



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

To,  
 Sr. Project Manager  
 Izhar Group of Companies  
 Construction of Structural Works of Dolmen Shopping Mall, Lahore

Reference # CED/TFL **35105** (Dr. Usman Akmal)  
 Reference of the request letter # ICPL/CONST-DML/20/14

Dated: 10-07-2020  
 Dated: 10-07-2020

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

Date of Test 13-07-2020  
 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 <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	0.412	10	9.98	0.12	0.121	4000	5200	73487	72780	95533	94700	1.10	13.8	Amreli Steel
2	0.406	10	9.90	0.12	0.119	3800	5000	69812	70170	91858	92400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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



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 Reference of the request letter # ICPL/CONST-DML/20/14

Dated: 10-07-2020  
 Dated: 10-07-2020

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

Date of Test 13-07-2020  
 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 <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	0.420	10	10.07	0.12	0.123	4000	5200	73487	71470	95533	92900	0.90	11.3	Mughal Steel
2	0.429	10	10.17	0.12	0.126	4600	5500	84510	80480	101044	96300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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To,  
 CEO  
 Nam Associates  
 MCB Bank, Rawat

Reference # CED/TFL **35106** (Dr. Usman Akmal)  
 Reference of the request letter # NAM-417/21

Dated: 10-07-2020  
 Dated: 07-07-2020

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

Date of Test 13-07-2020  
 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	0.360	3	0.367	0.11	0.106	3800	4650	76200	79230	93200	97000	0.80	10.0	
2	0.374	3	0.374	0.11	0.110	4200	5100	84200	84250	102200	102400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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To,  
M.E  
AS Enterprises  
Style Textile Manga/ Style Textile Rewind  
(AA Associates)

Reference # CED/TFL **35110** (Dr. Usman Akmal)  
Reference of the request letter # USD/ASE/22

Dated: 10-07-2020  
Dated: 10-07-2020

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

Date of Test 13-07-2020  
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 <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	0.402	10	9.85	0.12	0.118	4000	5300	73487	74590	97370	98900	0.80	10.0	Agha Steel
2	0.410	10	9.95	0.12	0.121	4200	5500	77161	76780	101044	100600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,  
 Resident Engineer - I  
 NESPAK  
 Construction Underpass at Firdous Market, Lahore

Reference # CED/TFL **35111** (Dr. Usman Akmal)  
 Reference of the request letter # 3772/FMU/103/MWA/04/87

Dated: 10-07-2020  
 Dated: 08-07-2020

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

Date of Test 13-07-2020  
 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 <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	4.134	10	1.244	1.27	1.215	39400	55000	68400	71470	95500	99800	1.30	16.3	Pak Steel
2	4.159	10	1.248	1.27	1.223	39600	55600	68800	71390	96500	100300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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**UET Lahore, Pakistan.**

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To,  
 Resident Engineer  
 NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(M/s Star Engineering)

Reference # CED/TFL 35112 (Dr. Qasim Khan) Dated: 10-07-2020

Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1516 Dated: 30-06-2020

**Tension Test Report** (Page – 1/2)

Date of Test 13-07-2020

Gauge length 2 inches

Description W-Metal beam, Metal Post & Metal Spacer (Galvanized) Strip Tensile

Test as per AASHTOO A-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam (S # 1)	2.10x0.30	0.63	2400	3200	3810	5079	0.60	30.00	
2		2.10x0.30	0.63	2500	3200	3968	5079	0.60	30.00	
3	W-Metal beam (S # 2)	2.10x0.30	0.63	2600	3300	4127	5238	0.60	30.00	
4		2.10x0.30	0.63	2500	3200	3968	5079	0.60	30.00	
5	Metal Post (S # 1)	2.40x0.60	1.44	5300	7300	3681	5069	0.70	35.00	
6		2.40x0.60	1.44	5400	7200	3750	5000	0.75	37.50	
7	Metal Post (S # 2)	2.40x0.60	1.44	5300	7200	3681	5000	0.75	37.50	
8		2.40x0.60	1.44	5100	7200	3542	5000	0.75	37.50	
9	Metal Spacer (S # 1)	2.40x0.50	1.20	4600	6300	3833	5250	0.70	35.00	
10		2.40x0.50	1.20	4800	6200	4000	5167	0.70	35.00	
11	Metal Spacer (S # 2)	2.40x0.50	1.20	4700	6300	3917	5250	0.70	35.00	
12		2.40x0.50	1.20	4800	6200	4000	5167	0.70	35.00	
<b>Only Twelve Samples for Tensile Test</b>										
<b>Bend Test</b>										

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To,  
Resident Engineer  
NESPAK  
China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I.  
Khan) Motorway, Package-3 (Trap to Kot Belian)(M/s Star Engineering)

Reference # CED/TFL **35112** (Dr. Qasim Khan) Dated: 10-07-2020  
Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1516 Dated: 30-06-2020

**Size Test Report** (Page – 2/2)

Date of Test 13-07-2020

Gauge length -----

Description W-Metal beam, Metal Post & Metal Spacer (Galvanized) Size Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	W-Metal beam	3.00	
2	Metal Post	6.00	
3	Metal Spacer	5.10	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Only Three Samples for Test</b>			

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