



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/05/3188

Dated: 15-05-2023

Dated of Test: 19-05-2023

To,

Resident Engineer
Zeeruk International (Pvt) Ltd
Construction of Bridge Linking DHA Phase-IV to Bahria Town Phase-VIII over
Soan River

Subject: - **CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/05/3188)**

(Page -1/2)

Reference to your Letter No. ZI/RE/DHA-PH-IV/23/62, Dated: 13/05/2023 on the subject cited above. One Hydraulic Jack (Jack No. 313, Gauge No. AES-313) as received by us has been calibrated. The results are tabulated as under:

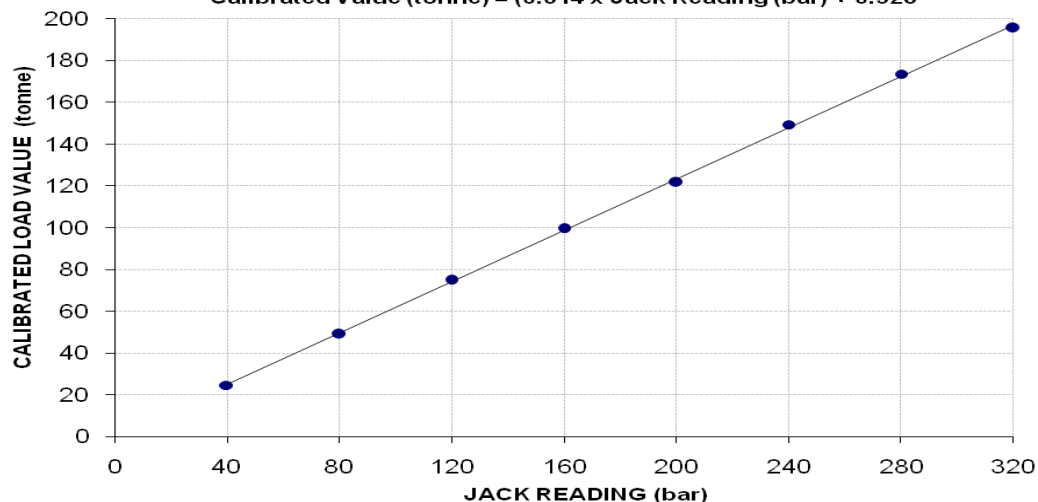
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 320 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	24600	49000	74800	99400	121600	149200	173600	195600
	Tonne	24.60	49.00	74.80	99.40	121.60	149.20	173.60	195.60
Calibrated Pressure (bar)	40.07	79.81	121.84	161.91	198.07	243.02	282.76	318.60	

1 Tonne = 1000 kg, The Ram Area of Jack = 602.09 cm²

Calibration Curve For Jack No. AES 313

Calibrated Value (tonne) = (0.614 x Jack Reading (bar) + 0.328



I/C Testing Laboratories
UET Lahore, Pakistan.

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



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/05/3188

Dated: 15-05-2023

Dated of Test: 19-05-2023

To,

Resident Engineer
Zeeruk International (Pvt) Ltd
Construction of Bridge Linking DHA Phase-IV to Bahria Town Phase-VIII over
Soan River

Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/05/3188)
(Page -2/2)

Reference to your Letter No. ZI/RE/DHA-PH-IV/23/62, Dated: 13/05/2023 on the subject cited above. One Hydraulic Jack (Jack No. 314, Gauge No. AES-314) as received by us has been calibrated. The results are tabulated as under:

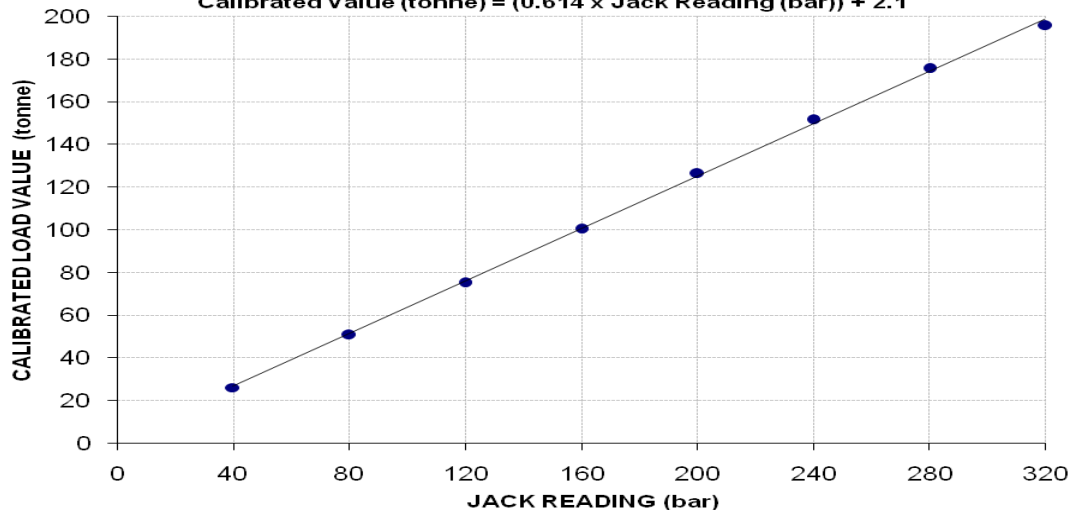
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 320 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	26200	50800	75200	100400	126400	151600	175600	195600
	Tonne	26.20	50.80	75.20	100.40	126.40	151.60	175.60	195.60
Calibrated Pressure (bar)	42.68	82.74	122.49	163.53	205.88	246.93	286.02	318.60	

1 Tonne = 1000 kg, The Ram Area of Jack = 602.09 cm²

Calibration Curve For Jack No. AES 314

Calibrated Value (tonne) = (0.614 x Jack Reading (bar)) + 2.1



I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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 – RHC jv
Restoration of Dispersion Structures of Khumbi hill Torrent

Reference # CED/TFL **3202** (Dr. M K Ashif)
Reference of the request letter # 3158/13/MA/09/2567

Dated: 16-05-2023
Dated: 12-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
Gauge length 8 inches
Description G.I Wire Tensile 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	0.099	-----	4.01	-----	12.7	-----	1160	-----	899	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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

To,
 General Manager
 Base & Brick
 Construction of Sub-Campus for Superior University, Sialkot-Wazirabad Road, Sialkot

Reference # CED/TFL **3204** (Dr. M Kashif) Dated: 16-05-2023
 Reference of the request letter # B&B/Sub-Camp.Sialkot/Lot-I/2023/1605 Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
 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	0.377	3	0.376	0.11	0.111	3400	5000	68200	67610	100200	99500	1.40	17.5	
2	0.387	3	0.380	0.11	0.114	3600	5300	72200	69820	106200	102800	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														

To,
 I/C Testing Laboratoires
 UET Lahore, Pakistan.

- Note:
- 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
 - The above results pertain to sample /samples supplied to this laboratory.
 - Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

Campus Engineer
 GC University, Lahore
 Construction of New Girls Hostel at Main Campus GCU Lahore.

Reference # CED/TFL **3206** (Dr. M Kashif)
 Reference of the request letter # GCU/Engr/877/W.O

Dated: 16-05-2023
 Dated: 04-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.364	3/8	0.369	0.11	0.107	3000	4600	60200	61820	92200	94800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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



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/05/3207

Dated: 16-05-2023

Dated of Test: 19-05-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/3207) (Page -1/2)

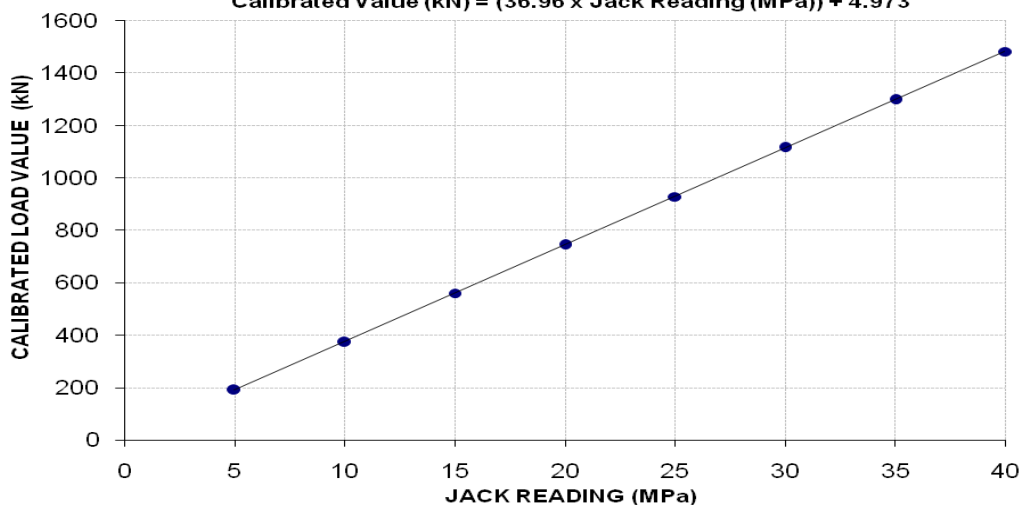
Reference to your Letter No. MDHP-DEL-LABT-171, dated: 15/05/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2302161528, Gauge No. EN 837-1S-1) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	
Calibrated Load	(kg)	19400	38000	57200	75900	94650	113800	132400	151200
	(kN)	190	373	561	744	928	1116	1298	1483
Calibrated Pressure (Mpa)	5.12	10.04	15.11	20.05	25.00	30.06	34.97	39.94	

The Ram Area of Jack = 371.305 cm²

Calibration Curve For Jack No. 2302161528, Gauge No. EN 837-1S-1
Calibrated Value (kN) = (36.96 x Jack Reading (MPa)) + 4.973



I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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/05/3207

Dated: 16-05-2023

Dated of Test: 19-05-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

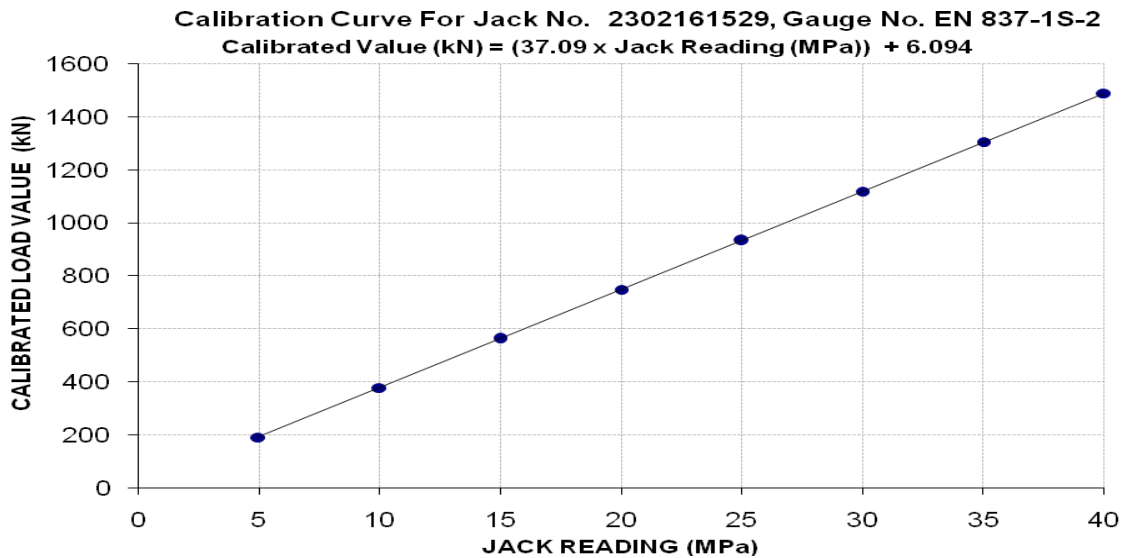
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/3207) (Page -2/2)

Reference to your Letter No. MDHP-DEL-LABT-171, dated: 15/05/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2302161529, Gauge No. EN 837-1S-2) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	
Calibrated Load	(kg)	19400	38600	57400	76200	95200	114000	133200	151800
	(kN)	190	379	563	747	934	1118	1306	1489
Calibrated Pressure (Mpa)	5.12	10.20	15.16	20.13	25.14	30.11	35.18	40.09	

The Ram Area of Jack = 371.305 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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

To,

Depurt Director
Safe Soil and Foundation Engineering Services
Karam Elahi, Ladhay Wala, Housing Society at Gujranwala.

Reference # CED/TFL **3208** (Dr. M Kashif)
Reference of the request letter # SS/Letter/1463/23

Dated: 16-05-2023
Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.372	3/8	0.373	0.11	0.109	3500	4900	70200	70560	98200	98800	1.40	17.5	
2	0.373	3/8	0.374	0.11	0.110	3400	4800	68200	68300	96200	96500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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



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 M. Saleem Construction Company
 Sheikhpura
 (Extension Dyeing Unit. (Goods Store))

Reference # CED/TFL **3209** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 16-05-2023
 Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
 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	0.377	3	0.376	0.11	0.111	3500	4900	70200	69590	98200	97500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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



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
High-Q Constructions
(Construction of High-Q Mall at 3-A, Gulberg II, Lahore)

Reference # CED/TFL **3211** (Dr. M Kashif)
Reference of the request letter # QC/HQ/CIVIL/99

Dated: 17-05-2023
Dated: 13-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.399	10	9.81	0.12	0.117	3300	4900	60627	62040	90021	92200	1.60	20.0	
2	0.401	10	9.83	0.12	0.118	3200	4900	58789	59910	90021	91800	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.

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



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

To,
 Senior Estate Engineer
 Board of Management
 Sundar Industrial Estate
 Construction of New RO Plant at SIE

Reference # CED/TFL **3214** (Dr. M Kashif)
 Reference of the request letter # BOM/SIE/BCD 9139

Dated: 16-05-2023
 Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.368	10	9.43	0.12	0.108	3300	4800	60627	67250	88184	97900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

- 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



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

To,
GM
Professional Construction Services (Pvt) Ltd.
Allied Bank Lanjna Chowk Lahore

Reference # CED/TFL 3217 (Dr. M Kashif)
Reference of the request letter # PCS/23/Eng-39-A

Dated: 17-05-2023
Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
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	0.380	3	0.377	0.11	0.112	3300	4600	66200	65170	92200	90900	1.50	18.8	
2	0.378	3	0.376	0.11	0.111	3600	4400	72200	71330	88200	87200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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

To,
GM
Professional Construction Services (Pvt) Ltd.
Allied Bank DR Center Faisalabad

Reference # CED/TFL **3218** (Dr. M Kashif)
Reference of the request letter # PCS/23/Eng/40-A

Dated: 17-05-2023
Dated: 17-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
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	0.376	3	0.375	0.11	0.110	4700	5500	94200	93820	110200	109800	0.80	10.0	
2	0.366	3	0.370	0.11	0.107	4200	5100	84200	86140	102200	104600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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 Izhar Steel (Pvt) Ltd
 Lahore
 (LPG Storage & Bottling Facility PARCO PEARL Gas.)

Reference # CED/TFL **3219** (Dr. M Kashif)

Dated: 17-05-2023

Reference of the request letter # ISPL-ISPD-112-LET-00009

Dated: 17-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023

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	0.370	3	0.372	0.11	0.109	4200	5000	84200	85210	100200	101500	0.90	11.3	
2	0.361	3	0.368	0.11	0.106	3900	4800	78200	80960	96200	99700	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.

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



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
 Mascon Associates (Pvt) Ltd – HA Consulting
 Establishment of Revenue Academy, Lahore Group No. 1
 (Main Building of Revenue Academy, Hostel Block, Staff Accommodation & Residences
 Etc.)

Reference # CED/TFL **3220** (Dr. M Kashif)

Dated: 17-05-2023

Reference of the request letter # HA-MAS/RE/RAC/03

Dated: 02-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023

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	0.383	3	0.379	0.11	0.113	3600	6300	72200	70470	126300	123400	0.90	11.3	PK Steel
2	0.384	3	0.379	0.11	0.113	3300	4700	66200	64470	94200	91900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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



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
 Construction of Multi-Level Grade Separation Flyover at Shahdra Moor, Lahore

Reference # CED/TFL **3224** (Dr. M Kashif)

Dated: 18-05-2023

Reference of the request letter # 4537/03/MSA/09/36

Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023

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	0.364	3	0.369	0.11	0.107	3600	4800	72200	74110	96200	98900	1.20	15.0	G-101
2	0.364	3	0.369	0.11	0.107	3800	4800	76200	78350	96200	99000	1.00	12.5	
3	4.091	10	1.237	1.27	1.203	38800	53400	67400	71110	92700	97900	1.10	13.8	B-3707
4	4.083	10	1.236	1.27	1.200	38800	49800	67400	71260	86500	91500	1.00	12.5	
5	4.191	10	1.252	1.27	1.232	41600	54600	72200	74420	94800	97700	1.50	18.8	D-8380
6	4.145	10	1.245	1.27	1.218	41800	51200	72600	75630	88900	92700	1.20	15.0	

Note: only six samples for tensile and three sample for bend test

Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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

To,

Sub Divisional Officer
Buildings Sub Division No. 01
Bahawalpur
(Drinking Water Facility in Under Construction Judicial Complex (Residential Block)
Bahawalpur)

Reference # CED/TFL **3225** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 18-05-2023
Dated: 17-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3	0.377	0.11	0.111	3400	4800	68200	67250	96200	95000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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



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

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

Reference # CED/TFL **3226** (Dr. M Kashif)
 Reference of the request letter # NMC/MBD/33

Dated: 18-05-2023
 Dated: 17-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
 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	0.378	3	0.376	0.11	0.111	3000	4900	60200	59540	98200	97300	1.30	16.3	Nonee Steel	
2	0.366	3	0.370	0.11	0.108	3100	4700	62200	63460	94200	96300	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.

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



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 – Turk Pak jv
Establishment of 200 Bedded Mother and Child Hospital & Nursing College at District
Bahawalnagar.

Reference # CED/TFL **3228** (Dr. Asad Ali)
Reference of the request letter # 4460/13/MA/04/240

Dated: 18-05-2023
Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 19-05-2023
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	0.382	3	0.378	0.11	0.112	3670	5320	73600	72080	106600	104500	0.90	11.3	SJ Steel
2	0.372	3	0.373	0.11	0.109	3640	5300	73000	73310	106200	106800	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														

Witness by Haseeb Zia (Assistant Engineer (IDAP))

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **3233** (Dr. M Kashif)
Reference of the request letter # VECO/2023/0519/7956

Dated: 19-05-2023
Dated: 19-05-2023

Tension Test Report (Page – 1/1)

Date of Test 19-05-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	434.0	10000	98.10	10600	103.99	>3.50	xx
2	9.53 (3/8")	432.0	435.0	9000	88.29	10500	103.01	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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 – RHC jv
Recouping of Damaged Loose Stone Apron and Inverted Filter D/S Taunsa Barrage
During Year 22-23

Reference # CED/TFL **3275** (Dr. M Kashif)
Reference of the request letter # 3158/13/MA/09/2591

Dated: 25-05-2023
Dated: 16-05-2023

Tension Test Report (Page -1/1)

Date of Test 26-05-2023
Gauge length 8 inches
Description G.I Wire Tensile 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	0.100	-----	4.03	-----	12.7	960	1240	739	955	0.70	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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



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

I/C Testing Laboratories
UET Lahore, Pakistan.

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