



**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/01/35915

Dated: 11-01-2021

Dated: 12-01-2021

To  
M/S CGGC  
Suki Kinari Project Management in Pakistan

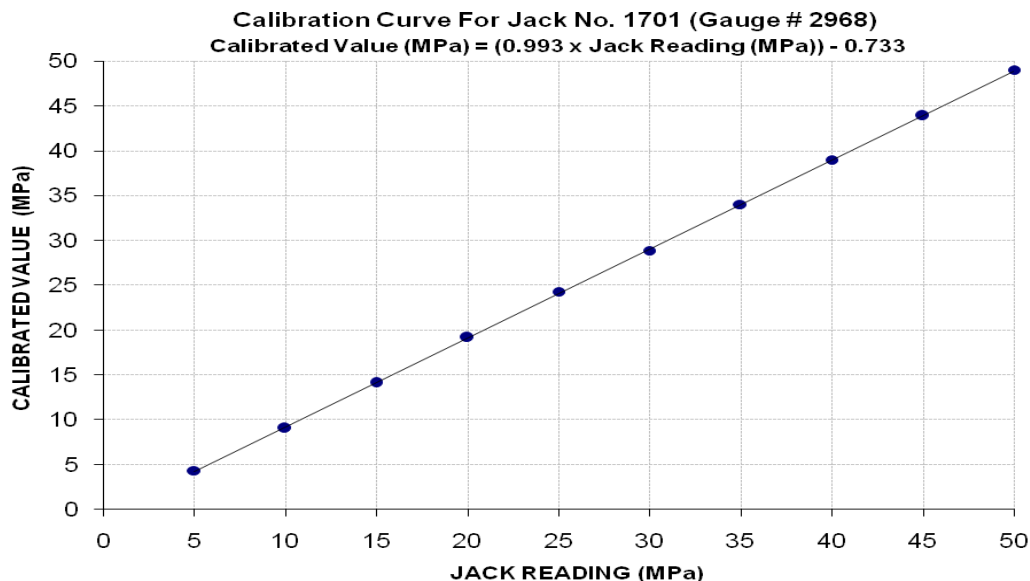
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -1/12)

Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1701, Gauge No. 2968) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8400	17600	27500	37300	47300	56200	66200	75800	85400	95300
Calibrated Pressure (Mpa)	4.32	9.05	14.13	19.17	24.31	28.89	34.03	38.96	43.90	48.98

The Ram Area of Jack = 190.8 cm<sup>2</sup>



**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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To  
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Suki Kinari Project Management in Pakistan

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -2/12)

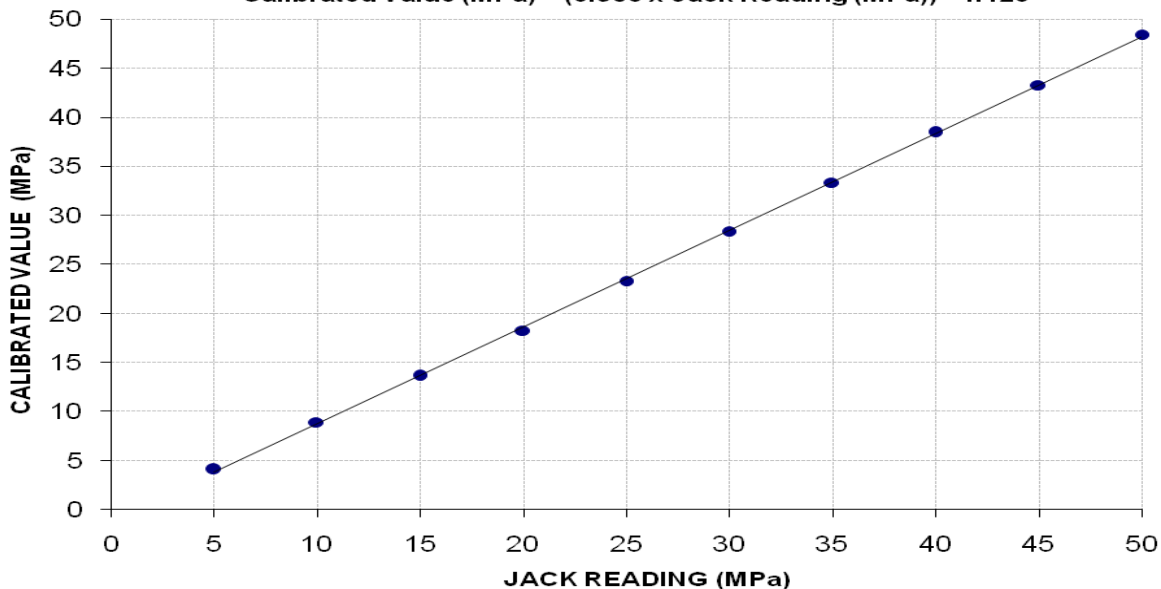
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1701, Gauge No. 2688) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8000	17300	26500	35500	45400	55200	64900	74800	84200	94200
Calibrated Pressure (Mpa)	4.11	8.89	13.62	18.25	23.34	28.37	33.36	38.45	43.28	48.42

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1701 (Gauge # 2688)**  
**Calibrated Value (MPa) = (0.986 x Jack Reading (MPa)) - 1.123**



**I/C Testing Laboratories**  
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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -3/12)

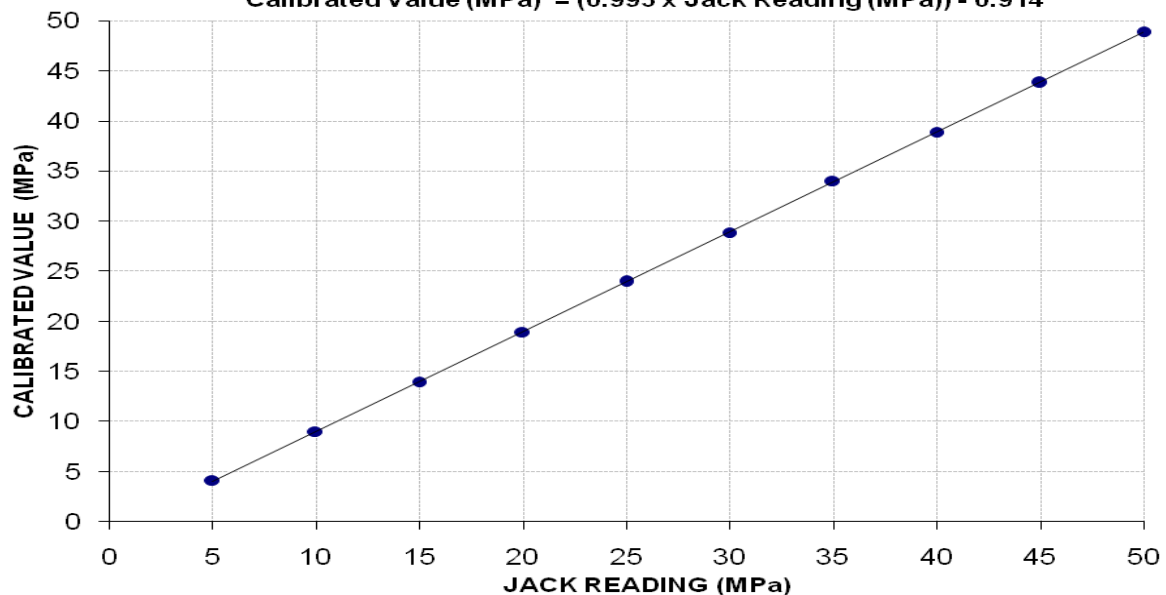
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1701, Gauge No. 2856) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8100	17500	27200	36800	46600	56200	66200	75700	85200	95100
Calibrated Pressure (Mpa)	4.16	8.99	13.98	18.91	23.95	28.89	34.03	38.91	43.79	48.88

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1701 (Gauge # 2856)**  
**Calibrated Value (MPa) = (0.995 x Jack Reading (MPa)) - 0.914**



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -4/12)

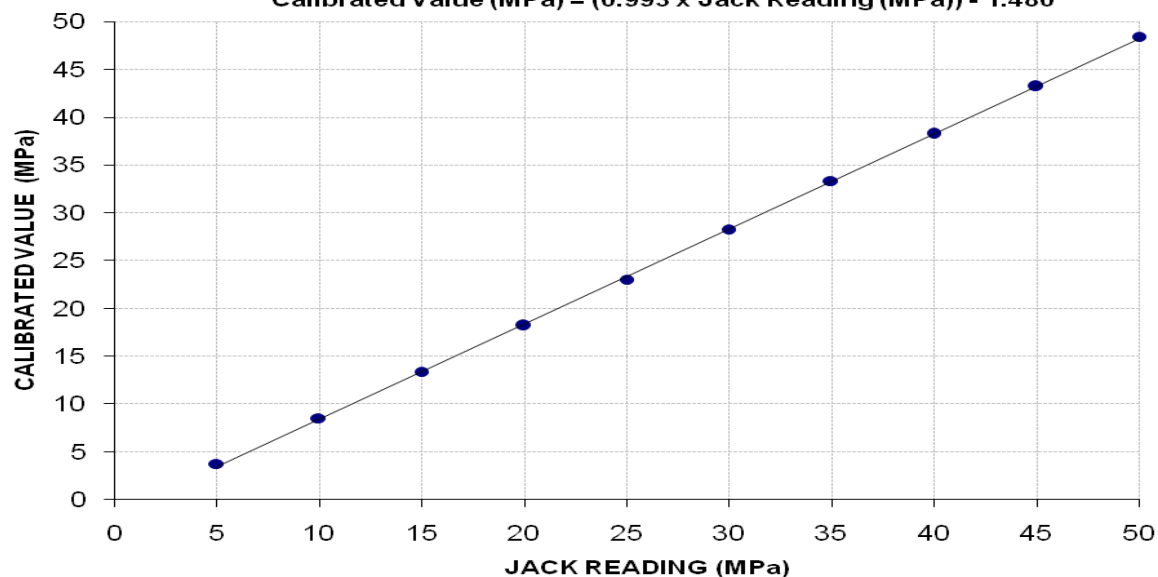
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1701, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	7300	16600	26100	35400	44800	55000	64900	74400	84100	94200
Calibrated Pressure (Mpa)	3.75	8.53	13.42	18.20	23.03	28.27	33.36	38.24	43.23	48.42

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1701 (Gauge # 2694)**  
**Calibrated Value (MPa) = (0.993 x Jack Reading (MPa)) - 1.480**



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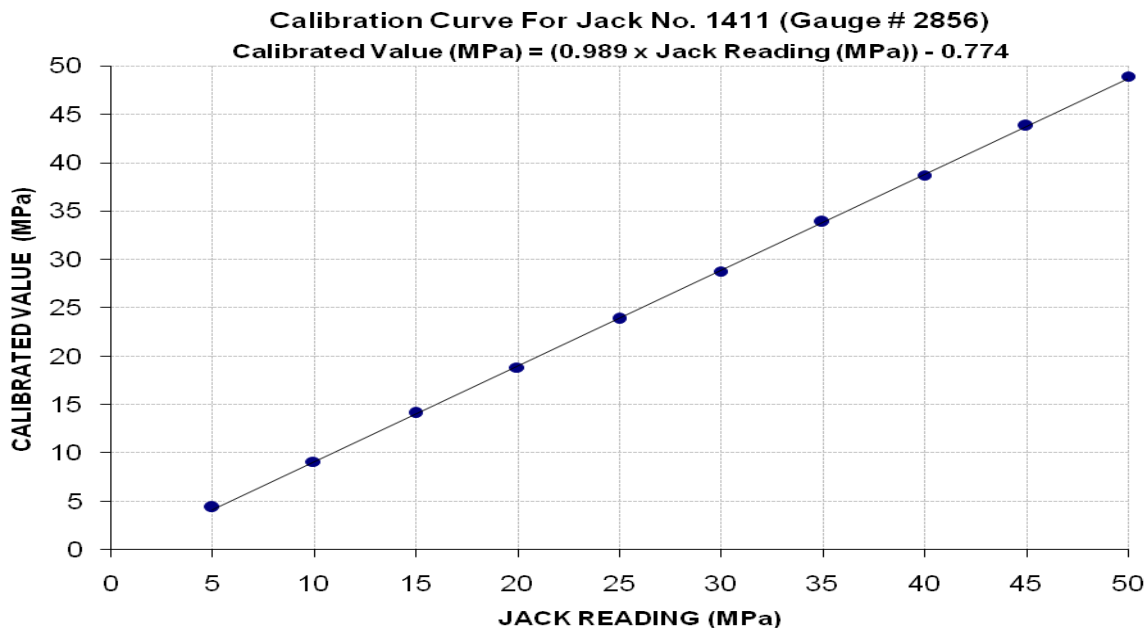
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -5/12)

Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1411, Gauge No. 2856) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8500	17700	27500	36700	46400	56000	65900	75300	85200	95100
Calibrated Pressure (Mpa)	4.37	9.10	14.13	18.86	23.85	28.78	33.87	38.70	43.79	48.88

The Ram Area of Jack = 190.8 cm<sup>2</sup>



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -6/12)

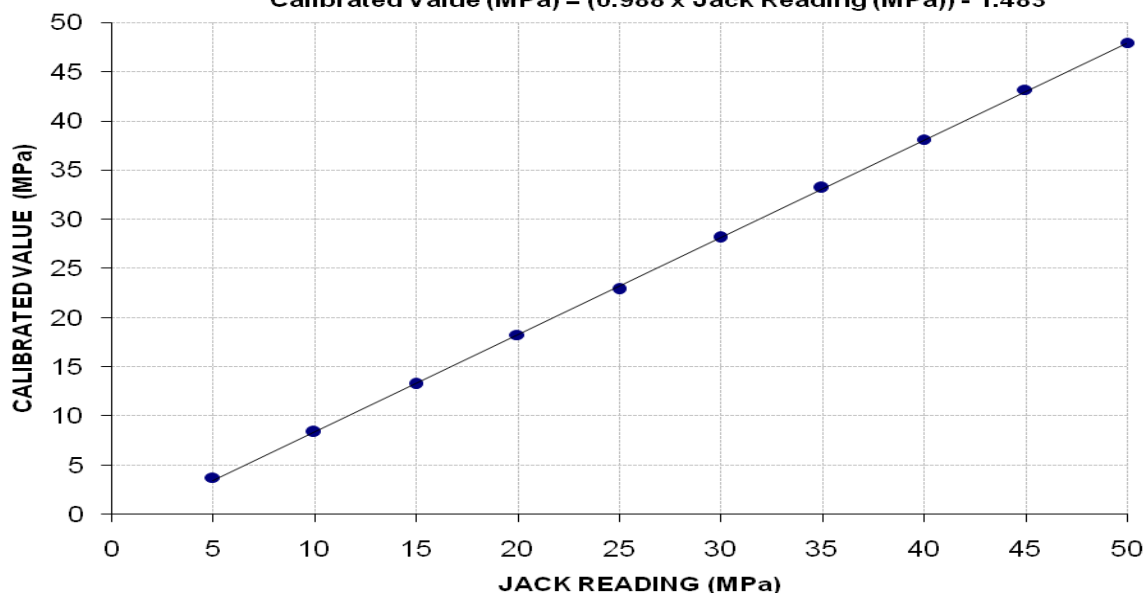
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1411, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	7300	16300	25800	35500	44500	54700	64600	74100	84000	93300
Calibrated Pressure (Mpa)	3.75	8.38	13.26	18.25	22.87	28.12	33.20	38.09	43.18	47.96

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1411 (Gauge # 2694)**  
**Calibrated Value (MPa) = (0.988 x Jack Reading (MPa)) - 1.483**



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -7/12)

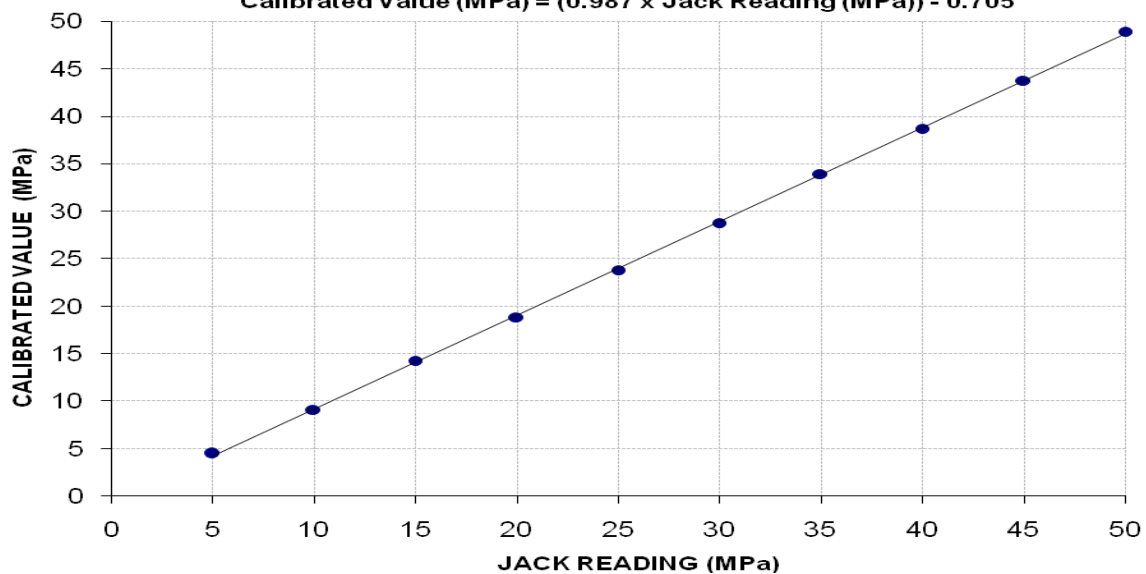
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1411, Gauge No. 2968) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8700	17700	27700	36700	46300	56000	66000	75300	85100	95100
Calibrated Pressure (Mpa)	4.47	9.10	14.24	18.86	23.80	28.78	33.92	38.70	43.74	48.88

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1411 (Gauge # 2968)**  
**Calibrated Value (MPa) = (0.987 x Jack Reading (MPa)) - 0.705**



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -8/12)

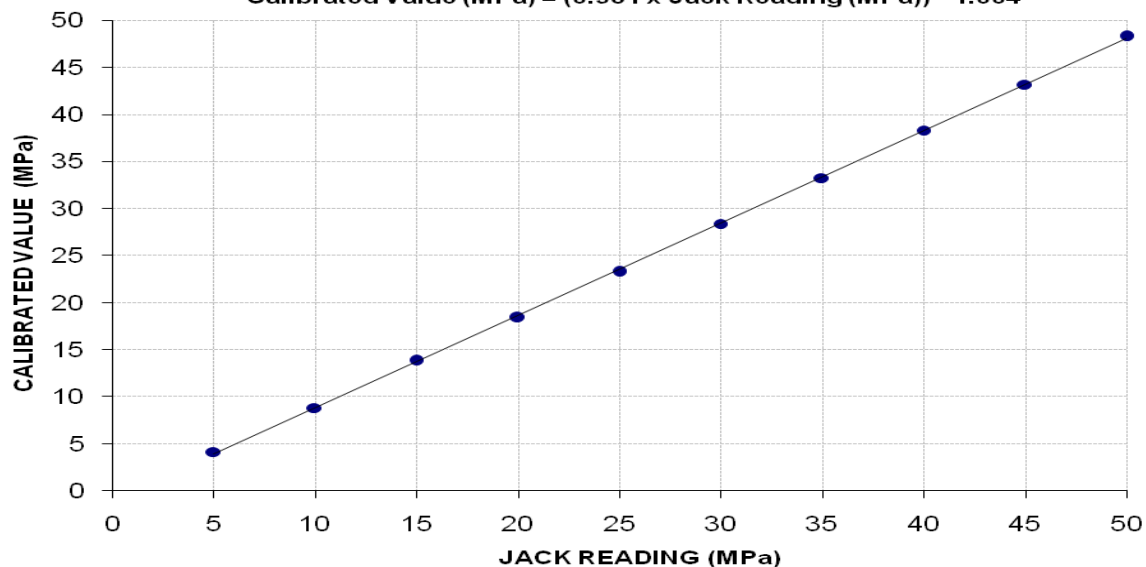
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1411, Gauge No. 2688) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8100	17100	26900	35800	45300	55200	64700	74500	84000	93900
Calibrated Pressure (Mpa)	4.16	8.79	13.83	18.40	23.28	28.37	33.26	38.29	43.18	48.26

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1411 (Gauge # 2688)**  
**Calibrated Value (MPa) = (0.981 x Jack Reading (MPa)) - 1.004**



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page -9/12)

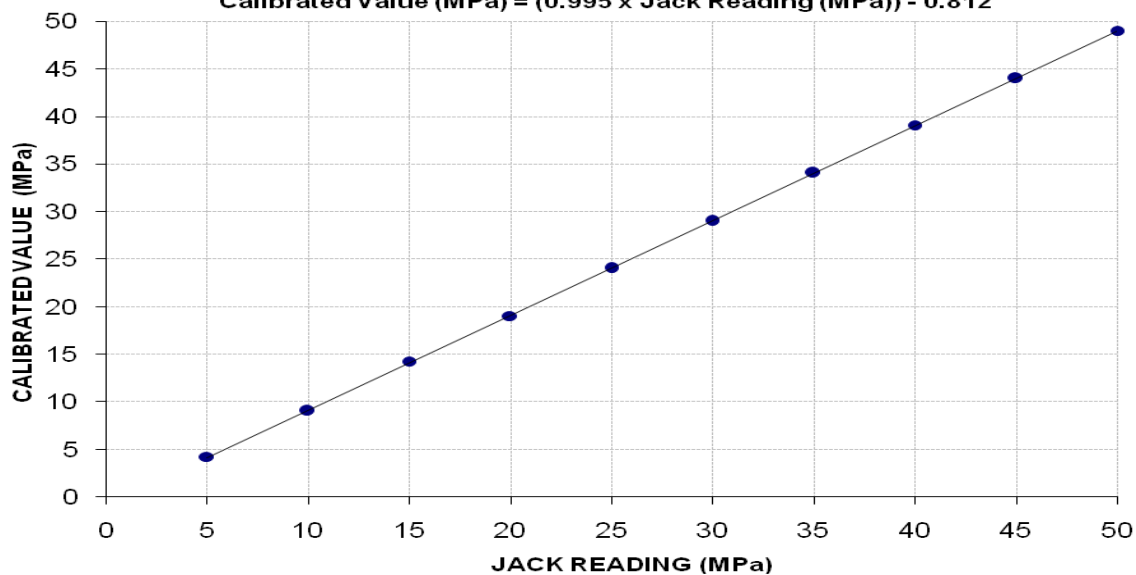
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1135, Gauge No. 2968) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8200	17600	27800	37000	46800	56400	66300	76000	85600	95300
Calibrated Pressure (Mpa)	4.21	9.05	14.29	19.02	24.05	28.99	34.08	39.06	44.00	48.98

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1135 (Gauge # 2968)**  
**Calibrated Value (MPa) = (0.995 x Jack Reading (MPa)) - 0.812**



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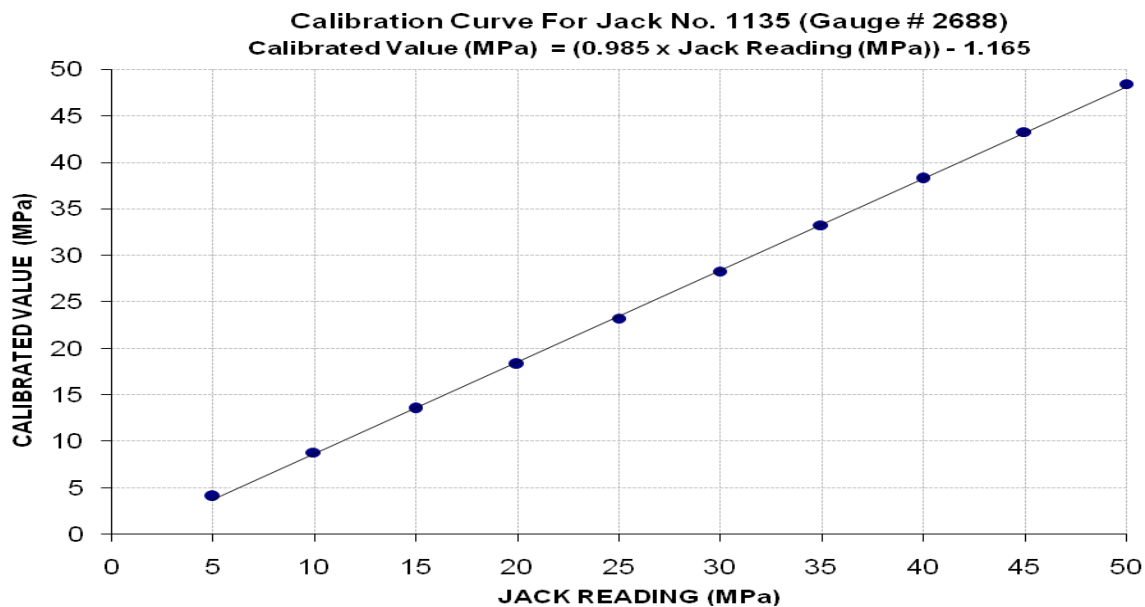
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page - 10/12)

Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1135, Gauge No. 2688) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8000	17200	26300	35600	45200	55000	64700	74400	84200	94200
Calibrated Pressure (Mpa)	4.11	8.84	13.52	18.30	23.23	28.27	33.26	38.24	43.28	48.42

The Ram Area of Jack = 190.8 cm<sup>2</sup>



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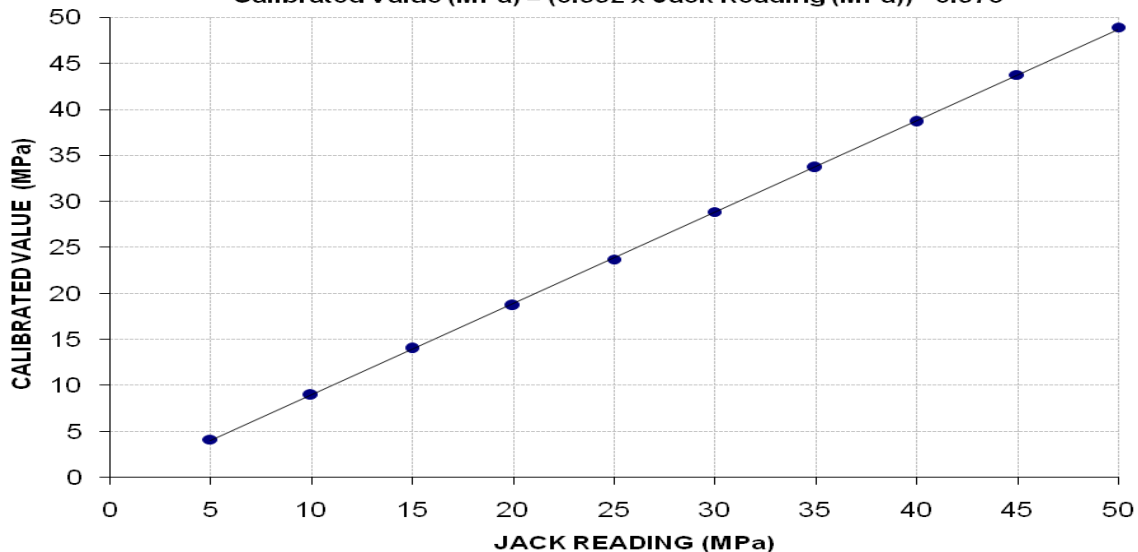
Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1135, Gauge No. 2856) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	8100	17400	27300	36400	46100	56100	65500	75200	85100	95100
Calibrated Pressure (Mpa)	4.16	8.94	14.03	18.71	23.70	28.84	33.67	38.65	43.74	48.88

The Ram Area of Jack = 190.8 cm<sup>2</sup>

**Calibration Curve For Jack No. 1135 (Gauge # 2856)**  
**Calibrated Value (MPa) = (0.992 x Jack Reading (MPa)) - 0.973**



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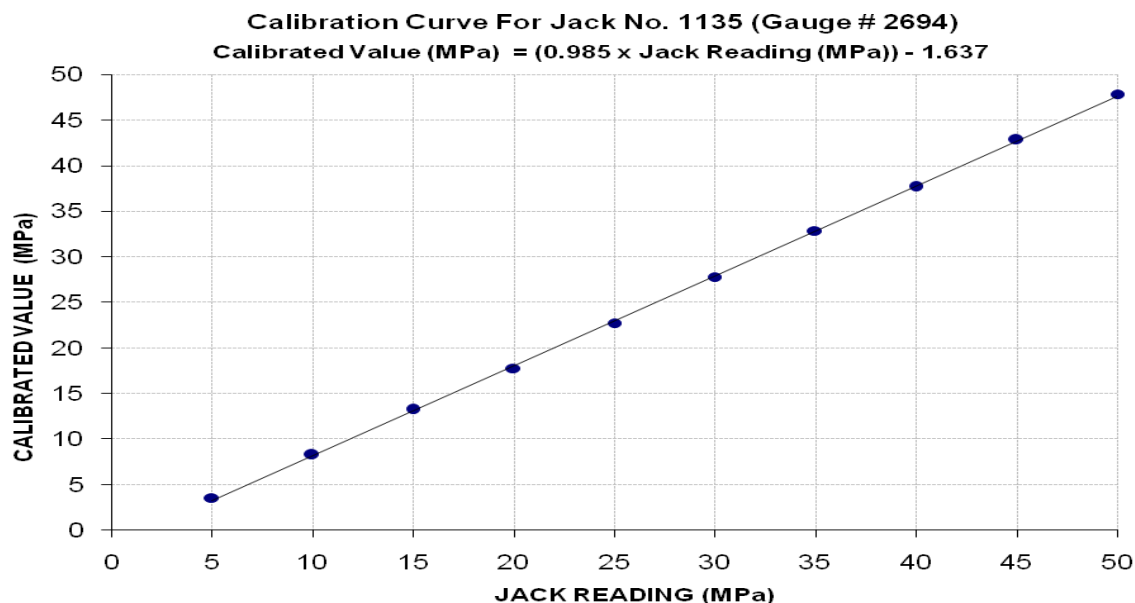
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35915) (Page - 12/12)

Reference to your Letter No. Nil, dated: 10/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1135, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	6900	16100	25800	34600	44200	54100	63900	73300	83300	93100
Calibrated Pressure (Mpa)	3.55	8.28	13.26	17.78	22.72	27.81	32.84	37.68	42.82	47.85

The Ram Area of Jack = 190.8 cm<sup>2</sup>



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