



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/12/4433
2023

Dated: 29-12-

Dated of Test: 09-01-2024

To

Resident Engineer
Asian Consulting Engineers Pvt. Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design & Construction Supervision of Cluster South-I

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page # 1/2)

Reference to your letter No. AsCE/PRSWSSP/CS1/SITE-043, dated 28.12.2023 on the subject cited above. One R.C.C. Pipes 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	7.78	7.32	15.94	12.06	1.94	10000	13200	3000	3959

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Dated: 29-12-2023

Dated of Test: 09-01-2024

To

Resident Engineer
Asian Consulting Engineers Pvt. Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design & Construction Supervision of Cluster South-I

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page # 2/2)

Reference to your letter No. AsCE/PRSWSSP/CS1/SITE-044, dated 28.12.2023 on the subject cited above. One R.C.C. Pipes 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	7.78	7.34	15.98	11.93	2.03	9500	13000	2869	3926

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/01/4443

Dated: 02-01-2024

Dated of Test: 09-01-2024

To

Material Engineer
NESPAK
Punjab Rural Minicipal Services Company
Procurement of Civil Works, South-III, Tehsil Taunsa Package TAU-04
(Villages: Tub and Basti Buzdar)

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

Reference to your letter No. NESPAK/PRSWSSP/TAUSA/RE/42, dated 14.12.2023 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	7.71	7.37	15.94	11.82	2.06	13500	19000	4099	5769
2	12	7.78	7.40	15.94	12.03	1.96	13000	18000	3865	5352

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/01/4446

Dated: 03-01-2024

Dated of Test: 09-01-2024

To

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

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

Reference to your letter No. Nil, dated 02.01.2024 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	7.81	7.28	12.60	9.07	1.77	8000	13000	3205	5209
2	9	7.77	7.28	12.32	9.12	1.60	4500	9500	1793	3785

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/01/4471

Dated: 08-01-2024

Dated: 09-01-2024

To

M/S China Gezhouba Group Company Limited, Pakistan
DESCON

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.

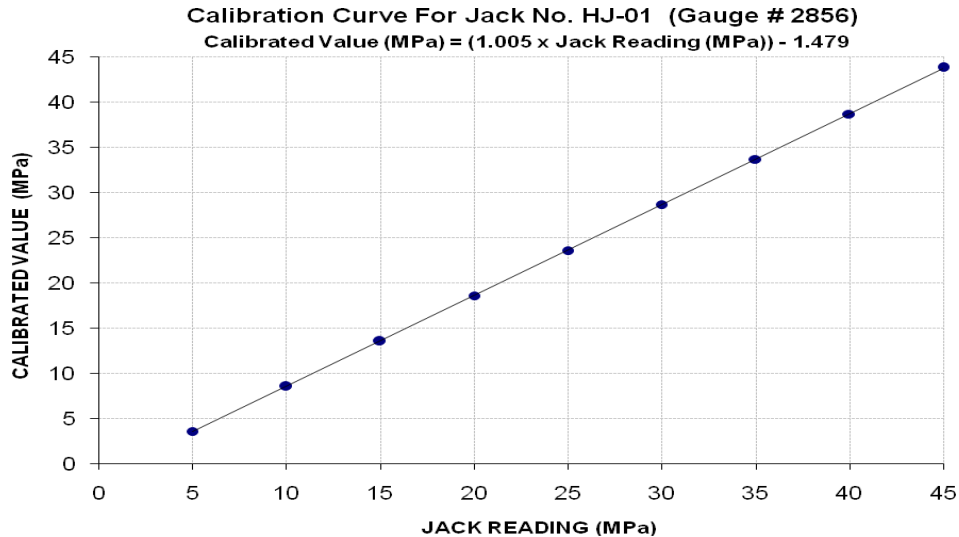
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/4471) (Page -1/2)

Reference to your Letter No. MDSYS-249, dated: 06/01/2024 on the subject cited above.
One Hydraulic Jack (Jack No. HJ-01, Gauge No. 2856) 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)	11000	26000	41200	56600	71800	87200	102400	117600	133200
Calibrated Pressure (Mpa)	3.62	8.56	13.56	18.63	23.63	28.70	33.70	38.70	43.84

The Ram Area of Jack = 298 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/01/4471

Dated: 08-01-2024

Dated: 09-01-2024

To

M/S China Gezhouba Group Company Limited, Pakistan
DESCON

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.

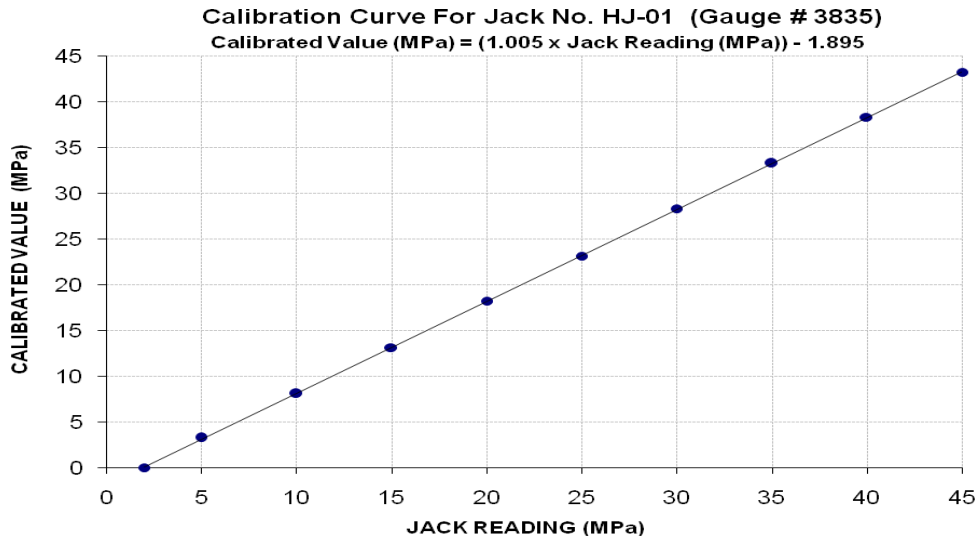
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/4471) (Page -2/2)

Reference to your Letter No. MDSYS-249, dated: 06/01/2024 on the subject cited above.
One Hydraulic Jack (Jack No. HJ-01, Gauge No. 3835) 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)	2	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	0	10000	24600	40000	55400	70400	86200	101200	116600	131400
Calibrated Pressure (Mpa)	0	3.29	8.10	13.16	18.23	23.17	28.37	33.30	38.37	43.24

The Ram Area of Jack = 298 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Manager
 United Lifestyle (Private) Limitd.
 High-Rise Building “Skyscrapers United” at Johar Town Lahore

Reference # CED/TFL 4474 (Dr. M Kashif)
 Reference of the request letter # ULS/2021-22-23/0055

Dated: 09-01-2024
 Dated: 08-01-2024

Tension Test Report (Page -1/1)

Date of Test 09-01-2024
 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	0.353	3	0.363	0.11	0.104	3590	5100	72000	76330	102200	108500	1.30	16.3	
2	0.370	3	0.372	0.11	0.109	3720	5300	74600	75480	106200	107600	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.

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To,

Assistant Project Director
Punjab Government Servants,
Housing Scheme, Sahiwal
“Construction of Jamia Masjid at Punjab Government Servants Housing Scheme,
Sahiwal.”

Reference # CED/TFL **4478** (Dr. Asad Ali)

Dated: 09-01-2024

Reference of the request letter # PGSHF/PD/SWL/7381

Dated: 30-12-2023

Tension Test Report (Page # 1/1)

Date of Test 09-01-2024

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	0.374	3/8	0.374	0.11	0.110	3770	4990	75600	75560	100000	100100	1.00	12.5	
2	0.378	3/8	0.376	0.11	0.111	3870	5050	77600	76800	101200	100300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Ali (Sub Engineer)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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