



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

357

To: **Z.H. Kazmi (Principal Architect)**
Z. H. Kazmi & Associates, Lahore

Dr. M. Yousaf

Project: Construction of New Godowns & Infrastructure at Allied Bank Limited Warehouse 18-Hazari, Jhang

Our Ref. No. CL/CED/ 1512 Dated: 01-01-21

Your Ref. No. Nil Dated: 31-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 31-12-20 Tested on: 01-01-21 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 |
|---------|-------|---------------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|----------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | | 23 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 66 | 5230 | Engraved |
| 2 | | 23 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 63 | 4990 | Engraved |
| 3 | | 23 | 12 | 2020 | 6Diax12 | 14.2 | 28.28 | 67 | 5310 | Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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



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Phone Nos. 042-99029202, 042-99029217

289

Dr. Umbreen

To: **Muhammad Aqeel Bhatti (Project Manager)**

Kingcrete Builders

Project: Construction of Cargo Building at Allama Iqbal International Airport Lahore

Our Ref. No. CL/CED/ 1513 Dated: 01-01-21

Your Ref. No. KB/GD_CB/AHA-LHR/042 Dated: 16-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 18-12-20 Tested on: 31-12-20 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 3000 Psi | 5 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 65 | 5150 | Non Engraved |
| 2 | 3000 Psi | 5 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 63 | 4990 | Non Engraved |
| 3 | 3000 Psi | 8 | 11 | 2020 | 6Diax12 | 13.6 | 28.28 | 73 | 5790 | Non Engraved |
| 4 | 3000 Psi | 8 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 75 | 5950 | Non Engraved |
| 5 | 3000 Psi | 10 | 11 | 2020 | 6Diax12 | 14.2 | 28.28 | 61 | 4840 | Non Engraved |
| 6 | 3000 Psi | 10 | 11 | 2020 | 6Diax12 | 13.2 | 28.28 | 61 | 4840 | Non Engraved |
| 7 | 4000 Psi | 5 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 65 | 5150 | Non Engraved |
| 8 | 4000 Psi | 5 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 73 | 5790 | Non Engraved |
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**** 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

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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

267

Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No.9, Lahore

Project: Provincial Police Line of Punjab Highway Patrol at Jia Bagga, Lahore (Barracks First Floor)

Our Ref. No. CL/CED/

1514

Dated:

01-01-21

Your Ref. No.

177/9th

Dated:

19-10-20

COMPRESSION TEST REPORT

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

Specimens received on:

15-12-20

Tested on:

01-01-21

in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | AR | | 8.6x4.3x2.9 | 3218 | 36.98 | 53 | 3210 | |
| 2 | AR | | 8.7x4.3x2.8 | 3231 | 37.41 | 55 | 3300 | |
| 3 | AR | | 8.6x4.3x2.9 | 3223 | 36.98 | 35 | 2120 | |
| 4 | AR | | 8.9x4.3x2.9 | 3439 | 38.27 | 55 | 3220 | |
| 5 | AR | | 8.8x4.3x3.0 | 3341 | 37.84 | 42 | 2490 | |
| 6 | AR | | 8.7x4.3x2.8 | 3263 | 37.41 | 25 | 1500 | |
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Dr. M. Yousaf

To: Ahmad Hamden (Resident Engineer)
E&PHE Div., Nespak (Pvt.) Ltd. Lahore
Project: Replacement of Outlived Sewer in Multan Phase-II

Our Ref. No. CL/CED/ 1515 Dated: 01-01-21

Your Ref. No. 4068/01/AH/01/54 Dated: 09-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 18-12-20 Tested on: 01-01-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | M | | 8.7x4.1x2.7 | 2973 | 35.67 | 75 | 4710 | |
| 2 | M | | 8.6x4.1x2.8 | 2937 | 35.26 | 50 | 3180 | |
| 3 | M | | 8.6x4.2x3.0 | 2921 | 36.12 | 70 | 4350 | |
| 4 | M | | 8.7x4.1x3.0 | 3025 | 35.67 | 71 | 4460 | |
| 5 | M | | 8.7x4.1x2.9 | 2989 | 35.67 | 47 | 2960 | |
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Dr. Mazhar Saleem

To: Altaf Hussain (M.E)
M/s AS Enterprises
Project: Style Textile Mill Manga

Our Ref. No. CL/CED/ 1516 Dated: 01-01-21

Your Ref. No. USD/ASE/16 Dated: 22-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-12-20 Tested on: 23-12-20 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 |
|---------|-------|-------------------|----|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | C-20 | 24 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 63 | 3920 | Non Engraved |
| 2 | C-20 | 24 | 11 | 2020 | 6x6x6 | 8.4 | 36 | 100 | 6230 | Non Engraved |
| 3 | C-20 | 24 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 81 | 5040 | Non Engraved |
| 4 | C-30 | 23 | 11 | 2020 | 6x6x6 | 9 | 36 | 104 | 6480 | Non Engraved |
| 5 | C-30 | 23 | 11 | 2020 | 6x6x6 | 9 | 36 | 104 | 6480 | Non Engraved |
| 6 | C-30 | 23 | 11 | 2020 | 6x6x6 | 9 | 36 | 116 | 7220 | Non Engraved |
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Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

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Dr. Umbreen

To: Engr. Irfan Ali (Manager: Projects)

Ittefaq Construction Services, Lahore

Project: Construction of Commercial Plaza (42B, 43B, 44B Sector C and 19A) Main Boulevard Bahria Town, Lahore

Our Ref. No. CL/CED/

1517

Dated:

01-01-21

Your Ref. No.

ICS/H.O/B.T.P/06

Dated:

18-12-20

COMPRESSION TEST REPORT

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

Specimens received on:

22-12-20

Tested on:

31-12-20

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 |
|---------|---------------------------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 19A Basement UGT Bed | 3 | 12 | 2020 | 6Diax12 | 13.4 | 28.28 | 35 | 2780 | Non Engraved |
| 2 | 19A Basement UGT Bed | 3 | 12 | 2020 | 6Diax12 | 13.2 | 28.28 | 35 | 2780 | Non Engraved |
| 3 | 19A Basement Bed Phase I | 11 | 12 | 2020 | 6Diax12 | 13.2 | 28.28 | 33 | 2620 | Engraved |
| 4 | 19A Basement Bed Phase I | 11 | 12 | 2020 | 6Diax12 | 13.2 | 28.28 | 31 | 2460 | Engraved |
| 5 | 19A Basement Bed Phase I | 11 | 12 | 2020 | 6Diax12 | 13.4 | 28.28 | 43 | 3410 | Engraved |
| 6 | 42B Basement Bed Phase II | 5 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 63 | 4990 | Non Engraved |
| 7 | 42B Basement Bed Phase II | 5 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 57 | 4520 | Non Engraved |
| 8 | 42B Basement Bed Phase II | 5 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 712 | 56400 | Non Engraved |
| 9 | 42B Basement RT Wall | 11 | 12 | 2020 | 6Diax12 | 13 | 28.28 | 53 | 4200 | Non Engraved |
| 10 | 42B Basement RT Wall | 11 | 12 | 2020 | 6Diax12 | 13 | 28.28 | 53 | 4200 | Non Engraved |
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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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

318

Dr. M. Yousaf

To: Imran Afzal (General Manager)
Park Avenue Housing Scheme Society, Lahore
Project: Nil

Our Ref. No. CL/CED/ 1518 Dated: 01-01-21

Your Ref. No. Nil Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 23-12-20 Tested on: 01-01-21 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 |
|---------|-------------------|----------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Raft (3000 Psi) | 11 | 11 | 2020 | 6Diax12 | 13.6 | 28.28 | 52 | 4120 | Non Engraved |
| 2 | Raft (3000 Psi) | 11 | 11 | 2020 | 6Diax12 | 13.6 | 28.28 | 79 | 6260 | Non Engraved |
| 3 | Column (4000 Psi) | 2 | 11 | 2020 | 6Diax12 | 13.8 | 28.28 | 62 | 4920 | Engraved |
| 4 | Column (4000 Psi) | 2 | 11 | 2020 | 6Diax12 | 14.2 | 28.28 | 61 | 4840 | Engraved |
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Department of Civil Engineering
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Phone Nos. 042-99029202, 042-99029217

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Dr. M. Yousaf

To: **Engr. Ammar Haider Shah (Project Engineer)**
Minhaj University, Lahore
Project: Minhaj University Lahore

Our Ref. No. CL/CED/ 1519 Dated: 01-01-21

Your Ref. No. MUL/HB/002 Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 23-12-20 Tested on: 01-01-21 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 | RCC Retaining Wall | 8 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 55 | 4360 | Engraved |
| 2 | RCC Retaining Wall | 8 | 12 | 2020 | 6Diax12 | 13 | 28.28 | 49 | 3890 | Engraved |
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Director/Dy. Director Concrete Laboratory



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

326

Dr. M. Yousaf

To: Mohammad Aslam (Manager C, R &M)
Allied Bank Limited, Multan
Project: Construction of High Street, Sahiwal (0352), (1st Floor Slab)

Our Ref. No. CL/CED/ 1520 Dated: 01-01-21

Your Ref. No. GHQ/S2/CRM/MA/2020/718 Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 | 1st Floor Slab | 18 | 12 | 2020 | 6Diax12 | 13 | 28.28 | 48 | 3810 | Engraved |
| 2 | 1st Floor Slab | 18 | 12 | 2020 | 6Diax12 | 13.2 | 28.28 | 39 | 3090 | Engraved |
| 3 | 1st Floor Slab | 18 | 12 | 2020 | 6Diax12 | 13.2 | 28.28 | 56 | 4440 | Engraved |
| 4 | | | | | | | | | | |
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Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

329

Dr. M. Burhan

To: Project Manager
Ahmed Construction Company, Lahore
Project: Columns

Our Ref. No. CL/CED/ 1521 Dated: 01-01-21
Your Ref. No. ACCO/TCL/010 Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 31-12-20 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|----------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 4000 Psi | 16 | 12 | 2020 | 6Diax12 | 13.8 | 28.28 | 55 | 4360 | Engraved |
| 2 | 4000 Psi | 16 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 49 | 3890 | Engraved |
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Results can also be seen on website 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



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

330

Dr. Umbreen

To: Muhammad Affan (Project Manager)
ICON Residencia, Lahore
Project: Slab A-C, Column E-1, E-2, G-2 (Basement Slab)

Our Ref. No. CL/CED/ 1522 Dated: 01-01-21

Your Ref. No. Nil Dated: 22-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 31-12-20 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 4000 Psi | 13 | 11 | 2020 | 6Diax12 | 14.6 | 28.28 | 79 | 6260 | Non Engraved |
| 2 | 4000 Psi | 13 | 11 | 2020 | 6Diax12 | 14.6 | 28.28 | 75 | 5950 | Non Engraved |
| 3 | 4000 Psi | 13 | 11 | 2020 | 6Diax12 | 14.6 | 28.28 | 75 | 5950 | Non Engraved |
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Results can also be seen on website 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



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

332

Dr. Umbreen

To: Maqsood Ahmad (Project Coordinator)
Banu Mukhtar Contracting (Pvt.) Ltd. Lahore
Project: Novatex (Pvt.) Ltd. M3 Industrial Estate Fsd (Ware House Footing)

Our Ref. No. CL/CED/ 1523 Dated: 01-01-21

Your Ref. No. BML/300841/003 Dated: 21-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 31-12-20 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 3000 Psi | 23 | 11 | 2020 | 6Diax12 | 14.2 | 28.28 | 53 | 4200 | Non Engraved |
| 2 | 3000 Psi | 23 | 11 | 2020 | 6Diax12 | 14.2 | 28.28 | 33 | 2620 | Non Engraved |
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Results can also be seen on website 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



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

335

Dr. M. Yousaf

To: Flight Lieutenant Adal Imtiaz (Assistant Director)
Fazaia Housing Phase-II, Lahore
Project: Central Mosque at Fazaia Housing Scheme (Phase-II) Lahore

Our Ref. No. CL/CED/ 1524 Dated: 01-01-21

Your Ref. No. FHSL-II/5811/1/Org(CA-12) Dated: 22-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 | B-3 Main Hall (Class-B) | 16 | 11 | 2020 | 6Diax12 | 13.4 | 28.28 | 64 | 5070 | Engraved |
| 2 | B-3 Main Hall (Class-B) | 16 | 11 | 2020 | 6Diax12 | 13.4 | 28.28 | 60 | 4760 | Engraved |
| 3 | R.C.C Wall Below R.L (Class-A) | 24 | 11 | 2020 | 6Diax12 | 13.6 | 28.28 | 50 | 3960 | Engraved |
| 4 | R.C.C Wall Below R.L (Class-A) | 24 | 11 | 2020 | 6Diax12 | 13.4 | 28.28 | 50 | 3960 | Engraved |
| 5 | R.C.C Wall Above R.L (Class-A) | 15 | 12 | 2020 | 6Diax12 | 13.4 | 28.28 | 60 | 4760 | Engraved |
| 6 | R.C.C Wall Above R.L (Class-A) | 15 | 12 | 2020 | 6Diax12 | 13.4 | 28.28 | 43 | 3410 | Engraved |
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Results can also be seen on website 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



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

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Dr. Umbreen

To: Shahid Jameel (Construction Manager)
Mughals Pakistan (Pvt.) Ltd. Lahore
Project: Construction of EOBI Hotel & Mixed Use Development, Lahore

Our Ref. No. CL/CED/ 1525 Dated: 01-01-21

Your Ref. No. 786/MPL-0064/211202/2020 Dated: 21-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 23-12-20 Tested on: 31-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|------------------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Rectangular Grey | | 7.8x3.8x1.9 | 2161 | 29.64 | 102 | 7710 | |
| 2 | Rectangular Grey | | 7.8x3.8x1.9 | 2270 | 29.64 | 124 | 9380 | |
| 3 | Rectangular Grey | | 7.8x3.8x1.9 | 2259 | 29.64 | 120 | 9070 | |
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Results can also be seen on website 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

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Dr. Umbreen

To: **Abdul Rehman**
Okawa Concrete
Project: Nil

Our Ref. No. CL/CED/ 1526 Dated: 01-01-21

Your Ref. No. Nil Dated: 24-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 31-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|------------------|---------------------------------------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Rectangular Grey | | 7.8x3.8x3.0 | 3624 | 29.64 | 67 | 5070 | |
| 2 | Rectangular Grey | | 7.8x3.8x3.0 | 3661 | 29.64 | 67 | 5070 | |
| 3 | Rectangular Grey | | 7.8x3.8x2.4 | 2820 | 29.64 | 69 | 5220 | |
| 4 | Rectangular Grey | | 7.8x3.8x2.4 | 2898 | 29.64 | 69 | 5220 | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

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Dr. Umbreen

To: Ibad ur Rehman Mudassir (Dy. Chief Engineer Civil)**Sui Northern Gas Pipelines Ltd. Lahore****Project: Road Paver Block / Tuff Tiles on The Berm Along With Surface Treatment to Roads at Coating Plant of SNGPL at Uch Sharif District Bahawalpur**

Our Ref. No. CL/CED/ 1527 Dated: 01-01-21

Your Ref. No. CC/Civil/C.P/01 Dated: 24-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 31-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|------------------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Rectangular Grey | | 7.8x3.8x3.1 | 3568 | 29.64 | 65 | 4920 | |
| 2 | Rectangular Grey | | 7.8x3.8x3.1 | 3866 | 29.64 | 126 | 9530 | |
| 3 | Rectangular Grey | | 7.8x3.8x3.1 | 3841 | 29.64 | 128 | 9680 | |
| 4 | Rectangular Grey | | 7.8x3.8x3.1 | 3823 | 29.64 | 130 | 9830 | |
| 5 | Rectangular Grey | | 7.8x3.8x3.1 | 3628 | 29.64 | 102 | 7710 | |
| 6 | Rectangular Grey | | 7.8x3.8x3.1 | 3523 | 29.64 | 94 | 7110 | |
| 7 | Rectangular Grey | | 7.8x3.8x3.1 | 3663 | 29.64 | 140 | 10580 | |
| 8 | Rectangular Grey | | 7.8x3.8x3.1 | 3697 | 29.64 | 100 | 7560 | |
| 9 | Rectangular Grey | | 7.8x3.8x3.1 | 3668 | 29.64 | 130 | 9830 | |
| 10 | Rectangular Grey | | 7.8x3.8x3.1 | 3640 | 29.64 | 108 | 8170 | |
| 11 | Rectangular Grey | | 7.8x3.8x3.1 | 3601 | 29.64 | 104 | 7860 | |
| 12 | Rectangular Grey | | 7.8x3.8x3.1 | 3745 | 29.64 | 110 | 8320 | |
| 13 | Rectangular Red | | 7.8x3.8x3.1 | 3745 | 29.64 | 110 | 8320 | |
| 14 | Rectangular Red | | 7.8x3.8x3.1 | 3763 | 29.64 | 100 | 7560 | |
| 15 | Rectangular Red | | 7.8x3.8x3.1 | 3739 | 29.64 | 116 | 8770 | |
| 16 | Rectangular Red | | 7.8x3.8x3.1 | 3732 | 29.64 | 112 | 8470 | |

Results can also be seen on website 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

To: Rana Qaiser Nazeer
Super Solid, Lahore
Project: Nil

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Dr. Umbreen

Our Ref. No. CL/CED/ 1528 Dated: 01-01-21

Your Ref. No. Nil Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 29-12-20 Tested on: 31-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|------------------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Rectangular Grey | | 7.8x3.9x2.4 | 2730 | 30.42 | 49 | 3610 | |
| 2 | Rectangular Grey | | 7.8x3.9x2.4 | 2716 | 30.42 | 39 | 2880 | |
| 3 | Rectangular Grey | | 7.8x3.9x2.4 | 2699 | 30.42 | 51 | 3760 | |
| 4 | Rectangular Grey | | 7.8x3.9x2.4 | 2652 | 30.42 | 39 | 2880 | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

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Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)
Group No.1, (Roof Slab of Basement-02)

Our Ref. No. CL/CED/ 1529 Dated: 01-01-21

Your Ref. No. 618/SDO12th Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 |
|---------|-------------------|---------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | 1 | 11 | 2020 | | | | | | |
| 1 | Portion-3 (1:2:4) | 1 | 11 | 2020 | 6x6x6 | 9 | 36 | 71 | 4420 | Non Engraved |
| 2 | Portion-3 (1:2:4) | 1 | 11 | 2020 | 6x6x6 | 9 | 36 | 74 | 4610 | Non Engraved |
| 3 | Portion-3 (1:2:4) | 1 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 58 | 3610 | Non Engraved |
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Results can also be seen on website 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

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Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)

Group No.1, (Lift Well of Ground Floor)

Our Ref. No. CL/CED/

1530

Dated:

01-01-21

Your Ref. No.

632/SDO12th

Dated:

12-12-20

COMPRESSION TEST REPORT

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

Specimens received on:

24-12-20

Tested on:

01-01-21

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 |
|---------|---------------------|----------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Portion-2 (1:1.5:3) | 9 | 11 | 2020 | 6x6x6 | 9 | 36 | 109 | 6790 | Non Engraved |
| 2 | Portion-2 (1:1.5:3) | 9 | 11 | 2020 | 6x6x6 | 9 | 36 | 100 | 6230 | Non Engraved |
| 3 | Portion-2 (1:1.5:3) | 9 | 11 | 2020 | 6x6x6 | 9 | 36 | 104 | 6480 | Non Engraved |
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Results can also be seen on website 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

327

Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)
Group No.1, (Retaining Wall of Basement-01)

Our Ref. No. CL/CED/ 1531 Dated: 01-01-21

Your Ref. No. 630/SDO12th Dated: 08-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 |
|---------|---------------------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Portion-3 (1:1.5:3) | 6 | 11 | 2020 | 6x6x6 | 9 | 36 | 101 | 6290 | Non Engraved |
| 2 | Portion-3 (1:1.5:3) | 6 | 11 | 2020 | 6x6x6 | 9 | 36 | 106 | 6600 | Non Engraved |
| 3 | Portion-3 (1:1.5:3) | 6 | 11 | 2020 | 6x6x6 | 8.6 | 36 | 114 | 7100 | Non Engraved |
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Results can also be seen on website 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

327

Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)

Group No.1, (Lift Well of Groud Floor)

Our Ref. No. CL/CED/

1532

Dated:

01-01-21

Your Ref. No.

602/SDO12th

Dated:

18-11-20

COMPRESSION TEST REPORT

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

Specimens received on:

24-12-20

Tested on:

01-01-21

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 |
|---------|---------------------|----------------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Portion-1 (1:1.5:3) | 19 | 10 | 2020 | 6x6x6 | 9 | 36 | 84 | 5230 | Non Engraved |
| 2 | Portion-1 (1:1.5:3) | 19 | 10 | 2020 | 6x6x6 | 9 | 36 | 110 | 6850 | Non Engraved |
| 3 | Portion-1 (1:1.5:3) | 19 | 10 | 2020 | 6x6x6 | 9 | 36 | 102 | 6350 | Non Engraved |
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Results can also be seen on website 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

327

Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)

Group No.1, (Columns in Basement-01)

Our Ref. No. CL/CED/

1533

Dated:

01-01-21

Your Ref. No.

641/SDO12th

Dated:

18-12-20

COMPRESSION TEST REPORT

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

Specimens received on:

24-12-20

Tested on:

01-01-21

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 |
|---------|-------------------|----------------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Portion-3 (1:1:2) | 18 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 90 | 5600 | Non Engraved |
| 2 | Portion-3 (1:1:2) | 18 | 11 | 2020 | 6x6x6 | 9 | 36 | 120 | 7470 | Non Engraved |
| 3 | Portion-3 (1:1:2) | 18 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 87 | 5420 | Non Engraved |
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Results can also be seen on website 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

327

Dr. M. Yousaf

To: Sub Divisional Officer

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)

Group No.1, (Columns in Ground Floor)

Our Ref. No. CL/CED/

1534

Dated:

01-01-21

Your Ref. No.

613/SDO12th

Dated:

23-11-20

COMPRESSION TEST REPORT

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

Specimens received on:

24-12-20

Tested on:

01-01-21

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 |
|---------|-------------------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Portion-1 (1:1:2) | 25 | 10 | 2020 | 6x6x6 | 9 | 36 | 136 | 8470 | Non Engraved |
| 2 | Portion-1 (1:1:2) | 25 | 10 | 2020 | 6x6x6 | 9 | 36 | 64 | 3990 | Non Engraved |
| 3 | Portion-1 (1:1:2) | 25 | 10 | 2020 | 6x6x6 | 9 | 36 | 150 | 9340 | Non Engraved |
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Results can also be seen on website 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

327

Dr. M. Yousaf

To: **Sub Divisional Officer**

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20) No.1, (Columns in Ground Floor)

Our Ref. No. CL/CED/ 1535 Dated: 01-01-21

Your Ref. No. 637/SDO12th Dated: 18-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 |
|---------|-------------------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Portion-2 (1:1:2) | 14 | 11 | 2020 | 6x6x6 | 9 | 36 | 84 | 5230 | Non Engraved |
| 2 | Portion-2 (1:1:2) | 14 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 104 | 6480 | Non Engraved |
| 3 | Portion-2 (1:1:2) | 14 | 11 | 2020 | 6x6x6 | 9 | 36 | 98 | 6100 | Non Engraved |
| 4 | | | | | | | | | | |
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Results can also be seen on website 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

327

To: **Sub Divisional Officer**

Dr. M. Yousaf

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)
Group No.1, (Roof Slab of Ground Floor)

Our Ref. No. CL/CED/ 1536 Dated: 01-01-21

Your Ref. No. 627/SDO12th Dated: 07-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 | Portion-1 (1:2:4) | 6 | 11 | 2020 | 6x6x6 | 9 | 36 | 140 | 8720 | Non Engraved |
| 2 | Portion-1 (1:2:4) | 6 | 11 | 2020 | 6x6x6 | 9.2 | 36 | 133 | 8280 | Non Engraved |
| 3 | Portion-1 (1:2:4) | 6 | 11 | 2020 | 6x6x6 | 9 | 36 | 71 | 4420 | Non Engraved |
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Results can also be seen on website 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

327

To: **Sub Divisional Officer**

Dr. M. Yousaf

Buildings Sub Division No. 12, Lahore

Project: Establishment of Mother & Child Block in SIR Ganga Ram Hospital, Lahore (A.D.P No.581/2019-20)
Group No.1, (Roof Slab of Ground Floor)

Our Ref. No. CL/CED/ 1537 Dated: 01-01-21

Your Ref. No. 644/SDO12th Dated: 18-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 01-01-21 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 |
|---------|-------------------|----------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Portion-2 (1:2:4) | 19 | 11 | 2020 | 6x6x6 | 9 | 36 | 120 | 7470 | Non Engraved |
| 2 | Portion-2 (1:2:4) | 19 | 11 | 2020 | 6x6x6 | 9 | 36 | 134 | 8340 | Non Engraved |
| 3 | Portion-2 (1:2:4) | 19 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 110 | 6850 | Non Engraved |
| 4 | | | | | | | | | | |
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Results can also be seen on website 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

337

To: **Muhammad Aslam (Deputy Director P&D)**
National Textile University

Dr. Umbreen

Project: Construction Work of Girls Hostel (G+3) for 63 Students at University (Column up to D.P.C)

Our Ref. No. CL/CED/ 1538 Dated: 01-01-21

Your Ref. No. NTU/C.W/G.H/20-31 Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 24-12-20 Tested on: 31-12-20 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 |
|---------|-----------------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | (1 : 1.5 : 3) | 26 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 61 | 4840 | Non Engraved |
| 2 | (1 : 1.5 : 3) | 26 | 11 | 2020 | 6Diax12 | 14 | 28.28 | 53 | 4200 | Non Engraved |
| 3 | | | | | | | | | | |
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Results can also be seen on website 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



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

339

Dr. M. Yousaf

To: **Mohammad Aslam (Manager C, R &M)**
Allied Bank Limited, Multan

Project: Construction of Shah Rukn-E-Alam Branch, Multan (0249), (1st Floor Slab)

Our Ref. No. CL/CED/ 1539 Dated: 01-01-21

Your Ref. No. GHQ/S2/CRM/MA/2020/717 Dated: 23-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 28-12-20 Tested on: 01-01-21 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 | 1st Floor Slab | 21 | 12 | 2020 | 6Diax12 | 13.6 | 28.28 | 67 | 5310 | Engraved |
| 2 | 1st Floor Slab | 21 | 12 | 2020 | 6Diax12 | 13.6 | 28.28 | 69 | 5470 | Engraved |
| 3 | 1st Floor Slab | 21 | 12 | 2020 | 6Diax12 | 13.8 | 28.28 | 17 | 1350 | Non Engraved |
| 4 | | | | | | | | | | |
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| 16 | | | | | | | | | | |

Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departments/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

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Dr. M. Yousaf

To: Shabbir Anjum (PM)
Shahan Brothers, Lahore
Project: Site Madina Corporate Tower Lahore

Our Ref. No. CL/CED/ 1540 Dated: 01-01-21

Your Ref. No. Nil Dated: 26-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 28-12-20 Tested on: 01-01-21 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|----------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 4000 Psi | 8 | 10 | 2020 | 6Diax12 | 13.2 | 28.28 | 61 | 4840 | Engraved |
| 2 | 4000 Psi | 8 | 10 | 2020 | 6Diax12 | 13.6 | 28.28 | 51 | 4040 | Engraved |
| 3 | 3000 Psi | 18 | 10 | 2020 | 6Diax12 | 13.4 | 28.28 | 70 | 5550 | Engraved |
| 4 | 3000 Psi | 18 | 10 | 2020 | 6Diax12 | 13.6 | 28.28 | 92 | 7290 | Engraved |
| 5 | 3000 Psi | 29 | 10 | 2020 | 6Diax12 | 13.2 | 28.28 | 70 | 5550 | Engraved |
| 6 | 3000 Psi | 29 | 10 | 2020 | 6Diax12 | 13.2 | 28.28 | 38 | 3010 | Engraved |
| 7 | 3000 Psi | 27 | 11 | 2020 | 6Diax12 | 13.4 | 28.28 | 92 | 7290 | Engraved |
| 8 | 3000 Psi | 27 | 11 | 2020 | 6Diax12 | 13.6 | 28.28 | 92 | 7290 | Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departments/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



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Dr. M. Yousaf

To: Tahir Mehmood
Hasnain Builders, Lahore
Project: 5th Floor Column at Old City School Gawal Mandi Lahore

Our Ref. No. CL/CED/ 1541 Dated: 01-01-21

Your Ref. No. Nil Dated: 28-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 28-12-20 Tested on: 01-01-21 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 3750 Psi | 19 | 11 | 2020 | 6Diax12 | 13.3 | 28.28 | 53 | 4200 | Non Engraved |
| 2 | 3750 Psi | 19 | 11 | 2020 | 6Diax12 | 13.2 | 28.28 | 55 | 4360 | Non Engraved |
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| 11 | | | | | | | | | | |
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| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |

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Dr. Umbreen

To: Salman Tariq (Manager Civil Engg. / Projects)
Master Tiles and Ceramics Industries Ltd., Gujranwala.
Project: Silo Columns

Our Ref. No. CL/CED/ 1542 Dated: 01-01-21

Your Ref. No. Nil Dated: 28-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 29-12-20 Tested on: 31-12-20 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 |
|---------|----------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|----------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | 3750 Psi | 22 | 12 | 2020 | 6Diax12 | 13.8 | 28.28 | 25 | 1980 | Engraved |
| 2 | 3750 Psi | 22 | 12 | 2020 | 6Diax12 | 13.4 | 28.28 | 25 | 1980 | Engraved |
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Director/Dy. Director Concrete Laboratory



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Dr. M. Burhan

To: Major Munazzam Sajjad (Head of Administration)
Imran Construction, Multan Cantt.
Project: Naubahar Bottling Company (Pvt.) Ltd. Gujranwala

Our Ref. No. CL/CED/ 1543 Dated: 01-01-21

Your Ref. No. Nil Dated: 29-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 29-12-20 Tested on: 31-12-20 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 |
|---------|---------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Footing | 28 | 11 | 2020 | 6x6x6 | 9 | 36 | 90 | 5600 | Engraved |
| 2 | Footing | 28 | 11 | 2020 | 6x6x6 | 8.8 | 36 | 77 | 4800 | Engraved |
| 3 | Wall W7 | 20 | 12 | 2020 | 6x6x6 | 9 | 36 | 98 | 6100 | Non Engraved |
| 4 | Wall W7 | 20 | 12 | 2020 | 6x6x6 | 9 | 36 | 94 | 5850 | Non Engraved |
| 5 | Wall W7 | 20 | 12 | 2020 | 6x6x6 | 9 | 36 | 100 | 6230 | Non Engraved |
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| 12 | | | | | | | | | | |
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| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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Phone Nos. 042-99029202, 042-99029217

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Dr. M. Burhan

To: **M. Sohail Anjum (Project Manager)**
P-156 Gulberg II, Lahore
Project: Construction of P-156 Gulberg II, Lahore

Our Ref. No. CL/CED/ 1544 Dated: 01-01-21

Your Ref. No. P-156-187 Dated: 29-12-20

COMPRESSION TEST REPORT

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

Specimens received on: 30-12-20 Tested on: 31-12-20 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 |
|---------|----------------|-------------------|----|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | 708 (3000 Psi) | 3 | 12 | 2020 | 6Diax12 | 14 | 28.28 | 59 | 4680 | Non Engraved |
| 2 | 711 (3000 Psi) | 3 | 12 | 2020 | 6Diax12 | 14.4 | 28.28 | 55 | 4360 | Non Engraved |
| 3 | 720 (3000 Psi) | 3 | 12 | 2020 | 6Diax12 | 14.6 | 28.28 | 51 | 4040 | Non Engraved |
| 4 | | | | | | | | | | |
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Director/Dy. Director Concrete Laboratory