



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

To,
RE (Civil) MMP Consultants
KTDP Spinwam.

Reference # CED/TFL **3532** (Dr. Usman Akmal)
Reference of the request letter # QA/KTDP/SP/0123

Dated: 23-06-2023
Dated: 21-06-2023

Tension Test Report (Page -1/3)

Date of Test 06-07-2023
Gauge length 2 inches
Description Barbed & Reset Wire Tensile and Bend 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	0.039	-----	2.50	-----	4.9	-----	280	-----	559	0.20	10.0	Barbed
2	0.067	-----	3.30	-----	8.5	-----	600	-----	689	0.30	15.0	Reset
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile and two samples for bend test												
Bend Test												
Barbed Wire Bend Test Through 180° is Satisfactory												
Reset Wire Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Dated: 23-06-2023
Dated: 21-06-2023

Tension Test Report (Page – 2/3)

Date of Test 06-07-2023
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
	----	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle Iron	23.10x6.00	138.60	5300	7600	375	538	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Angle Iron Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Reference # CED/TFL **3532** (Dr. Usman Akmal)
Reference of the request letter # QA/KTDP/SP/0123

Dated: 23-06-2023
Dated: 21-06-2023

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

Date of Test 06-07-2023
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
1	Angle Iron	1848	43.30	4.27	50.10	48.00	6.00	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
Only One Sample for Test								

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Ref: CED/TFL/06/3542

Dated: 26-06-2023

Dated of Test: 06-07-2023

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Wahga RCC Pipes Factory)

Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/06/3542)

Reference to your Letter No. QCD/1139-40, Dated: 15/06/2023 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

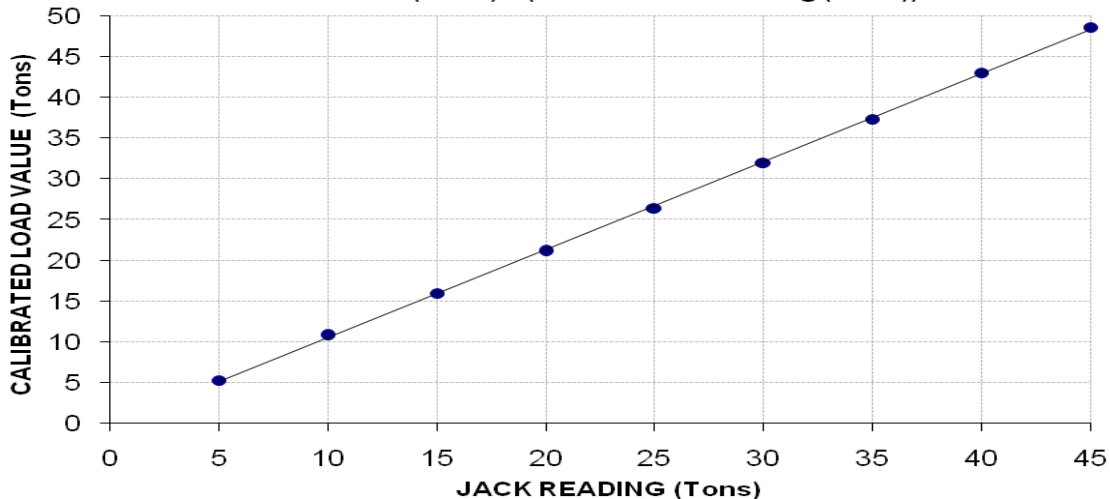
Total Range : Zero - 70 (Ton)
Calibrated Range : Zero - 45 (Ton)

Hydraulic Jack Reading (Ton)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	4800	9800	14500	19200	24000	29100	33900	39100	44200
Calibrated Load (Ton)	5.29	10.79	15.97	21.14	26.43	32.04	37.33	43.05	48.67

1000 Kg = 1.1011 Ton

Calibration Curve For Jack

Calibrated Value (Tons) = (1.079 x Jack Reading (Tons)) - 0.250



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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 ACES
 Development of Sector –T & P – DHA Multan

Reference # CED/TFL **3549** (Dr. Usman Akmal)
 Reference of the request letter # RE/Sec–T & P/Material/99

Dated: 03-07-2023
 Dated: 27-06-2023

Tension Test Report (Page -1/1)

Date of Test 06-07-2023
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM A-496

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.173	5	5.30	19.40	22.08	1200	1360	607	533	688	604	Ali Steel
2	0.173	5	5.30	19.40	22.02	1160	1400	587	517	708	624	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
5mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S GMD Sons
Lahore
(DHA Gujranwala)

Reference # CED/TFL **3550** (Dr. M Riza Riaz)
Reference of the request letter # Nil

Dated: 03-07-2023
Dated: 03-07-2023

Breaking Load Test Report (Page – 1/1)

Date of Test 06-07-2023
Gauge length -----
Description Cast Iron Strip Breaking LoadTest

Sr. No.	Thickness	Breaking Load	Remarks
	(mm)	(kg)	
1	14.00	1300	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Assistant Project Director
 PMU – SBP
 “Up-Gradation of Punjab Stadium one at Punjab Stadium Ground Nishtar Park Sports
 Complex Lahore GS No. 321”

Reference # CED/TFL **3552** (Dr. Usman Akmal)

Dated: 04-07-2023

Reference of the request letter # APD/PMU/SBP/LHR/23/547-A

Dated: 10-05-2023

Tension Test Report (Page -1/1)

Date of Test 06-07-2023

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	0.409	3/8	0.391	0.11	0.120	4600	5800	92200	84430	116300	106500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
Allied Engineering Consultants (Pvt) Ltd
“Medical Center Ground Floor Slab and Beams University of Chakwal Balkasar
Campus.”

Reference # CED/TFL **3555** (Dr. Usman Akmal)
Reference of the request letter # AEC/UOC/2023/051

Dated: 04-07-2023
Dated: 18-06-2023

Tension Test Report (Page -1/1)

Date of Test 06-07-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.378	3	0.376	0.11	0.111	3100	4700	62200	61510	94200	93300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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Pakistan. Ph: 92-42-99029202

To,

Sub Divisional Officer
 Buildings Sub Division
 Chakwal
 (Up-Scaling of Blackberry and Ground Nut Research Programs for Agri-Buisness
 Promotion in Barani Region Punjab One at Chakwal)

Reference # CED/TFL **3556** (Dr. Usman Akmal)
 Reference of the request letter # 609/CKL

Dated: 04-07-2023
 Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 06-07-2023
 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	0.381	3/8	0.378	0.11	0.112	3300	5300	66200	64910	106200	104300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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Duplicate

To,

Asst Dir Lab
Defence Housing Authority, Bahawalpur
Enlistment at DHA Bahawalpur (Ittehad Steel Industries Faisalabad Pvt Ltd)

Reference # CED/TFL **3243, 3557** (Dr. M Rizwan Riaz)

Dated: 22-05-2023

Reference of the request letter # 110/QC/MTL

Dated: 19-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023

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	2900	4800	58200	59190	96200	98000	1.30	16.3	Ittehad 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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