



**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 – Zeeruk (Jv)  
 China - Pakistan Economic Corridor (CPEC) - Western Route Hakla (on M-1) to D.I Khan  
 Motorway - Rehmani Khel to kot Kot Balian - Package-2B  
 Reference # CED/TFL **35502** (Dr. M Waseem Abbass) Dated: 13-10-2020  
 Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/1380 Dated: 07-10-2020

**Tension Test Report** (Page – 1/5)

Date of Test 20-10-2020  
 Gauge length 2 inches  
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	H-Beam	6"x6"	25.50x10.40	265.20	8900	14400	329.22	532.67	0.70	35.00	
2			25.50x10.40	265.20	9000	14800	332.92	547.47	0.70	35.00	
3	I-Beam	16"x6"	25.50x11.40	290.70	9200	14900	310.46	502.82	0.80	40.00	
4			25.60x11.30	289.28	9300	14900	315.38	505.29	0.70	35.00	
5	I-Beam	14"x6"	26.00x12.80	332.80	12100	17900	356.67	527.64	0.60	30.00	
6			26.00x13.00	338.00	12300	18000	356.99	522.43	0.60	30.00	
7	MS Angle	2"x1/4"	25.00x6.40	160.00	6200	9100	380.14	557.94	0.60	30.00	
8			24.80x6.60	163.68	6300	9400	377.58	563.38	0.60	30.00	
<b>Only Eight Samples for Tensile Test</b>											
<b>Bend Test</b>											

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

Note:

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 Motorway - Rehmani Khel to kot Kot Balian - Package-2B  
 Reference # CED/TFL **35502** (Dr. M Waseem Abbass) Dated: 13-10-2020  
 Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/1380 Dated: 07-10-2020

**Tension Test Report** (Page – 2/5)

Date of Test 20-10-2020  
 Gauge length 2 inches  
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	MS Angle	1.5"x1/4"	14.50x6.20	89.90	3200	4800	349.19	523.78	0.60	30.00	
2			14.50x6.40	92.80	3500	5300	369.99	560.27	0.60	30.00	
3	C-Channel	05"x2.5"	25.50x4.90	124.95	4500	6600	353.30	518.18	0.80	40.00	
4			25.70x4.40	113.08	4200	6200	364.36	537.87	0.80	40.00	
5	MS Plate	650x650x20mm	26.50x19.00	503.50	23800	32000	463.71	623.48	0.80	40.00	
6			26.50x19.00	503.50	23600	31800	459.81	619.58	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Six Samples for Tensile Test</b>											
<b>Bend Test</b>											

**I/C Testing Laboratoires**  
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To,  
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China - Pakistan Economic Corridor (CPEC) - Western Route Hakla (on M-1) to D.I Khan  
Motorway - Rehmani Khel to kot Kot Balian - Package-2B

Reference # CED/TFL **35502** (Dr. M Waseem Abbass) Dated: 13-10-2020  
Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/1380 Dated: 07-10-2020

**Weight & Size Test Report** (Page –3/5)

Date of Test 20-10-2020  
Description H-Beam, I-Beam & C-Channel Weight and Size Test

Sr. No.	Designation		Weight (g)	Length (cm)	Weight per Unit Length (kg/m)	Depth (d) mm	Flange Width (bf) mm	Flange Thickness (tf) mm	Web Thickness (tw) mm	Remark
	(inch)									
1	H-Beam	6x6	16200	47.00	34.47	152.00	151.00	11.50	11.20	
2	I-Beam	16x6	41750	48.30	86.44	405.00	153.00	22.20	12.20	
3	I-Beam	14x6	37700	46.80	80.56	360.00	152.50	20.50	13.80	
4	C-Channel	05x2.5	5050	48.00	105.21	126.50	62.00	7.80	5.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Test</b>										

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

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To,  
Resident Engineer  
NESPAK – Zeeruk (Jv)  
China - Pakistan Economic Corridor (CPEC) - Western Route Hakla (on M-1) to D.I Khan  
Motorway - Rehmani Khel to kot Kot Balian - Package-2B

Reference # CED/TFL **35502** (Dr. M Waseem Abbass) Dated: 13-10-2020  
Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/1380 Dated: 07-10-2020

**Weight & Size Test Report** (Page – 4/5)

Date of Test 20-10-2020  
Description MS Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	2x1/4	2250	46.60	4.83	50.00	50.00	7.80	
2	1.5x1/4	1700	49.00	3.47	40.10	40.00	6.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>								

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

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To,  
Resident Engineer  
NESPAK – Zeeruk (Jv)  
China - Pakistan Economic Corridor (CPEC) - Western Route Hakla (on M-1) to D.I Khan  
Motorway - Rehmani Khel to kot Kot Balian - Package-2B

Reference # CED/TFL **35502** (Dr. M Waseem Abbass) Dated: 13-10-2020  
Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/1380 Dated: 07-10-2020

**Weight & Size Test Report** (Page – 5/5)

Date of Test 20-10-2020  
Description MS Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(cm)	(cm)	(kg/m <sup>2</sup> )	(mm)	
1	650x650x20	62900	65.50	65.40	146.84	19.15	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>							

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

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

To,  
 Resident Engineer  
 NESPAK  
 Construction of Flyover at Jhall Road Railway Crossing to Sahiwal City

Reference # CED/TFL **35520** (Dr. Waseem Abbass)  
 Reference of the request letter # 4116/03/SSL/2020/72

Dated: 16-10-2020  
 Dated: 15-10-2020

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

Date of Test 20-10-2020  
 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	0.405	3	0.389	0.11	0.119	3500	5400	70200	64840	108200	100100	0.90	11.3	SGI
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,  
 Resident Engineer  
 Asian Consulting Engineers (Pvt) Ltd  
 Grand City Kharian

Reference # CED/TFL **35521** (Dr. Waseem Abbass)  
 Reference of the request letter # AsCE/GCK/RE/08

Dated: 19-10-2020  
 Dated: 17-10-2020

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

Date of Test 20-10-2020  
 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	0.386	3	0.380	0.11	0.114	3700	4700	74200	71810	94200	91300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
Deputy CRE  
Zeeruk International (Pvt) Ltd  
Lahore Sialkot Motorway Project  
(10 Engrs – FWO (LSMP))

Reference # CED/TFL **35522** (Dr. Waseem Abbass)  
Reference of the request letter # LSMP/DCRE/2020/1893

Dated: 19-10-2020  
Dated: 08-10-2020

**Tension Test Report** (Page – 1/1)

Date of Test 20-10-2020  
Gauge length 2 inches  
Description Mesh Wire for Gabion Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(cm)	(cm <sup>2</sup> )	(kg)	(kg/cm <sup>2</sup> )	(inch)		
1	0.38	0.11	560	4938	0.60	30.00	
2	0.38	0.11	630	5555	0.60	30.00	
3	0.38	0.11	540	4761	0.50	25.00	
4	0.38	0.11	560	4938	0.70	35.00	
5	0.38	0.11	530	4673	0.60	30.00	
6	0.38	0.11	530	4673	0.50	25.00	
-	-	-	-	-	-	-	
<b>Only Six Samples for Tensile Test</b>							

**I/C Testing Laboratoires**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Building Sub Division No. 15  
 Lahore  
 “Construction of New Administration Block in Prises of Lahore High Court Lahore”

Reference # CED/TFL **35525** (Dr. Waseem Abbass)  
 Reference of the request letter # 1091

Dated: 19-10-2020  
 Dated: 05-10-2020

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

Date of Test 20-10-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.410	3/8	0.392	0.11	0.120	4200	5400	84200	76840	108200	98800	0.90	11.3	
2	0.406	3/8	0.390	0.11	0.119	4000	5200	80200	73810	104200	96000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,  
 Sub Divisional Officer  
 Highway Sub Division  
 Pattoki  
 (Rehabilitation of Road from Adda Dina Nath, Jhallar Qazian, Bhagiana Kalan to Behramkay  
 Length = 9.50 km)  
 Reference # CED/TFL **35526** (Dr. Waseem Abbass)      Dated: 19-10-2020  
 Reference of the request letter # 107/P      Dated: 18-10-2020

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

Date of Test                    20-10-2020  
 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	0.399	3/8	0.387	0.11	0.117	3700	5200	74200	69470	104200	97700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
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To,  
 Sr Engineer  
 Engineering Kinetics (Pvt) Ltd  
 Lahore

Reference # CED/TFL **35527** (Dr. Waseem Abbass)  
 Reference of the request letter # Nil

Dated: 19-10-2020  
 Dated: 19-10-2020

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

Date of Test 20-10-2020  
 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	0.358	3/8	0.366	0.11	0.105	3200	4100	64200	67120	82200	86000	1.20	15.0	
2	0.356	3/8	0.365	0.11	0.105	3200	4100	64200	67400	82200	86400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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To,  
 Deputy Director (Technical) HQ  
 DACE Punjab, Lahore  
 “Establishment of Sports Complex NA 120 Lahore” (LDP)

Reference # CED/TFL **35535** (Dr. Waseem Abbass)  
 Reference of the request letter # 21093

Dated: 20-10-2020  
 Dated: 19-10-2020

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

Date of Test 20-10-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	1.491	3/4	0.747	0.44	0.438	14200	19300	71200	71420	96700	97100	1.30	16.3	
2	1.497	3/4	0.748	0.44	0.440	13900	19200	69700	69630	96200	96200	1.20	15.0	
-	2.579	1	0.982	0.79	0.758	25700	32100	71700	74740	89600	93400	1.40	17.5	
-	2.588	1	0.984	0.79	0.761	25800	32200	72000	74750	89900	93300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile test</b>														
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](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 Springs, Apartment, Lahore

Reference # CED/TFL **35536** (Dr. Waseem Abbass)  
 Reference of the request letter # Nil

Dated: 20-10-2020  
 Dated: 20-10-2020

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

Date of Test 20-10-2020  
 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	0.364	3	0.369	0.11	0.107	4400	5400	88200	90760	108200	111400	0.90	11.3	
2	0.367	3	0.370	0.11	0.108	4400	5400	88200	89990	108200	110500	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:

- 1- You can See your reports On Internet in the following web site  
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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