



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/07/5325
2024

Dated: 09-07-

Dated of Test: 15-07-2024

To

Resident Engineer
Engineering Consultancy Services Punjab (Pvt) Limited.
Program for Strategic Transformation / Revamping of Old Blocks of Ex-DHQS
one at DHQ Gujranwala.

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

Reference to your letter No. ECSP/RE/398/06, dated 20.05.2024 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	7.77	7.37	16.38	12.38	2.00	8500	10300	2467	2989
2	18	7.79	7.39	23.03	17.62	2.71	9000	12000	1829	2439

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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Ref: CED/TFL/07/5330

Dated: 10-07-2024

Dated: 15-07-2024

To

Managing Director
Geocrust, Islamabad
Construction of Siri Toi Dam Subproject - Zhob River Basin
NESPAK - (Noor ul Haq & Brothers)

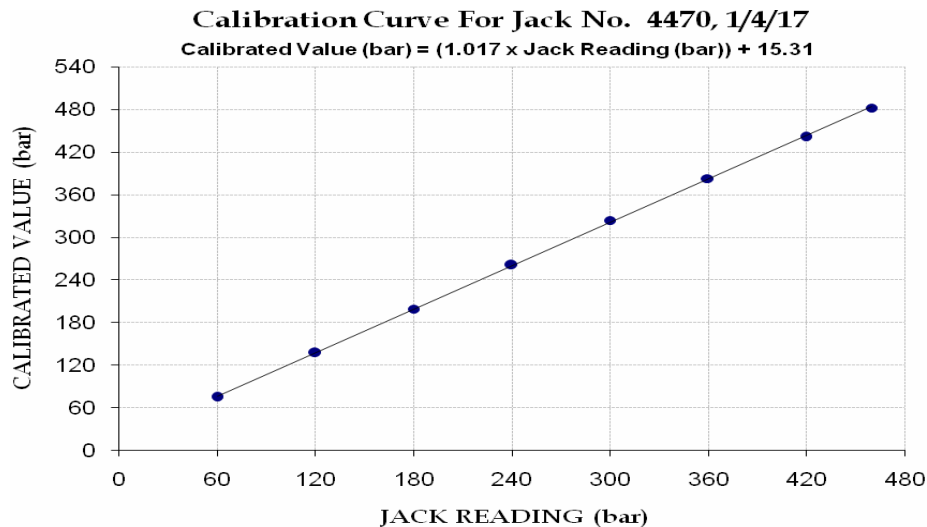
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/5330) (Page -1/2)

Reference to your Letter No. Nil, dated: 10/07/2024 on the subject cited above. One Hydraulic Jack (Jack No.4470, 1/4/17, Gauge No. REMC) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 460 (bar)

Hydraulic Jack Reading (bar)	60	120	180	240	300	360	420	460
Calibrated Load (kg)	15200	28000	40600	53200	66000	78000	90000	98400
Calibrated Pressure (bar)	74	137	199	261	323	382	441	482

The Ram Area of Jack = 200.1 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/07/5330

Dated: 10-07-2024

Dated: 15-07-2024

To

Managing Director
Geocrust, Islamabad
Construction of Siri Toi Dam Subproject – Zhob River Basin
NESPAK – (Noor ul Haq & Brothers)

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/07/5330) (Page # 2/2)

Reference to your Letter No. Nil, Dated: 10/07/2024 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 - 50 (mm)
Calibrated Range : Zero - 50 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (18369)	Dial Gauge No. II (61684)	Dial Gauge No. III (61683)
400	383	394	387
800	785	794	788
1200	1186	1194	1191
1600	1586	1594	1591
2000	1987	1995	1990
2400	2387	2395	2390
2800	2787	2795	2790
3200	3189	3196	3193
3600	3589	3596	3591
4000	3991	3996	3991
4400	4391	-----	-----
4800	4790	-----	-----
5000	4994	-----	-----

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Ref: CED/TFL/07/5331

Dated: 10-07-2024

Dated: 15-07-2024

To

M/S New United Piling & Boring Company
Pasrur, Sialkot

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/5331) (Page -1/1)

Reference to your Letter No. Nil, dated: 10/07/2024 on the subject cited above. One Hydraulic Jack (Nike Sever Swiden)(Jack No. CHFA 673, Gauge No. REMC) as received by us has been calibrated. The results are tabulated as under:

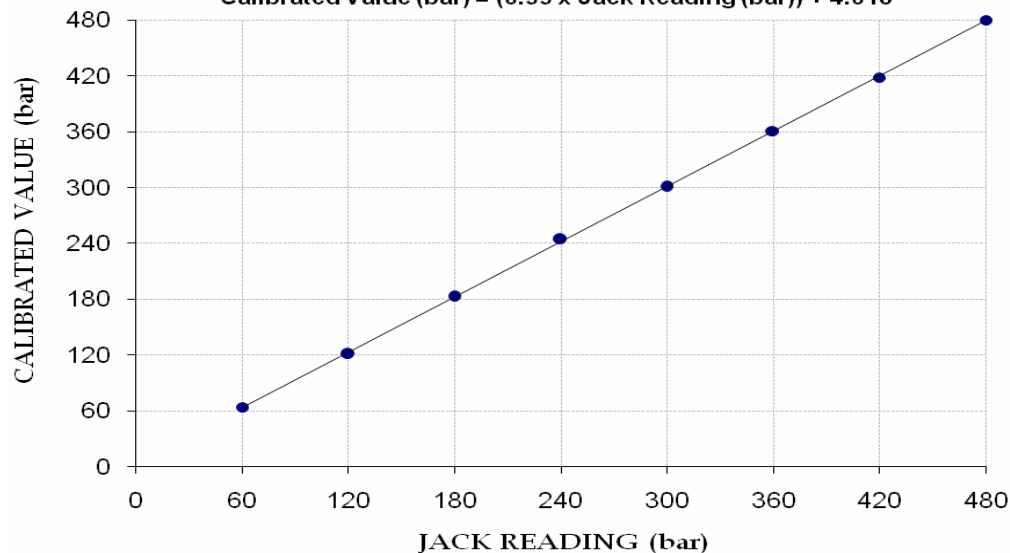
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 480 (bar)

Hydraulic Jack Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	6000	11400	17200	23000	28300	34000	39400	45200
Calibrated Pressure (bar)	64	121	183	244	300	361	418	480

The Ram Area of Jack = 92.4 cm²

Calibration Curve For Jack No. CHFA 673

Calibrated Value (bar) = (0.99 x Jack Reading (bar)) + 4.018



I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,

Project Manager
Innovative (R) Construction Company
“ABL Sargodha”

Reference # CED/TFL **5334** (Dr. Usman Akmal)
Reference of the request letter # ICC/PCPN 01

Dated: 15-07-2024
Dated: 11-07-2024

Tension Test Report (Page -1/1)

Date of Test 15-07-2024
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	0.374	3	0.374	0.11	0.110	3500	4700	70200	70160	94200	94300	1.40	17.5	
2	0.378	3	0.376	0.11	0.111	3500	4800	70200	69430	96200	95300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK – TurPak
Construction of New GOR Near DHA Phase - IX, Lahore.

Reference # CED/TFL **5339** (Dr. Usman Akmal)
Reference of the request letter # 47869/13/MAA/24/46

Dated: 11-07-2024
Dated: 09-07-2024

Tension Test Report (Page -1/1)

Date of Test 15-07-2024
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	0.375	3	0.374	0.11	0.110	3500	4900	70200	70070	98200	98100	1.30	16.3	Kamran Steel
2	0.377	3	0.376	0.11	0.111	3600	5000	72200	71570	100200	99400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
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To,

Material Engineer ECSP
Engineering Consultancy Services Punjab (Pvt) Limited.
Construction of MPA's Hostel Lahore, Phase-II

Reference # CED/TFL **5341** (Dr. Usman Akmal)
Reference of the request letter # 340/ECSP/MPA/ME/91

Dated: 12-07-2024
Dated: 02-07-2024

Tension Test Report (Page -1/1)

Date of Test 15-07-2024
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	0.365	3	0.370	0.11	0.107	3200	4500	64200	65720	90200	92500	1.40	17.5	Sheikhoo Steel
2	0.366	3	0.370	0.11	0.107	3200	4500	64200	65650	90200	92400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,

Resident Engineer
NESPAK

KBCMA College of Veterinary and Animal Sciences Narowal Campus

Reference # CED/TFL **5342** (Dr. Usman Akmal)
Reference of the request letter # 4650/311/SR/14

Dated: 12-07-2024
Dated: 11-07-2024

Tension Test Report (Page -1/1)

Date of Test 15-07-2024

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	0.379	3	0.377	0.11	0.111	3700	4800	74200	73220	96200	95000	1.30	16.3	
2	0.376	3	0.375	0.11	0.110	3400	4600	68200	67890	92200	91900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

Executive Director - Project
The Lake City Developers (Pvt) Ltd.
The Lake City Holdings (Pvt) Ltd.

Reference # CED/TFL **5346** (Dr. Usman Akmal)
Reference of the request letter # DTLC/Test/AI/011

Dated: 15-07-2024
Dated: 15-07-2024

Tension Test Report (Page -1/1)

Date of Test 15-07-2024
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	3300	5100	66200	66550	102200	102900	1.30	16.3	AI
2	0.381	3	0.378	0.11	0.112	3500	5300	70200	68910	106200	104400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,

Project Manager
Halmore Properties Pvt. Ltd.
Construction of Halmore Apartments at Plot No. 11, Block B3, Gulberg-III, Tipu Road,
Lahore.

Reference # CED/TFL **5348** (Dr. Usman Akmal)
Reference of the request letter# HPPL/UET/24/07/021

Dated: 15-07-2024
Dated: 15-07-2024

Tension Test Report (Page -1/1)

Date of Test 15-07-2024
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	0.374	3	0.374	0.11	0.110	3400	4900	68200	68120	98200	98200	1.20	15.0	SJ Steel
2	0.408	3	0.391	0.11	0.120	3500	5400	70200	64270	108200	99200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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