



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/11/2292

Dated: 16-11-2022

Date of Test: 17-11-2022

To,

Managing Director
Birudo Engineers

Establishment of University of Applied Engineering and Emerging Technologies (UAEET), Sambrial, Sialkot

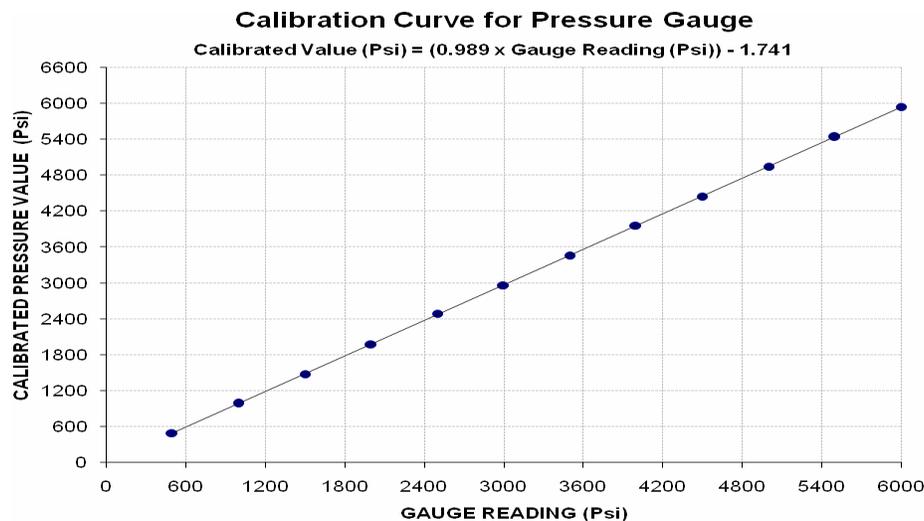
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/2292) (Page # 1/1)

Reference to your Letter No. BE/2022/291, Dated: 15/11/2022 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Pressure Gauge Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Calibrated Load (kg)	6900	13700	20600	27500	34600	41200	48200	55100	61900	68800	75700	82700
Calibrated Pressure (Psi)	496	984	1480	1975	2485	2960	3462	3958	4446	4942	5438	5941

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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Ref: CED/TFL/11/2293

Dated: 16-11-2022

Dated of Test: 17-11-2022

To

Resident Engineer
NESPAK

Provision of Cricket High Performance Centre at Divisional Head Quarter
Faisalabad

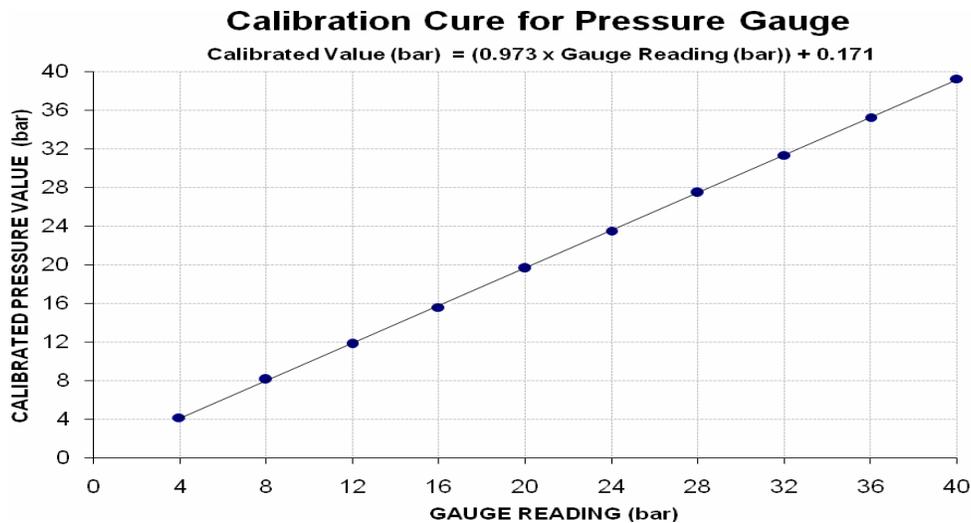
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/2293)** (Page # 1/1)

Reference to your Letter No. 4314/13/SA/07/140, Dated: 12/11/2022 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (bar)
Calibrated Range : Zero - 40 (bar)

Pressure Gauge Reading (bar)	4	8	12	16	20	24	28	32	36	40
Calibrated Load (kg)	840	1640	2380	3140	3960	4740	5540	6320	7120	7920
Calibrated Pressure (bar)	4.16	8.12	11.79	15.55	19.61	23.48	27.44	31.30	35.27	39.23

The Ram Area of Calibration = 198 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,

Sub Divisional Officer
 Buildings Sub-Division
 Pattoki

(Revamping/Provision of Additional Facilities at Govt. Degree College Phool Nagar for
 Girls Tehsil Pattoki District Kasur)

Reference # CED/TFL **2294** (Dr. Usman Akmal)
 Reference of the request letter # 29/P

Dated: 16-11-2022
 Dated: 28-08-2022

Tension Test Report (Page -1/1)

Date of Test 17-11-2022
 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	0.396	3/8	0.385	0.11	0.116	4900	5800	98200	92710	116300	109800	0.80	10.0	
2	0.397	3/8	0.385	0.11	0.117	4900	5800	98200	92640	116300	109700	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Manager Civil
 CFPP & Soap Noodle Plant
 Sitara Chemical Faisalabad
 Construction of Warehouse

Reference # CED/TFL **2296** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 16-11-2022
 Dated: 15-11-2022

Tension Test Report (Page -1/1)

Date of Test 17-11-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)		Ultimate Stress (MPa)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.613	10	9.97	79.00	78.06	4200	6000	522	528	745	754	0.9	11.3	FF Steel
2	0.612	10	9.97	79.00	77.99	4200	5900	522	528	733	742	0.9	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
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 NESPAK
 Construction and Maintenance Works in Quaid-e-Azam Business Park (QABP)
 Sheikhpura for 2021-22/23

Reference # CED/TFL **2297** (Dr. Usman Akmal)

Dated: 16-11-2022

Reference of the request letter # 4163/11/MY/01/08

Dated: 02-11-2022

Tension Test Report (Page -1/1)

Date of Test 17-11-2022

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	0.361	3	0.367	0.11	0.106	3700	4800	74200	76950	96200	99900	1.20	15.0	S/ Steel
2	0.360	3	0.367	0.11	0.106	3700	4900	74200	77080	98200	102100	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.

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To,
 Chief Technical Officer
 Sheikho Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2298** (Dr. Usman Akmal)
 Reference of the request letter #Nil

Dated: 17-11-2022
 Dated: 17-11-2022

Tension Test Report (Page -1/2)

Date of Test 17-11-2022
 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	0.362	3	0.368	0.11	0.106	3000	4200	60200	62160	84200	87100	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

Witness by Nadeen Faisal (Manager Q/C) and Saima Munir (AM Q/C)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Chief Technical Officer
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2298** (Dr. Usman Akmal)
 Reference of the request letter #Nil

Dated: 17-11-2022
 Dated: 17-11-2022

Tension Test Report (Page -2/2)

Date of Test 17-11-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.409	10	9.94	0.12	0.120	4000	5000	73487	73370	91858	91800	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

Witness by Nadeen Faisal (Manager Q/C) and Saima Munir (AM Q/C)

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