



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 RE, VO-2 (M-2)
 ACC – Prime Jv
 Construction of Additional Lanes on M-2 from Ravi Toll Plaza Faizpur Interchange Lahore

Reference # CED/TFL **35279** (Dr. Waseem Abbas)
 Reference of the request letter # RE/VO2-M2/LAB/384A

Dated: 26-08-2020
 Dated: 26-08-2020

Tension Test Report (Page – 1/4)

Date of Test 01-09-2020
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	J I Sheet	27.70x0.65	18.01	400	560	217.94	305.12	0.60	30.00	
2		27.70x0.65	18.01	440	560	239.73	305.12	0.60	30.00	
3	C Channel	27.80x7.00	194.60	7000	11200	352.88	564.60	0.80	40.00	
4		27.80x7.00	194.60	7100	11100	357.92	559.56	0.70	35.00	
5	Angle	20.20x6.30	127.26	4700	7000	362.31	539.60	0.55	27.50	
6		20.20x6.30	127.26	4800	7100	370.01	547.31	0.60	30.00	
7	I Beam	27.40x12.80	350.72	11700	20300	327.26	567.81	0.80	40.00	
8		27.40x12.80	350.72	11800	21000	330.06	587.39	0.80	40.00	
9	Ceiling	27.40x0.50	13.70	-----	480	-----	343.71	0.30	15.00	
10		27.40x0.50	13.70	-----	520	-----	372.35	0.30	15.00	
11	Cladding	27.20x3.80	103.36	-----	320	-----	30.37	0.40	20.00	
12		28.20x3.80	107.16	-----	360	-----	32.96	0.30	15.00	
Only Twelve Samples for Tensile and Three Samples for Bend Test										
Bend Test										
Strip Taken from C Channel Bend Test Through 180° is Satisfactory										
Strip Taken from Angle Bend Test Through 180° is Satisfactory										
Strip Taken from I Beam Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
RE, VO-2 (M-2)
ACC – Prime Jv
Construction of Additional Lanes on M-2 from Ravi Toll Plaza Faizpur Interchange Lahore

Reference # CED/TFL **35279** (Dr. Waseem Abbas)
Reference of the request letter # RE/VO2-M2/LAB/384A

Dated: 26-08-2020
Dated: 26-08-2020

Size Test Report (Page – 2/4)
Date of Test 01-09-2020
Description J I Sheet & Ceiling Size Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	J I Sheet	0.65	
2	Ceiling	0.50	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Two Samples for Test			

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
RE, VO-2 (M-2)
ACC – Prime Jv
Construction of Additional Lanes on M-2 from Ravi Toll Plaza Faizpur Interchange Lahore

Reference # CED/TFL **35279** (Dr. Waseem Abbas)
Reference of the request letter # RE/VO2-M2/LAB/384A

Dated: 26-08-2020
Dated: 26-08-2020

Weight & Size Test Report (Page – 3/4)

Date of Test 24-08-2020
Description C Channel & I Beam Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	Remark
1	C Channel	11450	62.60	18.29	153.00	76.20	9.00	7.00	
2	I Beam	56400	63.30	89.10	400.00	155.00	21.00	14.00	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only Two Samples for Test									

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
RE, VO-2 (M-2)
ACC – Prime Jv
Construction of Additional Lanes on M-2 from Ravi Toll Plaza Faizpur Interchange Lahore

Reference # CED/TFL **35279** (Dr. Waseem Abbas)
Reference of the request letter # RE/VO2-M2/LAB/384A

Dated: 26-08-2020
Dated: 26-08-2020

Weight & Size Test Report (Page – 4/4)

Date of Test 24-08-2020
Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
1	Angle	3000	62.30	4.82	50.00	50.80	6.70	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Care Taker Muhafiz Town
 National Police Foundation
 Construction of Masque at Muhafiz Town Phase II Lahore

Reference # CED/TFL **35295** (Dr. Waseem Abbass)
 Reference of the request letter # MIT/20

Dated: 31-08-2020
 Dated: 25-08-2020

Tension Test Report (Page -1/1)

Date of Test 01-09-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3	0.373	0.11	0.110	3600	4500	72200	72420	90200	90600	1.20	15.0	
2	0.373	3	0.373	0.11	0.110	3500	4500	70200	70420	90200	90600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 Al-Imam Enterprises (Pvt) Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **35296** (Dr. Waseem Abbass)

Dated: 31-08-2020

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1140

Dated: 24-08-2020

Tension Test Report (Page -1/1)

Date of Test 01-09-2020

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.409	10	9.94	0.12	0.120	3900	5400	71650	71540	99207	99100	1.30	16.3	Al-Moiz Steel
2	0.410	10	9.95	0.12	0.120	3900	5200	71650	71390	95533	95200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Const Mosque Sector-C, DHA Ph-IX (M/s Zain Saad))

Reference # CED/TFL **35297** (Dr. Waseem Abbass)
 Reference of the request letter # 408/241/E/Lab/969/115

Dated: 31-08-2020
 Dated: 31-08-2020

Tension Test Report (Page -1/1)

Date of Test 01-09-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3	0.377	0.11	0.111	3300	4900	66200	65310	98200	97000	1.30	16.3	S.J. Steel
2	0.382	3	0.378	0.11	0.112	3400	5000	68200	66710	100200	98200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Gunj Bukhash Builders
Lahore

Reference # CED/TFL **35301** (Dr. Waseem Abbas)
Reference of the request letter # GBB-UET-01

Dated: 01-09-2020
Dated: 01-09-2020

Tension Test Report (Page -1/3)

Date of Test 01-09-2020
Gauge length 2 inches
Description MS Wire Tensile Test

Sr. No.	Weight	Diameter/size		Area (mm ²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	0.155	5	5.01	-----	19.7	-----	1100	-----	547	0.20	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Gunj Bukhash Builders
Lahore

Reference # CED/TFL **35301** (Dr. Waseem Abbas)
Reference of the request letter # GBB-UET-01-A

Dated: 01-09-2020

Dated: 01-09-2020

Tension Test Report (Page -2/3)

Date of Test 01-09-2020
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	436.0	9800	96.14	11100	108.89	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Gunj Bukhash Builders
Lahore

Reference # CED/TFL **35301** (Dr. Waseem Abbas)
Reference of the request letter # GBB-UET-01-B

Dated: 01-09-2020

Dated: 01-09-2020

Tension Test Report (Page -3/3)

Date of Test 01-09-2020
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	11.11 (7/16")	582.0	587.0	12800	125.57	14400	141.26	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples