



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

To,
 Project Manager
 M/S AS Enterprises
 US Dynamo Mills Sunder Industrial Estate
 (AA Associates)(FF Steel)

Reference # CED/TFL **34431** (Dr. Waseen Abbass)
 Reference of the request letter # USD/ASE/17

Dated: 06-01-2020
 Dated: 06-01-2020

Tension Test Report (Page -1/1)

Date of Test 07-01-2020
 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 ²)		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	0.404	10	9.88	0.12	0.119	4000	5500	73487	74230	101044	102100	1.00	12.5	
2	0.400	10	9.83	0.12	0.118	3900	5100	71650	73140	93696	95700	1.20	15.0	
3	0.413	10	9.98	0.12	0.121	4000	5300	73487	72690	97370	96400	1.20	15.0	
4	0.405	10	9.89	0.12	0.119	3800	5100	69812	70290	93696	94400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Resident Engineer
NESPAK – Zeeruk Jv
China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) to D.I. Khan
Motorway – Rehmani Khel to Kot Balian – Package IIB

Reference # CED/TFL **34390** (Dr. M Rizwan Riaz)
2019

Dated: 30-12-

Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/1052
2019

Dated: 23-12-

Tension Test Report (Page – 1/1)

Date of Test 07-01-2020
Gauge length -----
Description Fence Wire Tensile Test

Sr. No.	Diameter Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.30	500	4.91	
2	3.30	480	4.71	
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Only Two Samples for Test				

I/C Testing Laboratoires
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To,
 QA/QC Manager
 CSCEC (Section -7)
 EA. Consultants, AER
 Sukkur-Multan Motorway (392km) Turnkey Bass Project Section - VII (Jalalpur Pirwala -
 Multan)

Reference # CED/TFL **34391** (Dr. M Rizwan Riaz)

Dated: 30-12-2019

Reference of the request letter # CSCEC/PKM/NHA/[2019]/020

Dated: 29-10-2019

Tension Test Report (Page – 1/1)

Date of Test 07-01-2020
 Gauge length 2 inches
 Description C-Channel Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	C-Channel	26.60x2.30	61.18	2000	2900	320.69	465.00	0.70	35.00	
2		26.60x2.30	61.18	1900	2800	304.66	448.97	0.70	35.00	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
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,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019
Dated: 31-12-2019

Tension Test Report (Page – 1/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description GI Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	1.5x100x610	26.80x1.50	40.20	1240	2500	302.60	610.07	0.40	20.00	
2		26.80x1.50	40.20	1200	2480	292.84	605.19	0.40	20.00	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019
Dated: 31-12-2019

Tension Test Report (Page – 2/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	4x100x610	26.80x4.00	107.20	4300	5300	393.50	485.01	0.60	30.00	
2		26.90x4.00	107.60	4400	5300	401.15	483.21	0.65	32.50	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
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Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019
Dated: 31-12-2019

Tension Test Report (Page – 3/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	5x100x610	26.70x4.90	130.83	6000	7600	449.90	569.87	0.60	30.00	
2		26.90x4.90	131.81	6100	7700	453.99	573.07	0.60	30.00	
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Only Two Samples for Tensile Test										
Bend Test										

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To,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019
Dated: 31-12-2019

Tension Test Report (Page – 4/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	6x100x610	26.80x6.00	160.80	6300	8600	384.35	524.66	0.70	35.00	
2		26.80x6.00	160.80	6400	8600	390.45	524.66	0.60	30.00	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
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To,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019
Dated: 31-12-2019

Tension Test Report (Page – 5/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	8x100x610	27.80x8.00	222.40	7400	10700	326.41	471.97	0.75	37.50	
2		27.00x8.00	216.00	7600	10800	345.17	490.50	0.80	40.00	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019
Dated: 31-12-2019

Tension Test Report (Page – 6/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	12x100x610	26.80x12.10	324.28	10700	16100	323.69	487.05	0.85	42.50	
2		27.00x12.10	326.70	11300	16300	339.31	489.45	0.85	42.50	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
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To,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **34405, 430** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 31-12-2019

Dated: 31-12-2019

Tension Test Report (Page – 7/7)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	16x100x610	26.80x16.00	428.80	14800	21800	338.59	498.74	0.90	45.00	
2		26.70x16.00	427.20	14300	21900	328.38	502.90	0.80	40.00	
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Only Two Samples for Tensile Test										
Bend Test										

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S Elite Engineering Limited
Lahore
(Chaklala and Tarujabba, UG to AG Piping Replacement, Security Enhancement Project)

Reference # CED/TFL **34422** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 02-01-2020
Dated: 01-01-2020

Tension Test Report (Page – 1/1)

Date of Test 07-01-2020
Gauge length 2 inches
Description MS Flat Bar Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	50x12	24.40x12.30	300.12	10000	17200	326.87	562.22	0.80	40.00	
2		24.40x12.30	300.12	10900	18300	356.29	598.17	0.90	45.00	
3	100x12	24.60x12.90	317.34	18000	24000	556.44	741.92	0.50	25.00	
4		24.60x12.80	314.88	18000	24100	560.79	750.83	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 Sub Divisional Officer
 Highway Sub Division
 (M&R) Narowal
 (Special Repair of Road from Narowal to Zafarwal at Adda Sadowala, Chacho Wali,
 Dhaliwala and km no. 18 (Length – 2.35 km) District Narowal)
 Reference # CED/TFL **34432** (Dr. Waseem Abbass) Dated: 06-01-2020
 Reference of the request letter # 1038/N Dated: 20-12-2019

Tension Test Report (Page -1/1)

Date of Test 07-01-2020
 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 ²)		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	0.362	3/8	0.368	0.11	0.106	2800	4300	56200	57990	86200	89100	1.20	15.0	
2	0.362	3/8	0.368	0.11	0.106	2700	4200	54100	55910	84200	87000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI (M/s Construct))

Reference # CED/TFL **34437** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/820/4427

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

Tension Test Report (Page -1/1)

Date of Test 07-01-2020
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 ²)		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	3200	4900	64200	64260	98200	98400	1.50	18.8	Kamran Steel
2	0.368	3	0.371	0.11	0.108	3200	4800	64200	65240	96200	97900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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