



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
 ACE, Danish School
 Mankera Residency

Reference # CED/TFL **34625** (Dr. Qasim Khan)
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/20/290

Dated: 07-02-2020
 Dated: 02-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020

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	0.368	3/8	0.371	0.11	0.108	3500	4650	70200	71260	93200	94700	1.30	16.3	
2	0.418	3/8	0.396	0.11	0.123	4600	5700	92200	82430	114300	102200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Resident Engineer
 Metroplan-Asian Jv
 Resident Construction Supervision for Establishment of 200 Bedded Mother & Child Hospital
 and Nursing College, District Mianwali

Reference # CED/TFL **34626** (Dr. Qasim Khan) Dated: 07-02-2020
 Reference of the request letter # Metroplan Asian Jv-Nexus-MMCH-RE-046 Dated: 05-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020

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	0.372	3	0.373	0.11	0.109	3200	4750	64200	64520	95200	95800	1.30	16.3	Moiz Steel
2	0.372	3	0.373	0.11	0.109	3100	4700	62200	62500	94200	94800	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.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Assistant Engineer
 University of Okara
 (Construction of Swimming Pool Fiber Shed at Guest House, University of Okara)

Reference # CED/TFL **34629** (Dr. Qasim Khan)
 Reference of the request letter # Engg.Cell/UO/696

Dated: 07-02-2020
 Dated: 06-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020

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	0.374	3	0.374	0.11	0.110	3600	4900	72200	72170	98200	98300	1.10	13.8	
2	0.373	3	0.374	0.11	0.110	3700	4900	74200	74370	98200	98500	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.

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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/02/34630

Dated: 07-02-2020

Dated of Test: 10-02-2020

To
M/S NUCON Engineering
DHA Business Hub, Lahore

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/34630) (Page – 1/2)

Reference to your Letter No. Nil, dated: 07/02/2020 on the subject cited above. One Pressure Gauge No. A as received by us has been calibrated. The results are tabulated as under:

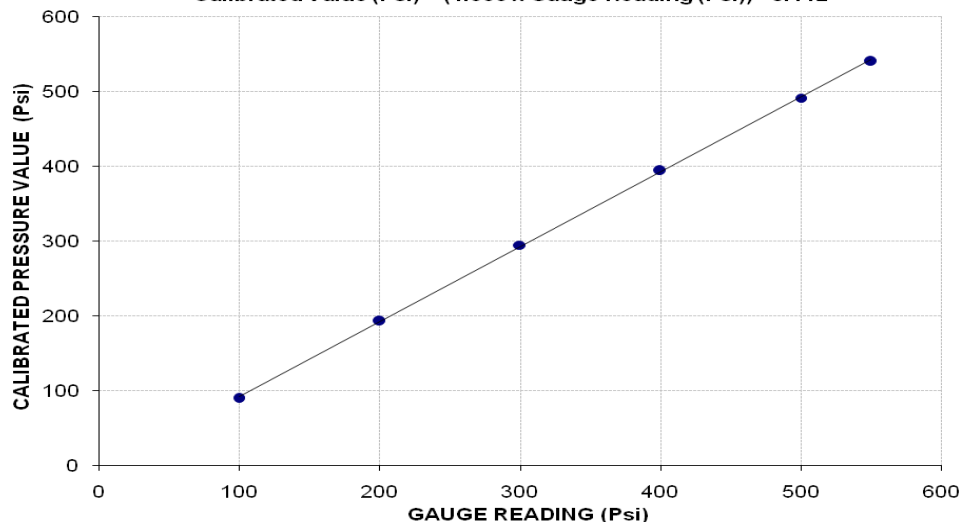
Total Range : Zero - 600 (Psi)
Calibrated Range : Zero - 550 (Psi)

Pressure Gauge Reading (Psi)	100	200	300	400	500	550
Calibrated Load (kg)	1240	2680	4100	5480	6840	7520
Calibrated Pressure (Psi)	89.07	192.51	294.52	393.65	491.34	540.19

The Ram Area of Calibration = 198 cm²

Calibration Curve for Pressure Gauge # A

Calibrated Value (Psi) = (1.000 x Gauge Reading (Psi)) - 8.442



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

Ref: CED/TFL/02/34630

Dated: 07-02-2020

Dated of Test: 10-02-2020

To
M/S NUCON Engineering
DHA Business Hub, Lahore

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/34630)** (Page – 2/2)

Reference to your Letter No. Nil, dated: 07/02/2020 on the subject cited above. One Pressure Gauge No. B as received by us has been calibrated. The results are tabulated as under:

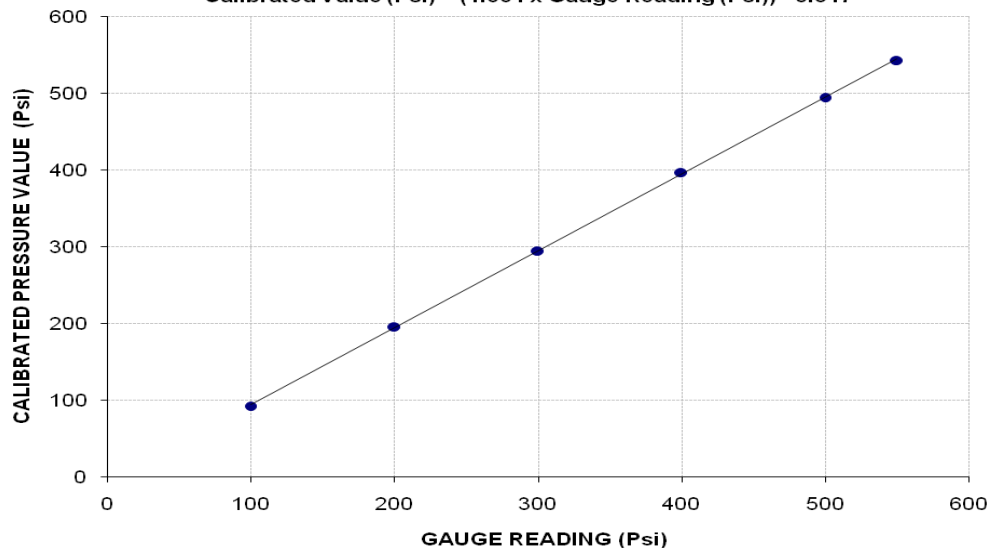
Total Range : Zero - 600 (Psi)
Calibrated Range : Zero - 550 (Psi)

Pressure Gauge Reading (Psi)	100	200	300	400	500	550
Calibrated Load (kg)	1280	2720	4100	5520	6880	7560
Calibrated Pressure (Psi)	91.95	195.39	294.52	396.52	494.21	543.06

The Ram Area of Calibration = 198 cm²

Calibration Curve for Pressure Gauge # B

Calibrated Value (Psi) = (1.001 x Gauge Reading (Psi)) - 6.317



I/C Testing Laboratories
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,
M/S Defence Housing Authority.
Lahore Cantt
(Construction of Business Hub, DHA Ph-VIII - (M/s NUCON)

Reference # CED/TFL **34632** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/816/0019

Dated: 07-02-2020
Dated: 03-01-2020

Size Test Report (Page – 1/1)
Date of Test 10-02-2019
Gauge length -----
Description G.I Sheet Size Test

Sr. No.	Designation	Measured Diameter	Remark
	(Swg)	(mm)	
1	20	1.00	
2	22	0.80	
3	24	0.58	
4	26	0.50	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Four Samples for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
Engineer's Representative
NESPAK
Construction of Pakistan Kidney & Liver Institute and Research Center, Lahore Hospital
Package C-I, Phase – I

Reference # CED/TFL **34633** (Dr. Qasim Khan) Dated: 07-02-2020
Reference of the request letter # 3836/13/AA/10/C-1-MEP-FF-MTR-54 Dated: 30-01-2020

Weight & Size Test Report (Page – 1/1)

Date of Test 10-02-2020
Gauge length -----
Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	1-1/2	1282	306.60	4.18	48.00	40.40	3.80	
2	2	1662	305.3	5.44	60.40	52.60	3.90	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for 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
Pakistan. Ph: 92-42-99029202

To,
 Project Manager
 Guarantee Engineers (Pvt) Ltd
 Construction of ETP at US & Dynamo Mills (Pvt) Ltd

Reference # CED/TFL **34634** (Dr. Qasim Khan)
 Reference of the request letter # ETP/GE/2020/ME/02

Dated: 07-02-2020
 Dated: 07-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020

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	0.426	10	10.14	0.12	0.125	4100	5350	75324	72170	98288	94200	1.20	15.0	
2	0.428	10	10.17	0.12	0.126	4000	5350	73487	70090	98288	93800	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:

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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,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan
 (Heat No. P-26 - Kamran Steel)

Reference # CED/TFL **34636** (Dr. Qasim Khan) Dated: 07-02-2020
 Reference of the request letter # DB-78/DAR/RE/ME/2019/0214 Dated: 07-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020

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	0.380	3	0.377	0.11	0.112	3400	4900	68200	67150	98200	96800	1.10	13.8	
2	0.367	3	0.371	0.11	0.108	3300	4800	66200	67390	96200	98100	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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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 C.M Sectt;
 Lahore
 (Construction of 3-Nos Houses in Place of 4-College Road in GOR-I, Lahore)

Reference # CED/TFL **34638** (Dr. Qasim Khan)
 Reference of the request letter # SDO/CMS/1004

Dated: 07-02-2020
 Dated: 28-01-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020
 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	0.374	3/8	0.374	0.11	0.110	3000	4300	60200	60100	86200	86200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **34641** (Dr. Qasim Khan)
 Reference of the request letter # ST/UET/20200210-B

Dated: 10-02-2020
 Dated: 10-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020
 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	0.110	3300	4800	66200	65860	96200	95800	1.50	18.8	Moiz Steel
2	0.373	3	0.374	0.11	0.110	3200	4800	64200	64340	96200	96600	1.50	18.8	
3	0.368	3	0.371	0.11	0.108	3200	4750	64200	65220	95200	96800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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
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Pakistan. Ph: 92-42-99029202

To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **34642** (Dr. Qasim Khan)
 Reference of the request letter # ST/UET/20200210-A

Dated: 10-02-2020
 Dated: 10-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-02-2020
 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	0.364	3	0.369	0.11	0.107	3400	4900	68200	70130	98200	101100	0.90	11.3	Batala Premium
2	0.374	3	0.374	0.11	0.110	3100	4500	62200	62210	90200	90300	1.30	16.3	
3	0.371	3	0.373	0.11	0.109	3300	5150	66200	66640	103200	104000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

Witness by Muhammad Usman (Site Supervisor) & Saqib Hussain (QC Manager Batala Steel)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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