



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
 EGC (pvt) Ltd
 Kuchlak Bypass Additional work under USAID for Kalat-Quetta-Chaman Section N-25
 (Toll Plazas (Kalat, Baleli & Chaman))

Reference # CED/TFL **33700** (Dr. Safer Abbas)
 Reference of the request letter # KQC/Add/RE/266

Dated: 06-08-2019
 Dated: 20-04-2019

Tension Test Report (Page – 1/1)

Date of Test 26-08-2019
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile and Bend Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	Section W	380x64	26.00x12.40	322.40	10300	16900	313.41	514.23	0.80	40.00	
2		380x64	26.00x12.30	319.80	10800	17500	331.29	536.82	0.70	35.00	
3	Section L	38x38x5	13.25x5.85	77.51	3000	4600	379.68	582.18	0.45	22.50	
4		38x38x5	13.25x5.85	77.51	2800	4400	354.37	556.87	0.45	22.50	
5	Section C	100x10x8	13.25x5.75	76.19	3100	4900	399.16	630.93	0.50	25.00	
6		100x10x8	13.25x5.75	76.19	3000	5000	386.28	643.81	0.50	25.00	
7	Gusset Plate	150x200x9	25.60x10.00	256.00	8000	12700	306.56	486.67	0.80	40.00	
8		150x200x9	25.60x10.00	256.00	8700	13200	333.39	505.83	0.80	40.00	
9	Box Section	381x381x8	25.80x8.00	206.40	5900	9800	280.42	465.78	0.80	40.00	
10		381x381x8	25.80x8.00	206.40	6400	9800	304.19	465.78	0.80	40.00	
Only Ten Samples for Tensile and Five Samples for Bend Test											
Bend Test											
Strip Taken from Section W 380x64mm Bend Test Through 180° is Satisfactory											
Strip Taken from Section L 38x38x5mm Bend Test Through 180° is Satisfactory											
Strip Taken from Section C 100x10x8mm Bend Test Through 180° is Satisfactory											
Strip Taken from Gusset Plate 150x200x9mm Bend Test Through 180° is Satisfactory											
Strip Taken from Box Section 381x381x8mm 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 Progress Dynamics (Pvt) Ltd
Lahore
(Tower Crane)

Reference # CED/TFL **33724** (Dr. Safer Abbas)
Reference of the request letter # Nil

Dated: 21-08-2019
Dated: 16-08-2019

Tension Test Report (Page – 1/2)

Date of Test 26-08-2019
Gauge length 2 inches
Description Pipe & Sq. 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
	----	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Pipe	26.00x3.00	78.00	3700	4700	465.35	591.12	0.40	20.00	
2	Sq. Pipe	26.10x5.75	150.08	6400	8400	418.35	549.09	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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To,
M/S Progress Dynamics (Pvt) Ltd
Lahore
(Tower Crane)

Reference # CED/TFL **33724** (Dr. Safer Abbas)
Reference of the request letter # Nil

Dated: 21-08-2019
Dated: 16-08-2019

Tension Test Report (Page – 2/2)

Date of Test 26-08-2019
Gauge length 8 inches
Description Rod Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	10.976	----	42.19	----	1398.2	48800	79600	342	559	2.50	31.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Infra Dev Works (Pkg-II, III & IV), DHA Ph-IX)(M/s NLC)

Reference # CED/TFL **33730** (Dr. Ali Ahmed)
 Reference of the request letter # 408/241/E/Lab/659/1444

Dated: 22-08-2019
 Dated: 31-07-2019

Tension Test Report (Page -1/1)

Date of Test 26-08-2019
 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	0.375	3	0.374	0.11	0.110	3500	4900	70200	70080	98200	98200	1.20	15.0	Kisan Steell
2	0.373	3	0.374	0.11	0.110	3400	4900	68200	68380	98200	98600	1.10	13.8	
3	4.386	10	1.281	1.27	1.289	35800	60800	62200	61200	105600	104000	1.00	12.5	
4	4.403	10	1.284	1.27	1.294	36000	61600	62500	61320	107000	105000	1.00	12.5	
5	5.356	11	1.416	1.56	1.574	44400	73000	62800	62160	103200	102200	1.20	15.0	
6	5.298	11	1.408	1.56	1.557	45400	73000	64200	64260	103200	103400	1.30	16.3	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer (PMD)
AL-Imam Enterprises Pvt.Ltd
Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL 33731 (Dr. Safer Abbas)

Dated: 22-08-2019

Reference of the request letter # Am-Imam/746/PS-1/DHA/LHE/919

Dated: 22-08-2019

Seamless/Flattening Test Report (Page – 1/2)

Date of Test 26-08-2019

Description MS Pipe Seamless Test as per ASTM A 106

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe(1")	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	Pipe(2.5")	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
3	Pipe(4")	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Only Three Samples for Test			

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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 (PMD)
AL-Imam Enterprises Pvt.Ltd
Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL 33731 (Dr. Safer Abbas)

Dated: 22-08-2019

Reference of the request letter # Am-Imam/746/PS-1/DHA/LHE/919

Dated: 22-08-2019

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

Date of Test 26-08-2019

Gauge length -----

Description MS Pipes Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
1	Pipe(1)	156	60.0	2.60	33.40	26.00	3.70	
2	Pipe(2.5)	524	60.0	8.73	73.20	63.20	5.00	
3	Pipe(4)	948	60.0	15.80	114.3	102.70	5.80	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Three Samples for Test								

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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
 RENARDET S.A ((M-4), Package-II & III)
 Construction of Faisalabad – Khanewal Motorway (M-4) Project Pckage-III, Dinpur-Khanewal,
 Section-3B (D & L International)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **33732** (Dr. Waseem Abbas)
 Reference of the request letter # RE/M-4/3B/2019/478

Dated: 22-08-2019
 Dated: 21-08-2019

Tension Test Report (Page – 1/1)

Date of Test 21-06-2019
 Gauge length 2 inches
 Description W-Section Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Section	2.99x0.295	0.88	3700	5300	4194.77	6008.73	0.50	25.00	
2		2.99x0.295	0.88	3700	5300	4194.77	6008.73	0.55	27.50	
-	.	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-
-	.	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-
Only Two Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										

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 Defence Housing Authority.
Lahore Cantt
(Infra Dev Works Sector-M (Extn), DHA Ph-V)(M/s AAJ Engrs)

Reference # CED/TFL **33733** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/676/256

Dated: 23-08-2019
Dated: 23-08-2019

Tension Test Report (Page -1/1)

Date of Test 26-08-2019
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	0.380	3	0.377	0.11	0.112	3500	4900	70200	68980	98200	96600	1.10	13.8	S.J Steel
2	0.386	3	0.380	0.11	0.113	3100	4700	62200	60270	94200	91400	1.20	15.0	
3	0.387	3	0.381	0.11	0.114	3200	4900	64200	61980	98200	94900	1.20	15.0	
4	0.437	3	0.405	0.11	0.129	3600	5300	72200	61740	106200	90900	1.20	15.0	
5	0.386	3	0.380	0.11	0.114	3300	4700	66200	64060	94200	91300	1.30	16.3	
6	0.392	3	0.383	0.11	0.115	3300	4800	66200	63120	96200	91900	1.30	16.3	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#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
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager C, R & M
 Allied Bank Limited, Multan
 Allied Bank Limited Grain Market, Bahawalnagar Branch

Reference # CED/TFL **33735** (Dr. Waseem Abbas) Dated: 23-08-2019
 Reference of the request letter # GHQ/S2/ENGG.CELL.MTN/MA/2019/582 Dated: 23-08-2019

Tension Test Report (Page -1/1)

Date of Test 26-08-2019
 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	0.417	3	0.395	0.11	0.123	4600	6100	92200	82630	122300	109600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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Pakistan. Ph: 92-42-99029202

To,
M/S Munir Industries
Lahore

Reference # CED/TFL **33736** (Dr. Safer Abbas)
Reference of the request letter # Nil

Dated: 24-08-2019

Dated: 24-08-2019

Tension Test Report (Page – 1/1)

Date of Test 26-08-2019

Gauge length 2 inches

Description M.S Pipe Plate for Sing Pole Steel Strip Tensile Test as per ASTM A36

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	6.5	26.10x5.30	138.33	5100	6500	361.68	460.96	0.35	17.50	
2	12	25.80x12.10	312.18	7800	12900	245.11	405.37	0.70	35.00	
3	16	26.00x15.40	400.40	12500	18500	306.26	453.26	0.70	35.00	
4	20	25.80x20.40	526.32	13500	23000	251.62	428.69	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Highway Sub Division, T.T. Singh
 (Rural Accessibility Programme 2018-19)

Reference # CED/TFL **33737** (Dr. Waseem Abbas)
 Reference of the request letter # 82

Dated: 23-08-2019
 Dated: 10-08-2019

Tension Test Report (Page -1/1)

Date of Test 26-08-2019
 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	0.375	3/8	0.375	0.11	0.110	3500	4800	70200	69970	96200	96000	1.10	13.8	
2	0.378	3/8	0.376	0.11	0.111	3400	4800	68200	67410	96200	95200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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