



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 S.A. Sheikh & Co
Lahore

Reference # CED/TFL **2065** (Dr. M Rizwan Riaz)
Reference of the request letter # SASheikh/WB-SMS/INSP09222

Dated: 04-10-2022

Dated: 04-10-2022

Tension Test Report (Page – 1/2)

Date of Test 11-10-2022
Gauge length 2 inches
Description 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Strip	25.40x8.50	215.90	8400	13100	382	595	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Reference of the request letter # SASheikh/WB-SMS/INSP09221

Dated: 04-10-2022

Dated: 04-10-2022

Tension Test Report (Page – 2/2)

Date of Test 11-10-2022
Gauge length 2 inches
Description 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Strip	25.50x6.70	170.85	6200	9800	356	563	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

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Ref: CED/TFL/10/2083, 2097

Dated: 07-10-2022

Dated of Test: 11-10-2022

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

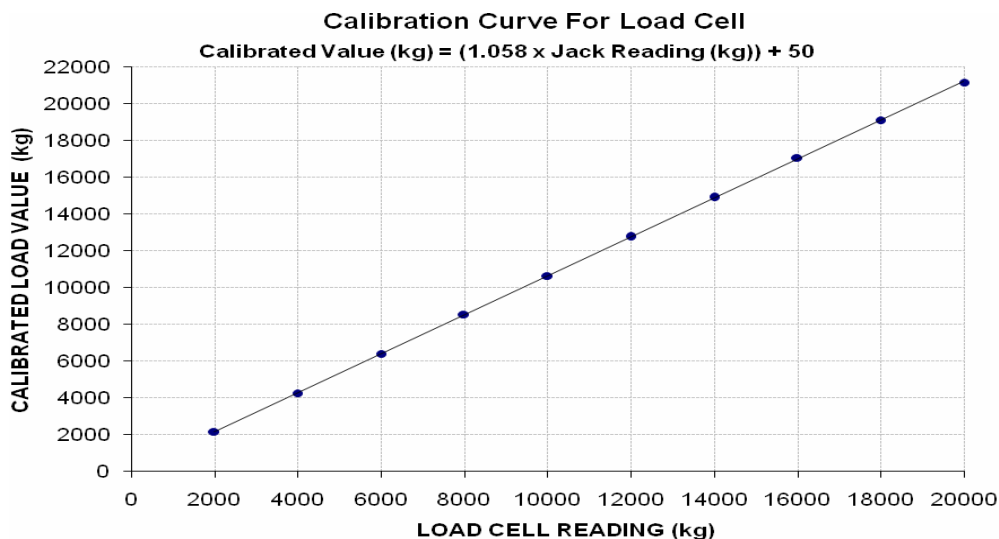
Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/10/2083) (Page -1/3)

Reference to your Letter No. 4125/321/NS/05/497, Dated: 05/10/2022 on the subject cited above. One Load Cell as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50000 (kg)
Calibrated Range : Zero - 20000 (kg)

Load Cell Reading (kg)	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000
Calibrated Load (kg)	2150	4250	6400	8550	10650	12750	14900	17050	19100	21150

Witness by Mudassar Zafar (Sr. Engr. NESPAK)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/10/2083, 2097

Dated: 07-10-2022

Dated of Test: 11-10-2022

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/09/2007)** (Page # 2/3)

Reference to your Letter No. 4125/321/NS/05/497, Dated: 05/10/2022 on the subject cited above. One Pressure Gauge No. 1 as received by us has been calibrated. The results are tabulated as under:

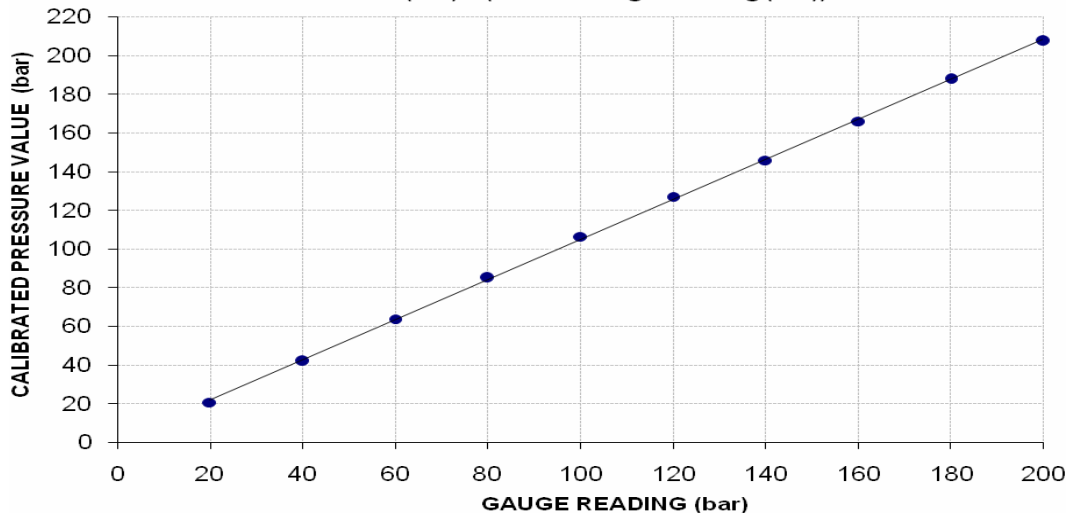
Total Range : Zero - 250 (bar)
Calibrated Range : Zero - 200 (bar)

Pressure Gauge Reading (bar)	20	40	60	80	100	120	140	160	180	200
Calibrated Load (kg)	4150	8450	12850	17150	21450	25600	29400	33500	37900	41850
Calibrated Pressure (bar)	20.56	41.85	63.65	84.94	106.24	126.80	145.62	165.93	187.72	207.28

The Ram Area of Calibration = 198 cm² Witness by Mudassar Zafar (Sr. Engr. NESPAK)

Calibration Curve for Pressure Gauge No. 1

Calibrated Value (bar) = (1.035 × Gauge Reading (bar)) + 1.205



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Ref: CED/TFL/10/2083, 2097

Dated: 07-10-2022

Dated of Test: 11-10-2022

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/09/2007)** (Page # 3/3)

Reference to your Letter No. 4125/321/NS/05/497, Dated: 05/10/2022 on the subject cited above. One Pressure Gauge No. 2 as received by us has been calibrated. The results are tabulated as under:

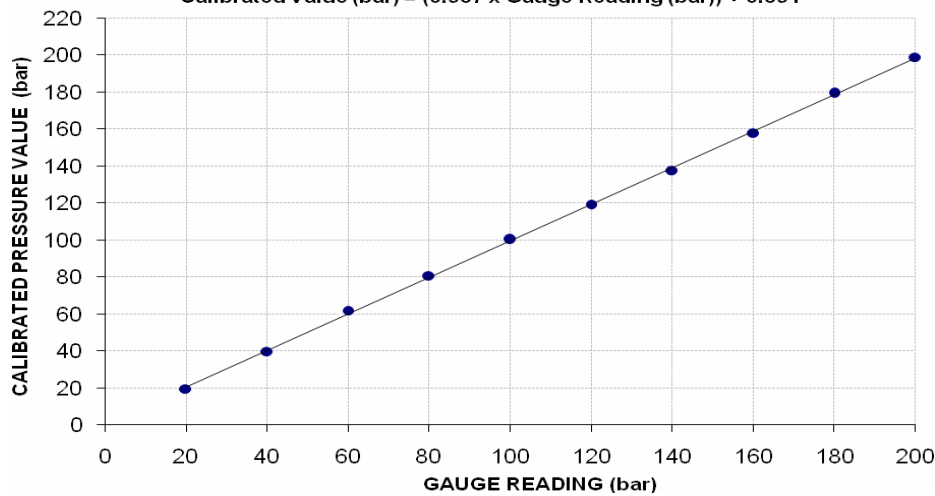
Total Range : Zero - 250 (bar)
Calibrated Range : Zero - 200 (bar)

Pressure Gauge Reading (bar)	20	40	60	80	100	120	140	160	180	200
Calibrated Load (kg)	3950	8050	12500	16300	20250	24100	27800	31900	36200	40150
Calibrated Pressure (bar)	19.56	39.87	61.91	80.73	100.30	119.37	137.69	158.00	179.30	198.86

The Ram Area of Calibration = 198 cm² Witness by Mudassar Zafar (Sr. Engr. NESPAK)

Calibration Curve for Pressure Gauge No. 2

Calibrated Value (bar) = (0.987 x Gauge Reading (bar)) + 0.891



I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 The Executive Engineer
 (Mega Projects) Division – I
 C & W Deptt. Bacah Khan Chowk, Peshawar

Reference # CED/TFL **2085** (Dr. M Rizwan Riaz)
 Reference of the request letter # 469/StdN/C&W

Dated: 07-10-2022
 Dated: 04-10-2022

Tension Test Report (Page -1/2)

Date of Test 11-10-2022
 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	0.374	3	0.374	0.11	0.110	3600	5000	72200	72200	100200	100300	1.30	16.3	Grad -60
2	0.375	3	0.374	0.11	0.110	3700	5000	74200	74060	100200	100100	1.20	15.0	
3	4.240	10	1.260	1.27	1.246	38000	52200	66000	67210	90600	92400	1.80	22.5	
4	4.250	10	1.261	1.27	1.249	38000	52400	66000	67050	91000	92500	1.80	22.5	
5	0.387	3	0.381	0.11	0.114	2600	3700	52100	50350	74200	71700	2.00	25.0	Grad-40
6	0.388	3	0.381	0.11	0.114	2600	3700	52100	50270	74200	71600	2.10	26.3	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 The Executive Engineer
 (Mega Projects) Division – I
 C & W Deptt. Bacah Khan Chowk, Peshawar

Reference # CED/TFL **2085** (Dr. M Rizwan Riaz)
 Reference of the request letter # 469/StdN/C&W

Dated: 07-10-2022
 Dated: 04-10-2022

Tension Test Report (Page -2/2)

Date of Test 11-10-2022
 Gauge length 2 inches
 Description Deformed Steel Bar Tensile and Bend Test as per BS-4449

Sr. No.	Weight (kg/m)	Diameter/ Size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)		Ultimate Stress (MPa)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.567	3	9.59	71.00	72.23	3600	4800	497	489	663	652	0.5	25.0	
2	0.570	3	9.61	71.00	72.56	3700	4800	511	500	663	649	0.6	30.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Project Manager
 Aitchison College, Lahore
 Staff Housing, Aitchison College, Lahore

Reference # CED/TFL **2091** (Dr. M Rizwan Riaz)
 Reference of the request letter # 1708

Dated: 10-10-2022
 Dated: 07-10-2022

Tension Test Report (Page -1/1)

Date of Test 11-10-2022
 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	0.380	3	0.377	0.11	0.112	3700	4900	74200	72940	98200	96600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 Manager Civil
 Nishat Mills Limited
 Dyeing & Finishing Plant, Lahore
 “Construction of Nishat Stitching Bath Division” Lahore

Reference # CED/TFL **2092** (Dr. M Rizwan Riaz)
 Reference of the request letter # NDF/ST/004

Dated: 10-10-2022
 Dated: 10-10-2022

Tension Test Report (Page -1/1)

Date of Test 11-10-2022
 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	0.416	10	10.02	0.12	0.122	3600	5100	66138	64900	93696	92000	1.50	18.8	Kamran Steel
2	0.417	10	10.03	0.12	0.122	3800	5200	69812	68410	95533	93700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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Ref: CED/TFL/10/2096

Dated: 11-10-2022

Dated of Test: 11-10-2022

To

Deputy Director (QCD)
Water and Sanitation Agency
Faisalabad
(M/s Waqas RCC Pipe Manufacturing Factory Dawoo Road, Near Sitra Sapna City, Faisalabad)

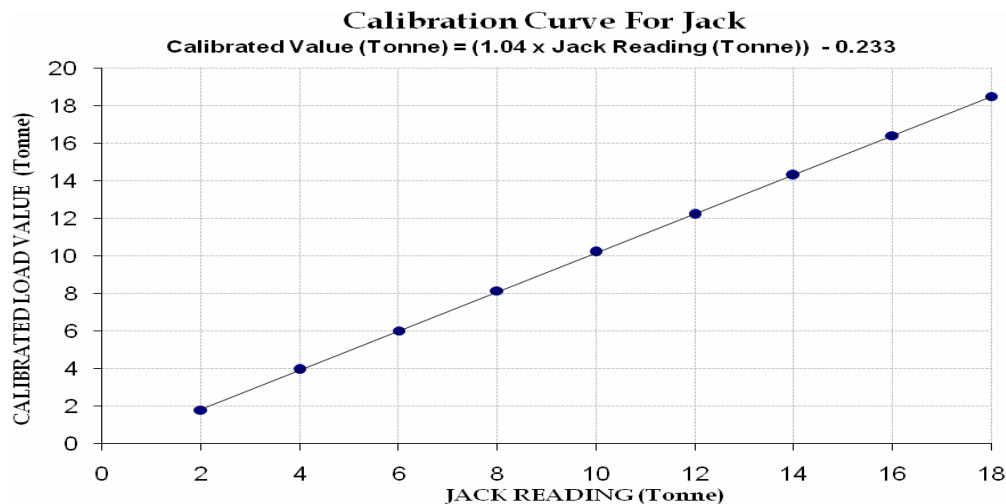
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/10/2096)

Reference to your Letter No. 122/DD (QCD)/WASA/2022, Dated: 01/10/2022 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 - 20 (Tonne)
Calibrated Range : Zero - 18 (Tonne)

Hydraulic Jack Reading (Tonne)		2	4	6	8	10	12	14	16	18
Calibrated Load	(kg)	1800	3950	6000	8150	10200	12200	14300	16400	18500
	(Tonne)	1.80	3.95	6.00	8.15	10.20	12.20	14.30	16.40	18.50

1000 kg = 1 Tonne



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