



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

10262

To: **Abbas Ali Nasim (Resident Engineer-II)**

Dr. Mazhar Saleem

**MM Pakistan (Pvt.) Ltd. Sargodha**

**Project: Restoration of Hassuwali Flood Bund Along Its River Training Structure Damaged During Flood 2014 (Additional Works Lining of Distributary)**

Our Ref. No. CL/CED/ 436 Dated: 17-07-20

Your Ref. No. DCRIP/RE-II/Hassuwali/743 Dated: 24-06-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 06-07-20 Tested on: 16-07-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date*<br>/Wet Weight<br>(gms) | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1       | R.A   |                                       | 8.9x4.4x3.1  | 3176                 | 39.16                                | 63                             | 3610                        |         |
| 2       | R.A   |                                       | 8.8x4.4x3.0  | 3098                 | 38.72                                | 49                             | 2840                        |         |
| 3       | R.A   |                                       | 8.9x4.5x3.0  | 3160                 | 40.05                                | 61                             | 3420                        |         |
| 4       | R.A   |                                       | 8.8x4.4x3.1  | 3109                 | 38.72                                | 57                             | 3300                        |         |
| 5       | R.A   |                                       | 8.9x4.4x3.0  | 3214                 | 39.16                                | 75                             | 4290                        |         |
| 6       |       |                                       |              |                      |                                      |                                |                             |         |
| 7       |       |                                       |              |                      |                                      |                                |                             |         |
| 8       |       |                                       |              |                      |                                      |                                |                             |         |
| 9       |       |                                       |              |                      |                                      |                                |                             |         |
| 10      |       |                                       |              |                      |                                      |                                |                             |         |
| 11      |       |                                       |              |                      |                                      |                                |                             |         |
| 12      |       |                                       |              |                      |                                      |                                |                             |         |
| 13      |       |                                       |              |                      |                                      |                                |                             |         |
| 14      |       |                                       |              |                      |                                      |                                |                             |         |
| 15      |       |                                       |              |                      |                                      |                                |                             |         |
| 16      |       |                                       |              |                      |                                      |                                |                             |         |

Results can also be seen on website [http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6)

\* as engraved on the specimens (if any)

\*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption

\*\*\* BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

\*\*\*\* ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

10271

To: **Malik Iftikhar Ahmad (Project Manager)**

Dr. Mazhar Saleem

**E&PHE Div., Nespak (pvt.) Ltd. Lahore / (M/s IKAN-MASTIC (JIV))**

**Project: (Package-II) Storm Water Drainage System From Haji Camp to River Ravi Via Lakshami Chowk, Mcleod Road, Nabha Road, Chuburji and Sham Nagar, Lahore**

Our Ref. No. CL/CED/ 437 Dated: 17-07-20

Your Ref. No. 3882/11/MIA/01/163 Dated: 10-03-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 07-07-20 Tested on: 16-07-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date*<br>/Wet Weight<br>(gms) | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1       | MA    |                                       | 8.9x4.3x2.8  | 3126                 | 38.27                                | 41                             | 2400                        |         |
| 2       | MA    |                                       | 8.8x4.3x2.9  | 3360                 | 37.84                                | 37                             | 2190                        |         |
| 3       | MA    |                                       | 8.9x4.2x2.9  | 3160                 | 37.38                                | 41                             | 2460                        |         |
| 4       | MA    |                                       | 8.7x4.2x2.8  | 3172                 | 36.54                                | 67                             | 4110                        |         |
| 5       | MA    |                                       | 8.8x4.3x2.9  | 3098                 | 37.84                                | 43                             | 2550                        |         |
| 6       | MA    |                                       | 8.8x4.3x3.0  | 3146                 | 37.84                                | 57                             | 3380                        |         |
| 7       |       |                                       |              |                      |                                      |                                |                             |         |
| 8       |       |                                       |              |                      |                                      |                                |                             |         |
| 9       |       |                                       |              |                      |                                      |                                |                             |         |
| 10      |       |                                       |              |                      |                                      |                                |                             |         |
| 11      |       |                                       |              |                      |                                      |                                |                             |         |
| 12      |       |                                       |              |                      |                                      |                                |                             |         |
| 13      |       |                                       |              |                      |                                      |                                |                             |         |
| 14      |       |                                       |              |                      |                                      |                                |                             |         |
| 15      |       |                                       |              |                      |                                      |                                |                             |         |
| 16      |       |                                       |              |                      |                                      |                                |                             |         |

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10300

To: **Arfan Nazir (Manager Civil)**

Dr. Mazhar Saleem

**Nishat Mills Ltd. Lahore**

**Project: Construction of Nishat Bath Division Unit 95 (Stitching Building FF Beam, Loom Shed-02 Floor Panels)**

Our Ref. No. CL/CED/

438

Dated:

17-07-20

Your Ref. No.

NBD/CT/003

Dated:

07-07-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on:

13-07-20

Tested on:

16-07-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date*        |   |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|-------|----------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
|         |       | /Wet Weight<br>(gms) |   |      |              |                      |                                      |                                |                             |              |
| 1       | C-20  | 30                   | 6 | 2020 | 6Diax12      | 13.2                 | 28.28                                | 41                             | 3250                        | Non Engraved |
| 2       | C-20  | 30                   | 6 | 2020 | 6Diax12      | 14                   | 28.28                                | 45                             | 3570                        | Non Engraved |
| 3       | C-20  | 30                   | 6 | 2020 | 6Diax12      | 14                   | 28.28                                | 43                             | 3410                        | Non Engraved |
| 4       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 5       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 6       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 7       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 8       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 9       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 10      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 11      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 12      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 13      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 14      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 15      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 16      |       |                      |   |      |              |                      |                                      |                                |                             |              |

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



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**Department of Civil Engineering**  
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Phone Nos. 042-99029202, 042-99029217

10300

Dr. Mazhar Saleem

To: **Arfan Nazir (Manager Civil)**  
**Nishat Mills Ltd. Lahore**

**Project: Construction of Nishat Bath Division Unit 95 (Loom Shed-02 Air Duct Slab)**

Our Ref. No. CL/CED/ 439 Dated: 17-07-20

Your Ref. No. NBD/CT/004 Dated: 07-07-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 13-07-20 Tested on: 16-07-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date*        |   |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|-------|----------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
|         |       | /Wet Weight<br>(gms) |   |      |              |                      |                                      |                                |                             |              |
| 1       | C-20  | 11                   | 6 | 2020 | 6Diax12      | 13.2                 | 28.28                                | 43                             | 3410                        | Non Engraved |
| 2       | C-20  | 11                   | 6 | 2020 | 6Diax12      | 13                   | 28.28                                | 49                             | 3890                        | Non Engraved |
| 3       | C-20  | 11                   | 6 | 2020 | 6Diax12      | 13.2                 | 28.28                                | 57                             | 4520                        | Non Engraved |
| 4       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 5       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 6       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 7       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 8       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 9       |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 10      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 11      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 12      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 13      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 14      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 15      |       |                      |   |      |              |                      |                                      |                                |                             |              |
| 16      |       |                      |   |      |              |                      |                                      |                                |                             |              |

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Director/Dy. Director Concrete Laboratory



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University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

10304

To: **Assistant Resident Engineer**

Dr. Mazhar Saleem

**ES Consultants (Pvt.) Ltd. Lahore**

**Project: (Pkg-2) (Construction of Additional Class Rooms in Selected Schools of Punjab (GGPS Chunian No.5, GPS Abadi Muhammad Ali, Distt. Kasur, Tehsil Chunian)**

Our Ref. No. CL/CED/

440

Dated:

17-07-20

Your Ref. No.

ESC/PMIU/P2/0077

Dated:

28-05-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on:

14-07-20

Tested on:

16-07-20

in dry/wet condition

| Sr. No. | Mark*                        | Casting Date*       |   |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|------------------------------|---------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
|         |                              | Wet Weight<br>(gms) |   |      |              |                      |                                      |                                |                             |              |
| 1       | EMIS (35110574,<br>35110089) | 20                  | 4 | 2020 | 6x6x6        | 8.6                  | 36                                   | 110                            | 6850                        | Non Engraved |
| 2       | EMIS (35110574,<br>35110089) | 20                  | 4 | 2020 | 6x6x6        | 8.4                  | 36                                   | 118                            | 7350                        | Non Engraved |
| 3       | EMIS (35110574,<br>35110089) | 10                  | 3 | 2020 | 6x6x6        | 8.4                  | 36                                   | 49                             | 3050                        | Non Engraved |
| 4       | EMIS (35110574,<br>35110089) | 10                  | 3 | 2020 | 6x6x6        | 8.4                  | 36                                   | 45                             | 2800                        | Non Engraved |
| 5       |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 6       |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 7       |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 8       |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 9       |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 10      |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 11      |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 12      |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 13      |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 14      |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 15      |                              |                     |   |      |              |                      |                                      |                                |                             |              |
| 16      |                              |                     |   |      |              |                      |                                      |                                |                             |              |

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

10304

To: Assistant Resident Engineer

Dr. Mazhar Saleem

ES Consultants (Pvt.) Ltd. Lahore

Project: (Pkg-2) (Construction of Additional Class Rooms in Selected Schools of Punjab (GGPS Jewan Singh Wala, Distt. Kasur, Tehsil Kasur)

Our Ref. No. CL/CED/

441

Dated:

17-07-20

Your Ref. No.

ESC/PMIU/P2/0089

Dated:

09-07-20

## COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on:

14-07-20

Tested on:

16-07-20

in dry/wet condition

| Sr. No. | Mark*           | Casting Date*       |   |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks  |
|---------|-----------------|---------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|----------|
|         |                 | Wet Weight<br>(gms) |   |      |              |                      |                                      |                                |                             |          |
| 1       | EMIS (35120579) | 12                  | 6 | 2020 | 6x6x6        | 8.4                  | 36                                   | 61                             | 3800                        | Engraved |
| 2       | EMIS (35120579) | 12                  | 6 | 2020 | 6x6x6        | 8.4                  | 36                                   | 59                             | 3680                        | Engraved |
| 3       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 4       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 5       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 6       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 7       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 8       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 9       |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 10      |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 11      |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 12      |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 13      |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 14      |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 15      |                 |                     |   |      |              |                      |                                      |                                |                             |          |
| 16      |                 |                     |   |      |              |                      |                                      |                                |                             |          |

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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10306

To: **Shahzad Saleem (Sub Engineer Civil)**

Dr. Mazhar Saleem

**University of The Punjab, Lahore**

**Project: Construction of Elevation of Gate # 1 at QAC**

Our Ref. No. CL/CED/ 442 Dated: 17-07-20

Your Ref. No. D-531-CE Dated: 11-07-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 14-07-20 Tested on: 16-07-20 in dry/wet condition

| Sr. No. | Mark*           | Casting Date* |     |      | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks      |
|---------|-----------------|---------------|-----|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
|         |                 | Month         | Day | Year |           |                   |                            |                          |                       |              |
| 1       | ( 1 : 1.5 : 3 ) | 11            | 6   | 2020 | 6x6x6     | 9                 | 36                         | 86                       | 5360                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 11            | 6   | 2020 | 6x6x6     | 9                 | 36                         | 90                       | 5600                  | Non Engraved |
| 3       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 4       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 5       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 6       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 7       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 8       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 9       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 10      |                 |               |     |      |           |                   |                            |                          |                       |              |
| 11      |                 |               |     |      |           |                   |                            |                          |                       |              |
| 12      |                 |               |     |      |           |                   |                            |                          |                       |              |
| 13      |                 |               |     |      |           |                   |                            |                          |                       |              |
| 14      |                 |               |     |      |           |                   |                            |                          |                       |              |
| 15      |                 |               |     |      |           |                   |                            |                          |                       |              |
| 16      |                 |               |     |      |           |                   |                            |                          |                       |              |

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**Director/Dy. Director Concrete Laboratory**



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Phone Nos. 042-99029202, 042-99029217

10308  
Dr. Umbreen

**To: Muhammad Essa (Chief Financial Officer)**  
**Markhor Developers (Pvt.) Ltd., Lahore**  
**Project: Construction of 75-Shadman-I, Lahore (Tetra Engineering Pvt. Ltd.)**

Our Ref. No. CL/CED/ 443 Dated: 17-07-20

Your Ref. No. Nil Dated: 14-07-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 15-07-20 Tested on: 15-07-20 in dry/wet condition

| Sr. No. | Mark*                | Casting Date*        |   |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|----------------------|----------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
|         |                      | /Wet Weight<br>(gms) |   |      |              |                      |                                      |                                |                             |              |
| 1       | Column<br>(6000 Psi) | 6                    | 7 | 2020 | 6Diax12      | 14                   | 28.28                                | 57                             | 4520                        | Non Engraved |
| 2       | Column<br>(6000 Psi) | 6                    | 7 | 2020 | 6Diax12      | 14                   | 28.28                                | 57                             | 4520                        | Non Engraved |
| 3       | Column<br>(6000 Psi) | 6                    | 7 | 2020 | 6Diax12      | 13.2                 | 28.28                                | 55                             | 4360                        | Non Engraved |
| 4       |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 5       |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 6       |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 7       |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 8       |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 9       |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 10      |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 11      |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 12      |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 13      |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 14      |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 15      |                      |                      |   |      |              |                      |                                      |                                |                             |              |
| 16      |                      |                      |   |      |              |                      |                                      |                                |                             |              |

Results can also be seen on website [http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6)

\* as engraved on the specimens (if any)

\*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption

\*\*\* BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

\*\*\*\* ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

supervisor(lab)

**Director/Dy. Director Concrete Laboratory**