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/11/6047 Dated: 27-11-2024

Dated of Test: 03-12-2024

To

Resident Engineer
NESPAK
Rain Water Management Drainage Arrangement for Sore Point at Nishter Park Sports Complex (Qaddafi Stadium), Lahore.

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]**

Reference to your letter No. 3882/MZA/420, dated 18.11.2024 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.74	7.34	15.87	11.98	1.94	11800	14500	3551	4364

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/11/6059 Dated: 28-11-2024

Dated of Test: 03-12-2024

To

Material / QC Engineer
NESPAK
Punjab Rural Municipal Services Company
Procurement of Civil Works, South-III, Tehsil Taunsa Package TAU-III
(Village: Sonra & Dona)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]**

Reference to your letter No. NESPAK/PRSWSSP/TAUNSA/ME/417, dated 04.11.2024 on the subject cited above. Three R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.37	15.98	12.07	1.96	12500	15200	3719	4523
2	12	7.79	7.38	16.14	11.99	2.07	12200	16800	3648	5024
3	12	7.78	7.35	15.94	12.08	1.93	11900	15000	3546	4470

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6063 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

GM QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. Nil, dated 29.11.2024 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.75	7.28	12.56	9.44	1.56	11500	14300	4430	5508
2	9	7.83	7.28	12.60	9.02	1.79	8000	13000	3225	5241

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6065 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Resident Engineer
NESPAK
Improvement of Infrastructure in Mohlanwal Housing Scheme Lahore (Package-3)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page -1/1)

Reference to your letter No. 2599/13/RK/05/MWL/P-3/288, dated 18.11.2024 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.80	7.32	16.14	11.96	2.09	12500	15500	3779	4686
2	15	7.81	7.35	19.61	14.90	2.35	7500	15000	1812	3624

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

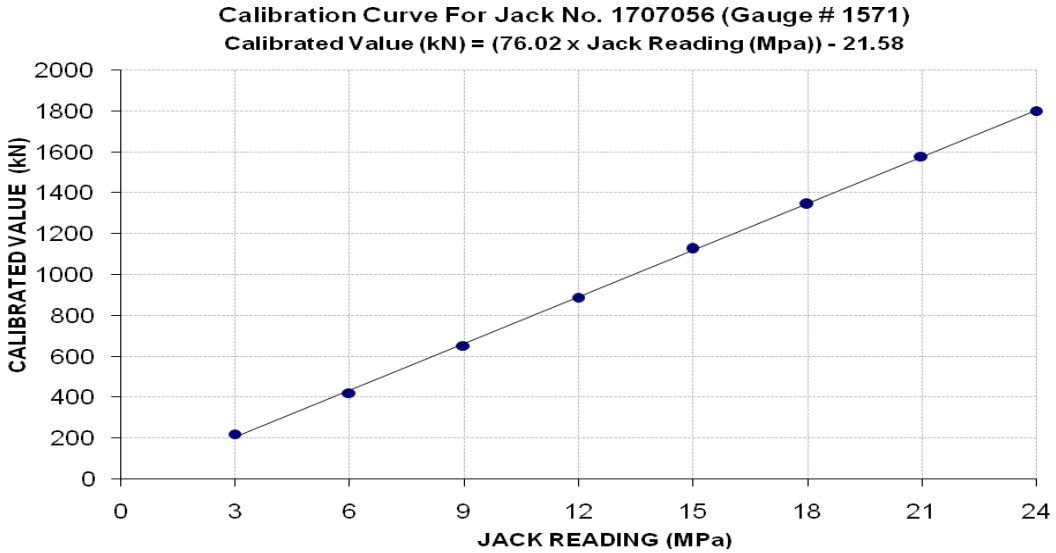
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -1/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 1707056, Gauge No. 1571) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 24 (MPa)

Hydraulic Jack Reading (MPa)		3	6	9	12	15	18	21	24
Calibrated Load	(kg)	22600	43000	66600	90600	114800	137200	161000	183600
	(kN)	222	422	653	889	1126	1346	1579	1801
Calibrated Pressure (Mpa)		2.9	5.5	8.6	11.7	14.8	17.7	20.7	23.7

The Ram Area of Jack = 761 cm^2



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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

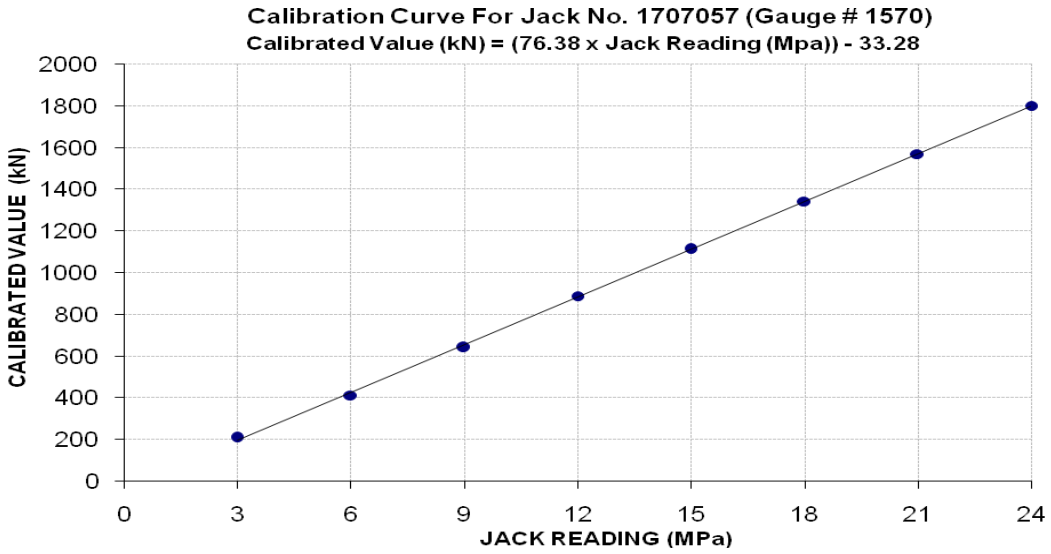
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -2/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 1707057, Gauge No. 1570) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 24 (MPa)

Hydraulic Jack Reading (MPa)		**3**	**6**	**9**	**12**	**15**	**18**	**21**	**24**
Calibrated Load	**(kg)**	**21400**	**42200**	**65400**	**90600**	**113600**	**137000**	**160000**	**183600**
	(kN)	**210**	**414**	**642**	**889**	**1114**	**1344**	**1570**	**1801**
Calibrated Pressure (Mpa)		**2.8**	**5.4**	**8.4**	**11.7**	**14.6**	**17.7**	**20.6**	**23.7**

The Ram Area of Jack = 761 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

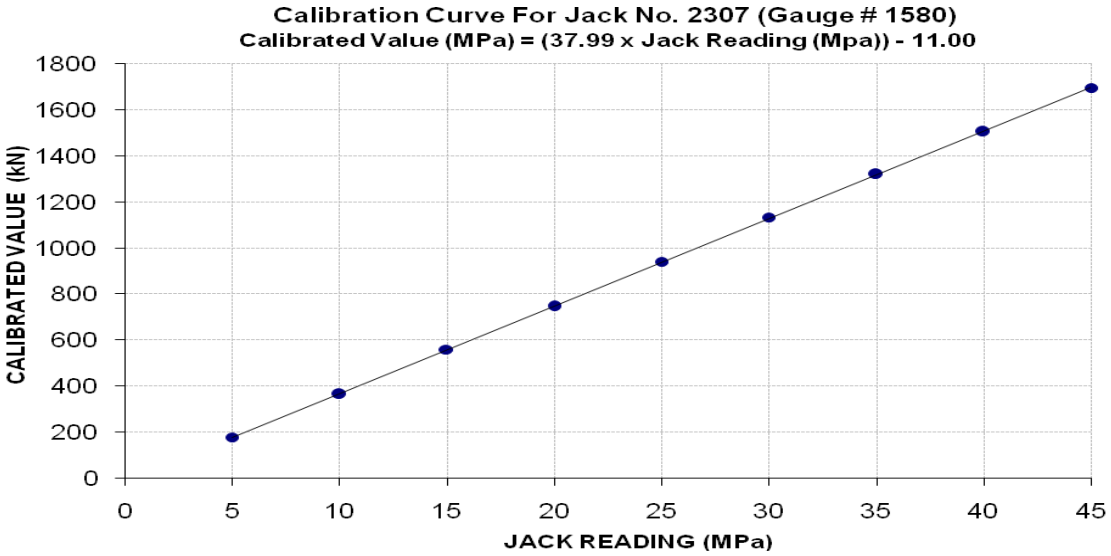
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -3/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2307, Gauge No. 1580) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40	45
Calibrated Load	(kg)	18200	37200	57200	76200	96000	115600	134600	153400	173000
	(kN)	179	365	561	748	942	1134	1320	1505	1697
Calibrated Pressure (Mpa)		4.7	9.7	14.9	19.8	25.0	30.1	35.0	39.9	45.0

The Ram Area of Jack = 377 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

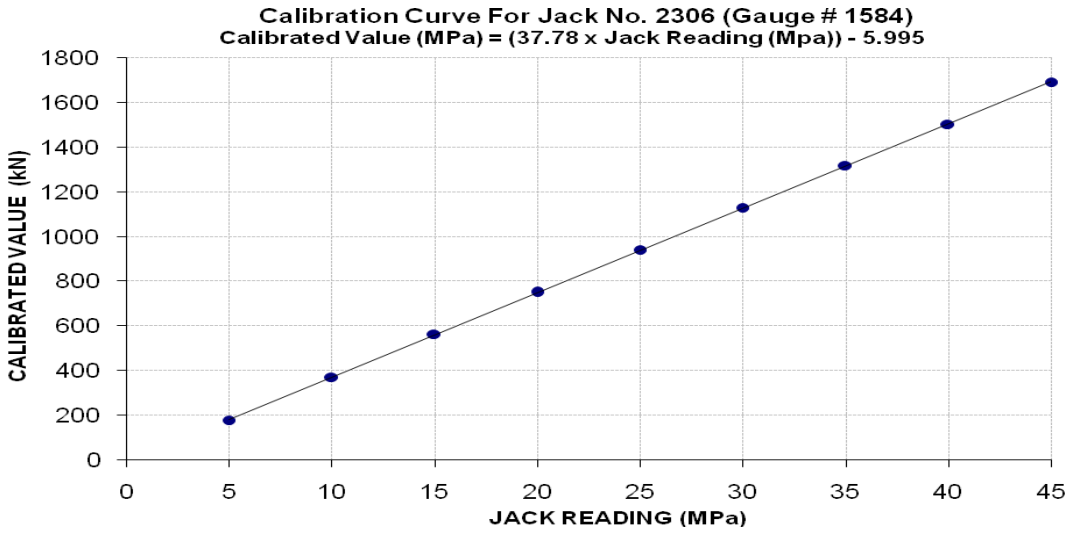
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -4/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2306, Gauge No. 1584) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40	45
Calibrated Load	(kg)	18200	37800	57400	76600	96000	115200	134400	153200	172400
	(kN)	179	371	563	751	942	1130	1318	1503	1691
Calibrated Pressure (Mpa)		4.7	9.8	14.9	19.9	25.0	30.0	35.0	39.9	44.8

The Ram Area of Jack = 377 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

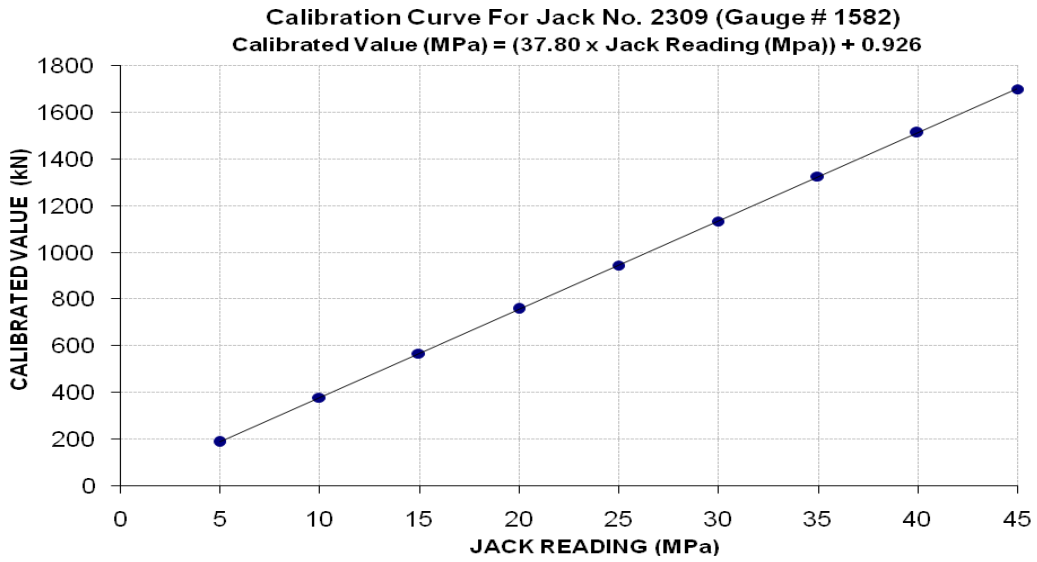
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -5/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 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 - 50 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40	45
Calibrated Load	(kg)	19200	38600	58000	77400	96400	115600	135200	154200	173400
	(kN)	188	379	569	759	946	1134	1326	1513	1701
Calibrated Pressure (Mpa)		5.0	10.0	15.1	20.1	25.1	30.1	35.2	40.1	45.1

The Ram Area of Jack = 377 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

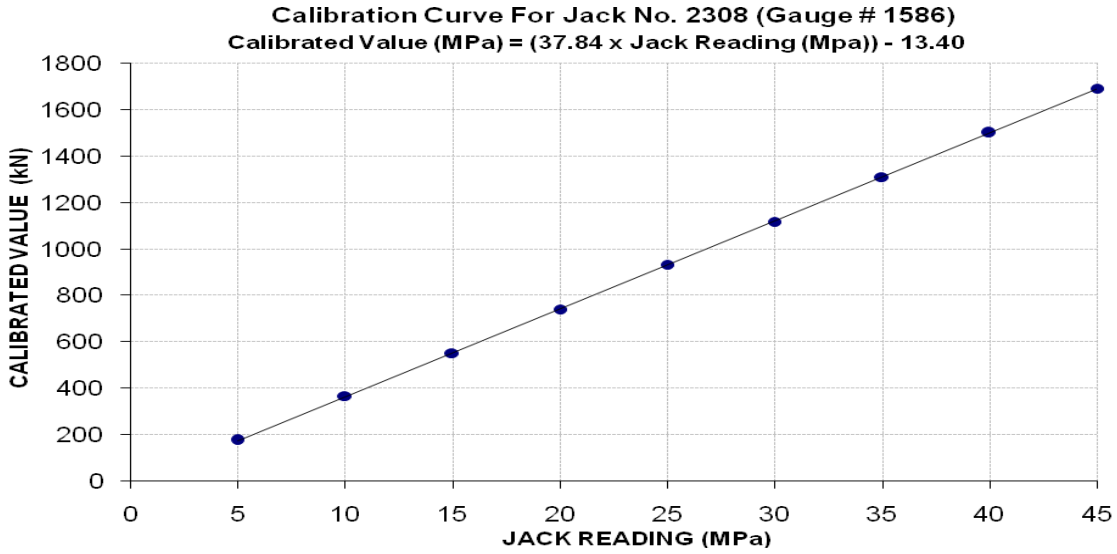
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -6/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2308, Gauge No. 1586) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)		**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**
Calibrated Load	**(kg)**	**18000**	**37400**	**56400**	**75600**	**95200**	**114000**	**133600**	**153000**	**172400**
	(kN)	**177**	**367**	**553**	**742**	**934**	**1118**	**1311**	**1501**	**1691**
Calibrated Pressure (Mpa)		**4.7**	**9.7**	**14.7**	**19.7**	**24.8**	**29.7**	**34.8**	**39.8**	**44.8**

The Ram Area of Jack = 377 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

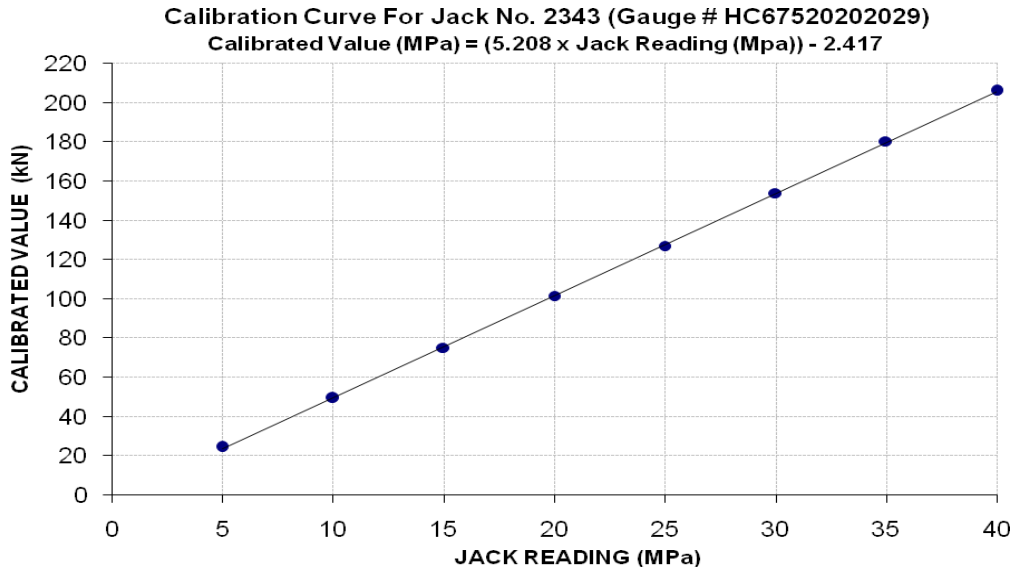
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -7/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2343, Gauge No. HC675202029) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)		**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Calibrated Load	**(kg)**	**2500**	**5050**	**7650**	**10350**	**12950**	**15700**	**18400**	**21000**
	(kN)	**25**	**50**	**75**	**102**	**127**	**154**	**181**	**206**
Calibrated Pressure (Mpa)		**4.8**	**9.7**	**14.7**	**19.9**	**24.9**	**30.2**	**35.3**	**40.3**

The Ram Area of Jack = 51.05 cm^2



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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

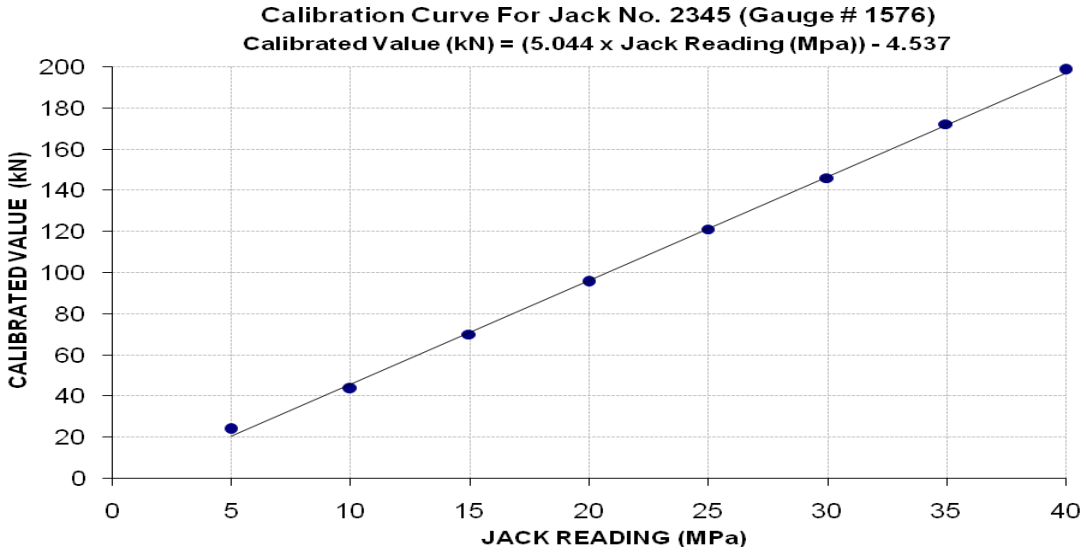
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -8/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2345, Gauge No. 1576) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)		**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Calibrated Load	**(kg)**	**2450**	**4850**	**7550**	**10150**	**12750**	**15300**	**17950**	**20650**
	(kN)	**24**	**48**	**74**	**100**	**125**	**150**	**176**	**203**
Calibrated Pressure (Mpa)		**4.7**	**9.3**	**14.5**	**19.5**	**24.5**	**29.4**	**34.5**	**39.7**

The Ram Area of Jack = 51.05 cm^2



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

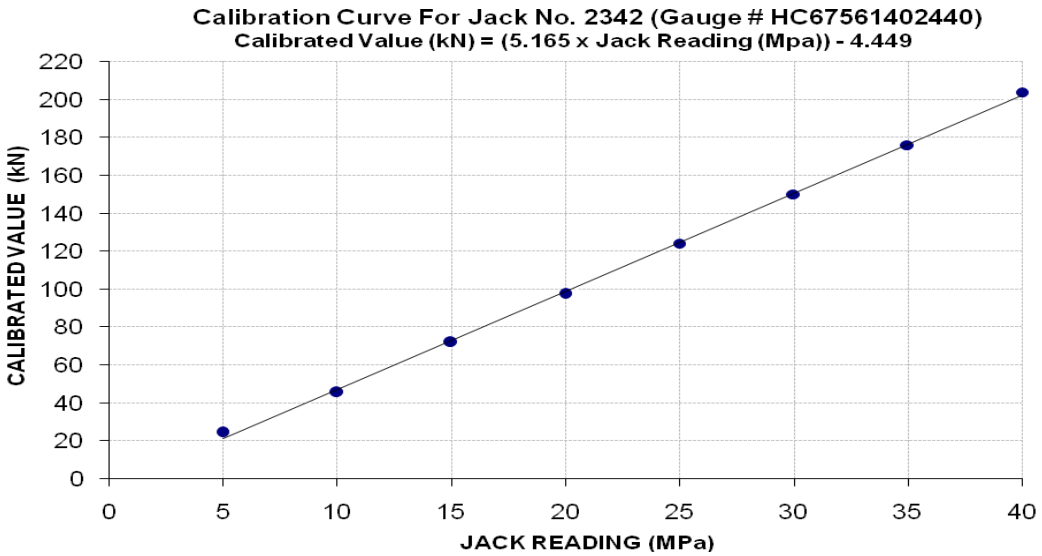
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page -9/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2342, Gauge No. HC67561402440) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40
Calibrated Load	(kg)	2500	5050	7750	10350	13050	15700	18350	21200
	(kN)	25	50	76	102	128	154	180	208
Calibrated Pressure (Mpa)		4.8	9.7	14.9	19.9	25.1	30.2	35.3	40.7

The Ram Area of Jack = 51.05 cm^2



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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

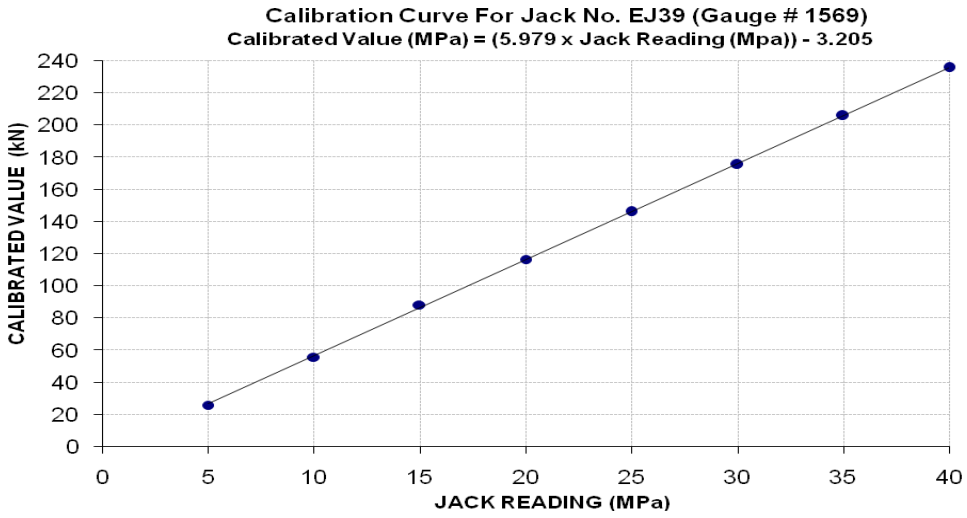
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/6068)** (Page - 10/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. EJ39, Gauge No. 1569) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)		**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Calibrated Load	**(kg)**	**2650**	**5700**	**9000**	**11900**	**14900**	**17900**	**21000**	**24050**
	(kN)	**26**	**56**	**88**	**117**	**146**	**176**	**206**	**236**
Calibrated Pressure (Mpa)		**5.1**	**11.0**	**17.3**	**22.9**	**28.6**	**34.4**	**40.3**	**46.2**

The Ram Area of Jack = 51.05 cm^2



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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/11/6068)** (Page # 11/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 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 (7116538)	Dial Gauge No. II (3B22914)	Dial Gauge No. III (HC19017)	Dial Gauge No. IV (6310176)
400	403	393	397	396
800	804	794	796	797
1200	1204	1193	1196	1196
1600	1604	1592	1596	1596
2000	2004	1992	1996	1996
2400	2404	2391	2396	2396
2800	2802	2793	2796	2796
3200	3203	3191	3196	3196
3600	3602	3592	3596	3596
4000	4003	3993	3996	3996
4400	4400	4391	4395	4395
4800	4799	4793	4794	4796
5000	4999	4993	4994	4996

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/11/6068)** (Page # 12/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 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 (7116483)	Dial Gauge No. II (3B22903)	Dial Gauge No. III (3B25649)	Dial Gauge No. IV (CD054756)
400	400	397	380	397
800	797	798	781	799
1200	1198	1197	1180	1200
1600	1598	1597	1581	1600
2000	1997	1998	1981	2000
2400	2397	2398	2381	2401
2800	2796	2799	2781	2800
3200	3196	3200	3181	3200
3600	3595	3600	3582	3600
4000	3994	4001	3985	4000
4400	4394	4401	4384	4399
4800	4793	4802	4784	4799
5000	4990	5002	4981	4996

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/11/6068)** (Page # 13/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 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 (6614818)	Dial Gauge No. II (3B22902)	Dial Gauge No. III (3B22946)	Dial Gauge No. IV (3B22897)
400	400	394	392	394
800	800	794	790	793
1200	1202	1194	1191	1193
1600	1602	1594	1590	1592
2000	2003	1994	1988	1990
2400	2404	2393	2389	2390
2800	2805	2792	2788	2790
3200	3206	3192	3189	3191
3600	3607	3591	3589	3590
4000	4007	3990	3988	3991
4400	4407	4389	4389	4390
4800	4805	4789	4786	4790
5000	5004	4988	4986	4990

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UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/11/6068)** (Page # 14/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 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 (4202645)	Dial Gauge No. II (OC12688)	Dial Gauge No. III (3402016)	Dial Gauge No. IV (3714428)
100	93	95	96	92
200	192	194	195	191
300	291	294	295	291
400	392	394	394	390
500	491	493	494	490
600	591	593	594	590
700	690	693	693	690
800	790	793	793	785
900	889	893	893	885
1000	988	992	993	985

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/11/6068)** (Page # 15/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 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 (4203040)	Dial Gauge No. II (3421608)	Dial Gauge No. III (3422292)	Dial Gauge No. IV (3714476)
100	84	93	95	98
200	182	193	195	198
300	283	292	294	297
400	383	392	394	397
500	482	492	494	496
600	582	592	594	596
700	681	691	694	695
800	781	791	794	795
900	881	890	893	894
1000	981	993	993	993

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6068 Dated: 29-11-2024

Dated of Test: 03-12-2024

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/11/6068)** (Page # 16/16)

Reference to your Letter No. MDHP-DEL-LABT-239, dated: 29/11/2024 on the subject cited above. Three 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 (3714441)	Dial Gauge No. II (3224648)	Dial Gauge No. III (2A27040)
100	95	96	95
200	195	195	195
300	295	295	295
400	394	394	394
500	494	494	494
600	594	594	594
700	693	694	694
800	793	794	793
900	893	893	893
1000	992	993	992

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/11/6070 Dated: 02-12-2024

Dated of Test: 03-12-2024

To

Dy Dir Infra
Defence Housing Authority
Gujranwala
"Sector J"

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page -1/1)

Reference to your letter No. 111/15/DD/Lab/J/478, dated 25.11.2024 on the subject cited above. Four R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.78	7.26	10.87	8.75	1.06	8500	10500	3543	4377
2	12	7.76	7.29	16.06	12.00	2.03	13200	17000	3995	5145
3	15	7.81	7.33	19.49	14.88	2.30	8500	15600	2061	3783
4	21	7.74	7.24	26.69	20.99	2.85	16000	22000	2783	3827

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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2. The above results pertain to sample /samples supplied to this laboratory.

3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

STRUCTURAL ENGINEERING DIVISION

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

To,

Dy Dir Infra
Defence Housing Authority, Gujranwala
"Plot 13 & 16 Comm Plaza."

Reference # CED/TFL **6072** (Dr. Ali Ahmed) Dated: 02-12-2024
Reference of the request letter # 111/DD/Dev/Plot 13 & 16 Comm/62 Dated: 14-11-2024

Tension Test Report (Page -1/1)

Date of Test 03-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.108	3770	4960	75600	77260	99400	101700	1.20	15.0	
2	0.363	3	0.369	0.11	0.107	3740	4940	75000	77220	99000	102000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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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2. The above results pertain to sample /samples supplied to this laboratory.
3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

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 (QCD)
WASA, LDA, Lahore.
(M/s Al Madina Pipe Industry).

Reference # CED/TFL **6073** (Dr. Ali Ahmed) Dated: 02-12-2024
Reference of the request letter # QCD/2401 Dated: 02-12-2024

Tension Test Report (Page -1/1)

Date of Test 03-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3	0.376	0.11	0.111	3790	4960	76000	75370	99400	98700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,

Project Engineer
Baig Construction Co.
Construction of Jinnah Square Mall, Raiwind Road, Lahore.

Reference # CED/TFL **6074** (Dr. Ali Ahmed) Dated: 02-12-2024
Reference of the request letter # ST/UET/02122024/3000 Dated: 02-12-2024

Tension Test Report (Page -1/1)

Date of Test 03-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.108	3520	5450	70600	72160	109200	111800	1.00	12.5	
2	0.375	3	0.375	0.11	0.110	3410	5420	68400	68170	108600	108400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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 (QCD)
WASA, LDA, Lahore.
(M/s Shezone Pipe Industry).

Reference # CED/TFL **6075** (Dr. Ali Ahmed) Dated: 02-12-2024
Reference of the request letter # QCD/2370 Dated: 28-11-2024

Tension Test Report (Page -1/1)

Date of Test 03-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3/8	0.377	0.11	0.112	3410	4990	68400	67280	100000	98500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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

Resident Engineer
NESPAK – TurkPak JV
Reconstruction of Lady Willingdon Hospital, Lahore.

Reference # CED/TFL **6076** (Dr. Ali Ahmed) Dated: 02-12-2024
Reference of the request letter # 4729/13/MA/04/141 Dated: 29-11-2024

Tension Test Report (Page -1/1)

Date of Test 03-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3540	5120	71000	71320	102600	103200	1.10	13.8	AF Steel
2	0.371	3	0.373	0.11	0.109	3490	5050	70000	70540	101200	102100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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,

Manager Procurement
Gharibwal Cement Limited.
Lahore

Reference # CED/TFL **6078** (Dr. Ali Ahmed) Dated: 03-12-2024
Reference of the request letter # GCL/Purchase/UET/TEST/008 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 03-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.407	10	9.92	0.12	0.120	3920	5860	72017	72150	107658	107900	1.30	16.3	
2	0.410	10	9.95	0.12	0.120	3870	5810	71098	70800	106739	106300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test
10mm Dia Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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Pakistan. Ph: 92-42-99029202

To,

M/S ITC
Sialkot

Reference # CED/TFL **6085** (Dr. Ali Ahmed) Dated: 03-12-2024
Reference of the request letter # Nil Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 03-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3	0.376	0.11	0.111	3790	4740	76000	75320	95000	94200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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

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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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