



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

Pakistan Kidney & Liver Institute and Research Center Package C-I, Phase – I, Lahore

Reference # CED/TFL **2781** (Dr. Rizwan Azam)

Dated: 14-02-2023

Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-79ated: 14-02-2023

Tension Test Report (Page – 1/2)

Date of Test 20-02-2023

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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	1½	23.40x3.70	86.58	3000	4400	340	499	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Dated: 14-02-2023

Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-79 Dated: 14-02-2023

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

Date of Test 20-02-2023

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	812	31.80	2.55	33.4	26.40	3.50	
2	1½	1296	30.60	4.24	48.2	40.70	3.75	
3	-	-	-	-	-	-	-	
4	-	-	-	-	-	-	-	
5	-	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	
7	-	-	-	-	-	-	-	
Only Two Samples for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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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 Egle RCC Pipe Industry)

Reference # CED/TFL **2799** (Dr. Rizwan Azam)
 Reference of the request letter # QCD/300-01

Dated: 16-02-2023
 Dated: 13-02-2023

Tension Test Report (Page – 1/2)

Date of Test 20-02-2023
 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	22.90x5.50	125.95	-----	6300	-----	491	0.60	30.00	
2			23.30x6.40	149.12	4400	7000	289	461	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
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.

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Department of Civil Engineering
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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 Egle RCC Pipe Industry)

Reference # CED/TFL **2799** (Dr. Rizwan Azam)

Dated: 16-02-2023

Reference of the request letter # QCD/300-01

Dated: 13-02-2023

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

Date of Test 24-08-2021

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	367	85.70	4.28	46.40	51.20	6.50	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
Only One Sample for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Project Manager / Engineer's Representative
Diamer Basha Consultants Group
NESPA-ACE-MMP-MWH-ROYRY-DOLSAR Jv
Diamer Basha Dam Project.

Reference # CED/TFL **2800** (Dr. Rizwan Azam)
Reference of the request letter # CONSULT-UET-010-051

Dated: 16-02-2023

Dated: 14-02-2023

Tension Test Report (Page – 1/1)

Date of Test 20-02-2023

Gauge length 2 inches

Description Angle Iron & Steel 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
	(mm)	(mm)									
1	Angle Iron	100x100x8	25.10x8.10	203.31	7300	12000	352	579	0.50	25.00	
2	Steel Plate	12	25.30x12.00	303.60	12400	16100	401	520	0.70	35.00	
-	-		-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Manager QA/QC
 New Metro City Housing Scheme
 Mandi Bahaudin

Reference # CED/TFL **2806** (Dr. Rizwan Azam)
 Reference of the request letter # NMC/MBD/6

Dated: 17-02-2023
 Dated: 16-02-2023

Tension Test Report (Page -1/1)

Date of Test 20-02-2023
 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	0.383	3	0.379	0.11	0.113	3300	4500	66200	64600	90200	88100	1.40	17.5	FF Steel
2	0.383	3	0.378	0.11	0.112	3300	4500	66200	64680	90200	88200	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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To,
 Asst Dir Lab
 Defence Housing Authority, Bahawalpur
 Masjid Sector - B (M/s Multiline Engineering.)

Reference # CED/TFL **2807** (Dr. Rizwan Azam)
 Reference of the request letter # 535/QC/MTL

Dated: 17-02-2023
 Dated: 17-02-2023

Tension Test Report (Page -1/1)

Date of Test 20-02-2023
 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	0.367	3	0.371	0.11	0.108	3500	4800	70200	71550	96200	98200	1.10	13.8	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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