

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)

Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/7466) (Page # 01/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 10 (mm)
Calibrated Range : Zero - 10 (mm)

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (4406280)	Dial Gauge No. II (4405270)	Dial Gauge No. III (4406078)	Dial Gauge No. IV (4404720)
100	97	95	94	92
200	197	195	194	192
300	298	297	290	291
400	398	392	393	391
500	500	491	490	488
600	598	591	589	588
700	698	690	689	687
800	798	790	789	787
900	898	888	889	886
1000	998	990	985	986

Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

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**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/7466) (Page # 02/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 10 (mm)
Calibrated Range : Zero - 10 (mm)

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (4405220)	Dial Gauge No. II (2046 S)	Dial Gauge No. III (4203040)	Dial Gauge No. IV (121686)
100	96	92	92	94
200	189	191	193	192
300	295	289	292	291
400	389	392	391	390
500	489	488	490	490
600	589	588	590	590
700	689	689	689	685
800	790	786	789	786
900	881	885	888	884
1000	989	982	989	981

Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

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**Syed Rizwan Ali (Site Manager)
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Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/7466) (Page # 03/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

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

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (DA 113969)	Dial Gauge No. II (6614818)	Dial Gauge No. III (4C19017)	Dial Gauge No. IV (3B22897)
400	400	394	397	388
800	800	794	796	788
1200	1200	1196	1196	1187
1600	1601	1596	1596	1586
2000	2002	1996	1995	1986
2400	2402	2398	2396	2386
2800	2802	2798	2797	2786
3200	3203	3199	3200	3186
3600	3603	3600	3599	3586
4000	4005	3999	3998	3987
4400	4404	4400	4397	4385
4800	4803	4801	4795	4784
5000	5004	5001	4995	4986

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Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

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Construction of Civil Works Including Design, Supply and Installation of Electrical and
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Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/7466) (Page # 04/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

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

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (CR047313)	Dial Gauge No. II (DD160892)	Dial Gauge No. III (DR091146)	Dial Gauge No. IV (DC093737)
400	391	399	394	396
800	789	802	799	795
1200	1188	1201	1198	1195
1600	1588	1602	1594	1595
2000	1990	2002	1994	1995
2400	2388	2402	2394	2396
2800	2787	2802	2791	2795
3200	3185	3203	3192	3196
3600	3585	3604	3594	3596
4000	3982	4004	3994	3998
4400	4382	4405	4394	4397
4800	4784	4805	4793	4798
5000	4991	5005	4993	4996

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Dated: 04-09-2025

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Construction of Civil Works Including Design, Supply and Installation of Electrical and
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Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/7466) (Page # 05/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

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

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (DD093099)	Dial Gauge No. II (DE015583)	Dial Gauge No. III (DM091473)	Dial Gauge No. IV (BA157270)
400	393	395	393	398
800	792	798	791	798
1200	1190	1198	1190	1197
1600	1591	1598	1591	1597
2000	1990	1998	1990	1996
2400	2390	2397	2390	2395
2800	2790	2797	2789	2794
3200	3190	3198	3189	3194
3600	3590	3597	3590	3594
4000	3990	3998	3989	3995
4400	4390	4398	4388	4395
4800	4790	4798	4788	4799
5000	4990	4997	4988	4997

Test Performed and Verified by:

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Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

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Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/7466) (Page # 06/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

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

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (DD109581)	Dial Gauge No. II (DO164122)	Dial Gauge No. III (DP1644412)	Dial Gauge No. IV (BD156288)
400	398	394	397	385
800	800	792	798	783
1200	1200	1194	1198	1181
1600	1600	1593	1598	1579
2000	2001	1993	1998	1979
2400	2403	2393	2398	2378
2800	2803	2990	2999	2978
3200	3202	3188	3199	3181
3600	3604	3590	3600	3579
4000	4004	3990	4001	3980
4400	4405	4389	4401	4379
4800	4804	4788	4802	4779
5000	5004	4990	5002	4979

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Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

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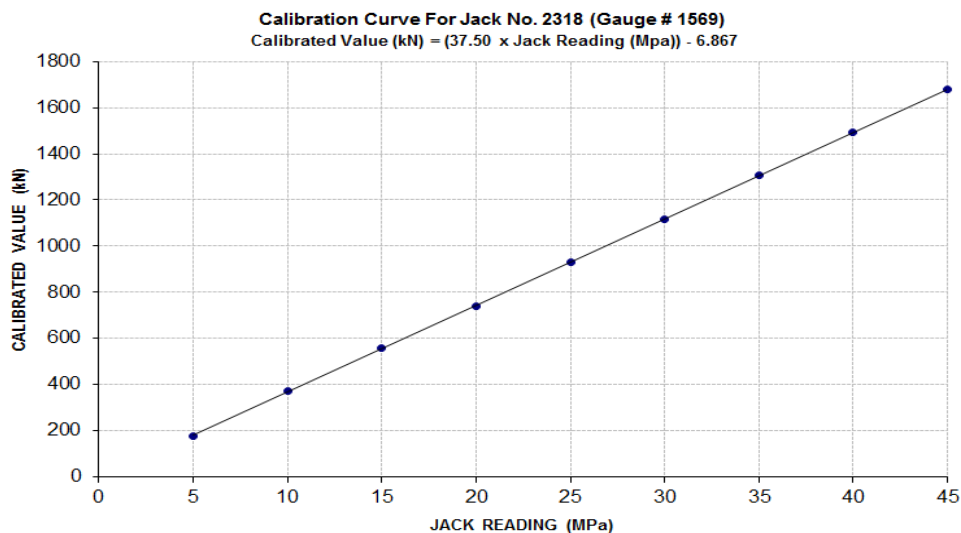
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -07/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2318, 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)	18000	38000	57000	75200	95000	114000	133200	152000	171400
	(kN)	177	373	559	738	932	1118	1307	1491	1681
Calibrated Pressure (Mpa)	4.7	9.9	14.8	19.6	24.7	29.7	34.6	39.5	44.6	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

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Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

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Construction of Civil Works Including Design, Supply and Installation of Electrical and
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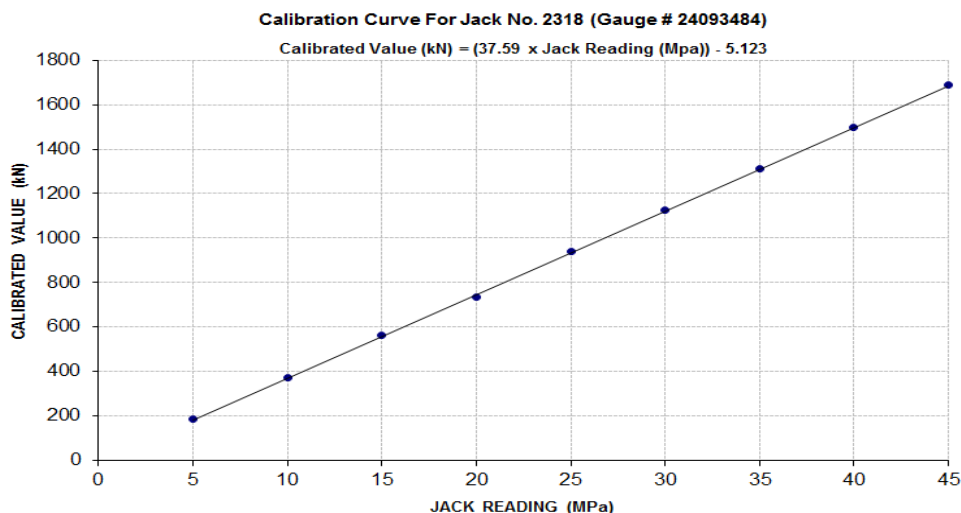
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -08/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2318, Gauge No. 24093484) 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	38000	57200	74800	95600	114600	133600	152600	172000
	(kN)	184	373	561	734	938	1124	1311	1497	1687
Calibrated Pressure (Mpa)	4.9	9.9	14.9	19.5	24.9	29.8	34.8	39.7	44.7	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

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Dated: 04-09-2025

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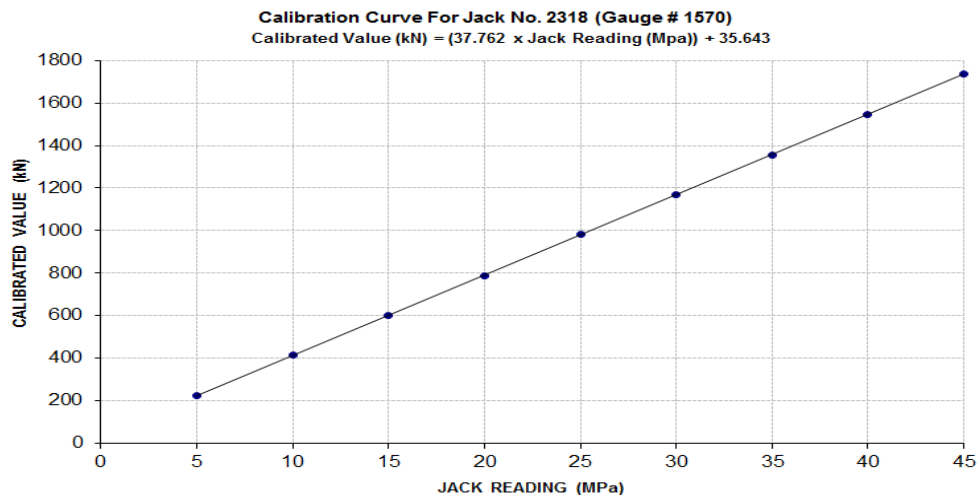
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -09/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2318, 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)	23000	42200	61400	80000	100400	119200	138000	157400	177200
	(kN)	226	414	602	785	985	1169	1354	1544	1738
Calibrated Pressure (Mpa)	6.0	11.0	16.0	20.8	26.1	31.0	35.9	40.9	46.1	

The Ram Area of Jack = 377 cm²



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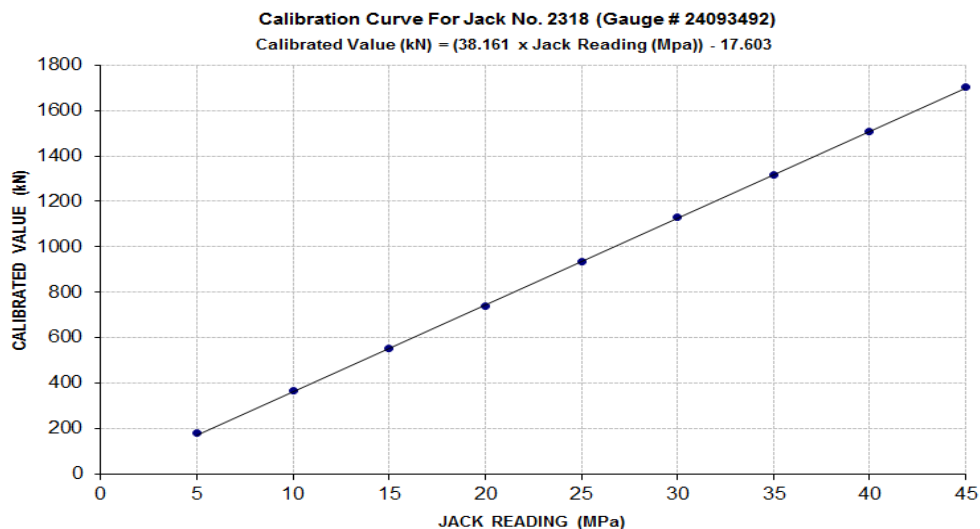
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -10/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2318, Gauge No. 24093492) 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)	18400	37200	56200	75200	95200	115200	134200	153800	173700
	(kN)	181	365	551	738	934	1130	1317	1509	1704
Calibrated Pressure (Mpa)	4.8	9.7	14.6	19.6	24.8	30.0	34.9	40.0	45.2	

The Ram Area of Jack = 377 cm²



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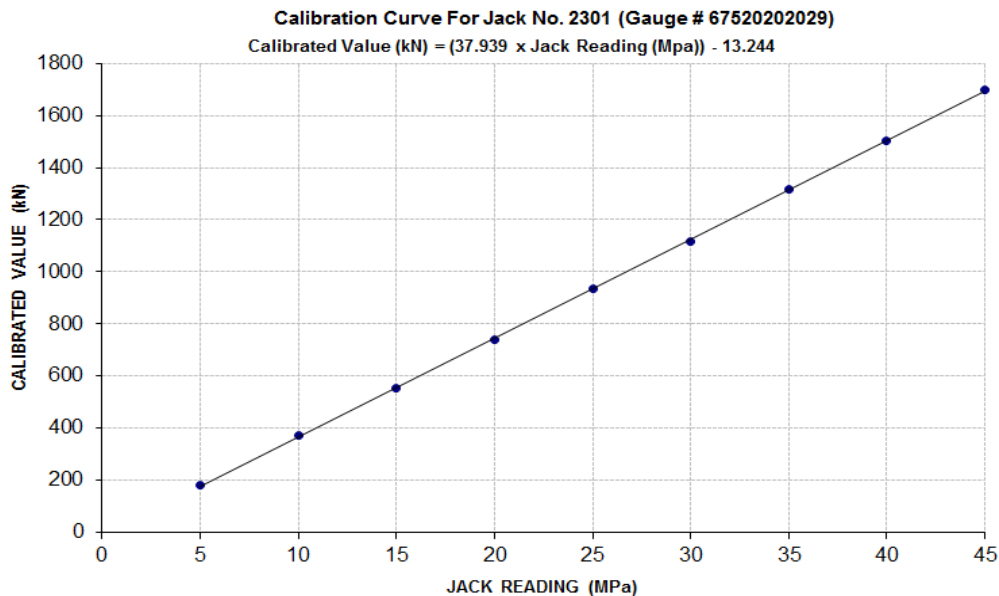
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -11/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2301, Gauge No. 675202029) 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)	18400	37800	56600	75200	95200	113800	134400	153400	173200
	(kN)	181	371	555	738	934	1116	1318	1505	1699
Calibrated Pressure (Mpa)	4.8	9.8	14.7	19.6	24.8	29.6	35.0	39.9	45.1	

The Ram Area of Jack = 377 cm²



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Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

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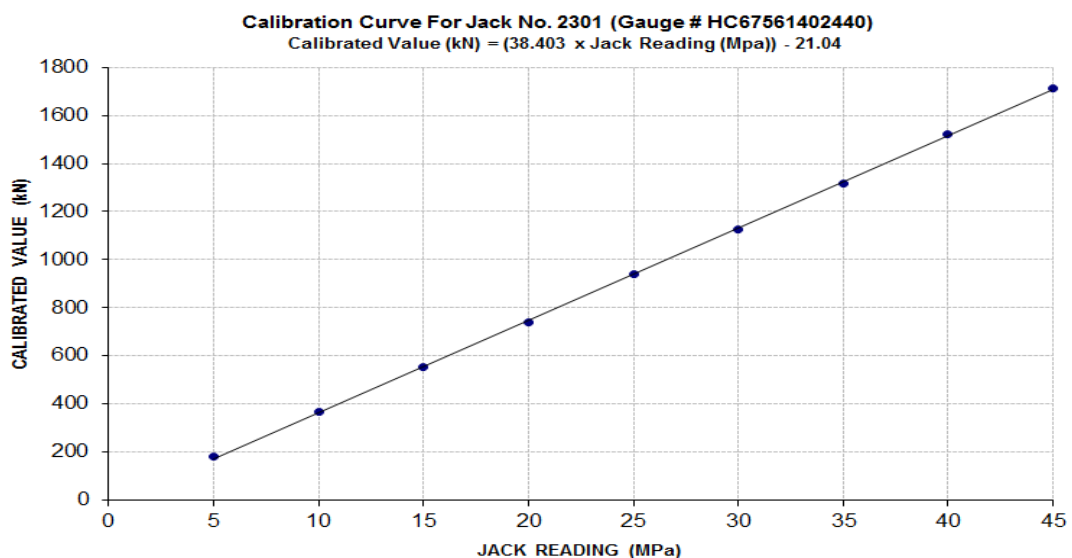
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -12/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2301, Gauge No. HC67561402440) 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)	18200	37200	56400	75200	95800	115000	134000	155000	174700
	(kN)	179	365	553	738	940	1128	1315	1521	1714
Calibrated Pressure (Mpa)	4.7	9.7	14.7	19.6	24.9	29.9	34.9	40.3	45.4	

The Ram Area of Jack = 377 cm²



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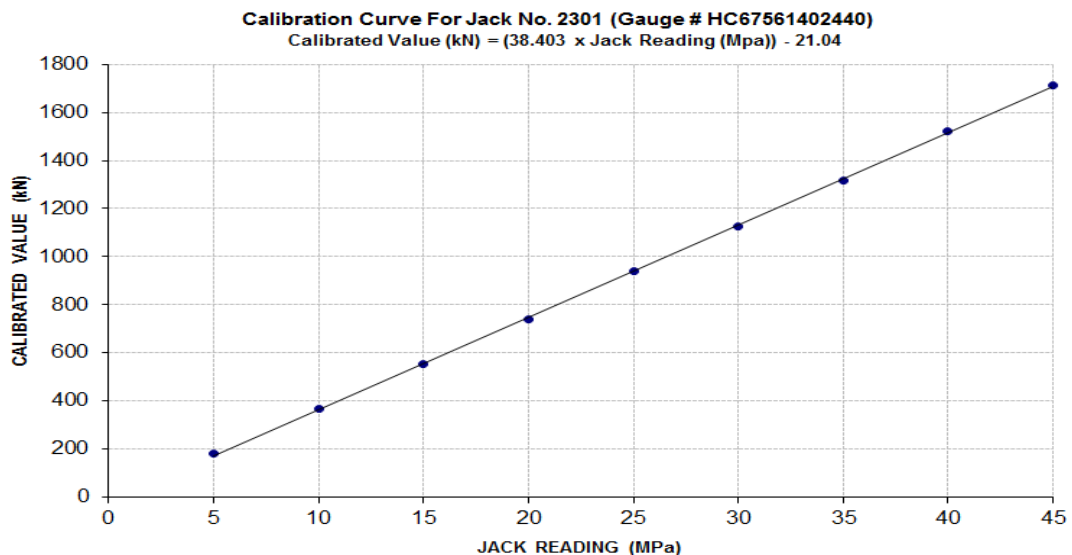
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -13/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2301, 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)	17400	35600	55200	73400	93200	112400	131800	151200	170200
	(kN)	171	349	542	720	914	1103	1293	1483	1670
Calibrated Pressure (Mpa)	4.5	9.3	14.4	19.1	24.2	29.2	34.3	39.3	44.3	

The Ram Area of Jack = 377 cm²



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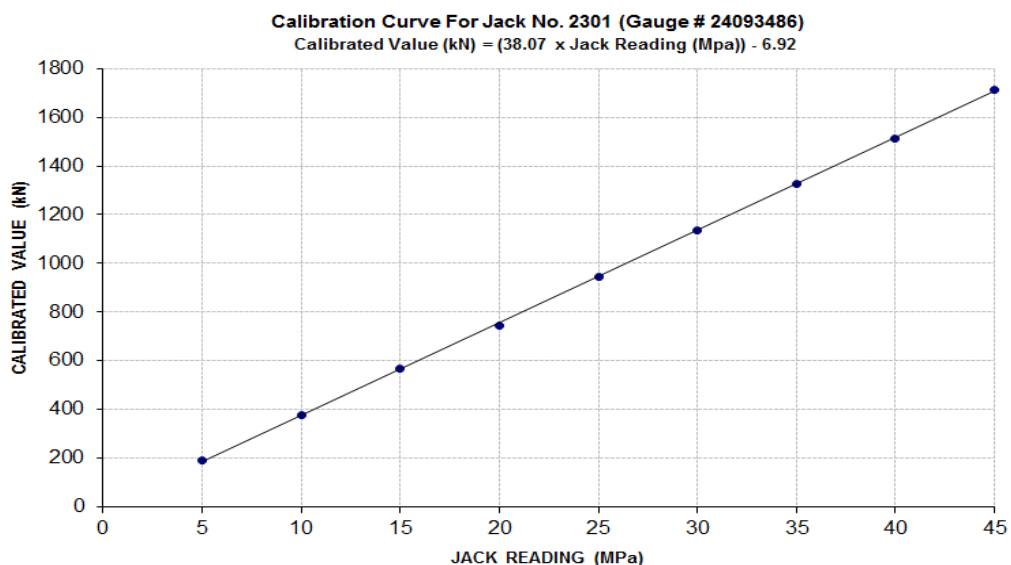
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -14/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2301, Gauge No. 24093486) 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	76000	96200	115600	135200	154400	174400
	(kN)	188	375	565	746	944	1134	1326	1515	1711
Calibrated Pressure (Mpa)	5.0	9.9	15.0	19.8	25.0	30.1	35.2	40.2	45.4	

The Ram Area of Jack = 377 cm²



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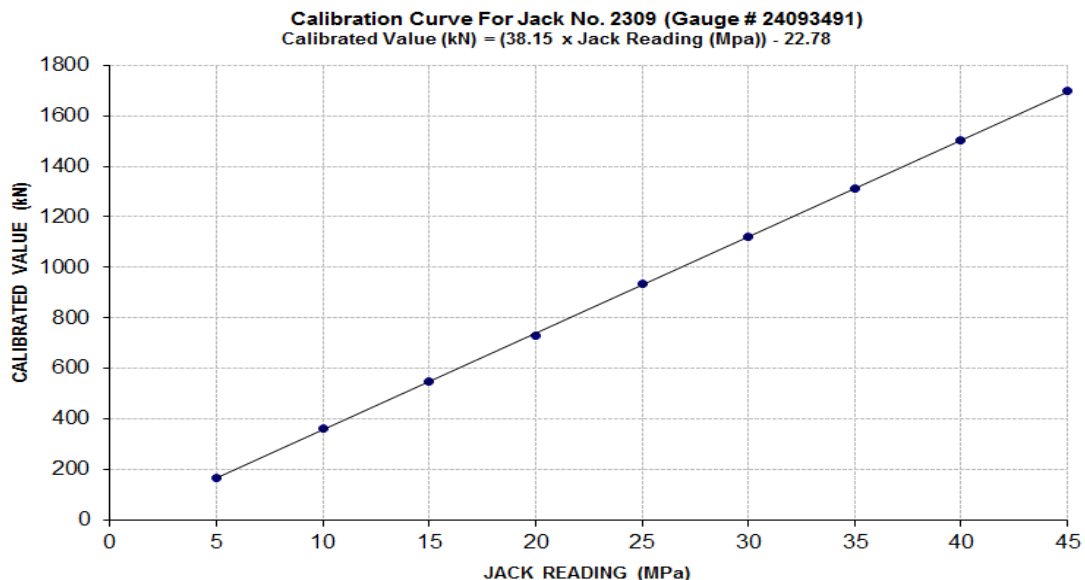
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -15/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2309, Gauge No. 24093491) 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)	17200	37000	56000	74600	95200	114400	133600	153200	173000
	(kN)	169	363	549	732	934	1122	1311	1503	1697
Calibrated Pressure (Mpa)	4.5	9.6	14.6	19.4	24.8	29.8	34.8	39.9	45.0	

The Ram Area of Jack = 377 cm²



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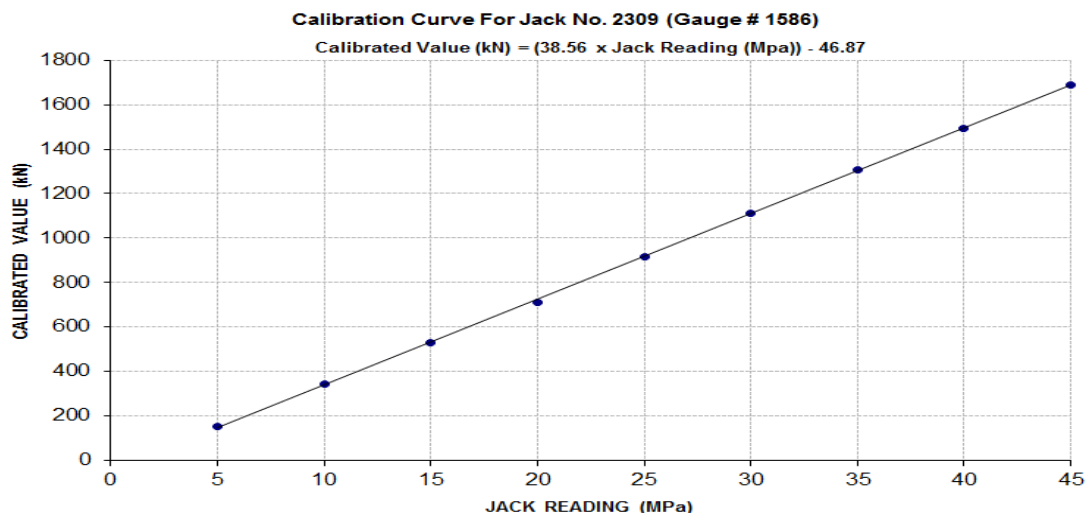
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -16/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2309, 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)	15400	35200	53800	72400	93400	113200	133200	152400	172400
	(kN)	151	345	528	710	916	1110	1307	1495	1691
Calibrated Pressure (Mpa)	4.0	9.2	14.0	18.8	24.3	29.4	34.6	39.6	44.8	

The Ram Area of Jack = 377 cm²



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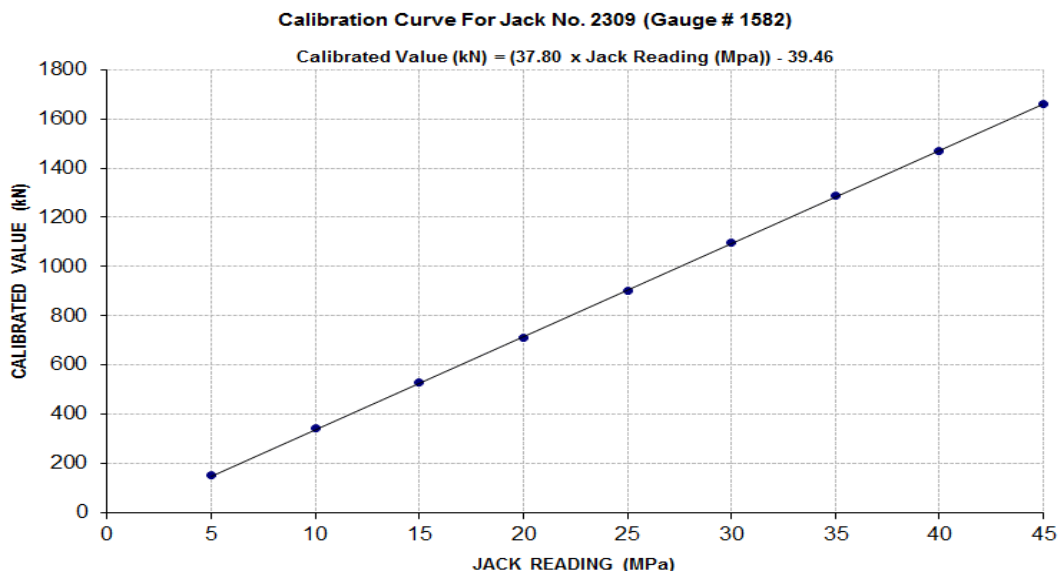
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -17/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2309, 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)	15400	34800	53800	72400	92000	111600	131400	150000	169400
	(kN)	151	341	528	710	903	1095	1289	1472	1662
Calibrated Pressure (Mpa)	4.0	9.1	14.0	18.8	23.9	29.0	34.2	39.0	44.1	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

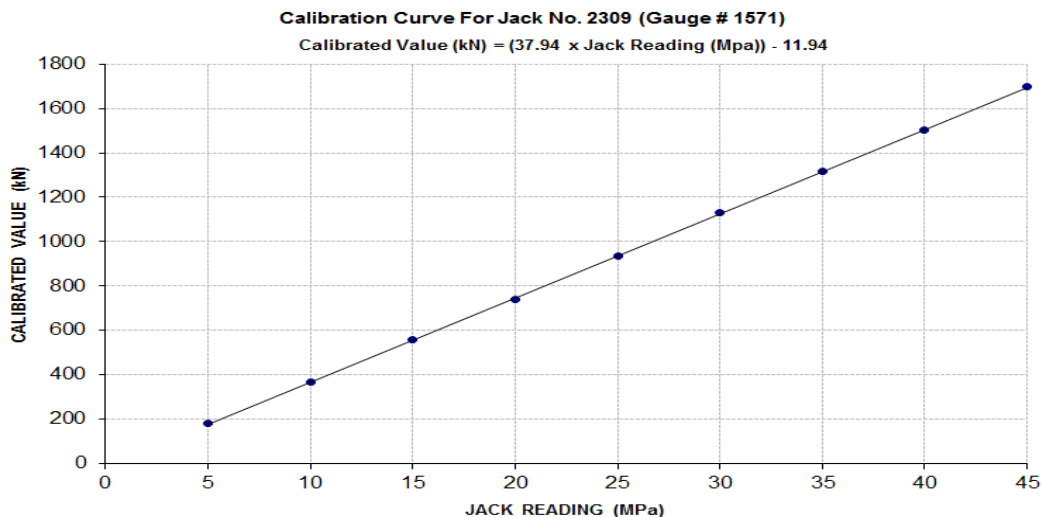
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -18/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2309, 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)	18400	37400	57000	75400	95200	115400	134200	153200	173000
	(kN)	181	367	559	740	934	1132	1317	1503	1697
Calibrated Pressure (Mpa)	4.8	9.7	14.8	19.6	24.8	30.0	34.9	39.9	45.0	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

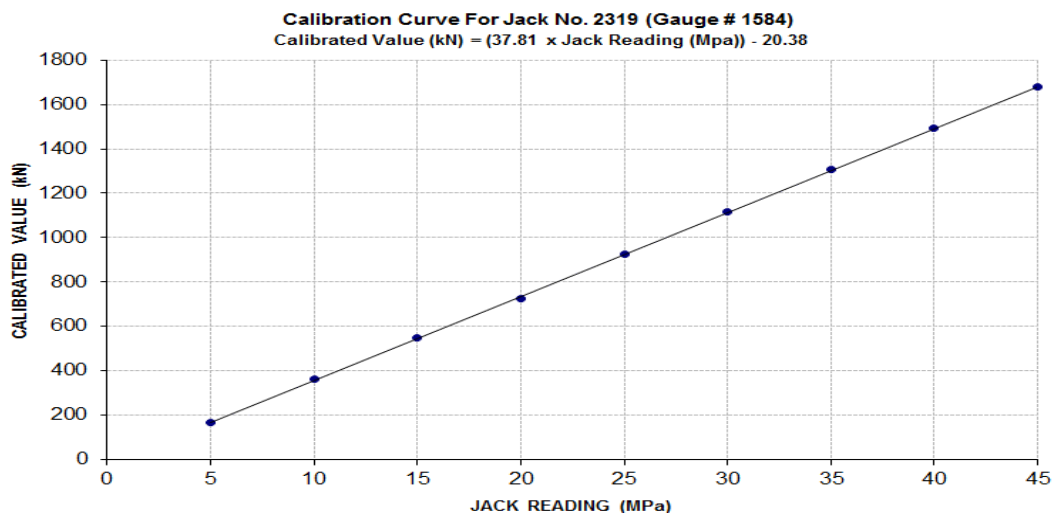
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -19/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2319, 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)	17200	36800	56000	74000	94200	113800	133200	152200	171200
	(kN)	169	361	549	726	924	1116	1307	1493	1679
Calibrated Pressure (Mpa)	4.5	9.6	14.6	19.2	24.5	29.6	34.6	39.6	44.5	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

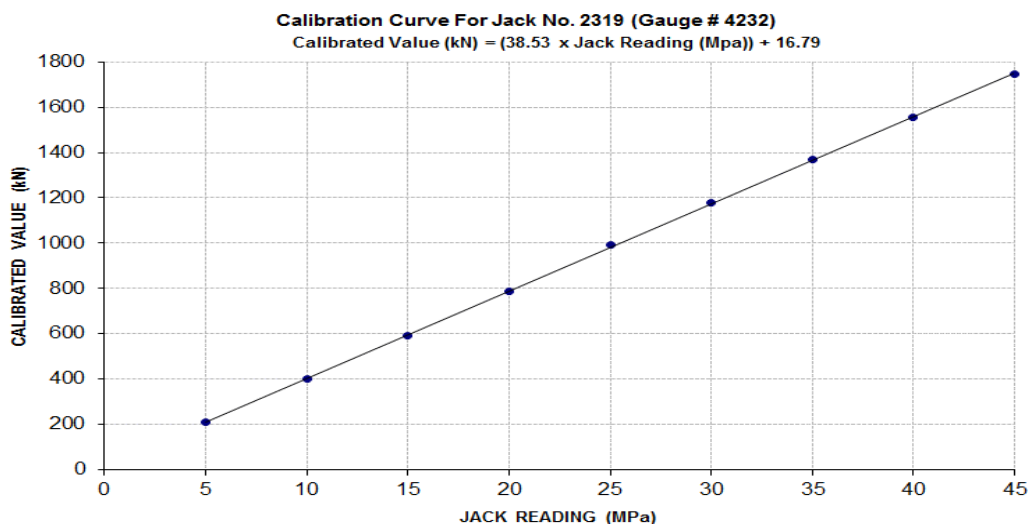
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -20/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2319, Gauge No. 4232) 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)	21200	40800	60200	80000	101200	139400	139400	158400	178000
	(kN)	208	400	591	785	993	1177	1368	1554	1746
Calibrated Pressure (Mpa)	5.5	10.6	15.7	20.8	26.3	31.2	36.3	41.2	46.3	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

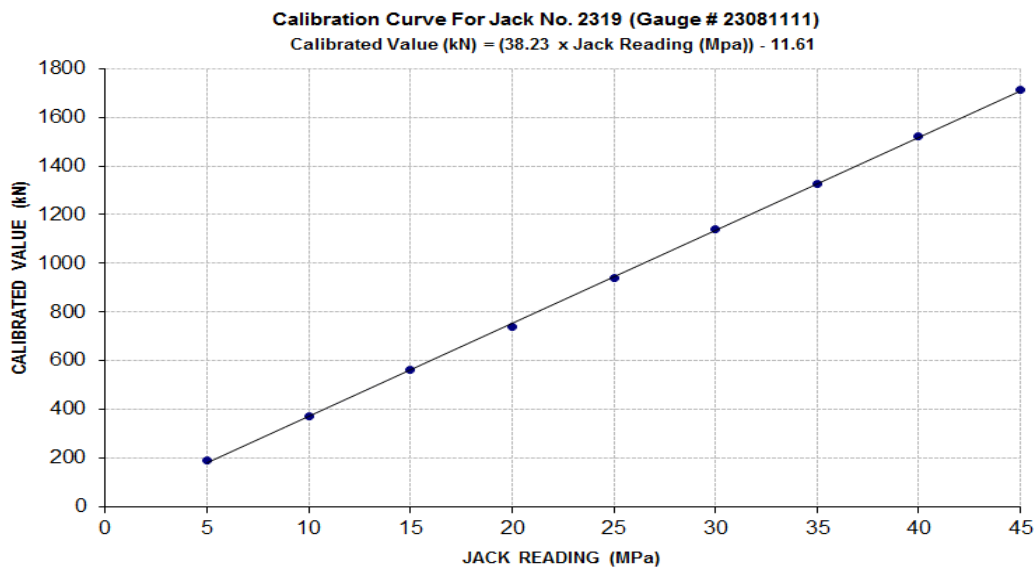
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -21/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2319, Gauge No. 23081111) 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	38000	57200	75200	96000	116000	135200	155000	174600
	(kN)	188	373	561	738	942	1138	1326	1521	1713
Calibrated Pressure (Mpa)	5.0	9.9	14.9	19.6	25.0	30.2	35.2	40.3	45.4	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

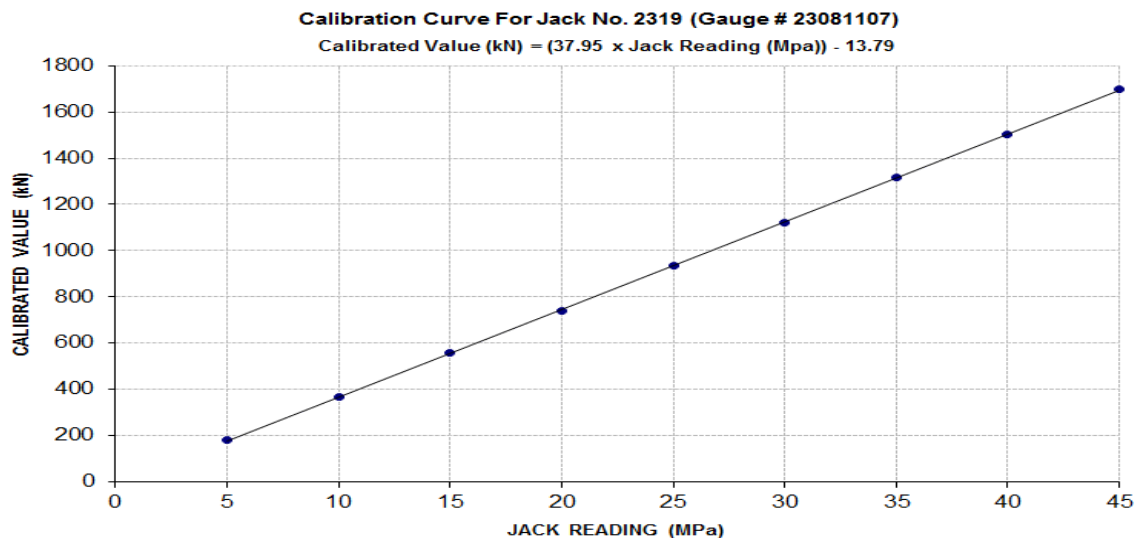
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -22/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 2319, Gauge No. 23081107) 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)	18400	37400	56800	75200	95200	114200	134000	153400	173200
	(kN)	181	367	557	738	934	1120	1315	1505	1699
Calibrated Pressure (Mpa)	4.8	9.7	14.8	19.6	24.8	29.7	34.9	39.9	45.1	

The Ram Area of Jack = 377 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

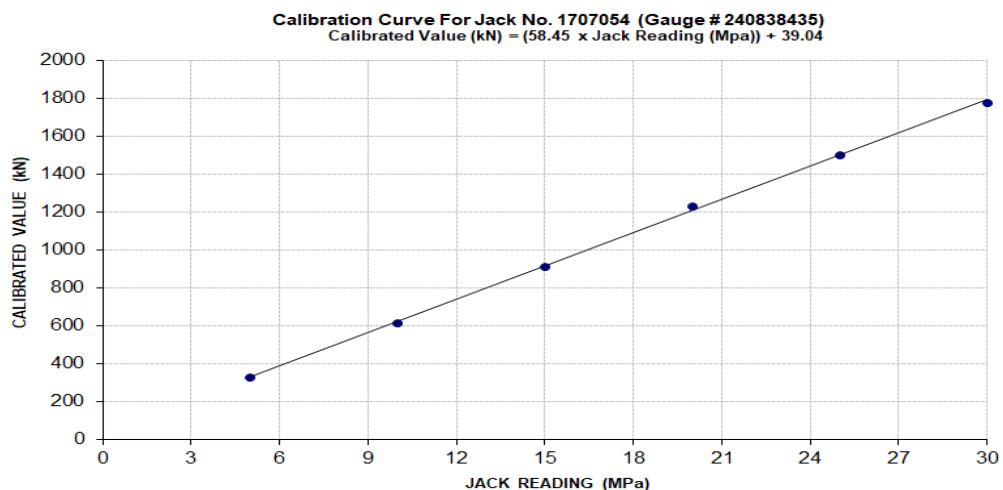
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -23/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707054, Gauge No. 240838435) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	33400	63000	93200	125400	153000	181500
	(kN)	328	618	914	1230	1501	1781
Calibrated Pressure (Mpa)	5.7	10.7	15.8	21.3	26.0	30.8	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

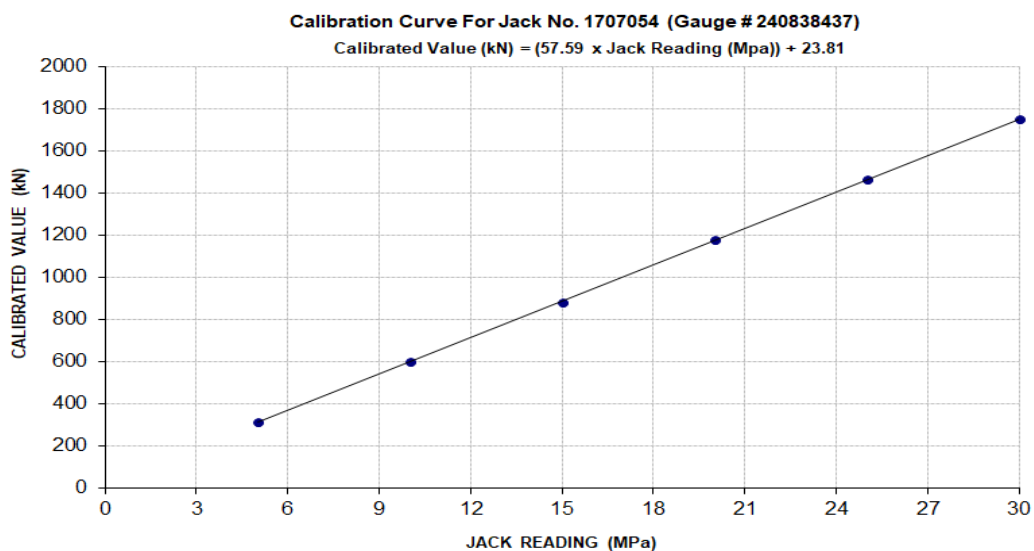
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -24/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707054, Gauge No. 240838437) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	32000	61200	90000	120400	149200	178400
	(kN)	312	600	883	1181	1464	1750
Calibrated Pressure (Mpa)	5.4	10.4	15.3	20.5	25.4	30.3	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures

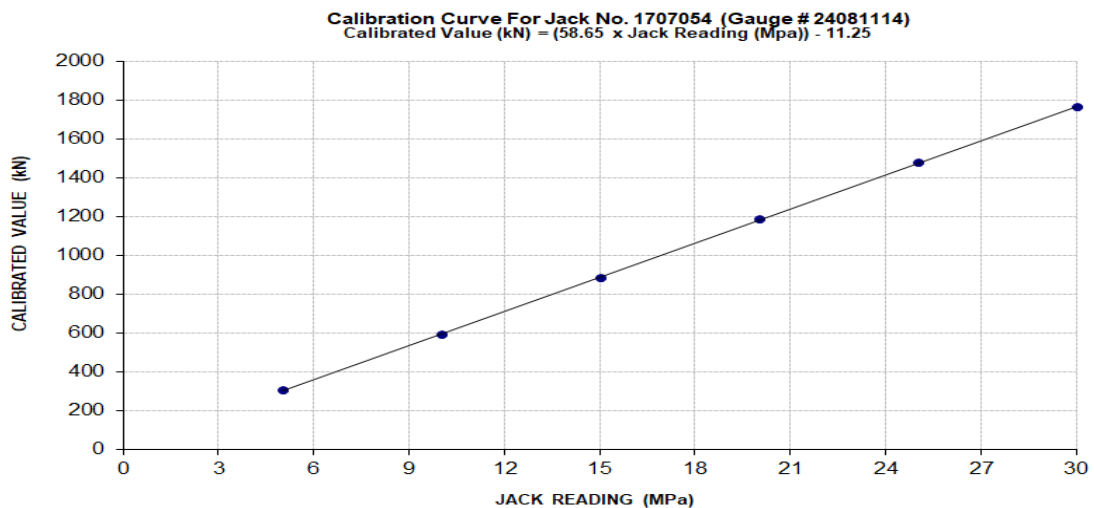
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -25/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the
subject cited above. One Hydraulic Jack (Jack No. 1707054, Gauge No. 24081114) as
received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	31200	60800	90200	121200	151200	180000
	(kN)	306	596	885	1189	1483	1766
Calibrated Pressure (Mpa)	5.3	10.3	15.3	20.6	25.7	30.6	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

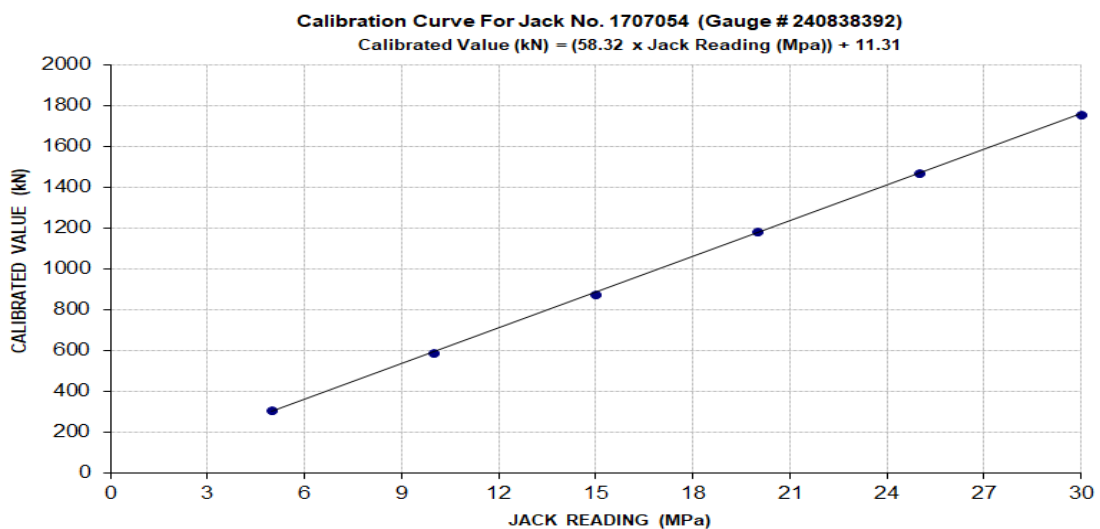
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -26/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707054, Gauge No. 240838392) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	31400	60200	89400	120800	150000	179300
	(kN)	308	591	877	1185	1472	1759
Calibrated Pressure (Mpa)	5.3	10.2	15.2	20.5	25.5	30.5	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

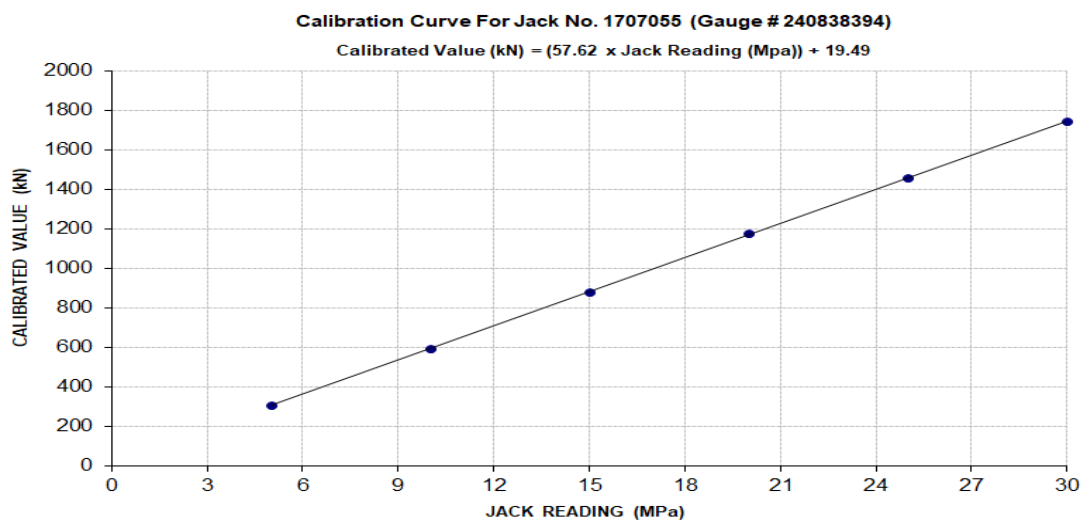
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -27/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707055, Gauge No. 240838394) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	31400	60400	90000	120200	148600	178000
	(kN)	308	593	883	1179	1458	1746
Calibrated Pressure (Mpa)	5.3	10.3	15.3	20.4	25.3	30.2	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

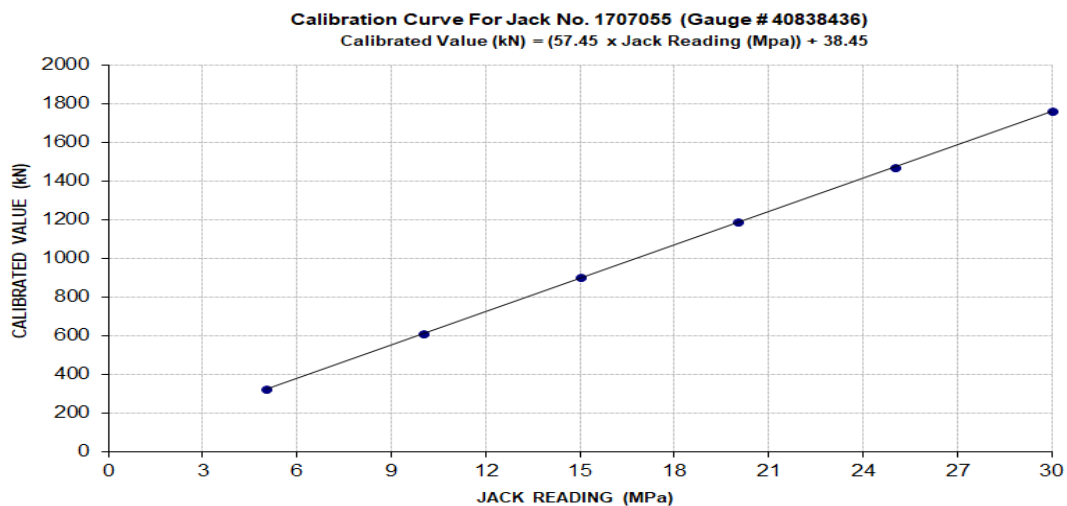
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -28/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707055, Gauge No. 240838436) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	33200	62200	92000	121400	150000	179600
	(kN)	326	610	903	1191	1472	11762
Calibrated Pressure (Mpa)	5.6	10.6	15.6	20.6	25.5	30.5	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

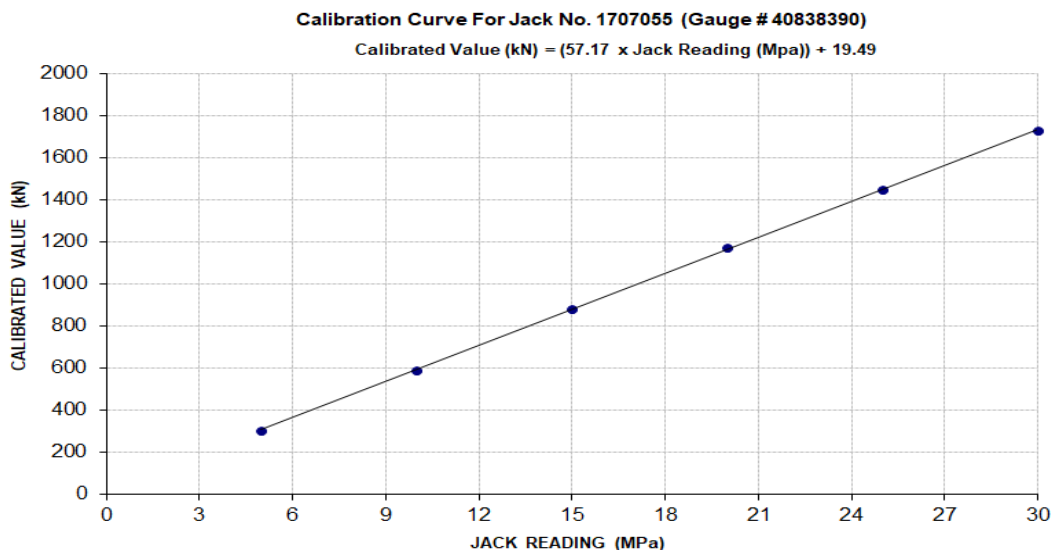
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -29/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707055, Gauge No. 240838390) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	31000	59800	89600	119400	147800	176200
	(kN)	304	587	879	1171	1450	1729
Calibrated Pressure (Mpa)	5.3	10.2	15.2	20.3	25.1	29.9	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

Ref: CED/TFL/09/7466

Dated: 04-09-2025

Date of Test: 08-09-2025 (Dr. M. Kashif)

To,

Syed Rizwan Ali (Site Manager)
Descon Engineering Ltd.

**Construction of Mohmand Dam Hydropower Project- Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures**

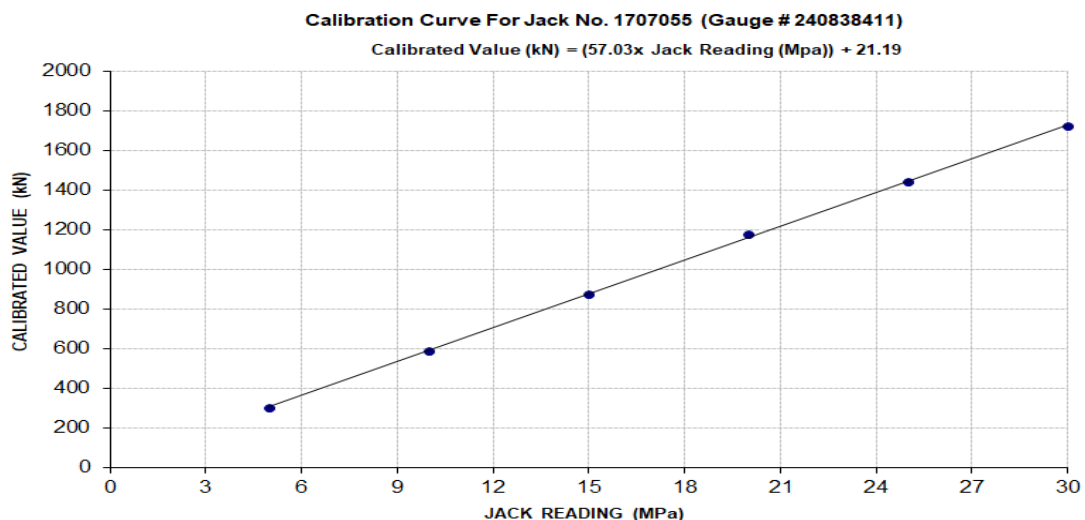
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7466) (Page -30/30)

Reference to your Letter No. MDHP-DEL-LABT-273, Dated: 02/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 1707055, Gauge No. 240838411) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 30 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	
Calibrated Load	(kg)	31000	60000	89200	120000	147200	176000
	(kN)	304	589	875	1177	1444	1727
Calibrated Pressure (Mpa)	5.3	10.2	15.2	20.4	25.0	29.9	

The Ram Area of Jack = 577 cm²



Test Performed and Verified by:

To,

Noor Ul Huda (Q.S)
Professional Construction Services (Pvt.) Ltd.
Academics Block, Admission & Marketing Office, Namal University, Mianwali
Witness by: Mr. Khadim Hussain

Reference # CED/TFL 7477 (Dr. M Kashif)
Reference of the request letter # PCS/25/Eng-68-A

Dated: 08-09-2025
Dated: 05-09-2025

Tension Test Report (Page-1/1)

Date of Test 08-09-2025
Gauge Length 8 inches
Description Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in ²)		Yield Load (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3	0.375	0.110	0.1103	36.00	46.20	73544	73366	94382	94154	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 1 Samples for Tensile and 1 Samples for Bend test

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by: