



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/07/3553

Dated: 04-07-2023

Dated of Test: 10-07-2023

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Shezone Pipe Industries.)

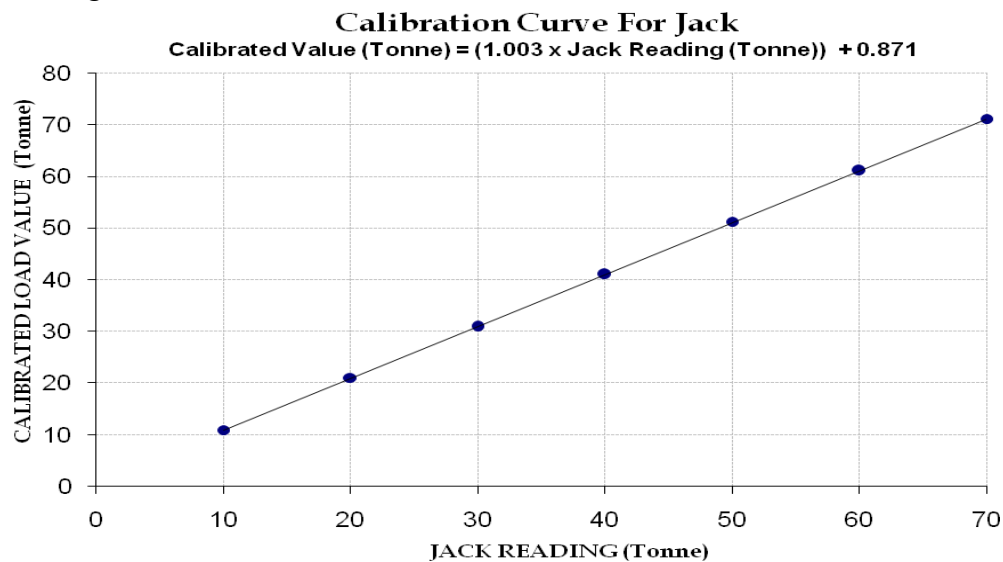
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/07/3553)

Reference to your Letter No. QCD/1141-42, 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 - 100 (Ton)
Calibrated Range : Zero - 70 (Ton)

Hydraulic Jack Reading (Tonne)		10	20	30	40	50	60	70
Calibrated Load	(kg)	10900	21000	30900	41000	51200	61100	71100
	(Tonne)	10.90	21.00	30.90	41.00	51.20	61.10	71.10

1000 Kg = 1 Tonne



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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
 Assistant Director
 Defence Housing Authority
 Construction of 10 Marla Villas (Block A).

Reference # CED/TFL **3559** (Dr. Rizwan Azam)
 Reference of the request letter # 111/3/AD Bldgs/Gen/51

Dated: 06-07-2023
 Dated: 06-07-2023

Tension Test Report (Page -1/1)

Date of Test 10-07-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		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	0.376	3	0.375	0.11	0.111	3300	5000	66200	65820	100200	99800	1.40	17.5	Siraj Steel
2	0.370	3	0.372	0.11	0.109	3200	5000	64200	64850	100200	101400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S YAMAC Engineering and Construction.
Faisalabad

Reference # CED/TFL **3560** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 06-07-2023
Dated: 06-07-2023

Tension Test Report (Page – 1/1)

Date of Test 10-07-2023
Gauge length 2 inches
Description Welded Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	---	(mm)	(mm ²)	(kg)	(MPa)	(inch)		
1	Welded Plate	25.80x4.90	126.42	6200	481.11	0.60	30.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
Only one sample for tensile and two samples for bend test								
Bend Test								
Strip taken from Welded Plate Root Bend Test Through 180° is Satisfactory								
Strip taken from Welded Plate Face Bend Test Through 180° is Satisfactory								

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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,

Asst. General Manager
Izhar Construction (Pvt) Ltd
Construction of GBS Nest Office Building.

Reference # CED/TFL **3561** (Dr. Rizwan Azam)
2023

Dated: 06-07-

Reference of the request letter # ICPL/GBS Nest Office Building/LAB/01 Dated: 06-07-2023

Tension Test Report (Page -1/1)

Date of Test 10-07-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.419	10	10.05	0.12	0.123	4000	5600	73487	71640	102881	100300	1.30	16.3	Sheikhoo Steel
2	0.408	10	9.92	0.12	0.120	4000	5400	73487	73540	99207	99300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,

Executive Engineer (UCET)
University of Sargodha
"Construction of Building of Engineering College University of Sargodha"

Reference # CED/TFL **3563** (Dr. Rizwan Azam)
Reference of the request letter # SU/XEN (UCET)/7263

Dated: 07-07-2023
Dated: 02-05-2023

Tension Test Report (Page -1/1)

Date of Test 10-07-2023
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	0.377	3/8	0.376	0.11	0.111	4000	5000	80200	79480	100200	99400	1.10	13.8	
2	0.376	3/8	0.375	0.11	0.111	4000	5100	80200	79720	102200	101700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Resident Engineer
 NESPAK
 Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore
 (Mughal Steel)

Reference # CED/TFL **3565** (Dr. Rizwan Azam)

Dated: 07-07-2023

Reference of the request letter# 4537/03/MSA/09/81

Dated: 04-07-2023

Tension Test Report (Page -1/1)

Date of Test 10-07-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.206	10	1.255	1.27	1.236	39200	52800	68100	69880	91700	94200	1.60	20.0	A-1042
2	4.207	10	1.255	1.27	1.237	38600	52600	67000	68800	91300	93800	1.60	20.0	D-3963
3	4.207	10	1.255	1.27	1.237	39000	52400	67700	69510	91000	93400	1.40	17.5	E-9159
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only three sample for tensile and three samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,
 M/S Project Managers
 Allied Bank Limited
 Plot No. 14 Block A3 Gulberg III Lahore

Reference # CED/TFL **3568** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 07-07-2023
 Dated: 06-07-2023

Tension Test Report (Page -1/1)

Date of Test 10-07-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		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	3700	4900	74200	73550	98200	97400	1.20	15.0	F.F Steel
2	0.377	3	0.376	0.11	0.111	3700	4900	74200	73640	98200	97600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Project Director
 Overseas Construction Co. (Pvt) Ltd
 Gulberg City Centre, Lahore

Reference # CED/TFL **3570** (Dr. Rizwan Azam)
 Reference of the request letter # OCC/Steel/43

Dated: 10-07-2023
 Dated: 10-07-2023

Tension Test Report (Page -1/2)

Date of Test 10-07-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		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	4.402	10	1.284	1.27	1.294	28600	45600	49700	48720	79200	77700	1.50	18.8	AK Smelters and Re-Roller
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Project Director
 Overseas Construction Co. (Pvt) Ltd
 Gulberg City Centre, Lahore

Reference # CED/TFL **3570** (Dr. Rizwan Azam)
 Reference of the request letter # OCC/Steel/46

Dated: 10-07-2023
 Dated: 10-07-2023

Tension Test Report (Page -2/2)

Date of Test 10-07-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		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	0.108	3110	4810	62400	63700	96400	98600	1.30	16.3	AK Smelters and Re-Roller
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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