



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

To,

Asst. Resident Engineer
 Rehman Habib Consultants Pvt Ltd.
 Construction / Renovation of 17 Centers of Excellence (COEs) in Existing TEVTA &
 PVTC Institutes in Punjab Province Under Improving Workforce Readiness in Punjab
 Project (IWRPP).

Government College of Technology (GCT), Samnabad, Faisalabad

Reference # CED/TFL **6215** (Dr. M Rizwan Riaz)

Dated: 23-12-2024

Reference of the request letter # COE/RHC/MLT/24/026

Dated: 20-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in²)		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	0.374	3	0.374	0.11	0.110	3940	4990	79000	78910	100000	100000	1.00	12.5	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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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,
 HIGH-Q
 Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **6221** (Dr. M Rizwan Riaz)
 Reference of the request letter # QC/HQ/CIVIL/252

Dated: 24-12-2024
 Dated: 24-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.410	10	9.96	0.12	0.121	3790	5200	69629	69240	95533	95000	1.00	12.5	
2	0.407	10	9.92	0.12	0.120	3790	5150	69629	69750	94614	94800	1.30	16.3	
3	4.189	32	31.80	1.25	1.231	38600	53000	68078	69090	93475	94900	1.70	21.3	
4	4.136	32	31.60	1.25	1.216	41800	54600	73722	75780	96297	99000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and one sample for bend test														
Bend Test														
10mm Bar Bend Test Through 180° is Satisfactory														
32mm Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Assistant Director-II (QCD)
WASA, LDA, Lahore.
(M/s Hammad RCC Pipe Factory).

Reference # CED/TFL **6224** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/2580

Dated: 24-12-2024
Dated: 20-12-2024

Tension Test Report (Page -1/2)

Date of Test 27-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.172	5/32	0.254	-----	0.050	1450	1830	-----	63300	-----	79900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
5/32" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Test Floor Laboratory
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To,

Assistant Director-II (QCD)
WASA, LDA, Lahore.
(M/s Hammad RCC Pipe Factory).

Reference # CED/TFL **6224** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/2578

Dated: 24-12-2024
Dated: 20-12-2024

Tension Test Report (Page -2/2)

Date of Test 27-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

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	0.365	3	0.369	0.11	0.107	3840	4660	77000	78970	93400	95900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

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STRUCTURAL ENGINEERING DIVISION
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Ref: CED/TFL/12/6228
Dated of Test: 27-12-2024

Dated: 26-12-2024

To,
Material Engineer
Kohistan Enclave
Construction of Bridge 2 Kohistan Enclave Wah.

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/12/6228) (Page -1/2)

Reference to your Letter No. KBD/KE/QA-QC/80, Dated: 25/12/2024 on the subject cited above. One Pressure Gauge No. AES-313 as received by us has been calibrated. The results are tabulated as under:

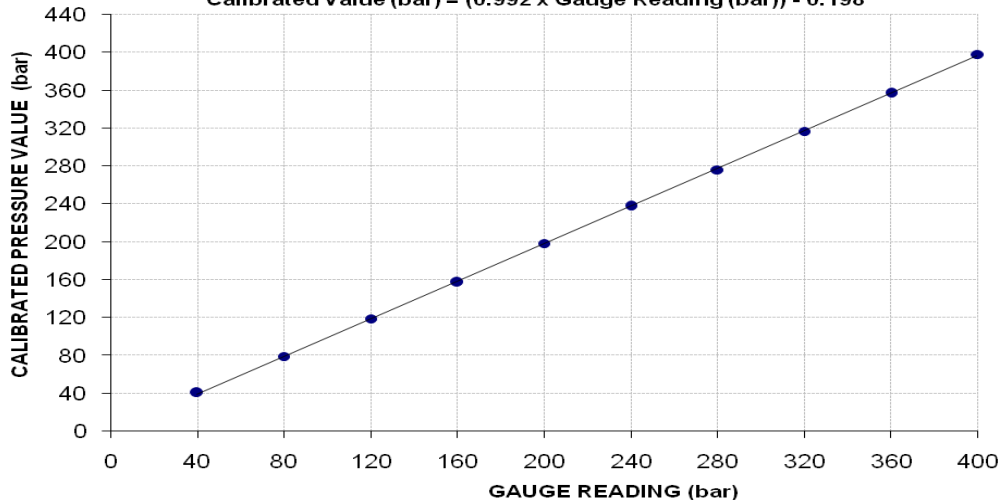
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 400 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360	400
Calibrated Load (kg)	8200	16000	24000	31800	40100	48000	55800	64000	72100	80400
Calibrated Pressure (bar)	41	79	119	158	199	238	276	317	357	398

The Ram Are use for Calibration = 198 cm²

Calibration Cure for Pressure Gauge No. AES 313

Calibrated Value (bar) = (0.992 x Gauge Reading (bar)) - 0.198



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/12/6228
Dated of Test: 27-12-2024

Dated: 26-12-2024

To,
Material Engineer
Kohistan Enclave
Construction of Bridge 2 Kohistan Enclave Wah.

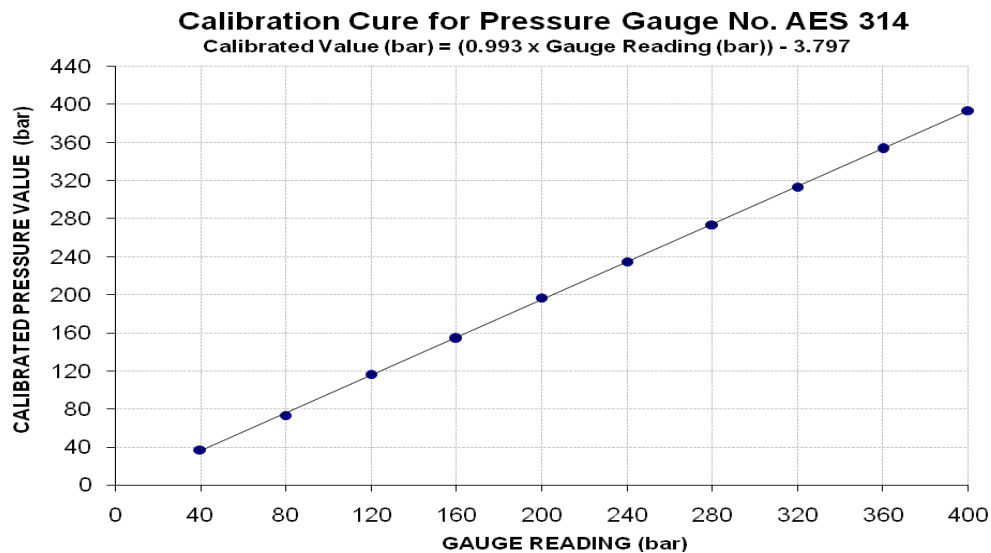
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/12/6228) (Page -2/2)

Reference to your Letter No. KBD/KE/QA-QC/80, Dated: 25/12/2024 on the subject cited above. One Pressure 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 - 400 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360	400
Calibrated Load (kg)	7500	14800	23500	31100	39700	47400	55300	63300	71400	79500
Calibrated Pressure (bar)	37	73	116	154	197	235	274	314	354	394

The Ram Are use for Calibration = 198 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,

M/S Ittefaq Building Solutions Pvt. Ltd.
Lahore
(Diamond Denim by Sapphire, Ferozewattwan)

Reference # CED/TFL **6230** (Dr. M Rizwan Riaz)
Reference of the request letter # IBS/SD/ST

Dated: 26-12-2024
Dated: 24-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024
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	0.376	3	0.375	0.11	0.111	3620	4790	72600	72120	96000	95500	1.20	15.0	Sheikhoo Steel
2	0.375	3	0.375	0.11	0.110	3620	4790	72600	72380	96000	95800	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 Laboratories
UET Lahore, Pakistan.

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To,
 Project Manager
 Izhar Construction (Pvt) Ltd.
 OMBRe' Holding Pvt Ltd Raiwind, Lahore.

Reference # CED/TFL **6235** (Dr. M Rizwan Riaz)
 Reference of the request letter # OMBRe'/Mughal/Steel/017

Dated: 26-12-2024
 Dated: 26-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.405	10	9.89	0.12	0.119	4540	5470	83407	84010	100493	101300	1.00	12.5	Mughal Steel
2	0.407	10	9.91	0.12	0.120	4400	5350	80835	81040	98288	98600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
Procurement Manager
Q-Links Property Construction Pvt. Ltd.
Construction of Safari Home Bahria Orchard Lahore.

Reference # CED/TFL **6236** (Dr. M Rizwan Riaz)
Reference of the request letter # Qlinks06

Dated: 26-12-2024
Dated: 26-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024
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	0.385	3	0.379	0.11	0.113	3570	5270	71600	69610	105600	102800	1.00	12.5	
2	0.385	3	0.379	0.11	0.113	3470	5220	69600	67660	104600	101800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Project Manager
 DSG Energy
 Construction of Office Building at 29-M QIE, Lahore.

Reference # CED/TFL **6239** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 27-12-2024
 Dated: 27-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024
 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	0.369	3	0.371	0.11	0.108	3570	4690	71600	72640	94000	95500	1.10	13.8	Hunza Steel
2	0.370	3	0.372	0.11	0.109	3620	4690	72600	73330	94000	95100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,

Resident Engineer
 NESPAK

Relocation and Enhancement of the Flag Pole at Wagha Border, Lahore.

Reference # CED/TFL **6241** (Dr. M Rizwan Riaz)
 Reference of the request letter # 4749/031/YK/01/112

Dated: 27-12-2024
 Dated: 26-12-2024

Tension Test Report (Page -1/1)

Date of Test 27-12-2024

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	5.363	11	1.417	1.56	1.576	48400	72000	68400	67680	101800	100700	1.50	18.8	Kamran Steel
2	5.195	11	1.394	1.56	1.527	47000	69400	66500	67850	98100	100200	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

Witness by Muhammad Uzair (Associates Engineer)

I/C Testing Laboratories
UET Lahore, Pakistan.

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