



**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  
 NESPAK

Dualization of Road from Gujranwala to M-2 Interchange at Kot Sawar via Hafizabad km  
 6.20 to km 80.35 Length 74.15 km in District Gujranwala & Hafizabad (Section km  
 40.20 – 55.40, L=15.20 km)

Reference # CED/TFL **3137** (Dr. M Rizwan Riaz)

Dated: 28-04-2023

Reference of the request letter # SA-466F/103/GH/ML/Lab/71

Dated: 10-04-2023

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

Date of Test 15-05-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.378	3	0.376	0.11	0.111	3300	4700	66200	65520	94200	93400	1.30	16.3	
2	0.376	3	0.375	0.11	0.111	3100	4600	62200	61750	92200	91700	1.00	12.5	
3	4.301	10	1.269	1.27	1.264	39000	57000	67700	67990	99000	99400	1.40	17.5	
4	4.308	10	1.270	1.27	1.266	40400	58600	70200	70330	101700	102000	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														

Witness by M. Bilal (ME NESPAK) & Naseem Tufail (M.E)

**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



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To,  
M/S Energy Solutions (Pvt) Limited  
Lahore

Reference # CED/TFL **3163** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 05-05-2023  
Dated: 05-05-2023

**Tension Test Report** (Page – 1/1)

Date of Test 15-05-2023  
Gauge length 2 inches  
Description (G.I.) Galvanized Iron 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)									
1	(G.I.) Galvanized Iron	1.20	25.20x1.25	31.50	1000	1200	311	374	0.60	30.00	
2			25.00x1.25	31.25	900	1080	283	339	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Sample for Tensile Test</b>											
<b>Bend Test</b>											

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

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To,  
 Project Manager  
 Gujjar Construction Company  
 Construction of Safari Villas Bahria Town Lahore

Reference # CED/TFL **3170** (Dr. Rizwan Azam) Dated: 09-05-2023  
 Reference of the request letter # GCC-BO-UEI-2023-05-LTR-123 Dated: 09-05-2023

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

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.366	3	0.370	0.11	0.108	3280	4860	65800	67200	97400	99600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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**Test Floor Laboratory**  
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**University of Engineering and Technology Lahore, 54890**  
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Ref: CED/TFL/05/3171

Dated: 09-05-2023

Dated of Test: 15-05-2023

To,

M/S Amjad Engineering Services  
Lahore  
(Project: Doghi Bridge (S-12))

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/3171) (Page -1/2)

Reference to your Letter No. A-12120, Dated: 09/05/2023 on the subject cited above. One Pressure Gauge No. AES-1501 as received by us has been calibrated. The results are tabulated as under:

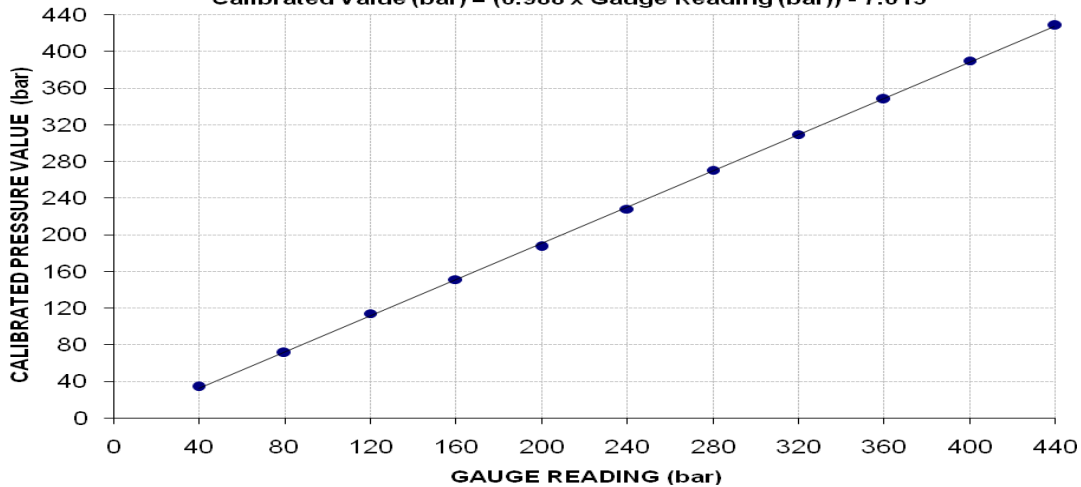
Total Range : Zero - 1000 (bar)  
Calibrated Range : Zero - 440 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360	400	440
Calibrated Load (kg)	6900	14400	23000	30500	37800	46100	54600	62500	70300	78800	86500
Calibrated Pressure (bar)	34	71	114	151	187	228	270	310	348	390	428

The Ram Area used for Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge No. AES - 1501**

Calibrated Value (bar) = (0.988 × Gauge Reading (bar)) - 7.015



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

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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Ref: CED/TFL/05/3171

Dated: 09-05-2023

Dated of Test: 15-05-2023

To,

M/S Amjad Engineering Services  
Lahore  
(Project: Doghi Bridge (S-12))

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/3171) (Page -2/2)

Reference to your Letter No. A-12120, Dated: 09/05/2023 on the subject cited above. One Pressure Gauge No. AES-1502 as received by us has been calibrated. The results are tabulated as under:

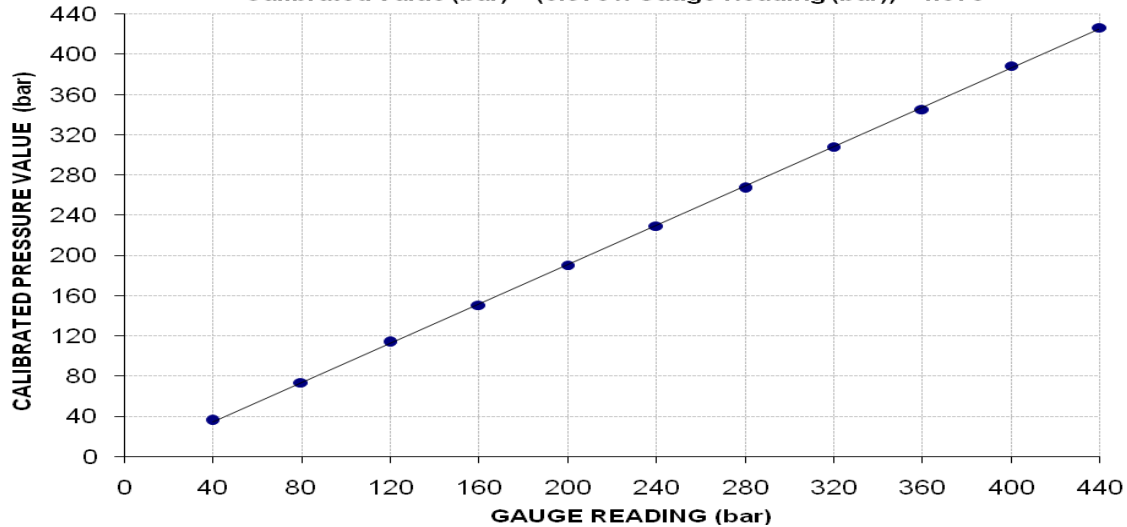
**Total Range : Zero - 1000 (bar)**  
**Calibrated Range : Zero - 440 (bar)**

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360	400	440
Calibrated Load (kg)	7300	14900	23000	30400	38400	46300	53900	62200	69700	78400	86100
Calibrated Pressure (bar)	36	74	114	151	190	229	267	308	345	388	426

The Ram Area used for Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge No. AES-1502**

**Calibrated Value (bar) = (0.976 × Gauge Reading (bar)) - 4.376**



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

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To,

Project Manager  
 Zaheer Associates  
 AR Developers & Town Planers  
 Mosque in M-Block Project of Al-Rehman Garden Ph-II, Lahore

Reference # CED/TFL **3173** (Dr. Rizwan Azam)  
 Reference of the request letter # Z.A/A.R/32-23

Dated: 09-05-2023  
 Dated: 08-05-2023

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

Date of Test 15-05-2023  
 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	3490	5270	70000	69940	105600	105700	1.00	12.5	Mehboob Steel
2	0.368	3	0.371	0.11	0.108	3430	5220	68800	69870	104600	106400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,

Project Manager  
 High-Q Constructions  
 (Construction of High-Q Mall at 3-A, Gulberg II, Lahore)

Reference # CED/TFL **3174** (Dr. Rizwan Azam)  
 Reference of the request letter # QC/HQ/CIVIL/96

Dated: 09-05-2023  
 Dated: 05-05-2023

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

Date of Test 15-05-2023  
 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	0.417	10	10.03	0.12	0.123	3820	5150	70180	68700	94614	92700	1.20	15.0	
2	0.414	10	10.00	0.12	0.122	3720	4990	68343	67300	91675	90300	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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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Site Engineer (Civil)  
S. Mehboob & Company

Reference # CED/TFL **3176** (Dr. Rizwan Azam)

Dated: 09-05-2023

Reference of the request letter # 2243-SMC/CarreFour/Lhr/DHA7/02

Dated: 08-05-2023

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

Date of Test 15-05-2023

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	0.373	3	0.374	0.11	0.110	3360	4710	67400	67510	94400	94700	1.20	15.0	Kamran Steel	
2	0.374	3	0.374	0.11	0.110	3310	4740	66400	66290	95000	95000	1.40	17.5		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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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**Pakistan. Ph: 92-42-99029202**

To,

Project Manager  
 Rizwan Associates  
 Construction of Regional Nuclear Safety Inspectorate-VI, Office Building at Johar Town,  
 Lahore

Reference # CED/TFL **3177** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 09-05-2023  
 Dated: 08-05-2023

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

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.384	3	0.379	0.11	0.113	3640	5880	73000	71140	117900	115000	1.30	16.3	SJ Steel
2	0.380	3	0.377	0.11	0.112	3570	5200	71600	70520	104200	102800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
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To,  
 M/S Meezan Developers  
 Lahore

Reference # CED/TFL **3178** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 09-05-2023  
 Dated: 08-05-2023

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

Date of Test 15-05-2023  
 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	3890	4890	78000	78030	98000	98100	1.10	13.8	
2	0.374	3	0.374	0.11	0.110	3940	4940	79000	79040	99000	99100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,

General Manager Finance  
IVCC Engineering (Pvt) Ltd  
Micro Pilling for Retrofitting Project Cluster-E for Elite Estate (Pvt) Ltd. Islamabad.

Reference # CED/TFL **3179** (Dr. M Rizwan Riaz)

Dated: 09-05-2023

Reference of the request letter # 05/CX-Sample RWP18/45 Dated: 09-05-2023

**Tension Test Report** (Page – 1/1)

Date of Test 15-05-2023

Gauge length 2 inches

Description Girder & H-Beam Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)									
1	Girder	8x4	28.10x5.90	165.79	4800	5900	284	349	0.70	35.00	
2	Girder	10x5	28.00x8.90	249.20	9200	11000	362	433	0.60	30.00	
3	H-Beam	10x10	28.90x14.40	416.16	11400	16700	269	394	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Three Sample for Tensile Test</b>											
<b>Bend Test</b>											

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

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

To,

Project Manager  
 Unicon Consulting Services (Pvt) Ltd  
 Construction of Facilitation Center for Day School Girls at University of Agriculture,  
 Faisalabad

Reference # CED/TFL **3182** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 09-05-2023  
 Dated: 04-04-2023

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

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.384	3	0.379	0.11	0.113	3570	4660	71600	69800	93400	91200	1.00	12.5	
2	0.378	3	0.376	0.11	0.111	3470	4590	69600	68790	92000	91000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**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**

To,  
 M/S Malik Steel Sales Depot  
 Badami Bagh, Lahore

Reference # CED/TFL **3187** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 15-05-2023  
 Dated: 15-05-2023

**Tension Test Report** (Page -1/4)

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.371	3	0.373	0.11	0.109	3230	4990	64800	65290	100000	100900	1.20	15.0	Malik G-60 Heat No. 55
2	0.368	3	0.371	0.11	0.108	3230	5020	64800	65760	100600	102200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
M/S Malik Steel Sales Depot  
Badami Bagh, Lahore

Reference # CED/TFL **3187** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 15-05-2023  
Dated: 15-05-2023

**Tension Test Report** (Page -2/4)

Date of Test 15-05-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile 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	0.359	3	0.366	0.11	0.105	3080	4940	61800	64360	99000	103300	1.00	12.5	Malik G-60 Heat No. 56
2	0.363	3	0.368	0.11	0.107	3210	4940	64400	66350	99000	102100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
 M/S Malik Steel Sales Depot  
 Badami Bagh, Lahore

Reference # CED/TFL **3187** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 15-05-2023  
 Dated: 15-05-2023

**Tension Test Report** (Page -3/4)

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.364	3	0.369	0.11	0.107	3360	5250	67400	69220	105200	108200	1.10	13.8	Malik G-60 Heat No. 57
2	0.367	3	0.370	0.11	0.108	3330	5250	66800	68090	105200	107400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend 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**  
**Pakistan. Ph: 92-42-99029202**

To,  
 M/S Malik Steel Sales Depot  
 Badami Bagh, Lahore

Reference # CED/TFL **3187** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 15-05-2023  
 Dated: 15-05-2023

**Tension Test Report** (Page -4/4)

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.369	3	0.372	0.11	0.109	3360	5270	67400	68210	105600	107000	1.10	13.8	Malik G-60 Heat No. 58
2	0.373	3	0.374	0.11	0.110	3540	5370	71000	71180	107600	108000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend 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**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Chief Technical Officer  
 Sheekhoo Sugar Mills (Steel Division)  
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3191** (Dr. M Rizwan Riaz)  
 Reference of the request letter #Nil

Dated: 15-05-2023  
 Dated: 09-05-2023

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

Date of Test 15-05-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.371	3	0.372	0.11	0.109	3640	4810	73000	73660	96400	97400	1.10	13.8	1
2	0.372	3	0.373	0.11	0.109	3620	4840	72600	73030	97000	97700	1.20	15.0	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
**UET Lahore, Pakistan.**

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