



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 Macrise (Pvt) Ltd
Lahore

Reference # CED/TFL **33647** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 30-07-2019

Dated: 30-07-2019

Tension Test Report (Page – 1/2)

Date of Test 05-07-2019
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	6	29.00x5.90	171.10	5200	7300	298.14	418.54	0.90	45.00	
2	6	29.00x5.90	171.10	4800	7300	275.21	418.54	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples 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 Macrise (Pvt) Ltd
Lahore

Reference # CED/TFL **33647** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 30-07-2019

Dated: 30-07-2019

Tension Test Report (Page – 2/2)

Date of Test 05-07-2019
Gauge length 2 inches
Description Welded Plate Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(MPa)	(inch)		
1	7	23.40x7.10	166.14	7300	431.04	0.60	30.00	Failure at the location other than weld
2	7	23.40x7.10	166.14	7300	431.04	0.50	25.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
Only two samples for tensile test								
Bend 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,
 Resident Engineer
 RENARDET S.A ((M-4), Package-IIIB)
 Construction of Faisalabad – Khanewal Project (M-4) Package-III, Dinpur - Khnewal, Section
 3B (D & L International)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **33661** (Dr. M Rizwan Riaz)
 Reference of the request letter # RE/M-4/3B/2019/473

Dated: 31-07-2019
 Dated: 30-07-2019

Tension Test Report (Page – 1/2)

Date of Test 05-07-2019
 Gauge length 2 inches
 Description W-Section 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	W-Section	3.215x0.295	0.95	4200	5000	4428.39	5271.90	0.40	20.00	S-1
2		3.215x0.295	0.95	4200	5000	4428.39	5271.90	0.40	20.00	
3	W-Section	3.215x0.295	0.95	4200	5000	4428.39	5271.90	0.50	25.00	S-2
4		3.215x0.295	0.95	4200	5100	4428.39	5377.34	0.50	25.00	
5	W-Section	3.215x0.295	0.95	4300	5000	4533.83	5271.90	0.50	25.00	S-3
6		3.215x0.295	0.95	4100	5100	4322.96	5377.34	0.50	25.00	

Only Six Samples for Tensile and Six Samples for Bend Test

Bend Test										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section 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
 RENARDET S.A ((M-4), Package-IIIB)
 Construction of Faisalabad – Khanewal Project (M-4) Package-III, Dinpur - Khnewal, Section
 3B (D & L International)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **33661** (Dr. M Rizwan Riaz)
 Reference of the request letter # RE/M-4/3B/2019/473

Dated: 31-07-2019
 Dated: 30-07-2019

Tension Test Report (Page – 1/2)

Date of Test 05-07-2019
 Gauge length 2 inches
 Description W-Section 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	W-Section	3.215x0.295	0.95	4200	5000	4428.39	5271.90	0.50	25.00	S-4
2		3.215x0.295	0.95	4100	5100	4322.96	5377.34	0.50	25.00	
3	W-Section	3.215x0.295	0.95	4200	5100	4428.39	5377.34	0.50	25.00	S-5
4		3.210x0.295	0.95	4200	5000	4435.29	5280.11	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Only Four Samples for Tensile and Four Samples for Bend Test

Bend Test

Strip Taken from W-Section Bend Test Through 180° is Satisfactory
 Strip Taken from W-Section Bend Test Through 180° is Satisfactory
 Strip Taken from W-Section Bend Test Through 180° is Satisfactory
 Strip Taken from W-Section 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 CPEC-Package-3
 NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route Hakla (On M1) – Yarak (D.I Khan) Motorway, Package-3 (Tarap to Kot Belian)

Reference # CED/TFL 33668 (Dr. Ali Ahmed)

Dated: 01-08-2019

Reference of the request letter # CPEC/NESPAK/CS/PKG3/19/1089

Dated: 30-07-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019

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	0.368	3	0.371	0.11	0.108	3300	5200	66200	67230	104200	106000	1.00	12.5	Ittefaq Steel
2	0.373	3	0.374	0.11	0.110	3200	5200	64200	64320	104200	104600	1.00	12.5	
3	4.111	10	1.240	1.27	1.209	41600	56600	72200	75870	98300	103300	1.30	16.3	Mughal Steel
4	4.085	10	1.237	1.27	1.201	41600	56600	72200	76360	98300	103900	1.40	17.5	
5	4.216	10	1.256	1.27	1.239	40800	55200	70900	72570	95800	98200	1.30	16.3	Nimi Steel
6	4.212	10	1.256	1.27	1.238	40400	54600	70200	71930	94800	97200	1.50	18.8	
7	5.473	11	1.431	1.56	1.609	50000	67600	70700	68510	95600	92700	1.50	18.8	
8	5.460	11	1.429	1.56	1.605	51400	69000	72700	70590	97500	94800	1.50	18.8	

Note: only eight samples for tensile and four samples for bend test

Bend Test

#3 Bar Bend Test Through 180° is Satisfactory

#10 Bar Bend Test Through 180° is Satisfactory

#10 Bar Bend Test Through 180° is Satisfactory

#11 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 Ittefaq Building Solution Pvt Ltd
Lahore
(Superior House)(Raees Faheem & Associates)

Reference # CED/TFL **33675** (Dr. Ali Ahmed)
Reference of the request letter # Superior House/01

Dated: 02-08-2019
Dated: 02-08-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
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	0.377	3	0.376	0.11	0.111	3100	5000	62200	61670	100200	99500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Acting Project Director
 Air University Multan Campus
 Construction of Academic Block-I
 (Ittefaq Steel)

Reference # CED/TFL **33676** (Dr. Ali Ahmed)
 Reference of the request letter # MUX/AUMC/AB1/2018/103

Dated: 02-08-2019
 Dated: 01-08-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
 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	0.377	3	0.376	0.11	0.111	2800	4200	56200	55630	84200	83500	1.40	17.5	
2	0.370	3	0.372	0.11	0.109	2700	4100	54100	54720	82200	83100	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,
 Maintenance Engineer - II
 University of The Punjab
 Construction of Tractor Garage/Store and Rooms with Wash Room in Experimental Station at
 IAGS at Q.A.C

Reference # CED/TFL **33677** (Dr. Ali Ahmed)
 Reference of the request letter # D-1011-MEII

Dated: 02-08-2019
 Dated: 30-07-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.378	3	0.376	0.11	0.111	3000	4900	60200	59520	98200	97300	1.60	20.0	
2	0.373	3	0.373	0.11	0.110	2900	4400	58200	58360	88200	88600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,
 Managing Director
 M/s Malik Habib & Brothers
 Construction of 64 Men Barracks for C-3/4 at Chashma

Reference # CED/TFL **33679** (Dr. Ali Ahmed)
 Reference of the request letter # MHB/QA-QC/64 Men Barraks/05

Dated: 02-08-2019
 Dated: 31-07-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
 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	0.366	3	0.370	0.11	0.108	2900	5000	58200	59440	100200	102500	1.10	13.8	
2	0.367	3	0.371	0.11	0.108	2900	5000	58200	59280	100200	102200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Assistant Director, (North)
 Sub Div: Eid Gah
 WASA (MDA) Multan
 Construction of New / Replacement of Old Sewerage Lines in UC 7 & UC 8 Multan

Reference # CED/TFL **33680** (Dr. Ali Ahmed)
 Reference of the request letter # 90/AD(N)/WASA

Dated: 02-08-2019
 Dated: 10-06-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.106	3/16	0.199	-----	0.031	1000	1200	-----	70650	-----	84800	0.80	10.0	
2	0.110	3/16	0.203	-----	0.032	900	1200	-----	61300	-----	81800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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 CM Engineering (Pvt) Ltd
Lahore
(Long Haul Project Site ID:- 4093, 4180, 4185, 4442, 4521, 4898, 5093, 5634, 7124, 7182, 8637, 4132)

Reference # CED/TFL **33681** (Dr. Ali Ahmed) Dated: 02-08-2019
Reference of the request letter # CME/Steel/Long Haul/328 Dated: 25-07-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
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	0.357	10	9.28	0.12	0.105	3800	4700	69812	79890	86347	98900	0.90	11.3	
2	0.356	10	9.27	0.12	0.105	3900	4700	71650	82140	86347	99000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Macrise (Pvt) Ltd
Lahore
Project:- EPS Solutions Pakistan (Pvt) Ltd

Reference # CED/TFL **33683** (Dr. Ali Ahmed)
Reference of the request letter # MAC/M31C/EPS290/Lab009

Dated: 02-08-2019
Dated: 02-08-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
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	0.405	3	0.389	0.11	0.119	4000	5300	80200	74020	106200	98100	1.20	15.0	
2	0.403	3	0.388	0.11	0.118	3800	5100	76200	70740	102200	95000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
 Orbit Housing
 The Spring Apartment Homes

Reference # CED/TFL **33684** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 05-08-2019
 Dated: 05-08-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
 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	0.369	3	0.371	0.11	0.108	3700	4900	74200	75280	98200	99700	1.00	12.5	
2	0.367	3	0.371	0.11	0.108	4000	5000	80200	81630	100200	102100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI)(M/s Construct)

Reference # CED/TFL **33685** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/669/3335

Dated: 05-08-2019
Dated: 02-08-2019

Tension Test Report (Page -1/1)

Date of Test 05-08-2019
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	0.359	3	0.366	0.11	0.105	3800	5100	76200	79450	102200	106700	1.00	12.5	Kamran Steel
2	0.370	3	0.372	0.11	0.109	3700	4900	74200	75040	98200	99400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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