



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

To,  
Executive Engineer  
D.G Khan Construction Division  
Dera Ghazi Khan  
Punjab Irrigation Department Works Under Annual Development Program (ADP) Construction  
of Stone Studs at Drug Lahar to Project Adjoining Abadies and Agricultural Land of Fazla  
Kauch and Kachhi Kore

Reference # CED/TFL **36568** (Dr. Asad Ali)  
Reference of the request letter # 250/AB

Dated: 14-06-2021  
Dated: 19-05-2021

**Tension Test Report** (Page – 1/2)

Date of Test 18-06-2021  
Gauge length 2 inches  
Description Wire Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(mm)						
1	3.80	11.34	6.7	591	0.50	25.00	
2	3.80	11.34	6.64	585	0.60	30.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>							

**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.
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Executive Engineer  
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Punjab Irrigation Department Works Under Annual Development Program (ADP) Construction  
of Stone Studs at Drug Lahar to Project Adjoining Abadies and Agricultural Land of Fazla  
Kauch and Kachhi Kore

Reference # CED/TFL **36568** (Dr. Asad Ali)  
Reference of the request letter # 250/AB

Dated: 14-06-2021  
Dated: 19-05-2021

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

Date of Test           18-06-2015  
Description           Wire Weight & Size Test

Sr. No.	Weight	Diameter/ size		Area (mm <sup>2</sup> )		Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	
1	0.097	----	3.98	-----	12.4	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
<b>Note: only one sample for test</b>						

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

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To,  
 Project Director  
 Sheranwala Flyover  
 LDA, Lahore

Reference # CED/TFL **36570** (Dr. M Rizwan Riaz)  
 Reference of the request letter # PD/SF/LDA/17

Dated: 14-06-2021  
 Dated: 12-06-2021

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

Date of Test 18-06-2021  
 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	0.374	3	0.374	0.11	0.110	3200	5000	64200	64130	100200	100200	1.70	21.3	
2	0.374	3	0.374	0.11	0.110	3200	4400	64200	64170	88200	88300	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

Note:

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Resident Engineer  
 ACE, Danish School  
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **36573** (Dr. Rizwan Riaz) Dated: 15-06-2021  
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/416 Dated: 14-06-2021

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

Date of Test 18-06-2021  
 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	0.378	3/8	0.376	0.11	0.111	3600	4900	72200	71330	98200	97100	1.00	12.5	
2	0.377	3/8	0.376	0.11	0.111	3600	4800	72200	71560	96200	95500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Engr. M Usman Shahid  
 Project Engineer  
 Construction of Nimir Power Plant, Bhikhi

Reference # CED/TFL **36575** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 15-06-2021  
 Dated: 15-06-2021

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

Date of Test 18-06-2021  
 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	0.409	10	9.94	0.12	0.120	3600	5400	66138	65930	99207	98900	1.40	17.5	
2	0.414	10	9.99	0.12	0.122	3600	5400	66138	65250	99207	97900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Assistant Executive Engineer  
 College of Veterinary & Animal Sciences, Narowal Campus  
 (Construction of Girls Hostel and Residences Grade 20 and Above at CVAS Narowal  
 Construction of Residences for Grade 01-10, Grade 11-14, Grade 15-17 and Grade 18 & 19 at  
 CVAS Narowal)  
 Reference # CED/TFL **36578** (Dr. Rizwan Riaz) Dated: 16-06-2021  
 Reference of the request letter # A.E.E/NC 082 Dated: 24-04-2021

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

Date of Test 18-06-2021  
 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	0.363	3/8	0.368	0.11	0.107	3400	4600	68200	70290	92200	95100	1.00	12.5	SJ Steel
2	0.364	3/8	0.369	0.11	0.107	3400	4500	68200	70010	90200	92700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples 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,  
 Manager Construction  
 Orient Electronics (Pvt) Ltd  
 Construction of Orient Square Hotel Tower Johar Town

Reference # CED/TFL **36580** (Dr. M Rizwan Riaz) Dated: 16-06-2021  
 Reference of the request letter # OSH-SO/UET/KamranSteelTest/160621-21 Dated: 16-06-2021

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

Date of Test 18-06-2021  
 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	4.227	32	31.95	1.25	1.243	44400	58000	78307	78760	102293	102900	1.30	16.3	
2	4.340	32	32.37	1.25	1.276	40800	55000	71958	70500	97002	95100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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**Pakistan. Ph: 92-42-99029202**

To,  
M/S Bliss Construction (Pvt) Ltd  
Lahore

Reference # CED/TFL **36585** (Dr. M Rizwan Riaz)  
Reference of the request letter # BCPL/K-013/2021

Dated: 17-06-2021

Dated: 17-06-2021

**Tension Test Report** (Page – 1/1)

Date of Test 18-06-2021  
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)		% Elongation	Remarks
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	433	8700	85.35	9800	96.14	<3.50 No ok	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only one sample for Test

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

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Sub Divisional Officer  
 Building Sub Division  
 Noorpur Thal  
 (Up-Gradation of Govt. Girls Comunity Model Elementry School Dhamak to High Level)

Reference # CED/TFL **36587** (Dr. Rizwan Riaz)  
 Reference of the request letter # 93/N

Dated: 16-06-2021  
 Dated: 30-04-2021

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

Date of Test 18-06-2021  
 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	0.414	3/8	0.394	0.11	0.122	4200	6900	84200	76070	138300	125000	0.65	8.1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 G3 Engineering Consultants (Pvt) Ltd  
 Consultancy Services for Master Planning Designing and Resident Type Supervision of The  
 Scheme Strengthening of The University of Narowal

Reference # CED/TFL **36588** (Dr. M Rizwan Riaz)  
 Reference of the request letter # G3/237/RE-22

Dated: 17-06-2021  
 Dated: 14-06-2021

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

Date of Test 18-06-2021  
 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	0.380	3	0.377	0.11	0.112	3200	5000	64200	63220	100200	98800	1.20	15.0	
2	0.389	3	0.382	0.11	0.114	3400	5000	68200	65500	100200	96400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 NESPAK jv TurkPak  
 Resident Construction Supervision for Establishment of Dera Ghazi Khan Institute of Cardiology

Reference # CED/TFL **36591** (Dr. M Rizwan Riaz)

Dated: 17-06-2021

Reference of the request letter # 4161/RE/SFMKB/DGK/346

Dated: 28-05-2021

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

Date of Test 18-06-2021

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	0.372	3	0.373	0.11	0.109	3600	5000	72200	72480	100200	100700	1.20	15.0	Kamran Steel
2	0.374	3	0.374	0.11	0.110	3500	4800	70200	70140	96200	96200	1.40	17.5	
3	4.129	10	1.243	1.27	1.214	35000	55600	60800	63560	96500	101000	1.50	18.8	Htehad Steel
4	4.220	10	1.257	1.27	1.240	34800	55800	60400	61840	96900	99200	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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