



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/10/4149
2023

Dated: 01-11-

Dated of Test: 08-11-2023

To

Resident Engineer
NESPAK

Construction of Disposal Station and Sewer Line from Purana Kahna to Sua-E-Asal Drain, Lahore

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

Reference to your letter No. 4671/MZA/01/106, dated 03.10.2023 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	15	7.79	7.33	19.69	15.02	2.33	11500	17500	2762	4203

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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



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To,
 M/S Z & A Builders
 Lahore

Reference # CED/TFL **4167** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 07-11-2023
 Dated: 07-11-2023

Tension Test Report (Page -1/1)

Date of Test 08-11-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.377	3	0.376	0.11	0.111	3930	5100	78800	78120	102200	101400	0.90	11.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
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To,

Executive Engineer (KSK)
 University of Engineering and Technology, Lahore
 Construction of Girls Hostel for Department of Computer Science at New Campus (KSK
 of UET, Lahore

Reference # CED/TFL **4169** (Dr. M Rizwan Riaz)
 Reference of the request letter # B&W/XEN/KSK 1406

Dated: 07-11-2023
 Dated: 26-10-2023

Tension Test Report (Page -1/1)

Date of Test 08-11-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	3490	5120	70000	69990	102600	102700	1.10	13.8	
2	0.388	3/8	0.381	0.11	0.114	3720	5350	74600	71890	107200	103400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Asst Dir Infra
Defence Housing Authority, Gujranwala
"Sector L"

Reference # CED/TFL **4170** (Dr. M Rizwan Riaz)
Reference of the request letter # 111/15/AD/RS/Lab/Sec L/536

Dated: 07-11-2023
Dated: 06-11-2023

Tension Test Report (Page -1/1)

Date of Test 08-11-2023
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	0.380	3	0.377	0.11	0.112	4000	5100	80200	79030	102200	100800	0.90	11.3	AF Steel	
2	0.378	3	0.376	0.11	0.111	4100	5100	82200	81360	102200	101300	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															

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/11/4172

Dated: 08-11-2023

Dated of Test: 08-11-2023

To

M/S HMS Enterprises jv Suleiman Traders
(Providing and Lying of Sewerage Network (Zone-I) in Jhang, Punjab Cities
Program."

Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/11/4172)

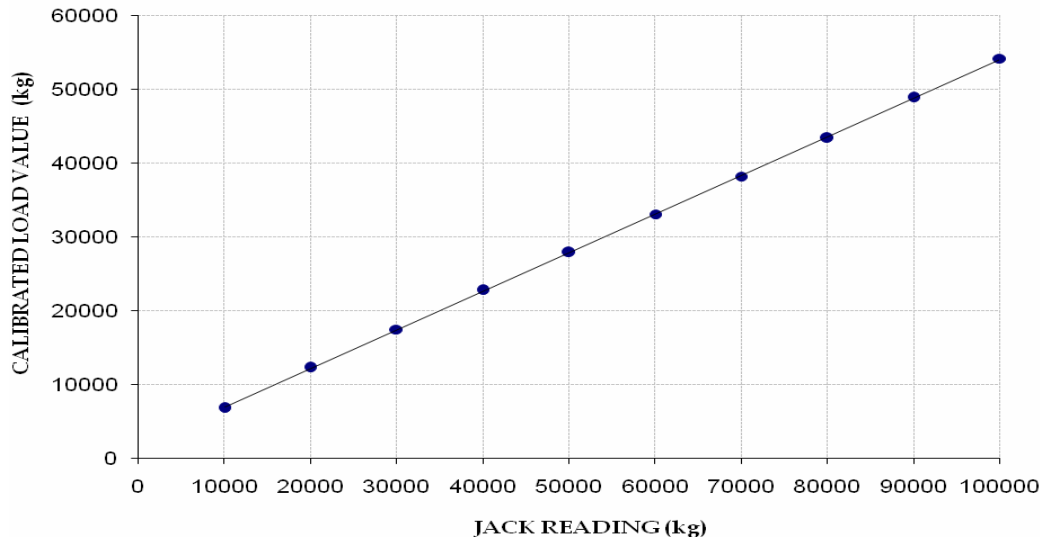
Reference to your Letter No. S-J/1/024, Dated: 06/11/2023 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 200000 (kg)
Calibrated Range : Zero - 100000 (kg)

Hydraulic Jack Reading (kg)	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000
Calibrated Load (kg)	6800	12300	17500	22800	27900	33100	38200	43400	48900	54200

Calibration Curve For Jack

Calibrated Value (kg) = (0.523 x Jack Reading (kg)) + 1720



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To,
 Project Manager
 Barqaab Consulting Services (Pvt) Limited
 Design, Supply and Installation of 500/220/132kV Nowshera HVAC Grid Station.

Reference # CED/TFL **4174** (Dr. Waseem Abbass)
 Reference of the request letter # WB-05A/BQB/NTDC/0748

Dated: 08-11-2023
 Dated: 04-11-2023

Tension Test Report (Page -1/1)

Date of Test 08-11-2023
 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	0.363	3	0.369	0.11	0.107	3690	4910	74000	76200	98400	101400	1.10	13.8	Kamran Steel
2	0.360	3	0.367	0.11	0.106	3410	4690	68400	71090	94000	97800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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