



**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  
 Buildings Sub Division No. 20  
 Lahore

(Renovation of Improvement Existing Building (Hearing Impaired Section) National Special Education Center 45-B II Johar Town, Lahore)

Reference # CED/TFL **35249** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 13/20<sup>th</sup>

Dated: 20-08-2020  
 Dated: 17-07-2020

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

Date of Test 21-08-2020  
 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	0.365	3/8	0.369	0.11	0.107	3800	4900	76200	78120	98200	100800	1.00	12.5	
2	0.363	3/8	0.368	0.11	0.107	3600	4800	72200	74450	96200	99300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 NESPAK  
 Construction of Pedestrian Overhead Bridge at Shabbir Usmani Road Infront of Jinnah Hospital,  
 Lahore  
 Reference # CED/TFL **35069** (Dr. Qasim Khan) Dated: 01-07-2020  
 Reference of the request letter # 4047-R/13/RK/07/AFE/377 Dated: 01-07-2020

**Tension Test Report** (Page – 1/4)

Date of Test 24-08-2020  
 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
	(inch)										
1	Top Plate	30x30x1-1/4	26.00x32.00	832.00	31400	45000	370.23	530.59	1.10	55.00	
2			26.00x32.00	832.00	30800	44600	363.16	525.87	0.90	45.00	
3	MS Pipe	18x1/2	27.40x12.25	335.65	14100	16200	412.10	473.48	0.70	35.00	
4			27.40x12.25	335.65	14600	17000	426.71	496.86	0.70	35.00	
5	MS Pipe	10x1/2	27.40x6.70	183.58	7000	8800	374.06	470.25	0.70	35.00	
6			27.40x6.70	183.58	7200	9200	384.75	491.62	0.75	37.50	
7	Channel	3x3x3/8x3/8	27.40x8.90	243.86	10100	13200	406.30	531.01	0.70	35.00	
8			27.40x9.00	246.60	9900	12900	393.83	513.18	0.70	35.00	
9	Channel	10x3-1/2x3/8	27.50x10.30	283.25	15700	20400	543.75	706.53	0.60	30.00	
10			27.50x10.30	283.25	16000	20900	554.14	723.84	0.55	27.50	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

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

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To,  
Resident Engineer  
NESPAK  
Construction of Pedestrian Overhead Bridge at Shabbir Usmani Road Infront of Jinnah Hospital,  
Lahore

Reference # CED/TFL **35069** (Dr. Qasim Khan)  
Reference of the request letter # 4047-R/13/RK/07/AFE/377

Dated: 01-07-2020

Dated: 01-07-2020

**Weight & Size Test Report** (Page – 2/4)

Date of Test 24-08-2020

Description Top Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(inch)	(g)	(cm)	(cm)	(kg/m <sup>2</sup> )	(mm)	
1	30x30x1-1/4	23950	61.70	15.10	257.07	32.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>							

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Dated: 01-07-2020

Dated: 01-07-2020

**Weight & Size Test Report** (Page – 3/4)

Date of Test 24-08-2020

Description M.S Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	18x1/2	58350	43.90	132.92	465.00	440.50	12.25	
2	10x1/2	26700	60.80	43.91	275.00	261.60	6.70	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>								

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**UET Lahore, Pakistan.**

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Reference of the request letter # 4047-R/13/RK/07/AFE/377

Dated: 01-07-2020  
Dated: 01-07-2020

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

Date of Test 24-08-2020  
Description Channel Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (bf)	Flange Thickness (tf)	Web Thickness (tw)	Remark
	(inch)	(g)	(cm)	(kg/m)	mm	mm	mm	mm	
1	3x3x3/8x3/8	11100	45.50	24.40	201.00	75.00	10.80	9.00	
2	10x3-1/2x3/8	15400	45.50	33.85	252.00	86.00	13.10	10.30	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>									

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To,  
 Engineer's Representative  
 NESPAK  
 Pakistan Kidney & Liver Institute and Research Center Hospital, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35220** (Dr. Qasim Khan) Dated: 13-08-2020  
 Reference of the request letter # 3836/13/AA/10/C-1-MEP-FF-MTR-65 Dated: 10-08-2020

**Tension Test Report** (Page – 1/2)

Date of Test 24-08-2020  
 Gauge length 2 inches  
 Description MS Seamless Pipe 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)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Pipe	3	26.70x5.40	144.18	6000	8000	408.24	544.32	0.50	25.00	
2			26.70x5.40	144.18	6100	8100	415.04	551.12	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>											
<b>Bend Test</b>											

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**UET Lahore, Pakistan.**

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To,  
Engineer's Representative  
NESPAK  
Pakistan Kidney & Liver Institute and Research Center Hospital, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35220** (Dr. Qasim Khan) Dated: 13-08-2020  
Reference of the request letter # 3836/13/AA/10/C-1-MEP-FF-MTR-65 Dated: 10-08-2020

**Weight & Size Test Report** (Page – 2/2)

Date of Test 24-08-2020  
Gauge length -----  
Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	1	826	30.1	2.74	33.70	26.00	3.85	
2	1.5	1187	30.20	3.93	48.40	41.20	3.60	
3	3	3260	30.50	10.69	89.40	78.60	5.40	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>								

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To,  
 Engineer's Representative  
 NESPAK  
 Pakistan Kidney & Liver Institute and Research Center, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35221** (Dr. Qasim Khan) Dated: 13-08-2020  
 Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-64 Dated: 27-07-2020

**Tension Test Report** (Page – 1/2)

Date of Test 24-08-2020  
 Gauge length 2 inches  
 Description MS Seamless Pipe 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)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Pipe	10	27.00x9.20	248.40	8400	11800	331.74	466.01	0.50	25.00	
2			27.00x9.20	248.40	8300	11900	327.79	469.96	0.55	27.50	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>											
<b>Bend Test</b>											

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

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To,  
Engineer's Representative  
NESPAK  
Pakistan Kidney & Liver Institute and Research Center, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35221** (Dr. Qasim Khan) Dated: 13-08-2020  
Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-64 Dated: 27-07-2020

**Weight & Size Test Report** (Page – 2/2)

Date of Test 24-08-2020  
Gauge length -----  
Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	8	12784	30.50	41.91	220.00	204.00	8.00	
2	10	17600	30.60	57.52	273.00	254.60	9.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>								

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**UET Lahore, Pakistan.**

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To,  
M/S GM – Material & Procurement  
MARS Engineering  
Shahdarah, Lahore  
(Guddu Bairaage Project)(Descon Engineering)

Reference # CED/TFL **35251** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 20-08-2020  
Dated: 20-08-2020

**Tension Test Report** (Page – 1/1)

Date of Test 24-08-2020  
Gauge length 50 mm  
Description Rod Tensile Test as per ASTM A370

Sr. No.	Diameter / size	Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Marks
	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(mm)		
1	14.90	174.366	7400	9200	416.33	517.60	5	10.00	
2	15.10	179.079	7200	9600	394.42	525.89	4	8.00	
<b>Only Two Samples for Tensile Test</b>									

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To,  
 AQN LDR  
 GE (Air) Rafiqui  
 (Construction of PAFWA Education System (PES) at PAF Base Rafiqui)

Reference # CED/TFL **35254** (Dr. Qasim Khan)  
 Reference of the request letter # 6389/24/E-6

Dated: 21-08-2020  
 Dated: 18-08-2020

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

Date of Test 24-08-2020  
 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	0.384	3/8	0.379	0.11	0.113	3000	4600	60200	58540	92200	89800	1.20	15.0	
2	0.358	3/8	0.366	0.11	0.105	2700	4000	54100	56590	80200	83900	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,  
Resident Engineer / Team Leader  
Prime Engineering Consultancy  
Kallurkot Bridge Project  
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35255** (Dr. Qasim Khan)  
Reference of the request letter # KK-DIK-BR-PJ/2020/180

Dated: 21-08-2020  
Dated: 20-08-2020

**Tension Test Report** (Page – 1/3)

Date of Test 24-08-2020  
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	786.0	17700	173.64	19600	192.28	199	>3.50	xx
2	12.70 (1/2")	775.0	786.0	17500	171.68	19400	190.31	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only two samples 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

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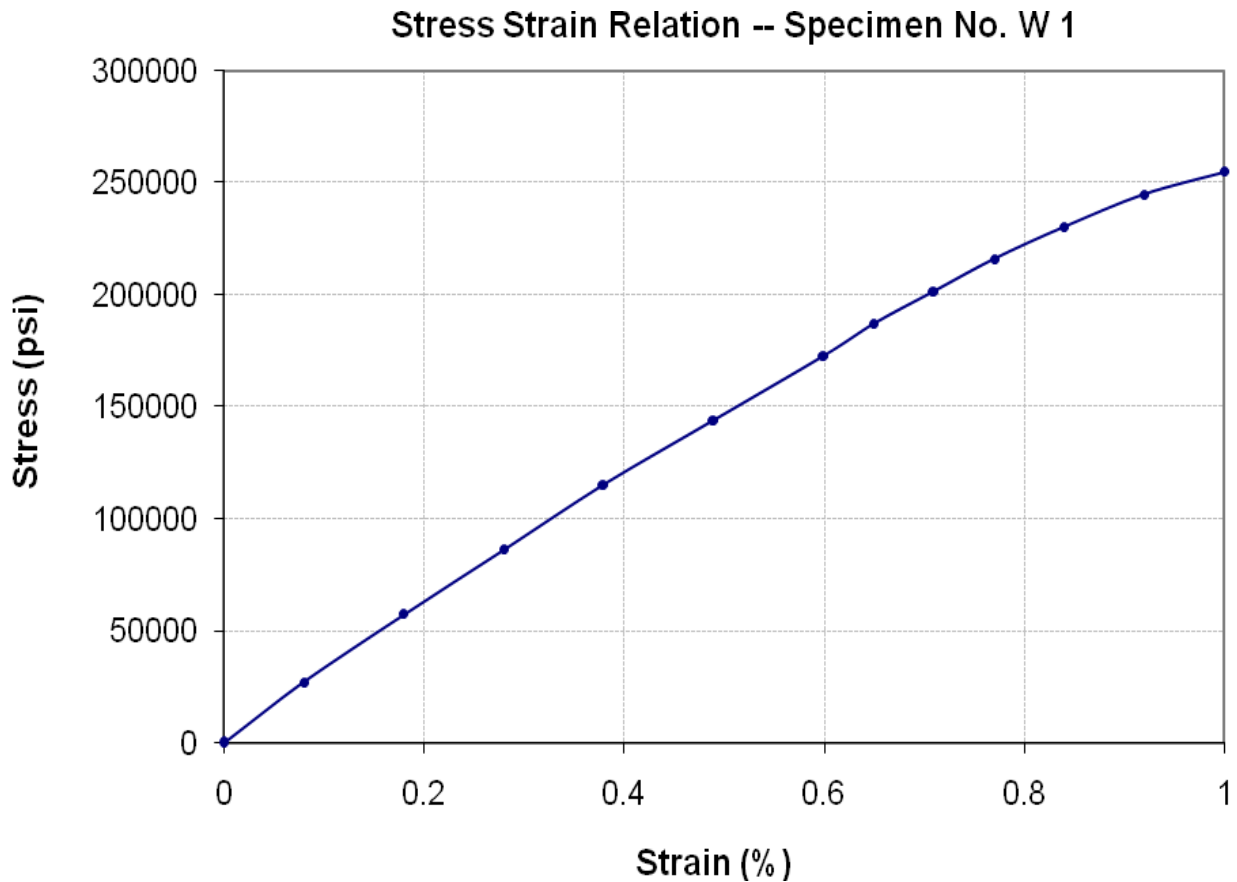
**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer / Team Leader  
Prime Engineering Consultancy  
Kallurkot Bridge Project  
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35255** (Dr. Qasim Khan)  
Reference of the request letter # KK-DIK-BR-PJ/2020/180

Dated: 21-08-2020  
Dated: 20-08-2020

**Graph** (Page – 2/3)



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

**Note:**

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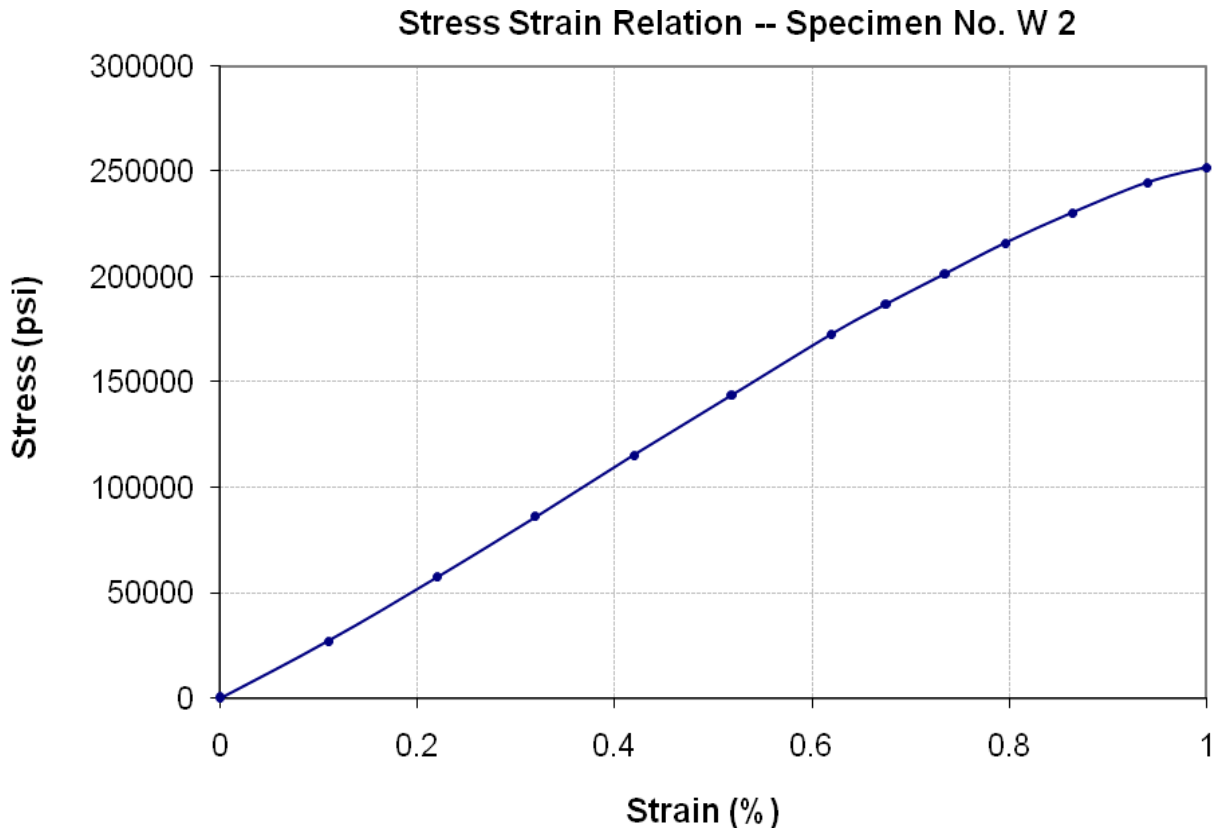
**STRUCTURAL ENGINEERING DIVISION**  
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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer / Team Leader  
Prime Engineering Consultancy  
Kallurkot Bridge Project  
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35255** (Dr. Qasim Khan)  
Reference of the request letter # KK-DIK-BR-PJ/2020/180

Dated: 21-08-2020  
Dated: 20-08-2020

**Graph** (Page – 3/3)



**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,  
 Resident Engineer - I  
 NESPAK  
 Construction Underpass at Firdous Market, Lahore

Reference # CED/TFL **35258** (Dr. Qasim Khan)  
 Reference of the request letter # 3772/FMU/103/MWA/04/169

Dated: 21-08-2020  
 Dated: 10-08-2020

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

Date of Test 24-08-2020  
 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	4.161	10	1.248	1.27	1.223	42000	56000	72900	75690	97200	101000	1.40	17.5	Pak Steel
2	4.159	10	1.248	1.27	1.223	41600	55200	72200	75000	95800	99600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**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 - I  
 NESPAK  
 Construction Underpass at Firdous Market, Lahore

Reference # CED/TFL **35258** (Dr. Qasim Khan)  
 Reference of the request letter # 3772/FMU/103/MWA/04/170

Dated: 21-08-2020  
 Dated: 10-08-2020

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

Date of Test 24-08-2020  
 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	0.377	3	0.376	0.11	0.111	3500	4600	70200	69570	92200	91500	1.10	13.8	Pak Steel
2	0.378	3	0.376	0.11	0.111	3500	4700	70200	69400	94200	93200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**UET Lahore, Pakistan.**

Note:

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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 CM Engineering (Pvt) Ltd  
Lahore  
(CMPAK Project Site ID: 43153, 43115, 43010, 42861, 42605, 42960, 42974, 42987, 43076, 43080, 43081, 43046, 42875)  
Reference # CED/TFL **35259** (Dr. Qasim Khan) Dated: 21-08-2020  
Reference of the request letter # CME/Steel/CMPAK/337 Dated: 11-08-2020

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

Date of Test 24-08-2020  
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	0.397	10	9.79	0.12	0.117	3300	5100	60627	62400	93696	96500	1.10	13.8	
2	0.408	10	9.92	0.12	0.120	3400	5300	62464	62540	97370	97500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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