



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

To,
Assistant Garrison Engineer
AGE (Army) RYK

Reference # CED/TFL **36792** (Dr. Qasim Khan)
Reference of the request letter # 4001/101/E-4

Dated: 27-07-2021

Dated: 08-07-2021

Tension Test Report (Page – 1/3)

Date of Test 05-08-2021
Gauge length 2 inches
Description MS Pipe 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)	(mm)									
1	MS Pipe	4	26.60x7.00	186.20	11600	13800	611	727	0.55	27.50	
2			26.40x6.90	182.16	11700	14000	630	754	0.50	25.00	
3	MS Pipe	6	26.50x11.80	312.70	20700	31100	649	976	0.45	22.50	
4			26.50x11.80	312.70	20900	31300	656	982	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test											
Bend Test											
Strip Taken from MS Pipe (4") Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe (6") 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,
Assistant Garrison Engineer
AGE (Army) RYK

Reference # CED/TFL 36792 (Dr. Qasim Khan)
Reference of the request letter # 4001/101/E-4

Dated: 27-07-2021

Dated: 08-07-2021

Seamless/Flattening Test Report (Page – 2/3)

Date of Test 05-08-2021

Description MS Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 16"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	Pipe 16"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Only Two Samples for Test			

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

To,
Assistant Garrison Engineer
AGE (Army) RYK

Reference # CED/TFL **36792** (Dr. Qasim Khan)
Reference of the request letter # 4001/101/E-4

Dated: 27-07-2021

Dated: 08-07-2021

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

Date of Test 05-08-2021

Description MS Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	4	1079	59.7	18.07	115.0	101.00	7.00	
2	6	2894	59.6	48.56	179.00	155.60	11.70	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two 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

Ref: CED/TFL/08/36818

Dated: 03-08-2021

Dated of Test: 05-08-2021

To
Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Shezone RCC Pipes Industry)

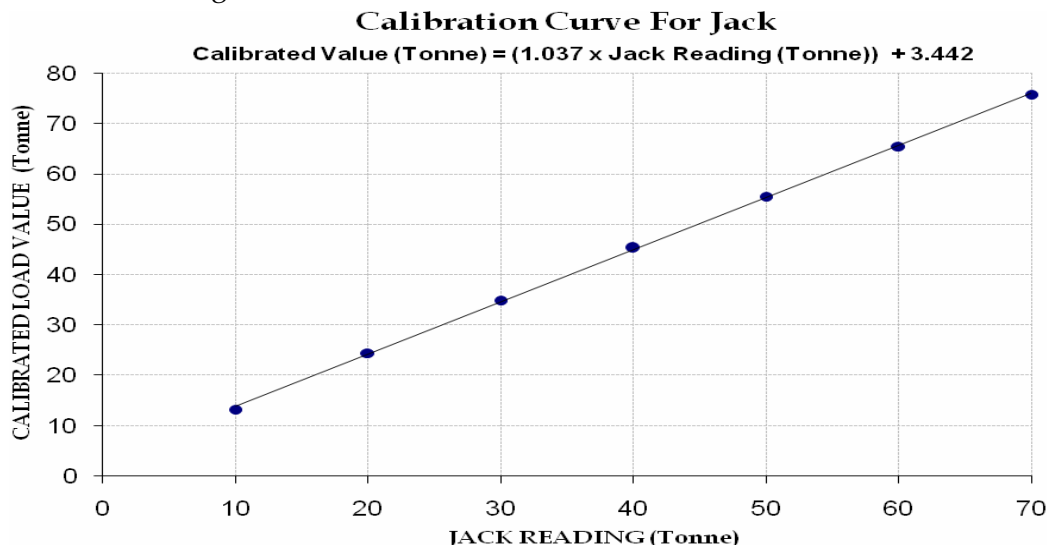
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/08/36818)

Reference to your Letter No. QCD/1034, Dated: 03/08/2021 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 100 (Tonne)
Calibrated Range : Zero - 70 (Tonne)

Hydraulic Jack Reading (Tonne)	10	20	30	40	50	60	70	
Calibrated Load	kg	13200	24400	34900	45300	55500	65400	75800
	Tonne	13.20	24.40	34.90	45.30	55.50	65.40	75.80

1 Tonne = 1000 kg



To,

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
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M/S Style Textile
 Lahore
 (Style Manga Project)

Reference # CED/TFL **36819** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 03-08-2021
 Dated: 29-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 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	0.406	10	9.91	0.12	0.119	4200	5400	77161	77500	99207	99700	1.00	12.5	
2	0.404	10	9.88	0.12	0.119	4200	5300	77161	77880	97370	98300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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 SIA Engineering & Contractors
Gujranwala
(B2S Project Site ID: CII-2806, N-5779, N-5780, N-5651, 53026, N-5413, REP-007, CII-2807, LHR0651, LHR1495)

Reference # CED/TFL **36821** (Dr. Usman Akmal)
Reference of the request letter # SIA/Steel/e.co/B2S/005

Dated: 04-08-2021
Dated: 12-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
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	0.381	10	9.60	0.12	0.112	4100	5300	75324	80620	97370	104300	1.00	12.5	
2	0.382	10	9.60	0.12	0.112	4100	5300	75324	80550	97370	104200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia 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,
 Civil Engineer
 Shahbaz Garments (Pvt) Limited
 Construction of Ring Spinning Building at Shahbaz Garments (Pvt) Ltd, Faisalabad

Reference # CED/TFL **36822** (Dr. Usman Akmal)
 Reference of the request letter # UET/02/2021

Dated: 04-08-2021
 Dated: 04-08-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 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	0.416	10	10.02	0.12	0.122	4300	5400	78998	77490	99207	97400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia 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,
 Project Director (North-3)
 PAEC, Chashma
 Construction of SCF Building at Chashma
 (AL-Moiz Steel, Heat No. 2244)

Reference # CED/TFL **36823** (Dr. Usman Akmal) Dated: 04-08-2021
 Reference of the request letter # WASO-P(KCI)-LOT-002-(323)/2020/1390 Dated: 03-08-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 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	0.371	3	0.373	0.11	0.109	3300	5000	66200	66630	100200	101000	1.30	16.3	
2	0.375	3	0.374	0.11	0.110	3300	5000	66200	66050	100200	100100	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager Project
 Fatima Memorial Hospital
 Construction of New Building at Fatima Memorial Hospital Lahore

Reference # CED/TFL **36824** (Dr. Usman Akmal)
 Reference of the request letter # FMH/RAF/St/02

Dated: 04-08-2021
 Dated: 04-08-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 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	3100	4500	62200	63240	90200	91800	1.30	16.3	
2	0.367	3	0.371	0.11	0.108	3100	4500	62200	63350	90200	92000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Incharge
 Elite Engineering Pvt. Ltd
 Al Khair Rice Mill Renala

Reference # CED/TFL **36825** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 04-08-2021
 Dated: 03-08-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 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	0.384	9.5	9.64	0.110	0.113	3900	5000	78200	76060	100200	97600	1.20	15.0	
2	0.434	9.5	10.24	0.110	0.128	4000	5300	80200	69060	106200	91500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
9.5mm Dia 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,
 Project Manager
 Al Noor Developers
 Al Noor Heights located at Bedian Road, Lahore

Reference # CED/TFL **36826** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 04-08-2021
 Dated: 04-08-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 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	3600	4700	72200	72910	94200	95200	1.30	16.3	Mughal Supreme
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Project Manager
 Gurmani Foundation
 Construction of College at Thatha Gurmani

Reference # CED/TFL **36827** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 04-08-2021
 Dated: 03-08-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	3900	5000	78200	75710	100200	97100	0.75	9.4	
2	0.381	3/8	0.378	0.11	0.112	3400	4600	68200	66930	92200	90600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Assembly, Lahore
 (Reconstruction of Pipal House A-Block, Lahore)

Reference # CED/TFL **36828** (Dr. Usman Akmal)
 Reference of the request letter # 562

Dated: 04-08-2021
 Dated: 27-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-08-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.378	3/8	0.376	0.11	0.111	3100	4600	62200	61440	92200	91200	1.40	17.5	
2	0.378	3/8	0.376	0.11	0.111	3200	4600	64200	63470	92200	91300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples