



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

To,
 Quantity Surveyor
 Linker Developers (Pvt) Ltd
 Construction of Ware House at US Apparel & Textile – Unit # 3 & 4

Reference # CED/TFL **37296, 300** (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 02-11-2021
 Dated: 02-11-2021

Tension Test Report (Page -1/1)

Date of Test 10-11-2021
 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	0.390	10	9.70	0.12	0.115	4740	5710	87082	91130	104902	109800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Muhammad Abdullah Abid (Client Engineer, US Apparel)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Ref: CED/TFL/11/37319

Dated: 08-11-2021

Date of Test: 10-11-2021

To,
Project Manager
Zameen ACE Mall DHA - II Islamabad

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/37319)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 05/11/2021 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

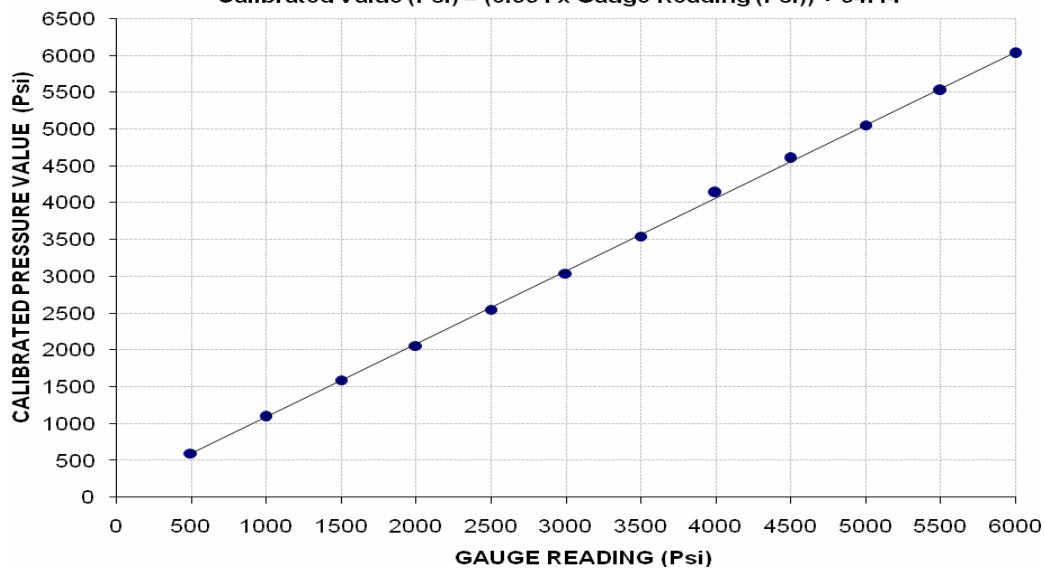
Total Range : Zero - 15000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Hydraulic Jack Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Calibrated Load (kg)	8300	15200	22200	28600	35500	42300	49300	57600	64100	70300	76900	83900
Calibrated Pressure (Psi)	596	1092	1595	2054	2550	3039	3541	4138	4605	5050	5524	6027

The Ram Area of Jack = 198 cm²

Calibration Curve for Pressure Gauge

Calibrated Value (Psi) = (0.991 x Gauge Reading (Psi)) + 94.14



I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
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Ref: CED/TFL/11/37322

Dated: 08-11-2021

Dated of Test: 10-11-2021

To
Deputy Director (QCD)
Water & Sanitation Agency
Faisalabad
(M/s Madina RCC Pipe Manufacturing Factory Jaranwala Road, Faisalabad)

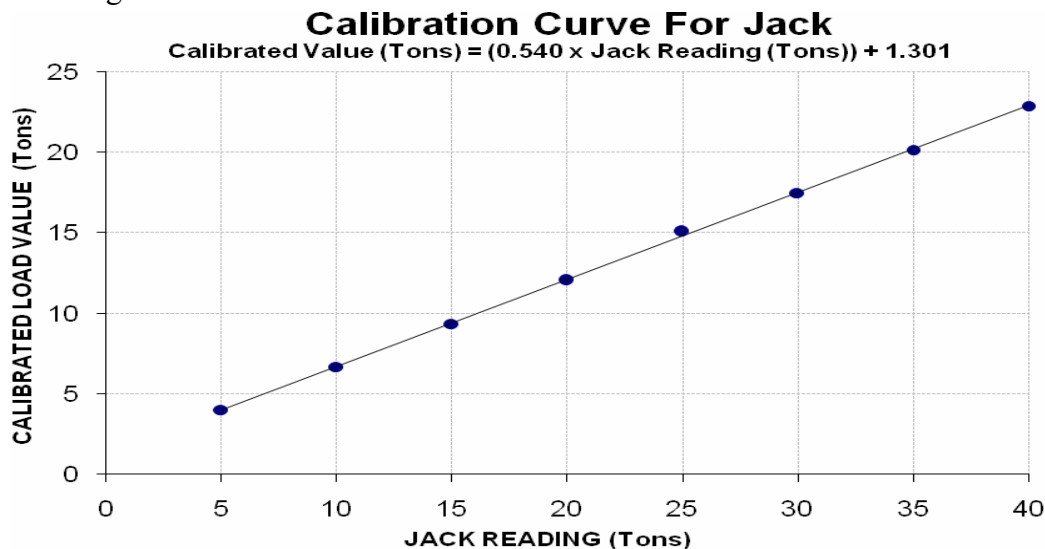
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/11/37322)

Reference to your Letter No. 470-474/DD(QCD)/WASA/2021, Dated: 18/09/2021 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 - 50 (Ton)
Calibrated Range : Zero - 40 (Ton)

Hydraulic Jack Reading (Ton)	5	10	15	20	25	30	35	40
Calibrated Load (kg)	3650	6050	8500	10950	13700	15900	18300	20800
Calibrated Load (Ton)	4.02	6.66	9.36	12.06	15.09	17.51	20.15	22.90

1000 Kg = 1.1011 Ton



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
Mascon Associates (Pvt) Ltd
HA Consulting
Construction of Model Bazar Mianwali

Reference # CED/TFL **37331** (Dr. M Rizwan Riaz)
Reference of the request letter # HAC-MAS/RE/134

Dated: 09-11-2021
Dated: 02-11-2021

Tension Test Report (Page – 1/1)

Date of Test 10-11-2021
Gauge length 2 inches
Description Sheet Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	8	26.10x7.80	203.58	7600	11000	366	530	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratories
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Ref: CED/TFL/11/37332

Dated: 09-11-2021

Dated of Test: 10-11-2021

To
Engineer's Representative
NESPAK

Construction of Additional Block at Pakistan Engineering Council (PEC)
Headquarters, G-5/2, Islamabad

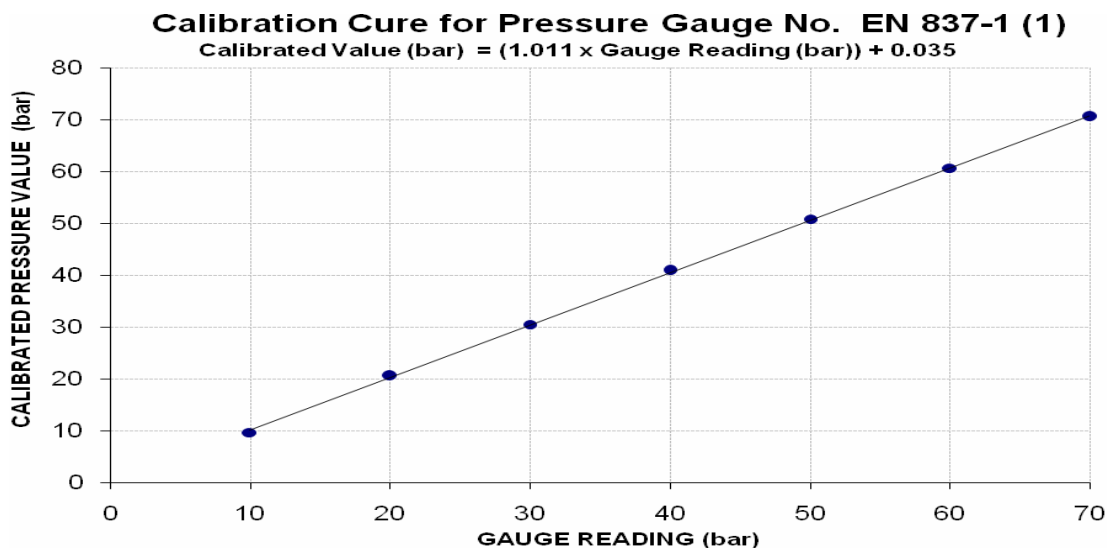
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/37332)** (Page # 1/2)

Reference to your Letter No. 4125/321/NS/03/244, Dated: 03/11/2021 on the subject cited above. One Pressure Gauge No. EN 837-1 (1) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 100 (MPa)
Calibrated Range : Zero - 70 (MPa)

Hydraulic Jack Reading (MPa)	10	20	30	40	50	60	70
Calibrated Load (kg)	1950	4150	6150	8250	10250	12250	14250
Calibrated Pressure (Psi)	10	21	30	41	51	61	71

The Ram Area of Jack = 198 cm² (Witness by Muddassar Zafar (Senior Engr. NESPAK))



I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/11/37332

Dated: 09-11-2021

Dated of Test: 10-11-2021

To
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC)
Headquarters, G-5/2, Islamabad

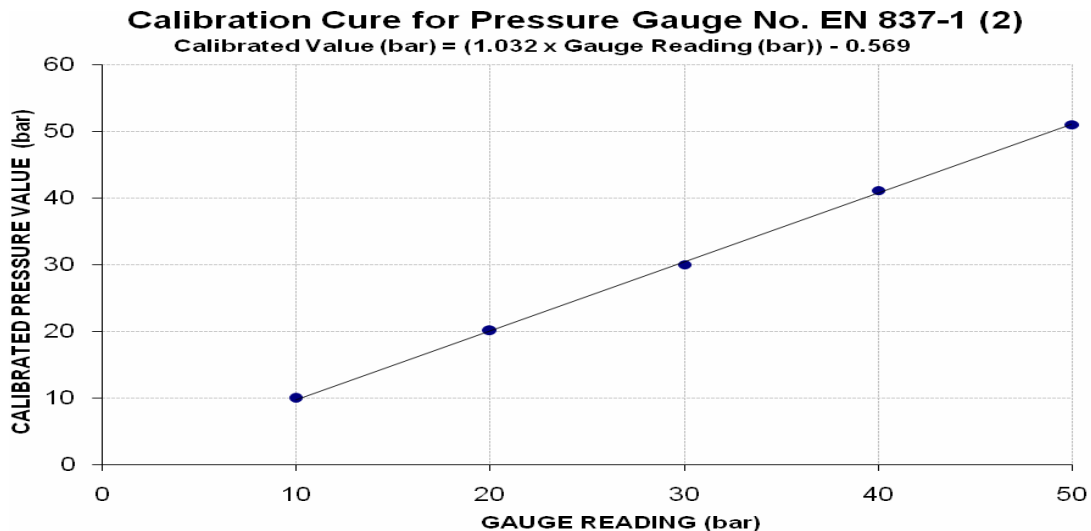
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/37332)** (Page # 2/2)

Reference to your Letter No. 4125/321/NS/03/244, Dated: 03/11/2021 on the subject cited above. One Pressure Gauge No. EN 837-1 (2) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 100 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	10	20	30	40	50
Calibrated Load (kg)	2000	4050	6050	8300	10300
Calibrated Pressure (Psi)	10	20	30	41	51

The Ram Area of Jack = 198 cm² (Witness by Muddassar Zafar (Senior Engr. NESPAK))



I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **37333** (Dr. Asad Ali)
Reference of the request letter # IHPL/Steel/0145

Dated: 09-11-2021
Dated: 08-11-2021

Tension Test Report (Page -1/1)

Date of Test 10-11-2021
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	3260	4560	65400	64840	91400	90700	1.40	17.5	PCS
2	0.386	3	0.380	0.11	0.113	3310	4660	66400	64340	93400	90600	1.30	16.3	
3	0.385	3	0.380	0.11	0.113	3430	4760	68800	66730	95400	92600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Engr. Ali Husnain Khan (Kingcreate Builders) & Rafi Ullah (IHPC)
To,

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Mansoor Iqbal
 Client Engineer
 Netsole Technology
 Amarah Ghauri Residence, House # 761-E, DHA Ph-6, Lahore

Reference # CED/TFL 37338 (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 10-11-2021
 Dated: 09-11-2021

Tension Test Report (Page -1/1)

Date of Test 10-11-2021
 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	5680	6270	113900	112850	125700	124600	0.60	7.5	
2	0.373	3	0.374	0.11	0.110	5600	6240	112300	112480	125100	125400	0.70	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
M/S Sun Engineers
Gujranwala
(Rehabilitation and Modernization of Islam Barrage)

Reference # CED/TFL **37341** (Dr. M Rizwan Riaz)
Reference of the request letter # MTC/01

Dated: 10-11-2021
Dated: 10-11-2021

Tension Test Report (Page – 1/1)

Date of Test 10-11-2021
Gauge length 2 inches
Description Mild Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	16	25.20x16.00	403.20	18000	20900	438	509	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
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To,
M/S Sun Engineers
Gujranwala
(Rehabilitation and Modernization of Islam Barrage)

Reference # CED/TFL 37342 (Dr. M Rizwan Riaz)
Reference of the request letter # MTC/01

Dated: 10-11-2021
Dated: 10-11-2021

Tension Test Report (Page – 1/1)

Date of Test 10-11-2021
Gauge length 2 inches
Description Mild Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	10.62	25.60x10.80	276.48	17300	19100	614	678	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

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