



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

To,  
Jr. Planning Engineer  
Techno Time Construction (Pvt) Ltd  
Widening/Improvement of Road Mochh Pull to Boys High Shool Mochh Length 2.13 km in  
District Mianwali (Construction of Bridge and its Approches)

Reference # CED/TFL **36235** (Dr. Qasim Khan)  
Reference of the request letter # TTC/LHR/UET/2021/1510

Dated: 17-03-2021  
Dated: 17-03-2021

**Tension Test Report** (Page – 1/2)

Date of Test 22-03-2021  
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	783.0	17800	174.62	19500	191.30	198	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only one sample for Test</b>										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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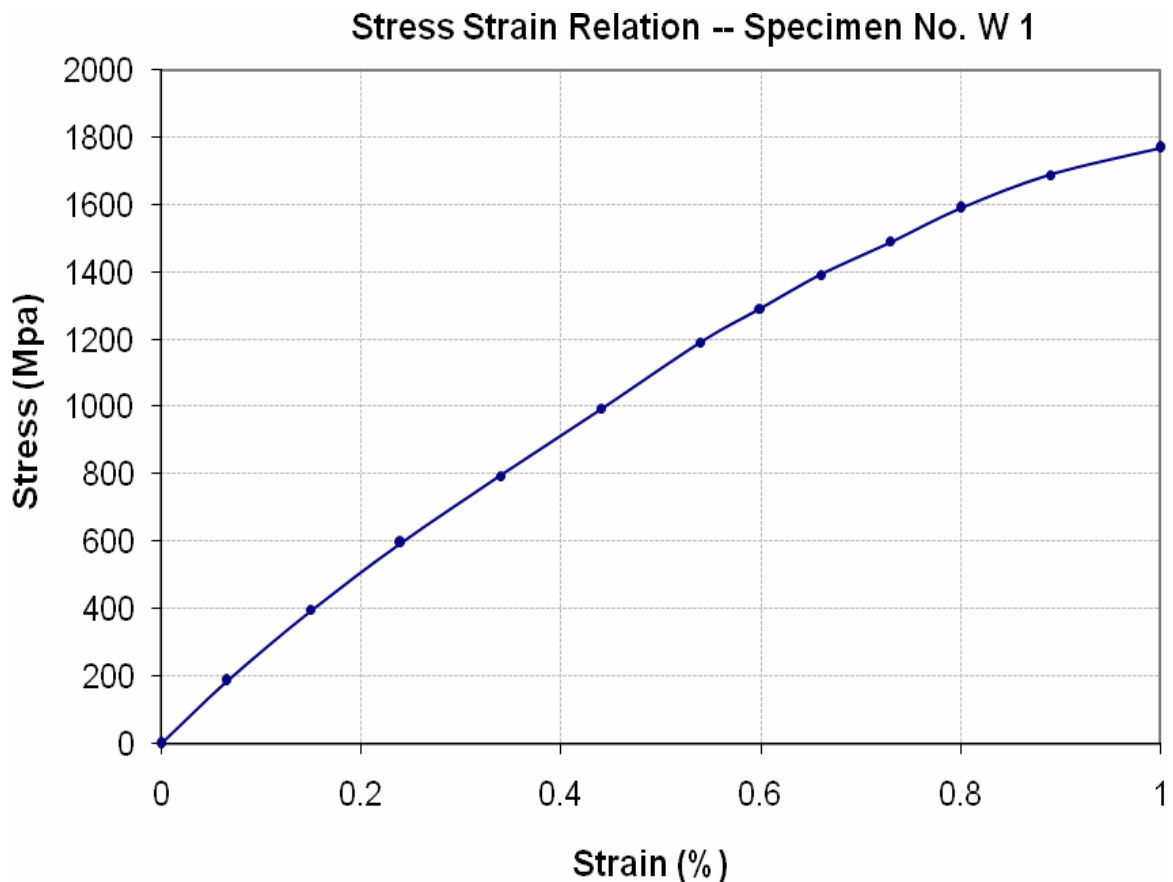
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Reference # CED/TFL **36235** (Dr. Qasim Khan)  
Reference of the request letter # TTC/LHR/UET/2021/1510

Dated: 17-03-2021  
Dated: 17-03-2021

**Graph** (Page – 2/2)



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To,  
QA/QC Manager  
Reon Energy Solutions  
Besway Cement Limited (Farooqia)

Reference # CED/TFL **36237** (Dr. Qasim Khan)  
Reference of the request letter # QHSE/21/15

Dated: 17-03-2021  
Dated: 15-03-2021

**Tension Test Report** (Page – 1/2)

Date of Test 22-03-2021  
Gauge length 2 inches  
Description MS Sheet Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(cm)	(cm <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	2	21.50x2.00	43.00	14.55	17.70	338.37	411.63	0.80	40.00	
2		21.50x2.00	43.00	14.80	17.80	344.19	413.95	0.75	37.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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

To,  
 QA/QC Manager  
 Reon Energy Solutions  
 Besway Cement Limited (Farooqia)

Reference # CED/TFL **36237** (Dr. Qasim Khan)  
 Reference of the request letter # QHSE/21/13

Dated: 17-03-2021  
 Dated: 11-03-2021

**Tension Test Report** (Page – 2/2)

Date of Test 22-03-2021  
 Gauge length 2 inches  
 Description MS Sheet Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(cm)	(cm <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	3	25.20x3.00	75.60	24.50	35.45	324.07	468.92	0.70	35.00	
2		25.20x3.00	75.60	24.70	35.70	326.72	472.22	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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To,  
 Manager  
 Sinohydro Corporation Limited, Pakistan  
 Procurement of Plant, Design, Supply, Installation, Testing and Commission of Three (03) 220  
 kV Transmission Lines Associated with Lahore North Substation

Reference # CED/TFL **36238** (Dr. Qasim Khan)  
 Reference of the request letter # ADB-301B/2018/205

Dated: 17-03-2021  
 Dated: 15-03-2021

**Tension Test Report** (Page -1/1)

Date of Test 22-03-2021  
 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 <sup>2</sup> )		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	4.382	10	1.281	1.27	1.288	29600	46800	51400	50660	81300	80100	1.70	21.3	Batala Premium
2	4.418	10	1.286	1.27	1.299	33000	48200	57300	56010	83700	81800	1.90	23.8	
3	4.312	10	1.270	1.27	1.268	30800	46000	53500	53560	79900	80000	2.00	25.0	
4	4.343	10	1.275	1.27	1.276	28400	47000	49300	49040	81600	81200	2.00	25.0	
5	4.309	10	1.270	1.27	1.267	29600	44000	51400	51510	76400	76600	2.00	25.0	
6	4.345	10	1.275	1.27	1.277	29200	47400	50700	50390	82300	81800	2.00	25.0	
<b>Note: only six samples for tensile and three sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Amjad Tufail (SE. NESPAK)

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/03/36242

Dated: 18-03-2021

Dated of Test: 22-03-2021

To  
**Manager Monitoring & Coordination**  
**Shajar Roads Limited**  
**Dualization of Sheikhpura- Gujranwala Road**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. MMC/SHJR/SGRPS/44, dated 10.03.2021 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	36 (910mm)	7.95	7.61	3.67	2.96	4.24	39880	46680	3901	4566

Witness by Asghar Ali (R.E aaa) & Abdul Rashid (M.E SHAJAR)

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Shahid Engineers  
Faisalabad  
(Apex Mall, Satiana Road, Faisalabad)(Rana Riasat Ali)

Reference # CED/TFL **35248** (Dr. Qasim Khan)  
Reference of the request letter # FX-137/21

Dated: 19-03-2021  
Dated: 17-03-2021

**Tension Test Report** (Page -1/1)

Date of Test 22-03-2021  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.368	3/8	0.371	0.11	0.108	3500	4400	70200	71230	88200	89600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
Managing Director  
Kadioglu Global Constructions

Reference # CED/TFL **36249** (Dr. Qasim Khan)  
Reference of the request letter # KGC/21/019

Dated: 19-03-2021

Dated: 19-03-2021

**Tension Test Report** (Page – 1/1)

Date of Test 22-03-2021  
Gauge length 2 inches  
Description PPGI / PPG 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 <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	PPGI/PPGL Sheet	25.75x0.50	12.88	4.90	5.35	381	416	0.50	25.00	
2		25.75x0.50	12.88	5.20	5.45	404	423	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const of PD House Sec-I Rahber & Infra Dev Works of Prism-9 Pkg-01Sector-R) – (M/s DHA Const.)  
Reference # CED/TFL **36251** (Dr. Qasim Khan) Dated: 19-03-2021  
Reference of the request letter # 408/241/E/Estb/Lab/53/12 & 1130 Dated: 19-03-2021

**Tension Test Report** (Page -1/1)

Date of Test 22-03-2021  
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 <sup>2</sup> )		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	0.401	3	0.387	0.11	0.118	4000	5400	80200	74760	108200	101000	0.75	9.4	AF Steel
2	0.384	3	0.379	0.11	0.113	3700	4900	74200	72310	98200	95800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Project Engineer  
 MA Engineering Services  
 Engro Enfrashare B2S Towers

Reference # CED/TFL **35252** (Dr. Qasim Khan)  
 Reference of the request letter # MA/UET/LHR/006

Dated: 19-03-2021  
 Dated: 19-03-2021

**Tension Test Report** (Page -1/2)

Date of Test 22-03-2021  
 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 <sup>2</sup> )		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	0.371	10	9.46	0.12	0.109	3300	4700	60627	66750	86347	95100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
 Project Engineer  
 MA Engineering Services  
 Engro Enfrashare B2S Towers

Reference # CED/TFL **35252** (Dr. Qasim Khan)  
 Reference of the request letter # MA/UET/LHR/007

Dated: 19-03-2021  
 Dated: 19-03-2021

**Tension Test Report** (Page -2/2)

Date of Test 22-03-2021  
 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 <sup>2</sup> )		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	0.378	10	9.55	0.12	0.111	3300	4700	60627	65480	86347	93300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
 Resident Project Manager  
 Barqaab Consulting Services (Pvt) Limited  
 MEPCO-GSC-44: Procurement of Equipment, Design, Supply, Installation, Testing &  
 Commissioning on Turnkey Basis Under MEPCO Own Resources at – Lot-1: 132 kV D/C  
 T/Line from Kot Addu G/S – Kot Sultan G/S – Layyah G/S (Rail, 60km)

Reference # CED/TFL **35253** (Dr. Qasim Khan) Dated: 19-03-2021  
 Reference of the request letter # BQB/RPM/MT 2556-59/T-16 Dated: 18-03-2021

**Tension Test Report** (Page -1/1)

Date of Test 22-03-2021  
 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 <sup>2</sup> )		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	0.378	10	9.55	0.12	0.111	3400	5300	62464	67520	97370	105300	1.10	13.8	Batala
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**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](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,  
 Senior Engineer  
 Mansoor Mazhar & Associates  
 Commercial Building, Plot # 135 sector-Q, Lahore  
 (Khawaja Tipu Latif)(Developers Consortium)

Reference # CED/TFL **36256** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 22-03-2021  
 Dated: 22-03-2021

**Tension Test Report** (Page -1/1)

Date of Test 22-03-2021  
 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 <sup>2</sup> )		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	0.375	0.11	0.111	3500	5000	70200	69690	100200	99600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
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](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,  
 Construction Manager  
 Zameen Aurum  
 Construction of Zameen Aurum at Plot No. 15 Block, Gulberg-III, Main Feroze Pur Road,  
 Lahore

Reference # CED/TFL **36259** (Dr. Qasim Khan)  
 Reference of the request letter # ZD/ZA/STR007

Dated: 22-03-2021  
 Dated: 22-03-2021

**Tension Test Report** (Page -1/1)

Date of Test 22-03-2021  
 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 <sup>2</sup> )		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	4.243	10	1.260	1.27	1.247	38000	57000	66000	67160	99000	100800	1.40	17.5	
2	4.244	10	1.260	1.27	1.247	38000	56800	66000	67150	98600	100400	1.35	16.9	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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- 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**

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

**Note:**

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2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples