



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 Desen International Trade Company (Pvt) Ltd
Islamabad
(Optical Cable Renovation Project)

Reference # CED/TFL **35285** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 27-08-2020
Dated: 27-08-2020

Tension Test Report (Page – 1/1)

Date of Test 08-09-2020
Gauge length 2 inches
Description Pipe & Steel Plate 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)										
1	Pipe	76	24.20x5.00	121.00	4500	7000	364.83	567.52	0.60	30.00	
2			24.20x5.00	121.00	4500	6800	364.83	551.31	0.60	30.00	
3	Pipe	89	24.20x5.20	125.84	4300	5900	335.21	459.94	0.50	25.00	
4			24.20x5.20	125.84	4300	6000	335.21	467.74	0.50	25.00	
5	Pipe	114	24.20x5.10	123.42	4400	6200	349.73	492.81	0.50	25.00	
6			24.20x5.10	123.42	4500	6200	357.68	492.81	0.50	25.00	
7	Plate	300x300x8	24.20x8.00	193.60	5500	8300	278.69	420.57	0.80	40.00	
8			24.20x8.00	193.60	5500	8400	278.69	425.64	0.80	40.00	
Only Eight Sample for Tensile Test											
Bend Test											

I/C Testing Laboratoires
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Note:

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To,
M/S Al-Wahab Mills Store
Lahore

Reference # CED/TFL **35315** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 04-09-2020
Dated: 04-09-2020

Tension Test Report (Page – 1/1)

Date of Test 08-09-2020
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Angle Iron	1 ¹ / ₂ "x1 ¹ / ₂ "x4mm	16.20x4.00	64.80	2700	4300	408.75	650.97	0.30	15.00	
2			16.10x3.80	61.18	2600	4300	416.90	689.49	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Samples for Bend Test											
Bend Test											
Strip Taken from Angle Iron (1 ¹ / ₂ "x1 ¹ / ₂ "x4mm) Bend Test Through 180° is Satisfactory											

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Installation of Permanent Bore Sector-S, DHA Ph-IX)(M/s DHA Const Coy)(Bashir Pipe Industry)

Reference # CED/TFL **35318** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/966/03/Tube Well

Dated: 04-09-2020
Dated: 25-08-2020

Tension Test Report (Page – 1/1)

Date of Test 08-09-2020
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Pipe	18	27.40x6.10	167.14	6800	8800	399.11	516.50	0.60	30.00	
2			27.40x6.10	167.14	7300	9100	428.46	534.11	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Samples for Bend Test											
Bend Test											
Strip Taken from MS Pipe (18") Bend Test Through 180° is Satisfactory											

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Ref: CED/TFL/09/35321

Dated: 07-09-2020

Dated: 08-09-2020

To
M/S CGGC
Suki Kinari Project Management in Pakistan

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -1/12)

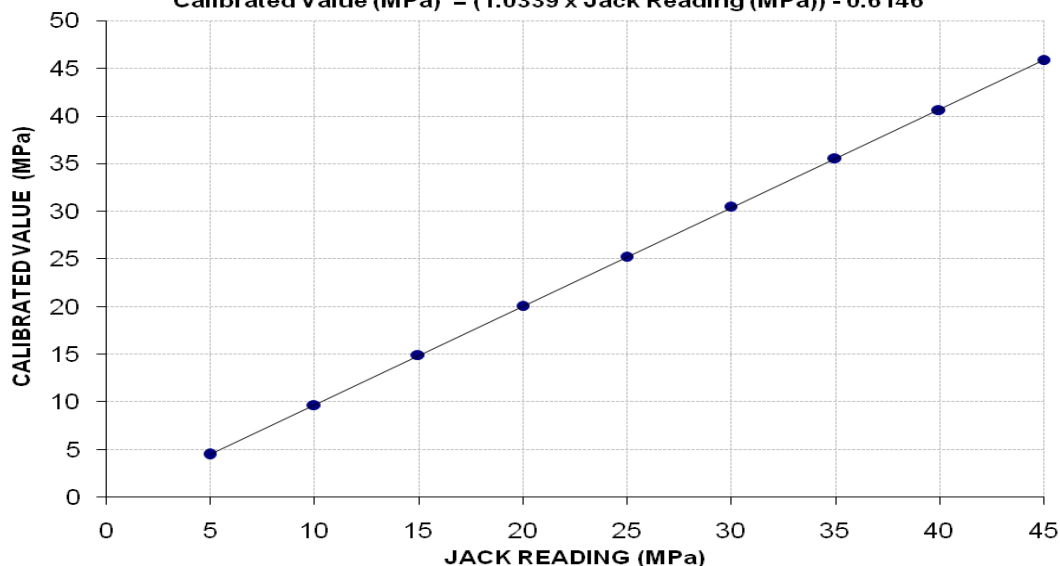
Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1436, Gauge No. 2863) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	13200	28600	44000	59200	74400	90000	104800	119800	135200
Calibrated Pressure (Mpa)	4.48	9.71	14.93	20.09	25.25	30.54	35.56	40.65	45.88

The Ram Area of Jack = 289 cm²

Calibration Curve For Jack No. 1436 (Gauge # 2863)
Calibrated Value (MPa) = (1.0339 x Jack Reading (MPa)) - 0.6146



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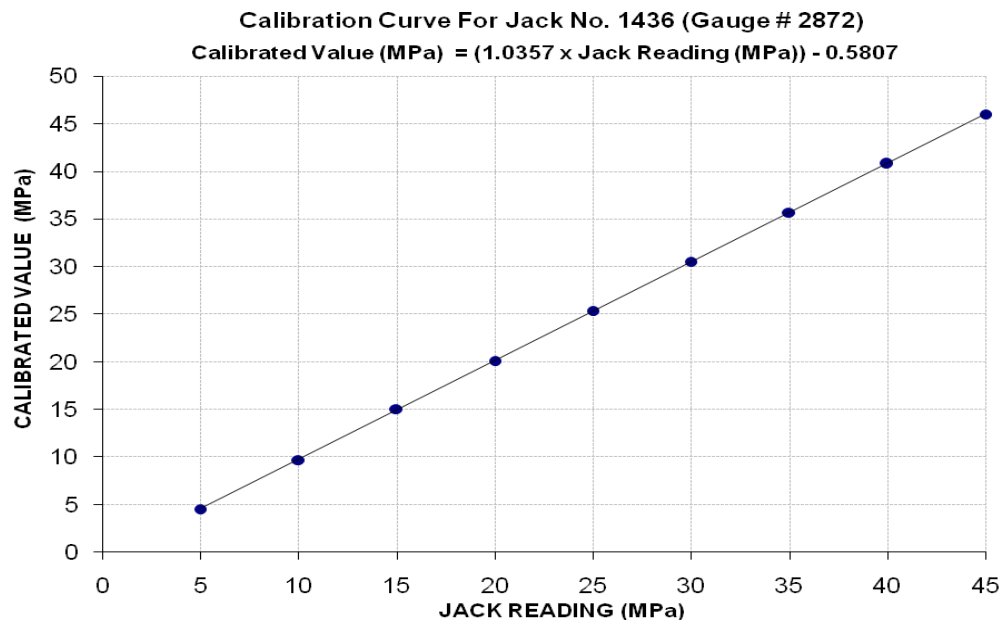
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -2/12)

Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1436, Gauge No. 2872) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	13400	28600	44400	59200	74800	90000	105200	120200	135500
Calibrated Pressure (Mpa)	4.55	9.71	15.07	20.09	25.38	30.54	35.70	40.79	45.98

The Ram Area of Jack = 289 cm²



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -3/12)

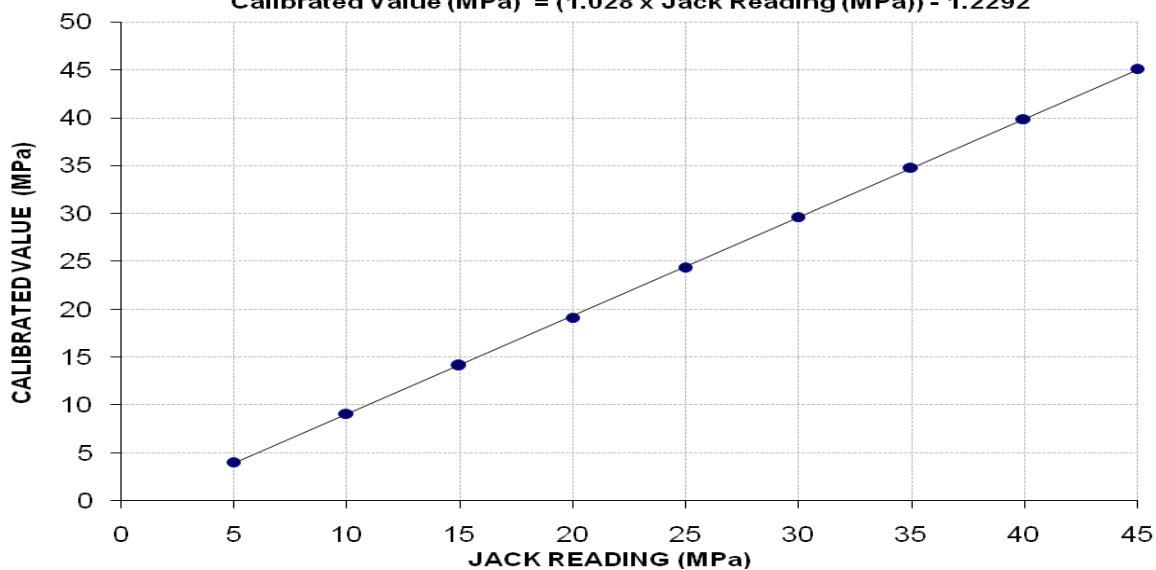
Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1436, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	12000	26800	41600	56400	71800	87400	102600	117400	133000
Calibrated Pressure (Mpa)	4.07	9.09	14.12	19.14	24.36	29.66	34.82	39.84	45.13

The Ram Area of Jack = 289 cm²

Calibration Curve For Jack No. 1436 (Gauge # 2694)
Calibrated Value (MPa) = (1.028 x Jack Reading (MPa)) - 1.2292



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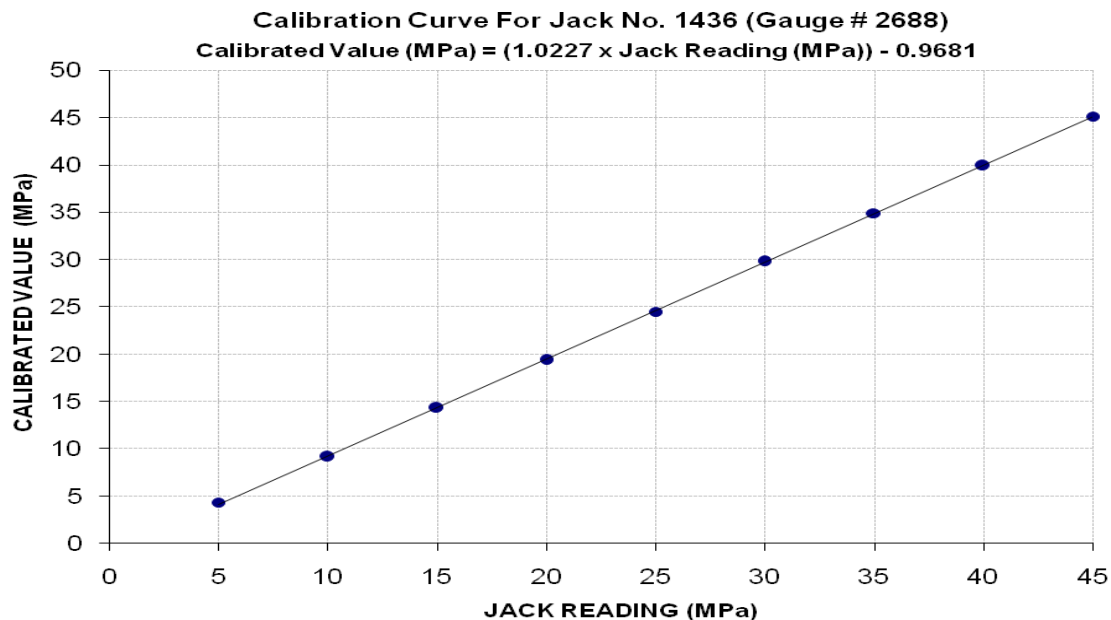
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -4/12)

Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1436, Gauge No. 2688) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	12800	27000	42200	57100	72200	87800	102800	117600	132900
Calibrated Pressure (Mpa)	4.34	9.16	14.32	19.38	24.50	29.79	34.88	39.91	45.10

The Ram Area of Jack = 289 cm²



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Dated: 08-09-2020

To
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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -5/12)

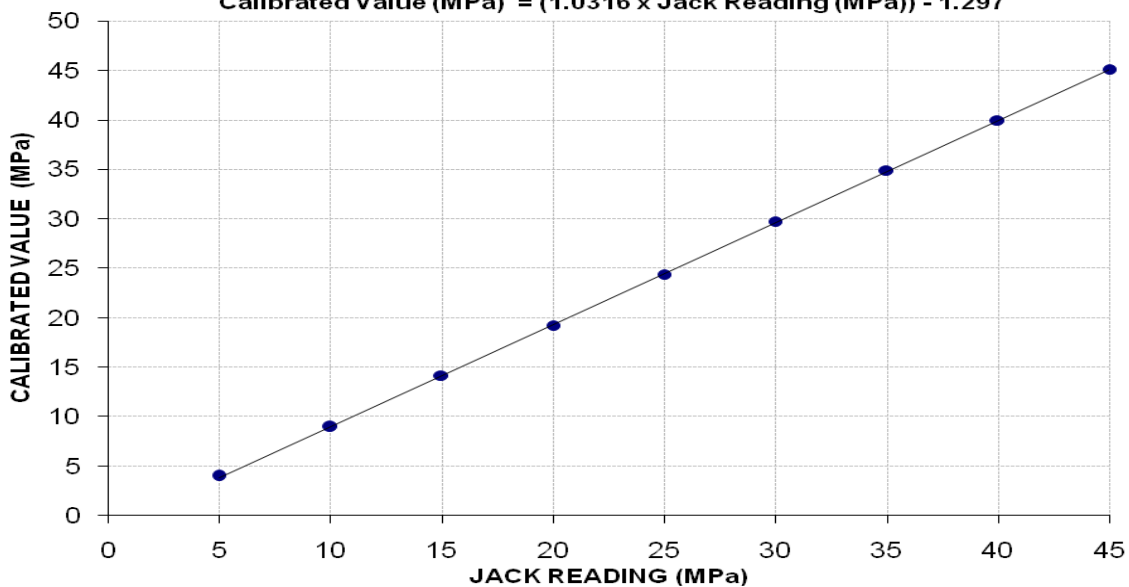
Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1493, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	11800	26400	41800	56600	71800	87600	102800	117800	133000
Calibrated Pressure (Mpa)	4.00	8.96	14.18	19.21	24.36	29.73	34.88	39.97	45.13

The Ram Area of Jack = 289 cm²

Calibration Curve For Jack No. 1493 (Gauge # 2694)
Calibrated Value (MPa) = (1.0316 x Jack Reading (MPa)) - 1.297



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Dated: 08-09-2020

To
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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -6/12)

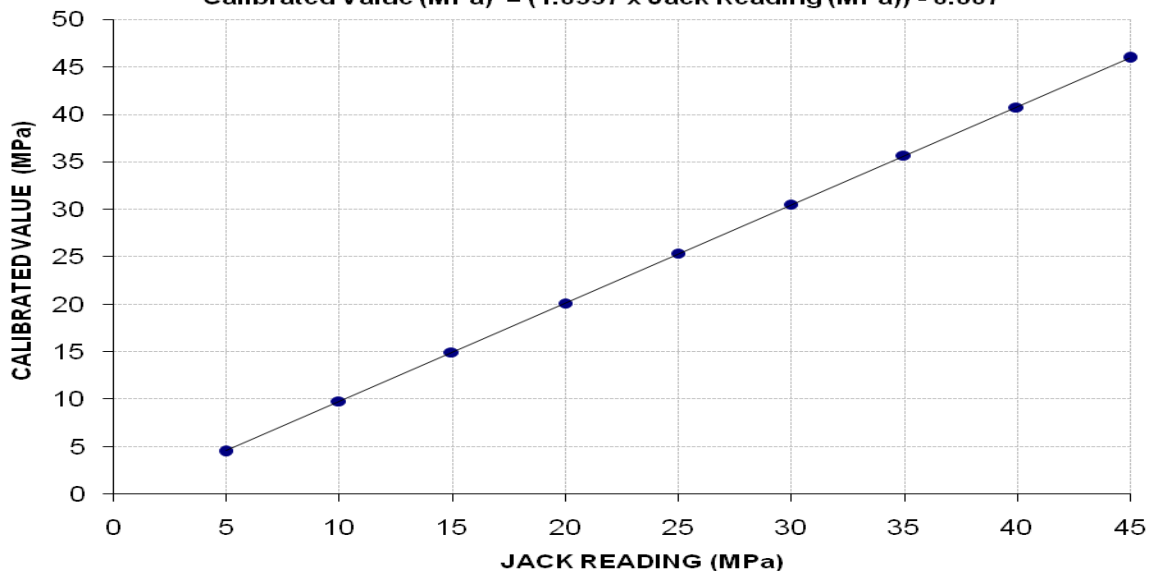
Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1493, Gauge No. 2872) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	13200	28800	44000	59200	74800	90000	105200	120000	135400
Calibrated Pressure (Mpa)	4.48	9.77	14.93	20.09	25.38	30.54	35.70	40.72	45.95

The Ram Area of Jack = 289 cm²

Calibration Curve For Jack No. 1493 (Gauge # 2872)
Calibrated Value (MPa) = (1.0357 x Jack Reading (MPa)) - 0.607



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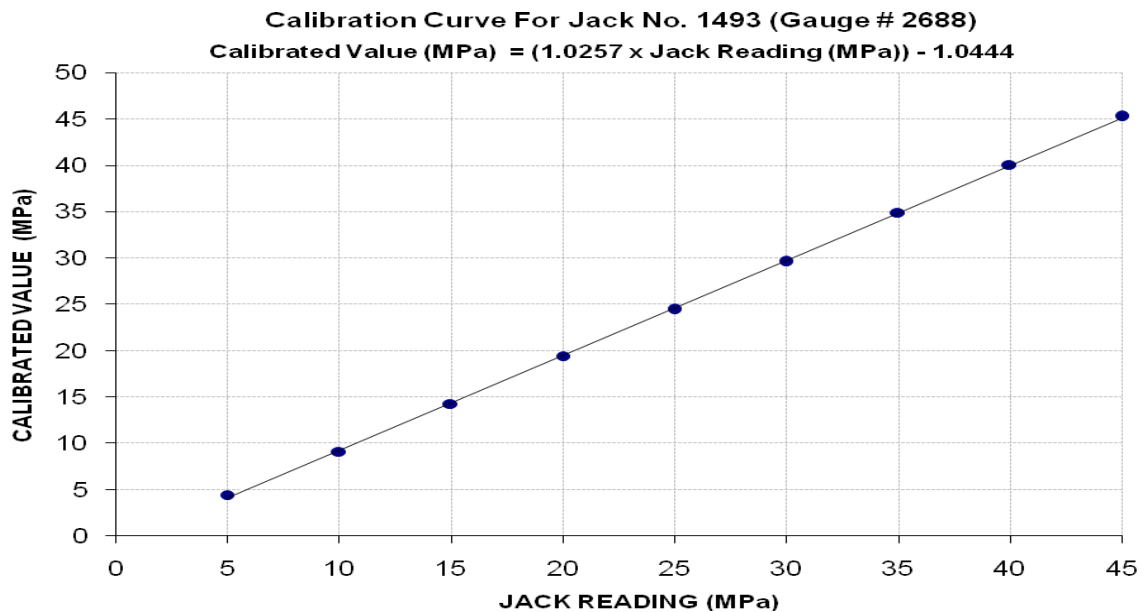
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -7/12)

Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1493, Gauge No. 2688) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	13000	26800	42000	57200	72000	87200	102800	118000	133400
Calibrated Pressure (Mpa)	4.41	9.09	14.25	19.41	24.43	29.59	34.88	40.04	45.27

The Ram Area of Jack = 289 cm²



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Dated: 08-09-2020

To
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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -8/12)

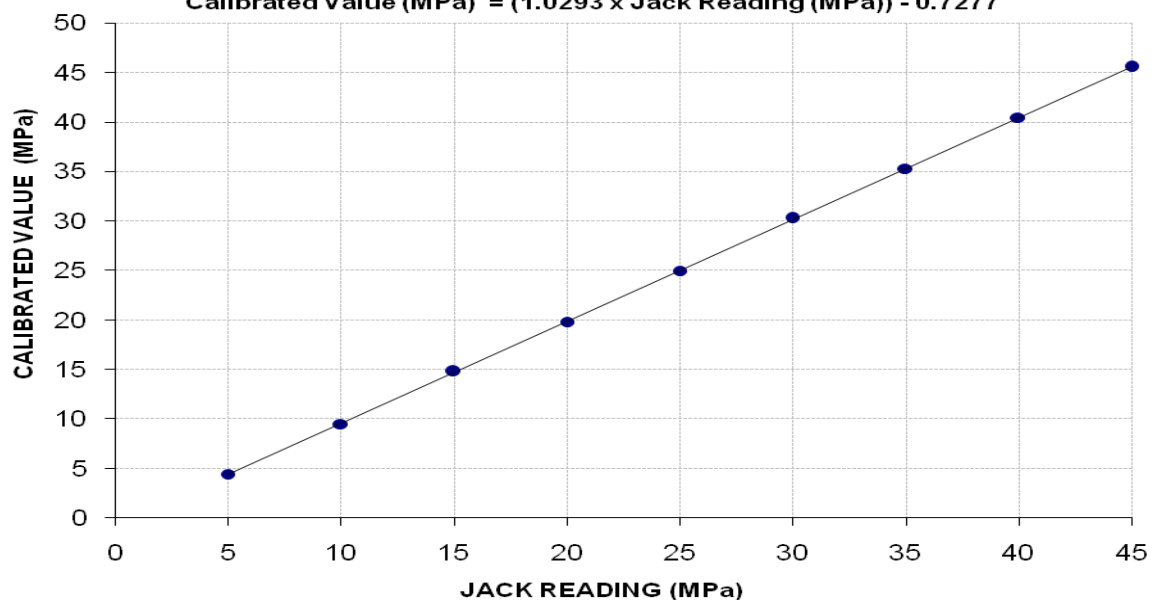
Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 1493, Gauge No. 2863) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	13000	28000	43600	58400	73600	89200	104000	119200	134200
Calibrated Pressure (Mpa)	4.41	9.50	14.80	19.82	24.98	30.27	35.29	40.45	45.54

The Ram Area of Jack = 289 cm²

Calibration Curve For Jack No. 1493 (Gauge # 2863)
Calibrated Value (MPa) = (1.0293 x Jack Reading (MPa)) - 0.7277



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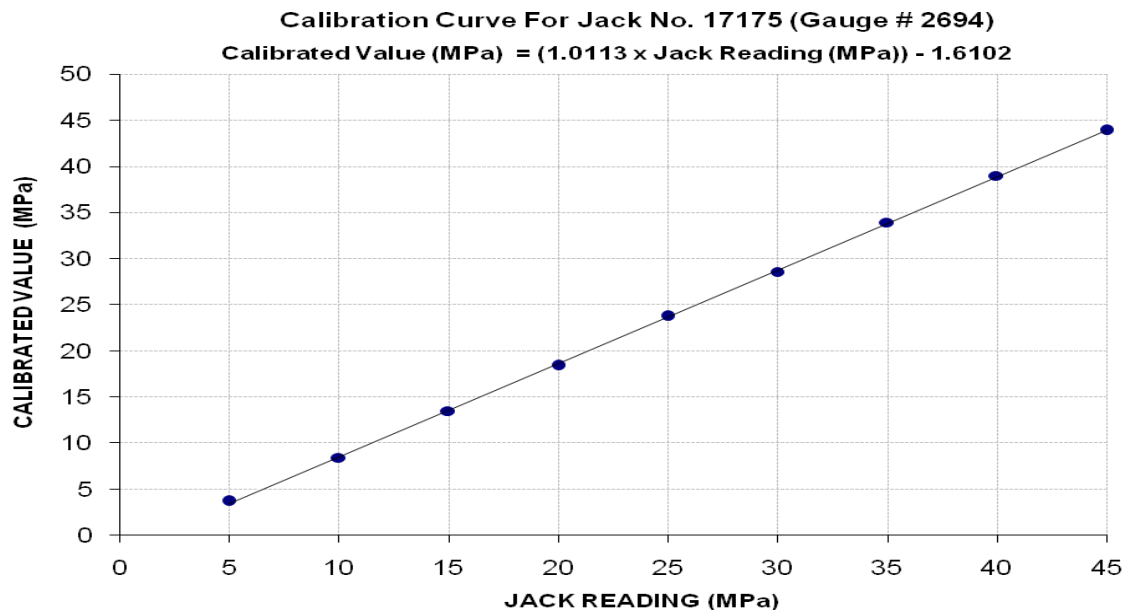
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page -9/12)

Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 17175, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	1800	4100	6550	8950	11550	13900	16500	18950	21350
Calibrated Pressure (Mpa)	3.70	8.43	13.46	18.40	23.74	28.57	33.92	38.95	43.89

The Ram Area of Jack = 47.71 cm²



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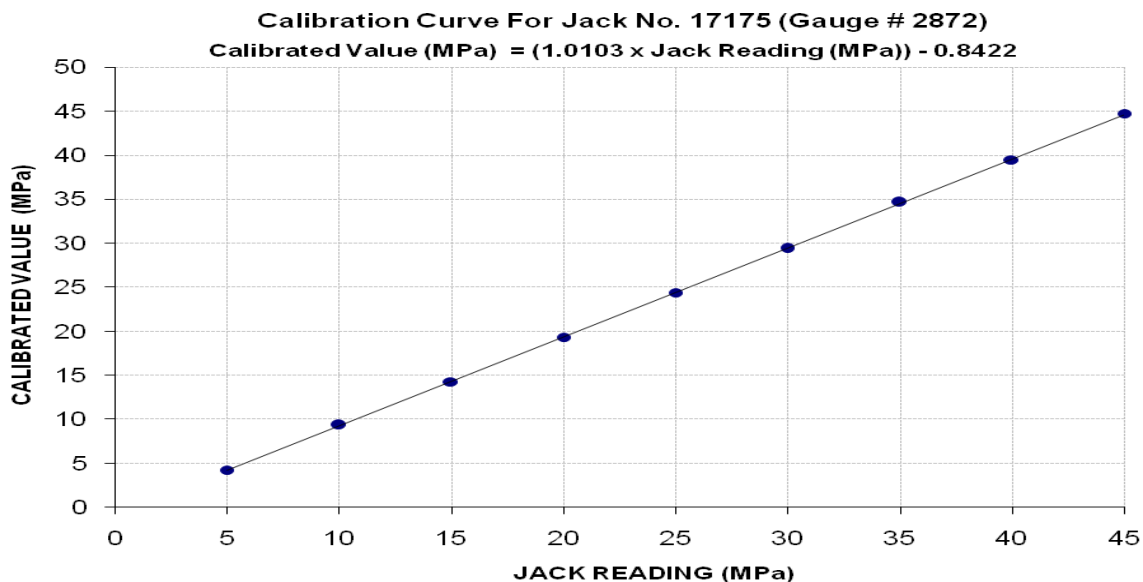
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page - 10/12)

Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 17175, Gauge No. 2872) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	2050	4550	6950	9400	11850	14300	16850	19200	21750
Calibrated Pressure (Mpa)	4.21	9.35	14.29	19.32	24.36	29.39	34.64	39.47	44.71

The Ram Area of Jack = 47.71 cm²



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page - 11/12)

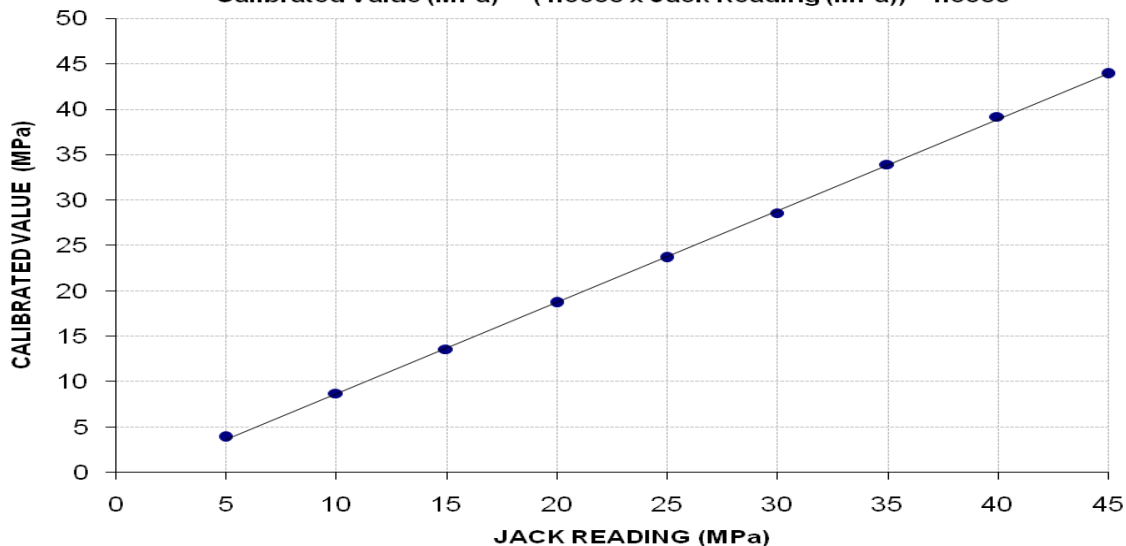
Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 17175, Gauge No. 2688) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	1900	4250	6600	9100	11500	13900	16500	19050	21350
Calibrated Pressure (Mpa)	3.91	8.74	13.57	18.71	23.64	28.57	33.92	39.16	43.89

The Ram Area of Jack = 47.71 cm²

Calibration Curve For Jack No. 17175 (Gauge # 2688)
Calibrated Value (MPa) = (1.0058 x Jack Reading (MPa)) - 1.3589



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

Ref: CED/TFL/09/35321

Dated: 07-09-2020

Dated: 08-09-2020

To
M/S CGGC
Suki Kinari Project Management in Pakistan

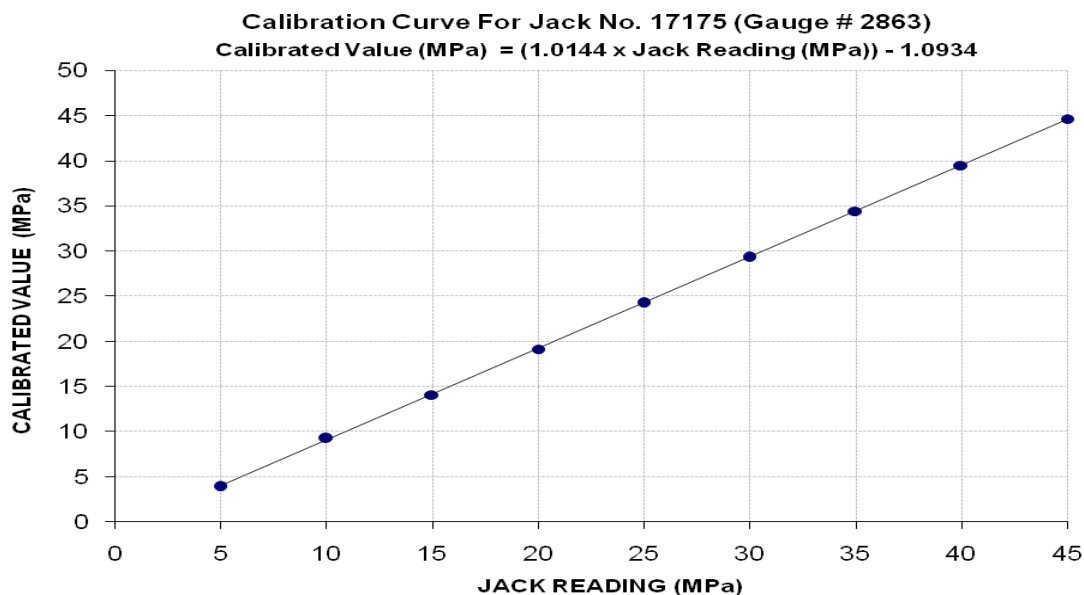
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/35321) (Page - 12/12)

Reference to your Letter No. Nil, dated: 30/08/2020 on the subject cited above. One Hydraulic Jack (Jack No. 17175, Gauge No. 2863) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (Kg)	1900	4500	6850	9300	11800	14250	16750	19200	21700
Calibrated Pressure (Mpa)	3.91	9.25	14.08	19.12	24.26	29.29	34.43	39.47	44.61

The Ram Area of Jack = 47.71 cm²



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