



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

To,

Deputy Director (Q.C.D)
WASA, LDA, Lahore
(Manufacturing of R.C.C Manhole Covers WASA, L.D.A, Lahore)(M/s Shezone Pipe Industry)

Reference # CED/TFL 4293, 4295 (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/1770-71

Dated: 14-11-2023
Dated: 13-11-2023

Tension Test Report (Page – 1/2)

Date of Test 20-11-2023
Gauge length 2 inches
Description Angle Iron 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
	(inch)										
1	Angle Iron	2x2x1/4	24.00x8.60	206.40	84.20	125.40	407.95	607.56	0.40	20.00	
2			24.00x8.60	206.40	82.00	122.70	397.29	594.48	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from Angle Iron 2x2x1/4" Bend Test Through 180° is Satisfactory											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

Deputy Director (Q.C.D)
WASA, LDA, Lahore
(Manufacturing of R.C.C Manhole Covers WASA, L.D.A, Lahore)(M/s Shezone Pipe Industry)

Reference # CED/TFL 4293, 4295 (Dr. M Rizwan Riaz)

Dated: 14-11-2023

Reference of the request letter # QCD/1770-71

Dated: 13-11-2023

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

Date of Test 20-11-2023

Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	2x2x1/4	594	102.0	5.82	49.30	51.00	8.30	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

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To,
 Director W & D
 Punjab Small Industries Corporation
 "Construction of Handicraft Development Centre Multan"

Reference # CED/TFL **4203** (Dr. Safer Abbass)
 Reference of the request letter # PSIC/W&D/042

Dated: 16-11-2023
 Dated: 17-10-2023

Tension Test Report (Page -1/1)

Date of Test 20-11-2023
 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	0.386	3/8	0.380	0.11	0.114	4180	5350	83800	81140	107200	103900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

To,
M/S Engineering Design Bureau
Lahore
(DG Slab for Zong MSC KLP, Lahore.)

Reference # CED/TFL **4206** (Dr. Safer Abbass)
Reference of the request letter # EDB/42

Dated: 17-11-2023
Dated: 16-11-2023

Tension Test Report (Page -1/1)

Date of Test 20-11-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.405	10	9.89	0.12	0.119	3620	5300	66505	67030	97370	98200	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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To,
M/S Meezan Developers
Lahore
(Jamia tur Rasheed Lahore Campus.)

Reference # CED/TFL **4208** (Dr. Safer Abbass)
Reference of the request letter # Nil

Dated: 17-11-2023
Dated: 17-11-2023

Tension Test Report (Page -1/1)

Date of Test 20-11-2023
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	0.366	3	0.370	0.11	0.107	3940	4810	79000	80830	96400	98700	0.90	11.3	
2	0.359	3	0.367	0.11	0.106	4150	5010	83200	86600	100400	104600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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UET Lahore, Pakistan.

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To,
 Project Manager
 United Lifestyle (Private) Limitd.
 High-Rise Building “Skyscrapers United” at Johar Town Lahore

Reference # CED/TFL **4210** (Dr. Safer Abbass)
 Reference of the request letter # ULS/2021-22-23/0052

Dated: 17-11-2023
 Dated: 17-11-2023

Tension Test Report (Page -1/1)

Date of Test 20-11-2023
 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	0.370	3	0.372	0.11	0.109	3360	4890	67400	68050	98000	99100	1.20	15.0	
2	0.373	3	0.373	0.11	0.110	3430	4960	68800	69030	99400	99900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Asst Dir Infra
Defence Housing Authority, Gujranwala
"OHWT Executive Block"

Reference # CED/TFL **4213** (Dr. Safer Abbass)
Reference of the request letter # 111/15/AD/RS/Lab/OHWT-EB/27

Dated: 17-11-2023
Dated: 09-11-2023

Tension Test Report (Page -1/2)

Date of Test 20-11-2023
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	0.368	3	0.371	0.11	0.108	3310	4990	66400	67400	100000	101600	0.80	10.0	
2	0.403	3	0.388	0.11	0.118	3620	5450	72600	67420	109200	101500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
Asst Dir Infra
Defence Housing Authority, Gujranwala
"Sec C"

Reference # CED/TFL **4213** (Dr. Safer Abbass)
Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2A/1798

Dated: 17-11-2023
Dated: 07-11-2023

Tension Test Report (Page -2/2)

Date of Test 20-11-2023
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	3410	5070	68400	68540	101600	101900	1.10	13.8	Nonsee Steel
2	0.374	3	0.374	0.11	0.110	3410	5120	68400	68390	102600	102700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,

Resident Engineer
 NESPAK
 Development of Infrastructure of CBD Walton (Phase 2 & 3) & Flyover Connecting
 Bab-e-Pakistan to Walton.

Reference # CED/TFL **4216** (Dr. M M Rizwan Riaz)
 Reference of the request letter # 4322/13/DAK/02/35

Dated: 17-11-2023
 Dated: 08-11-2023

Tension Test Report (Page -1/2)

Date of Test 20-11-2023
 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	0.377	3	0.376	0.11	0.111	3520	5200	70600	69980	104200	103400	0.90	11.3	
2	0.379	3	0.377	0.11	0.112	3670	5250	73600	72550	105200	103800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Resident Engineer
NESPAK
Development of Infrastructure of CBD Walton (Phase 2 & 3) & Flyover Connecting
Bab-e-Pakistan to Walton.

Reference # CED/TFL **4216** (Dr. M M Rizwan Riaz)
Reference of the request letter # 4322/13/DAK/02/40

Dated: 17-11-2023
Dated: 08-11-2023

Tension Test Report (Page -2/2)

Date of Test 20-11-2023
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	4.187	10	1.252	1.27	1.231	34800	55000	60400	62320	95500	98500	1.60	20.0	
2	4.192	10	1.252	1.27	1.232	35000	55200	60800	62620	95800	98800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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