



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 Unirazz Services
 Lahore
 (Construction of (External Development Work) PRPL Office Building 4 Phase 1 at
 Packages, Shahah-e-Roomi, Amer-Sidhu, Lahore)

Reference # CED/TFL **4207** (Dr. M Kashif)

Dated: 17-11-2023

Reference of the request letter# USPL/PRPL/1411-3

Dated: 14-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023

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	0.364	10	9.38	0.12	0.107	3160	4960	58054	65080	91123	102200	1.10	13.8	
2	0.369	10	9.44	0.12	0.108	3160	5010	58054	64210	92042	101800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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
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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/11/4223

Dated: 20-11-2023

Dated of Test: 23-11-2023

To

M/S StrongForce Private Limited.
Lahore

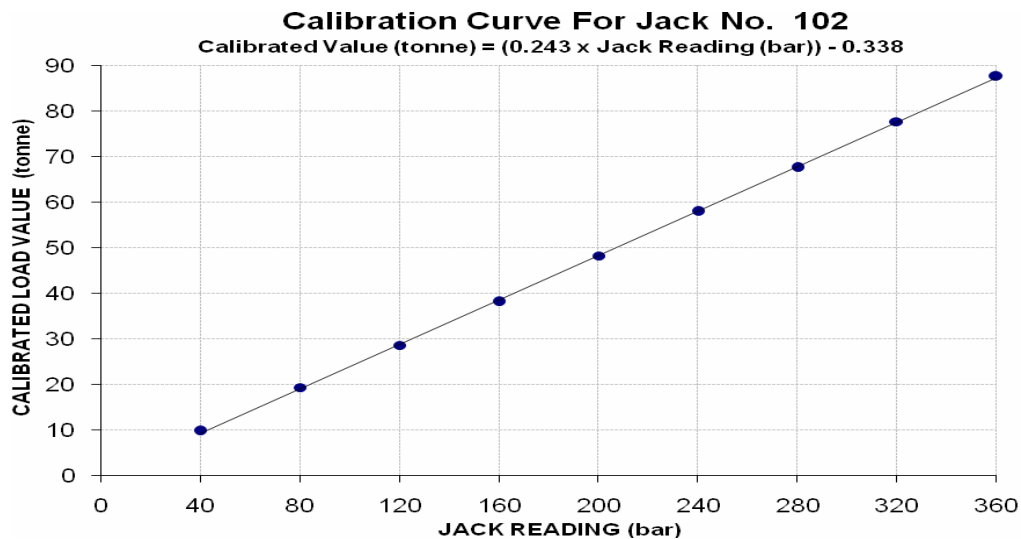
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4223) (Page -1/1)

Reference to your Letter No. L23/11-11658, dated: 20/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 102, Gauge No. SF-102) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 360 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	360	
Calibrated Load	(kg)	9800	19300	28600	38200	48300	58000	67600	77700	87600
	(tonne)	9.80	19.30	28.60	38.20	48.30	58.00	67.60	77.70	87.60
Calibrated Pressure (bar)	41	82	121	161	204	245	286	328	370	

The Ram Area of Jack = 232 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Deputy General Manager (Works)
 Habib Rafiq Engineering (Pvt.) Limited
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL 4226 (Dr. M Kashif)
 Reference of the request letter # HRLE/SKG/2023/144/200

Dated: 21-11-2023
 Dated: 20-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023
 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	3790	5630	69629	69490	103432	103300	1.30	16.3	Aziz Steel
2	0.390	10	9.71	0.12	0.115	3570	5250	65587	68590	96451	100900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,

Executive Engineer
Jampur Construction Division
Rajanpur
(Restoration of X-Structures of Kaha Hill Torrent and its Allied Structures (Muhammad Wall, Hazoori Wall, Garmail Wall, Noor Wall & Khan Wall))

Reference # CED/TFL **4229** (Dr. M Rizwan Riaz)
Reference of the request letter # 1090/86-W

Dated: 21-11-2023
Dated: 15-11-2023

Tension Test Report (Page – 1/1)

Date of Test 23-11-2023
Gauge length 8 inches
Description G.I Wire Tensile Test

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							
1	0.101	-----	4.04	-----	12.8	370	520	283	398	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,

Project Manager
MS IT Tower, G4, Lahore
Construction of MS IT Tower at Plot 450, 451 Johar Town Lahore.

Reference # CED/TFL 4230 (Dr. M Kashif)
Reference of the request letter # MSITT/UET/2023/S-001

Dated: 21-11-2023
Dated: 21-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023
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	0.373	3	0.373	0.11	0.110	3890	5150	78000	78260	103200	103700	1.10	13.8	Afco Steel
2	0.372	3	0.373	0.11	0.109	4450	5450	89200	89820	109200	110000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Senior Manager Projects - Civil
 Vision Packaging
 Volka Food International Limited

Reference # CED/TFL 4232 (Dr. M Kashif)
 Reference of the request letter # VFI/Civil/25

Dated: 21-11-2023
 Dated: 09-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023
 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	0.377	3/8	0.375	0.11	0.111	3870	5010	77600	77050	100400	99800	1.20	15.0	
2	0.378	3/8	0.376	0.11	0.111	3840	5050	77000	76230	101200	100300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -9/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2342, Gauge No. 1580) as received by us has been calibrated. The results are tabulated as under:

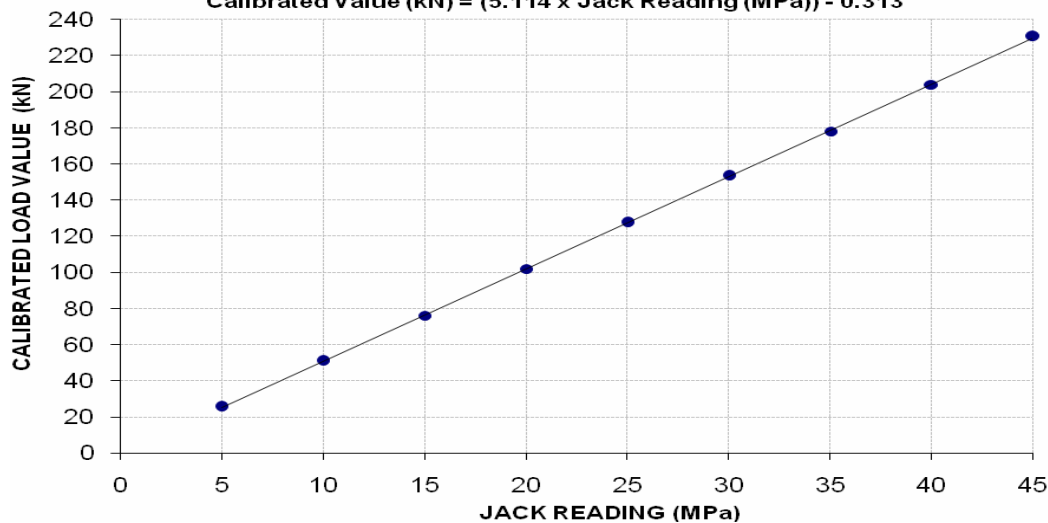
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	2600	5200	7750	10400	13000	15650	18150	20800	23500
	(kN)	25	51	76	102	127	153	178	204	230
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 51.05 cm²

Calibration Curve For Jack No. 2342, Gauge No. 1580

Calibrated Value (kN) = (5.114 x Jack Reading (MPa)) - 0.313



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Ref: CED/TFL/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 10/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2342, Gauge No. 2013) as received by us has been calibrated. The results are tabulated as under:

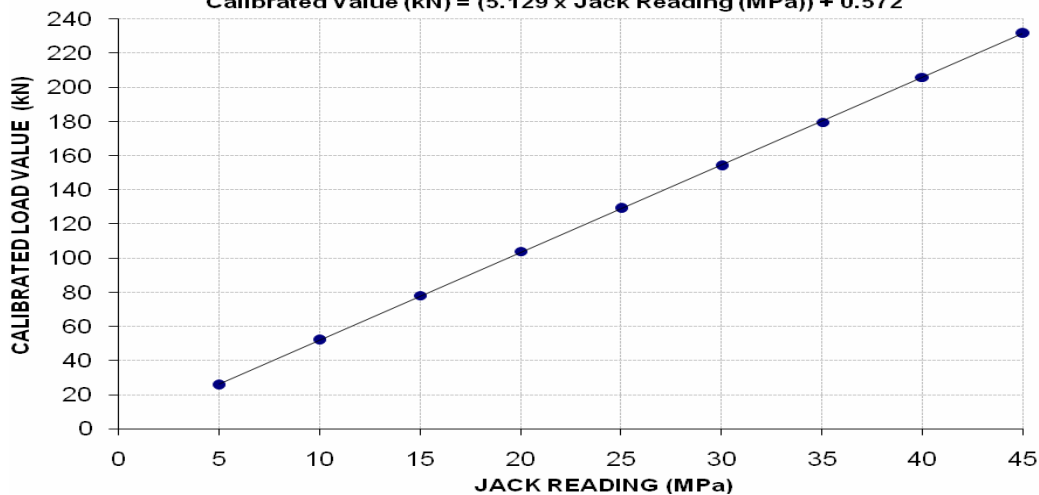
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	2600	5300	7950	10600	13150	15700	18300	21000	23600
	(kN)	25	52	78	104	129	154	179	206	231
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 51.05 cm²

Calibration Curve For Jack No. 2342, Gauge No. 2013

Calibrated Value (kN) = (5.129 × Jack Reading (MPa)) + 0.572



I/C Testing Laboratories
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Ref: CED/TFL/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 11/16)

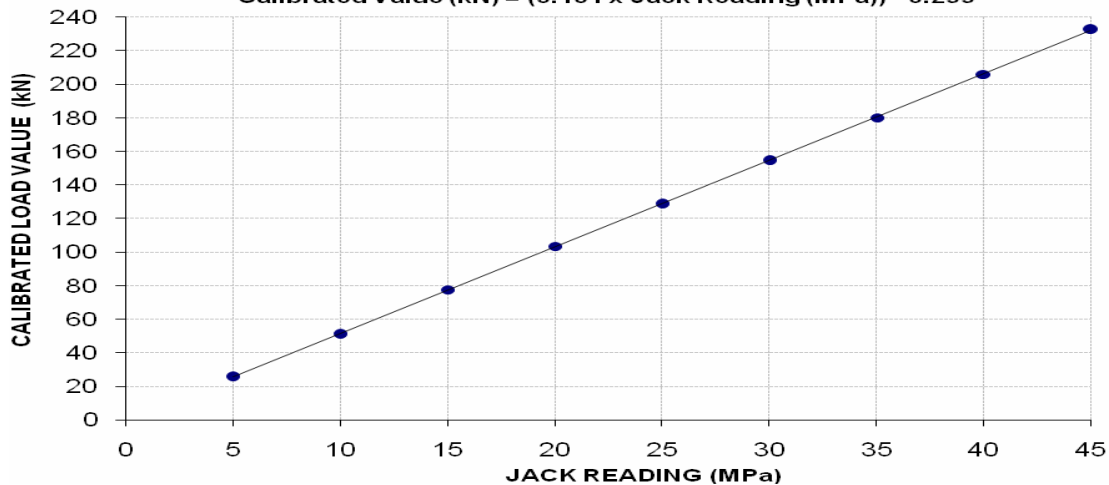
Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2343, Gauge No. 1582) as received by us has been calibrated. The results are tabulated as under:

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)	2600	5200	7900	10550	13100	15750	18350	21000	23700
	(kN)	25	51	77	103	128	154	180	206	232
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	46	

The Ram Area of Jack = 51.05 cm²

Calibration Curve For Jack No. 2343, Gauge No. 1582
Calibrated Value (kN) = (5.161 x Jack Reading (MPa)) - 0.299



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UET Lahore, Pakistan.

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Ref: CED/TFL/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

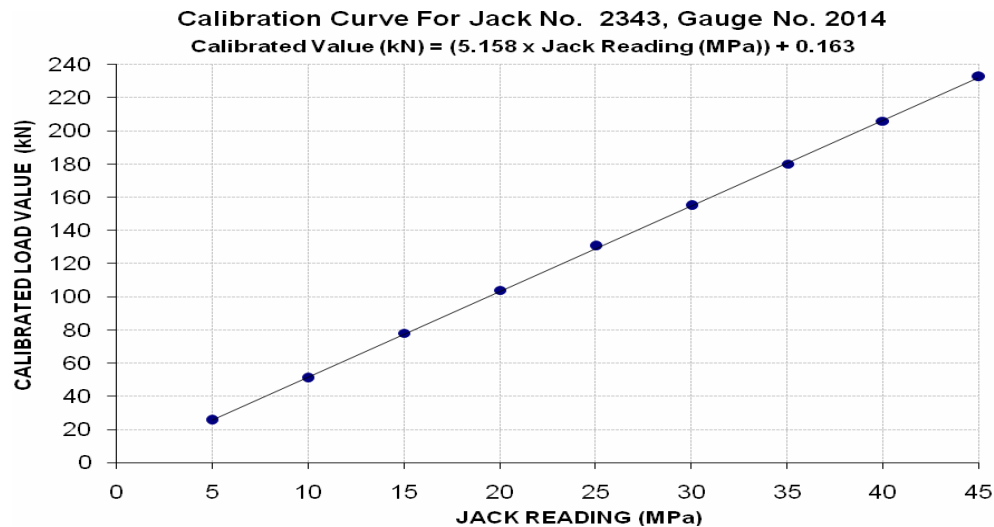
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 12/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2343, Gauge No. 2014) 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)	2600	5200	7950	10600	13300	15800	18350	21000	23700
	(kN)	25	51	78	104	130	155	180	206	232
Calibrated Pressure (MPa)		5	10	15	20	26	30	35	40	46

The Ram Area of Jack = 51.05 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

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Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 13/16)

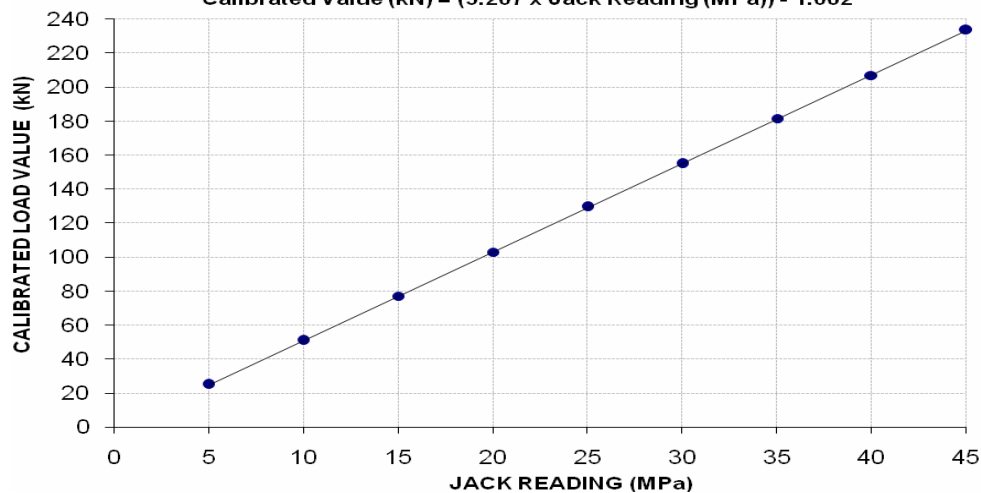
Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2344, Gauge No. 1584) as received by us has been calibrated. The results are tabulated as under:

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)	2550	5200	7850	10500	13200	15800	18500	21100	23800
	(kN)	25	51	77	103	129	155	181	207	233
Calibrated Pressure (MPa)		5	10	15	20	25	30	36	41	46

The Ram Area of Jack = 51.05 cm²

Calibration Curve For Jack No. 2344, Gauge No. 1584
Calibrated Value (kN) = (5.207 x Jack Reading (MPa)) - 1.062



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

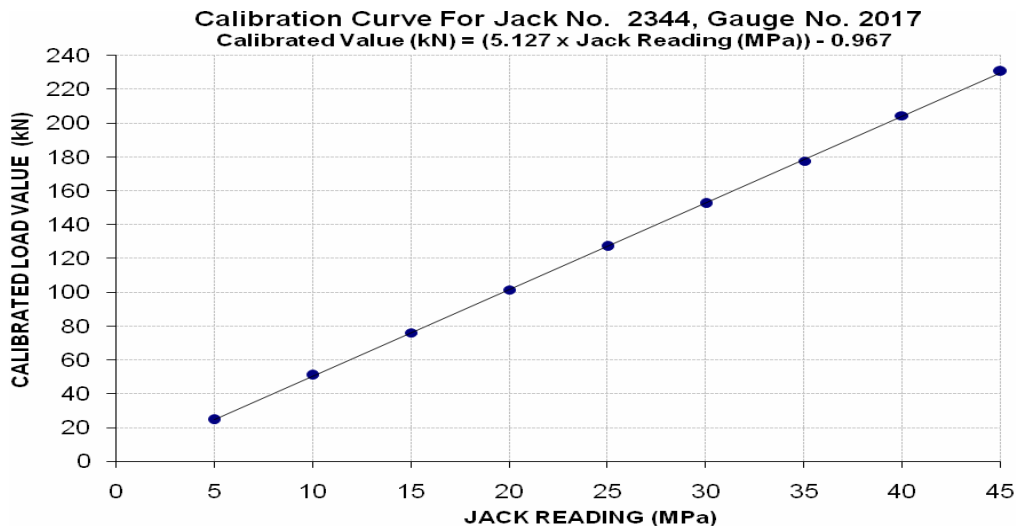
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 14/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2344, Gauge No. 2017) 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)	2500	5200	7750	10350	12950	15550	18100	20850	23500
	(kN)	25	51	76	102	127	152	178	204	230
Calibrated Pressure (MPa)		5	10	15	20	25	30	35	40	45

The Ram Area of Jack = 51.05 cm²



I/C Testing Laboratoires
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Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

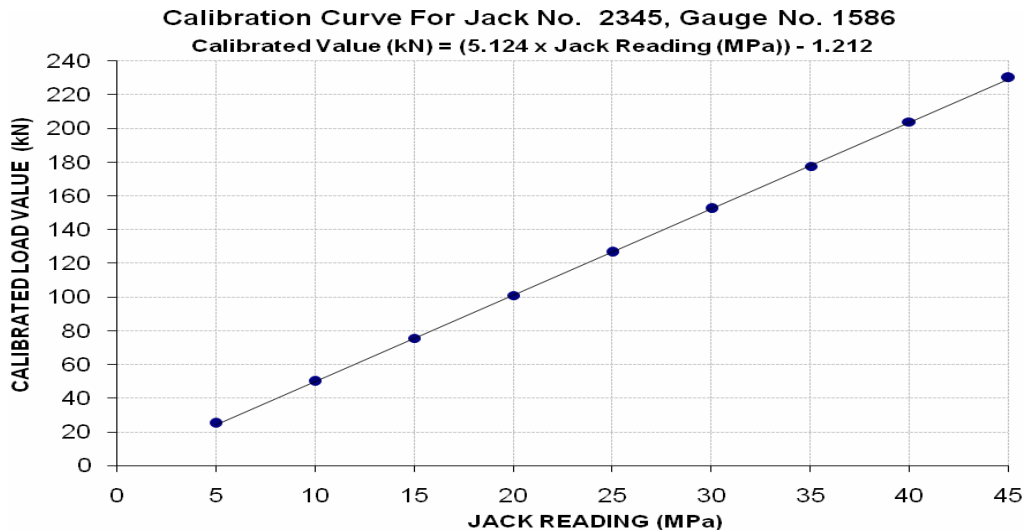
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 15/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2345, Gauge No. 1586) 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)	2550	5100	7700	10300	12900	15550	18100	20800	23450
	(kN)	25	50	76	101	127	152	178	204	230
Calibrated Pressure (MPa)		5	10	15	20	25	30	35	40	45

The Ram Area of Jack = 51.05 cm²



I/C Testing Laboratories
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To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page - 16/16)

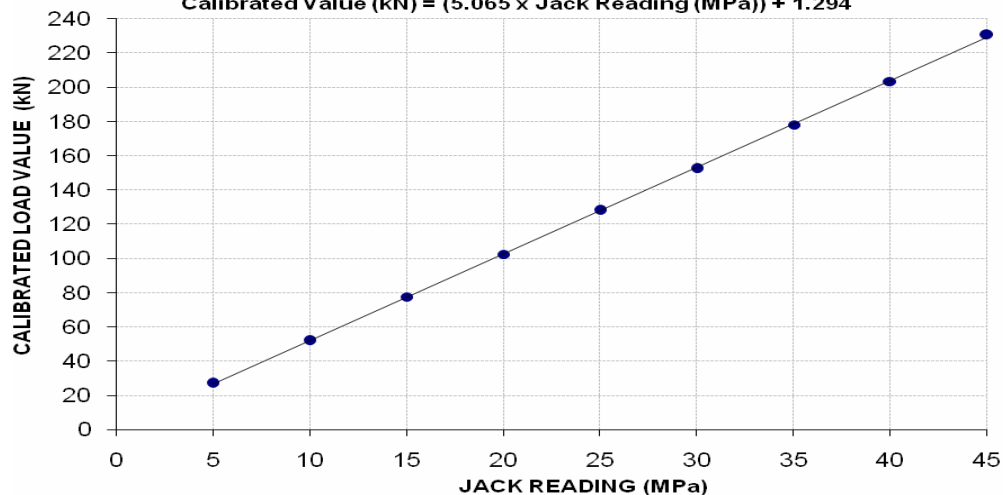
Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2345, Gauge No. 2058) as received by us has been calibrated. The results are tabulated as under:

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)	2750	5300	7900	10450	13050	15550	18150	20750	23500
	(kN)	27	52	77	102	128	152	178	203	230
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 51.05 cm²

Calibration Curve For Jack No. 2345, Gauge No. 2058
Calibrated Value (kN) = (5.065 x Jack Reading (MPa)) + 1.294



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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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -1/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2306, Gauge No. 1569) as received by us has been calibrated. The results are tabulated as under:

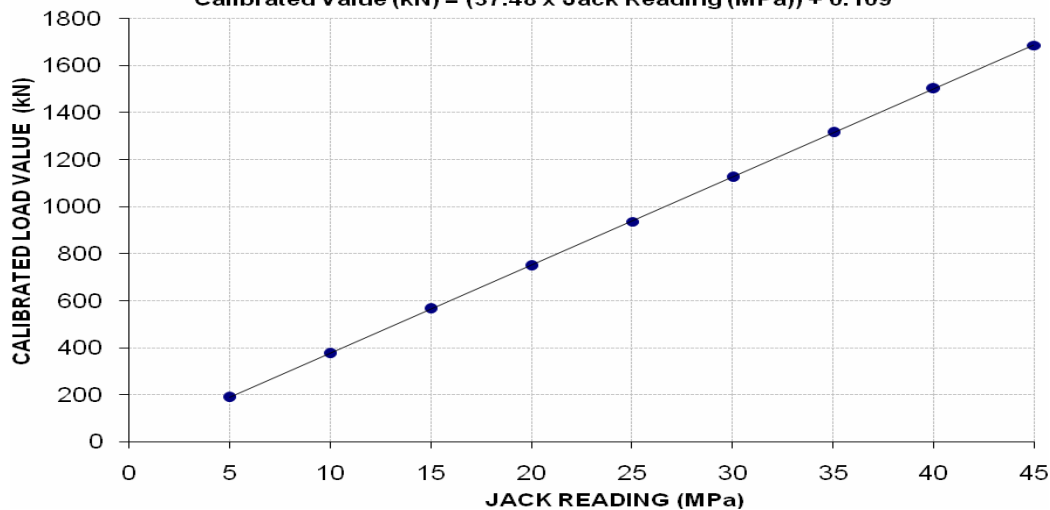
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	19200	38200	57600	76200	95400	114600	134000	153000	172000
	(kN)	188	375	565	747	936	1124	1314	1500	1687
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2306, Gauge No. 1569

Calibrated Value (kN) = (37.48 x Jack Reading (MPa)) + 0.109



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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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -2/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2306, Gauge No. 1581) as received by us has been calibrated. The results are tabulated as under:

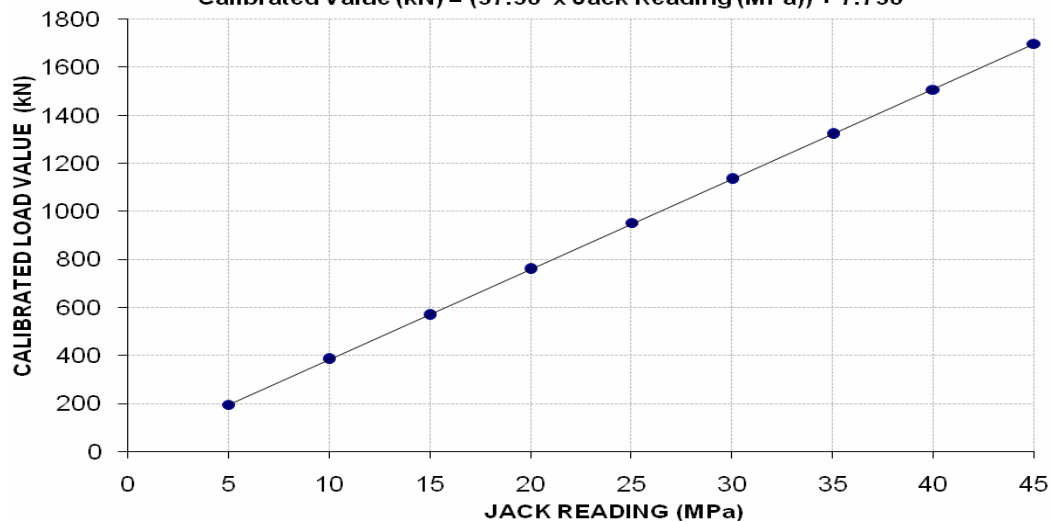
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	19800	39200	58000	77400	97200	115600	134800	153800	173200
	(kN)	194	384	569	759	953	1134	1322	1508	1699
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2306, Gauge No. 1581

Calibrated Value (kN) = (37.56 × Jack Reading (MPa)) + 7.736



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
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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -3/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2307, Gauge No. 1570) as received by us has been calibrated. The results are tabulated as under:

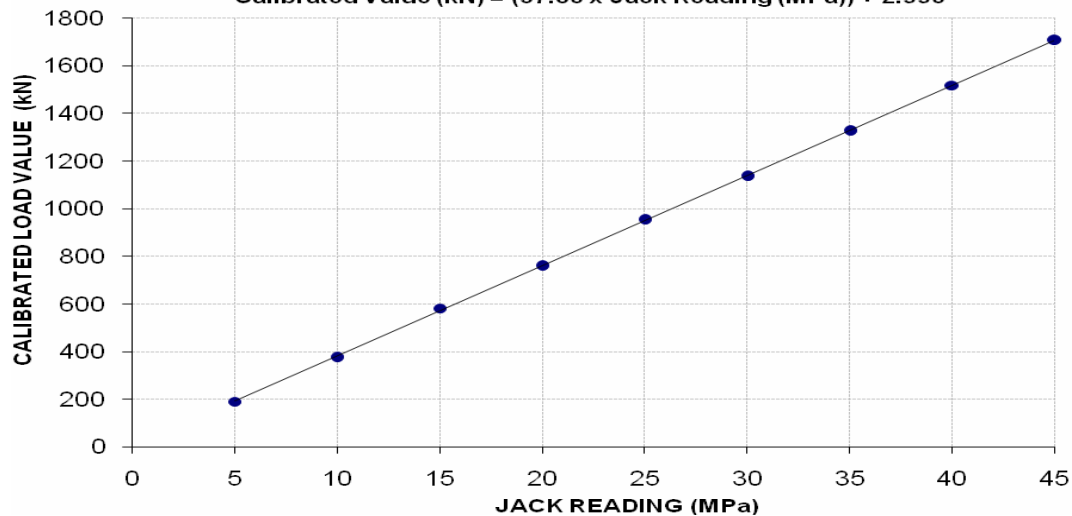
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	19400	38200	59400	77400	97200	115800	135200	154800	174000
	(kN)	190	375	583	759	953	1136	1326	1518	1706
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2307, Gauge No. 1570

Calibrated Value (kN) = (37.86 x Jack Reading (MPa)) + 2.996



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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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -4/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2307, Gauge No. 1590) as received by us has been calibrated. The results are tabulated as under:

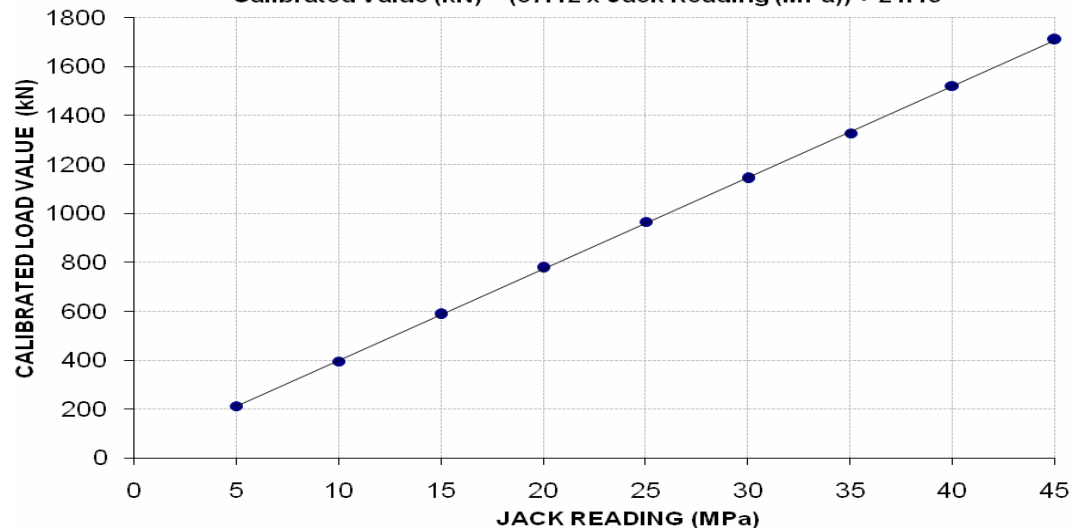
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	21600	40200	59800	79200	98400	116600	135400	155200	174400
	(kN)	212	394	586	777	965	1143	1328	1522	1710
Calibrated Pressure (MPa)	6	10	16	21	26	30	35	40	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2307, Gauge No. 1590

Calibrated Value (kN) = (37.42 × Jack Reading (MPa)) + 24.19



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -5/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2308, Gauge No. 1571) as received by us has been calibrated. The results are tabulated as under:

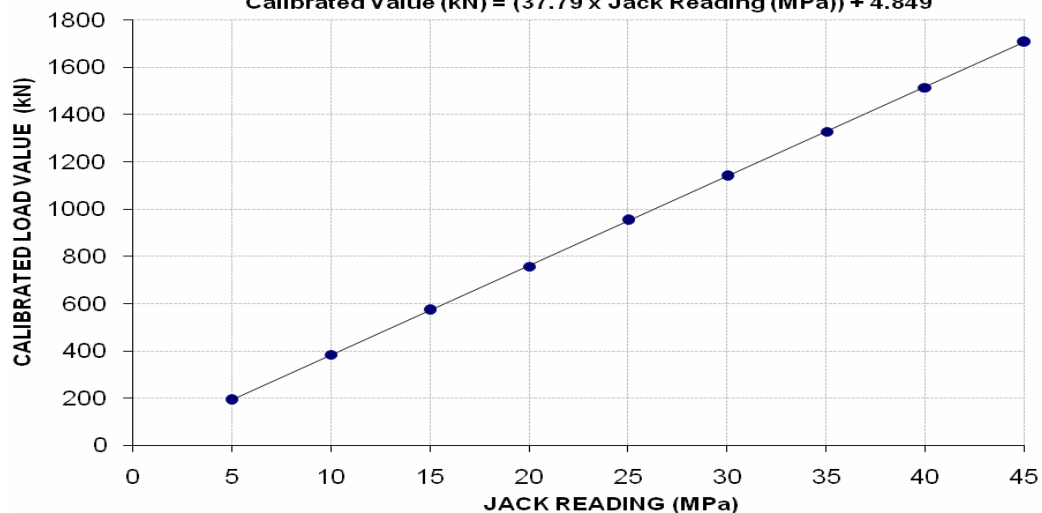
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	19600	39200	58400	77200	97200	116200	135400	154400	174000
	(kN)	192	384	573	757	953	1140	1328	1514	1706
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2308, Gauge No. 1571

Calibrated Value (kN) = (37.79 x Jack Reading (MPa)) + 4.849



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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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -6/16)

Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2308, Gauge No. 1592) as received by us has been calibrated. The results are tabulated as under:

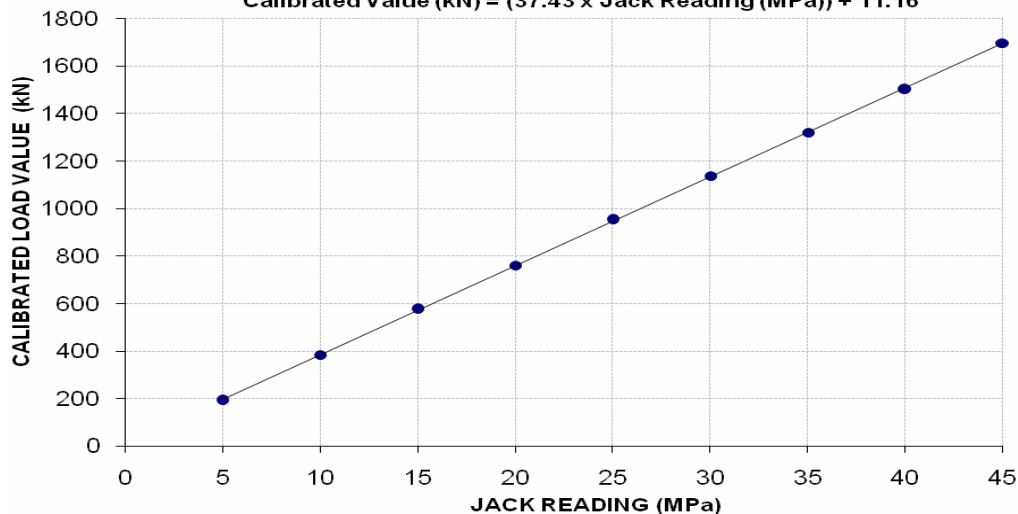
Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	
Calibrated Load	(kg)	19600	39200	58800	77600	97200	116000	134600	153000	173000
	(kN)	192	384	577	761	953	1138	1320	1500	1697
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2308, Gauge No. 1592

Calibrated Value (kN) = (37.43 × Jack Reading (MPa)) + 11.16



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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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -7/16)

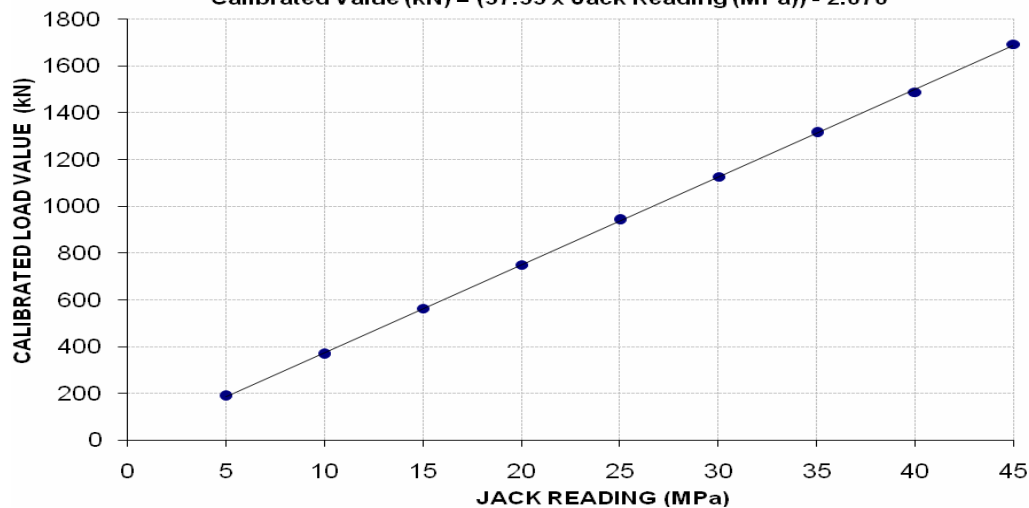
Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2309, Gauge No. 1576) as received by us has been calibrated. The results are tabulated as under:

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)	19200	37400	57400	76400	96000	114800	134000	151800	172700
	(kN)	188	367	563	749	941	1126	1314	1489	1694
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	39	45	

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack No. 2309, Gauge No. 1576
Calibrated Value (kN) = (37.55 x Jack Reading (MPa)) - 2.070



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
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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/11/4233

Dated: 21-11-2023

Dated of Test: 23-11-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4233) (Page -8/16)

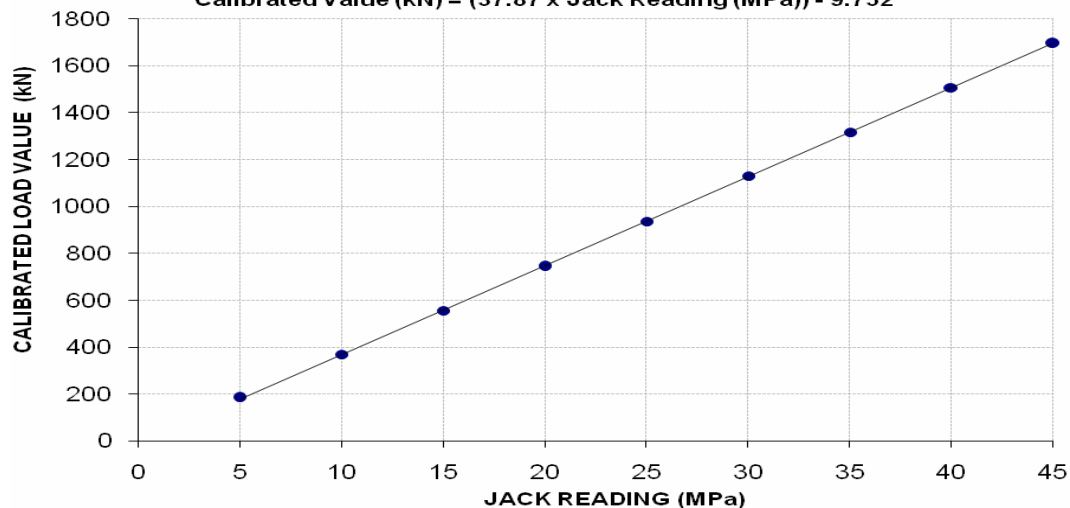
Reference to your Letter No. MDHP-DEL-LABT-199, dated: 04/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2309, Gauge No. 2011) as received by us has been calibrated. The results are tabulated as under:

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)	18800	37600	56600	75800	95400	115200	134200	153600	172800
	(kN)	184	369	555	743	936	1130	1316	1506	1695
Calibrated Pressure (MPa)	5	10	15	20	25	30	35	40	45	

The Ram Area of Jack = 377 cm^2

Calibration Curve For Jack No. 2309, Gauge No. 2011
Calibrated Value (kN) = (37.87 x Jack Reading (MPa)) - 9.752



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
Project Manager
Niaz Arbaaz (Pvt) Ltd.
The Galleria Residences.

Reference # CED/TFL 4237 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 22-11-2023
Dated: 22-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023
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	0.367	3	0.370	0.11	0.108	3310	4940	66400	67690	99000	101100	1.30	16.3	
2	0.367	3	0.371	0.11	0.108	3210	4740	64400	65550	95000	96800	1.20	15.0	
3	4.092	10	1.238	1.27	1.203	39600	51000	68800	72570	88600	93500	1.70	21.3	
4	4.092	10	1.238	1.27	1.203	42000	54000	72900	76960	93800	99000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 Aziz Industries
Sheikhupura

Reference # CED/TFL 4239 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 22-11-2023
Dated: 21-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023
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	4.206	10	1.255	1.27	1.236	45000	59400	78100	80230	103100	105900	1.40	17.5	Aziz Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

To,
Assistant Director
Defence Housing Authority, Gujranwala
"Construction of 10 Marla Villas (Block A)"

Reference # CED/TFL 4240 (Dr. M Kashif)
Reference of the request letter # 111/3/AD Bldgs/Gen/59

Dated: 22-11-2023
Dated: 21-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023
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	0.381	3	0.377	0.11	0.112	3840	4890	77000	75660	98000	96400	1.20	15.0	FF Steel	
2	0.377	3	0.375	0.11	0.111	3770	4810	75600	75050	96400	95800	1.10	13.8		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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.

Note:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Assistant Resident Engineer
 MM Pakistan (Pvt) Ltd
 Rehabilitation of Road with Tuff Pavers in Kamalia (Package III PCP)
 R2-Daras Ghousia to Darbar Darghai Shah via Malkanwali Bhain Main Gate Fazil
 Dewaan Park City.
 R1-Haji Chowk to Pakistan Chowk.

Reference # CED/TFL **4245** (Dr. M Rizwan Riaz)

Dated: 23-11-2023

Reference of the request letter # KM/PKG03/30

Dated: 18-11-2023

Tension Test Report (Page -1/1)

Date of Test 23-11-2023

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	0.365	10	9.38	0.12	0.107	2980	4330	54748	61270	79549	89100	1.50	18.8	
2	0.366	10	9.40	0.12	0.107	2900	4300	53278	59460	78998	88200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by M Shafiq (ARE MM Pakistan (Pvt) Ltd.)

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

To,

Project Manager
High-Q Constructions
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL 4246 (Engr. Bilal Ahmed)
Reference of the request letter # QC/HQ/CIVIL/160

Dated: 23-11-2023
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Tension Test Report (Page -1/1)

Date of Test 23-11-2023
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	4150	5580	76242	74830	102514	100700	1.00	12.5	
2	0.421	10	10.08	0.12	0.124	4200	5610	77161	74820	103065	100000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
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