  | AIMIL Limited                        |
| 8               | Subject                         | Pre-Condition Survey Report          |

| General Building Details (As informed verbally by Building Owner) |                                |                               |
|---|--------------------------------|-------------------------------|
| S. No.  | Head                           | Particulars                   |
| 1   | Building Name                  | Shop No.203,204 & 205         |
| 2   | Building Address               | Shops, Chandpol Bazar, Jaipur |
| 3   | Year of Construction           | 1863                          |
| 4   | Number of Floors               | G+3                           |
| 5   | Number of Basements            | No                            |
| 6   | Type of Building               | Commercial                    |
| 7   | Approximate Height             | 12m                           |
| 8   | Approximate Area               | Not Known                     |
| 9   | Age of Building                | 151 years                     |
| 10  | Type of Structure              | Load Bearing Structure        |
| 11  | Type of Foundation             | Not Known                     |
| 12  | Number of Bore Wells           | None                          |
| 13  | Depth and Diameter of Bore     | N.A                           |
| 14  | Roadways                       | One Side                      |
| 15  | Presence of Equipment/Machines | None                          |



# JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Summary of Cracks |   |             |                  |                  |             |           |
|-------------------|---|-------------|------------------|------------------|-------------|-----------|
| Defect ID         | Location  | Orientation | Appx. Width (mm) | Appx. Length (m) | Category    | Photo No. |
| 1                 | Left Int. Col. of Verandah of S.No.204,Ground Floor | Inclined    | 0.6              | 0.7              | Very Slight | 6         |
| 2                 | Right Int.Col. of Verandah of S.No.204,Ground Floor | Inclined    | 0.6              | 0.5              | Very Slight | 7         |
| 3                 | Int. Beam of Verandah of S.No.204 & 205,G. Floor    | Vertical    | 0.6              | 1                | Very Slight | 8         |
| 4                 | Roof of Verandah of S.No.205,Ground Floor           | Horizontal  | 0.6              | 2                | Very Slight | 9         |
| 5                 | Roof of Verandah of S.No.205,Ground Floor           | Horizontal  | 0.25             | 1.8              | Very Slight | 10        |
| 6                 | Outerside L.Ext.Col. of Verandah of S.No.205,G.F.   | Inclined    | 2.5              | 1.3              | Slight      | 11        |

| Summary of Defects Other Than Crack |   |                  |           |
|-------------------------------------|---|------------------|-----------|
| Defect ID                           | Location  | Description      | Photo No. |
| 1                                   | Ext. Beam of Verandah of S.No.205, Ground Floor | Dampness/Seepage | 12        |
| 2                                   | Roof of Verandah of S.No.205, Ground Floor      | Dampness/Seepage | 13        |





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 1  
View of Shop No.203



Photo 2  
View of Shop No.204



Photo 3  
View of Shop No.205



Photo 4  
View of Roof of Verandah of Shop No.203, Ground Floor



Photo 5  
View of Roof of Verandah of Shop No.204, Ground Floor



Photo 6  
Inclined Crack on Left Int. Col. of Verandah of S.No.204,(G.F.)  
Approx. Width = 0.60mm, Approx.Length = 0.70m.  
Distance from L.Side Wall =0m, Height from Floor =2.20m.



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 7

Inclined Crack on Right Int. Col. of Verandah of S.No.204, (G.F.)  
Approx. Width = 0.60mm, Approx.Length = 0.50m.  
Distance from R.Side Wall = 0m, Height from Floor = 2.20m.



Photo 8

Vertical Crack on Int. Beam of Verandah of S.No.204 & 205, (G.F.)  
Approx. Width = 0.60mm, Approx.Length = 1.0m.  
Distance from L.Int.Col. = 0.30m, Height from Floor = 1.80m.



Photo 9

Horizontal Crack on Roof of Verandah of S.No.205, (G.F.)  
Approx. Width = 0.60mm, Approx.Length = 2.0m.  
Distance from L.Ext.Col. = 0m, Height from Floor = 2.8m.



Photo 10

Horizontal Crack on Roof of Verandah of S.No.205, (G.F.)  
Approx. Width = 0.25mm, Approx.Length = 1.80m.  
Distance from R.Ext.Col. = 0.50m, Height from Floor = 2.8m.



Photo 11

Inclined Crack on Outsideside L.Ext.Col. of Verandah of S.No.205, GF  
Approx. Width = 2.50mm, Approx.Length = 1.30m.  
Distance from L.Ext.Col. = 0m, Height from Floor = 2.5m.



Photo 12

Dampness/Seepage on Ext. Beam of Verandah of S.No.205,  
Ground Floor





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 13

Dampness/Seepage on Roof of Verandah of S.No.205,  
Ground Floor

Photo 17

Dampness/Seepage on Roof of Verandah of S.No.198,,  
Ground Floor

Photo 18

Dampness/Seepage on Outer Left Ext.Col.of Verandah of S.No.198,  
Ground Floor





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Shop No.206, 207, 208, 209, 210, 211, 212, 213, 214 & 215  
Chandpol Bazar  
Jaipur  
Unique ID: CP-CC-UP-0075

Report Number: AIMIL/ESG/JMCEC/CP-CC-UP-0075/02/Verandah, Rev. 02, Dated: October, 2014

Building Owner  
Contractor

Various Owners  
CEC

Client  
Sub-Contractor

JMRC Limited  
AIMIL Limited





Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

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| 5     | Project Details                      | 4        |
| 6     | General Building Details             | 4        |
| 7     | Summary of Cracks                    | 5        |
| 8     | Summary of Defects other than Cracks | 6        |
| 9     | Defect Photographs                   |          |

Introduction

The Jaipur Metro Rail is being constructed to provide the city of Jaipur with a modern and technologically advanced Transit System, to provide a safe and well connected means of transport that reduces traffic congestion. The project consists of two corridors with underground and elevated sections.

The construction of underground rail and road infrastructures in metropolitan and cosmopolitan cities are mostly through developed area under challenging soil conditions.

The alignment of structure is passing through densely inhabited areas, many structures are falling in the zone of influence of construction activities. It is required to carry out the pre-condition survey of those structures. The scope of work of this survey includes carrying out pre-condition survey of those structures.

Survey Details

| S.No. | Head                       | Particulars | Signatures |
|-------|----------------------------|-------------|------------|
| 1     | Date of Survey             | 16/10/2014  |            |
| 2     | AIMIL Representative       |             |            |
| 3     | CEC Representative         |             |            |
| 4     | Structural Designer of CEC |             |            |
| 5     | JMRC/DMRC Representative   |             |            |



## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

### About the Structure

The structure under consideration is a Multistorey Load Bearing Structure having 3 floors. The structure was constructed in year 1750 and is 264 years old.

There are 47 defects in the structure out of which 20 are cracks. Category wise distribution of cracks is given in the table below. Overall the Building can be categorised in Category II (Slight)

| Category                 | Number of Cracks | % of Total Cracks |
|--------------------------|------------------|-------------------|
| Negligible (< 0.1mm)     | 0                | 0%                |
| Very Slight (0.1 to 1mm) | 8                | 40%               |
| Slight (1 to 5mm)        | 12               | 60%               |
| Moderate (5 to 15mm)     | 0                | 0%                |
| Severe (15 to 25mm)      | 0                | 0%                |
| Very Severe (>25mm)      | 0                | 0%                |

The average width of cracks is 1.10mm and average length of cracks is 1.56m. The maximum crack width is 2.50mm and minimum width is 0.35mm.

| Building Ownership Details |                                    |                           |            |
|----------------------------|------------------------------------|---------------------------|------------|
| Unique ID/Sub ID           | Premises Name                      | Owner                     | Signatures |
| CP-CC-UP-0075/206          | Mohandas Inderkumar & Sons         | Mr. Nandkishor            |            |
| CP-CC-UP-0075/207          | Shiv Agency                        | Mr. Daulat Ram            |            |
| CP-CC-UP-0075/208          | Foolchand HariKishan               | Mr. Ram Babu              |            |
| CP-CC-UP-0075/209-210      | Foolchand Gangaram                 | Mr. Prakash Chand         |            |
| CP-CC-UP-0075/211          | Rameshchand Prehlad Rai Aggarwal   | Mr. Rameshchand           |            |
| CP-CC-UP-0075/212          | Kalyan Sahay Bhagwan Sahay Singhal | Mr. Suresh Aggarwal       |            |
| CP-CC-UP-0075/213-214      | Aggarwal Pataka Wala               | Mr. Mamraj Aggarwal       |            |
| CP-CC-UP-0075/215          | Girdharilal Hiralal                | Mr. Purusumal Girdharilal |            |





## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Project Details |                                 |                                      |
|-----------------|---------------------------------|--------------------------------------|
| S. No.          | Head                            | Particulars                          |
| 1               | Project                         | Jaipur Metro Rail Project            |
| 2               | Section                         | Chandpole to Bari Chaupar            |
| 3               | Client                          | JMRC Limited                         |
| 4               | Consultant                      | DMRC Limited                         |
| 5               | Contractor                      | CEC                                  |
| 6               | Design Consultant of Contractor | Omikron Kappa - Indus Consultrans JV |
| 7               | Sub-Contractor                  | AIMIL Limited                        |
| 8               | Subject                         | Pre-Condition Survey Report          |

| General Building Details (As informed verbally by Building Owner) |                                |   |
|---|--------------------------------|---|
| S. No.  | Head                           | Particulars   |
| 1   | Building Name                  | Shop No.206, 207, 208, 209, 210, 211, 212, 213, 214 & 215 |
| 2   | Building Address               | Shops, Chandpol Bazar, Jaipur                             |
| 3   | Year of Construction           | 1750  |
| 4   | Number of Floors               | G+2   |
| 5   | Number of Basements            | No  |
| 6   | Type of Building               | Commercial  |
| 7   | Approximate Height             | 9m  |
| 8   | Approximate Area               | Not Known   |
| 9   | Age of Building                | 264 years   |
| 10  | Type of Structure              | Load Bearing Structure                                    |
| 11  | Type of Foundation             | Not Known   |
| 12  | Number of Bore Wells           | None  |
| 13  | Depth and Diameter of Bore     | N.A   |
| 14  | Roadways                       | One Side  |
| 15  | Presence of Equipment/Machines | None  |



# JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Summary of Cracks |  |             |                  |                  |             |           |
|-------------------|--|-------------|------------------|------------------|-------------|-----------|
| Defect ID         | Location   | Orientation | Appx. Width (mm) | Appx. Length (m) | Category    | Photo No. |
| 1                 | Roof of Verandah of S.No.206,Ground Floor          | Horizontal  | 0.6              | 2                | Very Slight | 11        |
| 2                 | Roof of Verandah of S.No.206,Ground Floor          | Horizontal  | 0.35             | 2                | Very Slight | 12        |
| 3                 | Outer Wall of L.Ext.Col.of Verandah of S.No.207,GF | Inclined    | 1.5              | 1                | Slight      | 16A & 16B |
| 4                 | Roof of Verandah of S.No.208,Ground Floor          | Horizontal  | 0.8              | 2                | Very Slight | 19        |
| 5                 | RHS Col.& Verandah Beam of S.No.208,G F            | Inclined    | 0.8              | 0.8              | Very Slight | 20        |
| 6                 | Roof & Right.Int.Col. of Verandah of S.No.208,G F  | Inclined    | 1.5              | 3                | Slight      | 21A & 21B |
| 7                 | Roof of Verandah of S.No.209,Ground Floor          | Horizontal  | 1                | 1                | Slight      | 24        |
| 8                 | External Beam of Verandah of S.No.209,G F          | Horizontal  | 1                | 1.2              | Slight      | 25        |
| 9                 | Roof of Verandah of S.No.209,Ground Floor          | Horizontal  | 0.8              | 2                | Very Slight | 26        |
| 10                | Roof of Verandah of S.No.210,Ground Floor          | Horizontal  | 0.8              | 2                | Very Slight | 28        |
| 11                | Outer Left Ext. Col of Verandah of S.No.210,GF     | Inclined    | 1                | 0.3              | Slight      | 29        |
| 12                | Roof of Verandah of S.No.211,Ground Floor          | Horizontal  | 1.5              | 2                | Slight      | 31        |
| 13                | Roof of Verandah of S.No.211,Ground Floor          | Inclined    | 1                | 1.8              | Slight      | 32        |
| 14                | Roof of Verandah of S.No.212,Ground Floor          | Horizontal  | 0.8              | 1.8              | Very Slight | 35        |
| 15                | Roof of Verandah of S.No.213,Ground Floor          | Horizontal  | 2.5              | 2                | Slight      | 40        |
| 16                | Roof of Verandah of S.No.214,Ground Floor          | Horizontal  | 2                | 2                | Slight      | 44        |
| 17                | Roof of Verandah of S.No.214,Ground Floor          | Horizontal  | 1                | 2                | Slight      | 45        |
| 18                | Roof of Verandah of S.No.214,Ground Floor          | Horizontal  | 1                | 2                | Slight      | 46        |
| 19                | RHS Ext.Beam of Verandah of S.No.214,G.Floor       | Horizontal  | 1.5              | 2                | Slight      | 47        |
| 20                | Roof & Ext.Beam of Verandah of S.No.215,G.Floor    | Inclined    | 0.6              | 0.8              | Very Slight | 52        |



Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line

| Summary of Defects Other Than Crack |  |                    |           |
|-------------------------------------|--|--------------------|-----------|
| Defect ID                           | Location   | Description        | Photo No. |
| 1                                   | Ext.Beam of Verandah of S.No.206,Ground Floor    | Dampness/Seepage   | 13        |
| 2                                   | Roof of Verandah of S.No.206,Ground Floor        | Dampness/Seepage   | 14        |
| 3                                   | Roof of Verandah of S.No.206,Ground Floor        | Stone Gap          | 15        |
| 4                                   | Roof of Verandah of S.No.207,Ground Floor        | Peeling of Plaster | 17        |
| 5                                   | Roof of Verandah of S.No.207,Ground Floor        | Dampness/Seepage   | 18        |
| 6                                   | Roof of Verandah of S.No.208,Ground Floor        | Dampness/Seepage   | 22        |
| 7                                   | Int.RHS Col.of Verandah of S.No.208,Ground Floor | Plaster Removal    | 23        |
| 8                                   | Roof of Verandah of S.No.209,Ground Floor        | Dampness/Seepage   | 27        |
| 9                                   | Roof of Verandah of S.No.210,Ground Floor        | Peeling of Plaster | 30        |
| 10                                  | Roof of Verandah of S.No.211,Ground Floor        | Dampness/Seepage   | 33        |
| 11                                  | Ext.Beam of Verandah of S.No.211,Ground Floor    | Dampness/Seepage   | 34        |
| 12                                  | Roof of Verandah of S.No.212,Ground Floor        | Dampness/Seepage   | 36        |
| 13                                  | Ext.Beam of Verandah of S.No.212,Ground Floor    | Dampness/Seepage   | 37        |
| 14                                  | Roof of Verandah of S.No.212,Ground Floor        | Plaster Crack      | 38        |
| 15                                  | Roof of Verandah of S.No.212,Ground Floor        | Dampness/Seepage   | 39        |
| 16                                  | Roof of Verandah of S.No.213,Ground Floor        | Dampness/Seepage   | 41        |
| 17                                  | Ext.Beam of Verandah of S.No.213,Ground Floor    | Dampness/Seepage   | 42        |
| 18                                  | Outer Ext.Beam of Verandah of S.No.213,G.Floor   | Plaster Removal    | 43        |
| 19                                  | Roof of Verandah of S.No.214,G.Floor             | Dampness/Seepage   | 48        |
| 20                                  | Ext.Beam of Verandah of S.No.214,G.Floor         | Dampness/Seepage   | 49        |
| 21                                  | RHS Ext.Beam of Verandah of S.No.214,G.Floor     | Dampness/Seepage   | 50        |
| 22                                  | RHS Ext.Beam of Verandah of S.No.214,G.Floor     | Plaster Removal    | 51        |
| 23                                  | Ext.Beam of Verandah of S.No.215,G.Floor         | Dampness/Seepage   | 53        |
| 24                                  | Roof of Verandah of S.No.215,G.Floor             | Plaster Crack      | 54        |
| 25                                  | Roof of Verandah of S.No.215,G.Floor             | Peeling of Plaster | 55        |
| 26                                  | Outer L.Ext.Col. of Verandah of S.No.215,G.Floor | Plaster Removal    | 56        |
| 27                                  | Outer R.Ext.Col. of Verandah of S.No.215,G.Floor | Damage             | 57        |





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 1  
View of Shop No.206



Photo 2  
View of Shop No.207



Photo 3  
View of Shop No.208



Photo 4  
View of Shop No.209



Photo 5  
View of Shop No.210



Photo 6  
View of Shop No.211



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Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 7  
View of Shop No.212



Photo 8  
View of Shop No.213



Photo 9  
View of Shop No.214



Photo 10  
View of Shop No.215



Photo 11  
Horizontal Crack on Roof of Verandah of S.No.206,(G. Floor)  
Approx. Width = 0.60mm, Approx.Length = 2.0m.  
Distance from Left Ext. Col. =0m, Height from Floor =2.80m.



Photo 12  
Horizontal Crack on Roof of Verandah of S.No.206,(G. Floor)  
Approx. Width = 0.35mm, Approx.Length = 2.0m.  
Distance from Right Ext. Col. =1.80m, Height from Floor =2.80m.





## JAIPUR METRO Jaipur Metro Rail Corporation

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 13  
Dampness/Seepage on Ext.Beam of Verandah of S.No.206,  
Ground Floor



Photo 14  
Dampness/Seepage on Roof of Verandah of S.No.206,  
Ground Floor

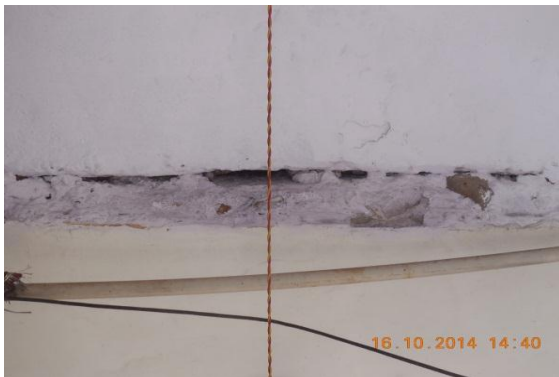


Photo 15  
Stone Gap on Roof of Verandah of S.No.206,  
Ground Floor



Photo 16A  
Inclined Crack on Outer L.Ext.Col. of Verandah of S.No.207(G.F)  
Approx. Width = 1.50mm, Approx.Length = 1.0m.  
Distance from L.Ext.Col. = 0m, Height from Floor = 2.70m.



Photo 16B  
Inclined Crack on Outer L.Ext.Col. of Verandah of S.No.207(G.F)  
Approx. Width = 1.50mm, Approx.Length = 1.0m.  
Distance from L.Ext.Col. = 0m, Height from Floor = 2.70m.



Photo 17  
Peeling of Plaster on Roof of Verandah of S.No.207,  
Ground Floor





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Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



**Photo 18**  
Dampness/Seepage on Roof of Verandah of S.No.207,  
Ground Floor



**Photo 19**  
Horizontal Crack on Roof of Verandah of S.No.208,(G.F.)  
Approx. Width = 0.80mm, Approx.Length = 2.0m.  
Distance from Left Ext.Col.=0.0m, Height from Floor =2.80m.



**Photo 20**  
Inclined Crack on RHS Col.& Verandah Beam of S.No.208,(G.F.)  
Approx. Width = 0.80mm, Approx.Length = 0.80m.  
Distance from Right Ext.Col.=0.0m, Height from Floor =2.0m.



**Photo 21A**  
Inclined Crack on Roof & Right.Int.Col.of Verandah of S.No.208,GF  
Approx. Width = 0.80mm, Approx.Length = 0.80m.  
Distance from Right Ext.Col.=0.0m, Height from Floor =2.0m.



**Photo 21B**  
Inclined Crack on Roof & Right.Int.Col.of Verandah of S.No.208,GF  
Approx. Width = 0.80mm, Approx.Length = 0.80m.  
Distance from Right Ext.Col.=0.0m, Height from Floor =2.0m.



**Photo 22**  
Dampness/Seepage on Roof of Verandah of S.No.208,  
Ground Floor



**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 23

Plaster Removal on Int.RHS Col.of Verandah of S.No.208,  
Ground Floor



Photo 24

Horizontal Crack on Roof of Verandah of S.No.209,(G.F.), Approx.  
Width = 1.0mm, Approx.Length = 1.0m.  
Distance from L.Ext.Col. =0m, Height from Floor =2.80m.



Photo 25

Horizontal Crack on Roof of Verandah of S.No.209,(G.F.), Approx.  
Width = 1.0mm, Approx.Length = 1.20m.  
Distance from R.Ext.Col. =0.40m, Height from Floor =2.20m.



Photo 26

Horizontal Crack on Roof of Verandah of S.No.209,(G.F.), Approx.  
Width = 0.80mm, Approx.Length = 2.0m.  
Distance from R.Ext.Col. =0m, Height from Floor =2.80m.



Photo 27

Dampness/Seepage on Roof of Verandah of S.No.209,  
Ground Floor



Photo 28

Horizontal Crack on Roof of Verandah of S.No.210,(G.F.), Approx.  
Width = 0.80mm, Approx.Length = 2.0m.  
Distance from R.Ext.Col. =0m, Height from Floor =2.80m.





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 29

Horizontal Crack on Outer L.Ext.Col. of Verandah of S.No.210, GF  
Approx. Width = 1.0mm, Approx.Length = 0.30m.  
Distance from L.Ext.Col. = 0m, Height from Floor = 2.90m.



Photo 30

Peeling of Plaster on Roof of Verandah of S.No.210,  
Floor

Ground



Photo 31

Horizontal Crack on Roof of Verandah of S.No.211, (G.F.),  
Width = 0.80mm, Approx.Length = 2.0m.  
Distance from R.Ext.Col. = 0m, Height from Floor = 2.80m.



Photo 32

Horizontal Crack on Roof of Verandah of S.No.211, (G.F.),  
Width = 1.0mm, Approx.Length = 1.80m.  
Distance from R.Ext.Col. = 0m, Height from Floor = 2.80m.



Photo 33

Dampness/Seepage on Roof of Verandah of S.No.211,  
Ground Floor



Photo 34

Dampness/Seepage on Ext.Beam of Verandah of S.No.211,  
Ground Floor





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 35

Horizontal Crack on Roof of Verandah of S.No.212, (G.F.), Approx.  
Width = 0.80mm, Approx.Length = 1.80m.  
Distance from Left Ext.Col. = 0m, Height from Floor = 2.80m.



Photo 36

Dampness/Seepage on Roof of Verandah of S.No.212,  
Ground Floor



Photo 37

Dampness/Seepage on Ext. Beam of Verandah of S.No.212,  
Ground Floor



Photo 38

Plaster Crack on Roof of Verandah of S.No.212,  
Ground Floor

Ground



Photo 39

Dampness/Seepage on Roof of Verandah of S.No.212,  
Ground Floor

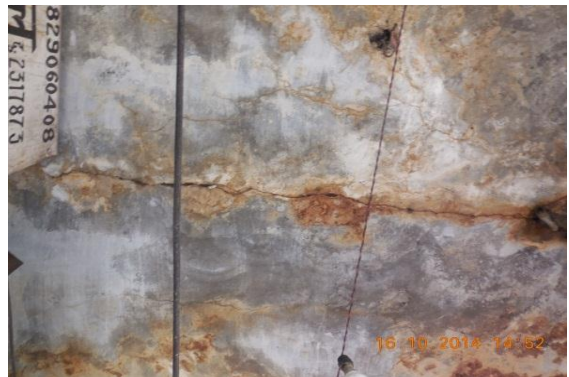


Photo 40

Horizontal Crack on Roof of Verandah of S.No.213, (G.F.), Approx.  
Width = 2.50mm, Approx.Length = 2.0m.  
Distance from Left Ext.Col. = 0m, Height from Floor = 2.80m.



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Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



**Photo 41**  
Dampness/Seepage on Roof of Verandah of S.No.213,  
Ground Floor



**Photo 42**  
Dampness/Seepage on Ext.Beam of Verandah of S.No.213,  
Ground Floor



**Photo 43**  
Plaster Removal on Outer Ext.Beam of Verandah of S.No.213,  
Ground Floor



**Photo 44**  
Horizontal Crack on Roof of Verandah of S.No.214,(G.F.), Approx.  
Width = 2.0mm, Approx.Length = 2.0m.  
Distance from Left Ext.Col. =0m, Height from Floor =2.80m.



**Photo 45**  
Horizontal Crack on Roof of Verandah of S.No.214,(G.F.), Approx.  
Width = 1.0mm, Approx.Length = 2.0m.  
Distance from Right Ext.Col. =1.30m, Height from Floor =2.80m.



**Photo 46**  
Horizontal Crack on Roof of Verandah of S.No.214,(G.F.), Approx.  
Width = 1.0mm, Approx.Length = 2.0m.  
Distance from Right Ext.Col. =0m, Height from Floor =2.80m.





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 47

Horizontal Crack on R.Ext.Beam of Verandah of S.No.214, (G.F.),  
Approx. Width = 1.50mm, Approx.Length = 1.0m.  
Distance from Right Ext.Col. = 0m, Height from Floor = 2.60m.



Photo 48

Dampness/Seepage on Roof of Verandah of S.No.214,  
Ground Floor



Photo 49

Dampness/Seepage on Ext.Beam of Verandah of S.No.214,  
Ground Floor



Photo 50

Dampness/Seepage on RHS Ext.Beam of Verandah of S.No.214  
Ground Floor



Photo 51

Plaster Removal on RHS Ext.Beam of Verandah of S.No.214  
Ground Floor



Photo 52

Inclined Crack on Roof & Ext.Beam of Verandah of S.No.215, (G.F.),  
Approx. Width = 0.60mm, Approx.Length = 0.80m.  
Distance from L.Ext. Col. = 0.20m, Height from Floor = 2.60m.





**JAIPUR METRO Jaipur Metro Rail Corporation**

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Bari Chouper and reversal line

Pre - Condition Building Survey for Construction of Underground Stations from Chandpole to Badi Chouper and reversal line



Photo 53

Dampness/Seepage on Ext.Beam of Verandah of S.No.215  
Ground Floor



Photo 54

Plaster Crack on Roof of Verandah of S.No.215,  
Ground Floor



Photo 55

Peeling of Plaster on Roof of Verandah of S.No.215,  
Ground Floor

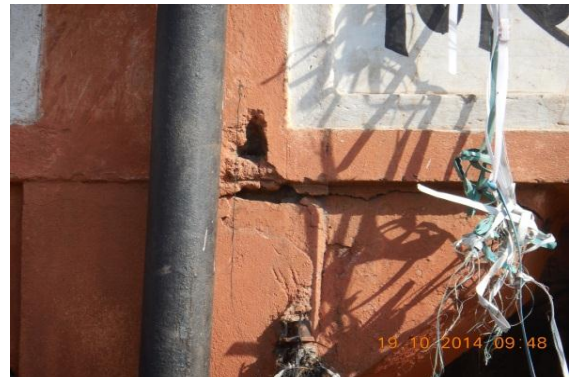


Photo 56

Plaster Removal on Outer L.Ext.Col. of Verandah of S.No.215  
Ground Floor



Photo 57

Damage on Outer R.Ext.Col. of Verandah of S.No.215  
Ground Floor