



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
Designmen Consulting Engineers (Pvt) Ltd.
Construction of AKHSS Muhammad Abad Package-02, Gilgit Baltistan

Reference # CED/TFL **4095** (Dr. M Rizwan Riaz)

Dated: 24-10-2023

Reference of the request letter # N-187/AKES-SCP/PKG-03-GB

Dated: 20-10-2023

Tension Test Report (Page – 1/1)

Date of Test 30-10-2023

Gauge length 2 inches

Description MS Girder Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	W6x9 lb/ft	27.30x6.90	188.37	7100	11000	370	573	0.70	35.00	
2	W8x18 lb/ft	27.00x6.90	186.30	6800	10600	358	558	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

Ref: CED/TFL/10/4107

Dated: 25-10-2023

Dated of Test: 30-10-2023

To

Sub Divisional Officer
Public Health Engineering Sub Division
Pattoki
(Laying of Main Sewerage / Ultimate Disposal from Habib abad to Sher Garh
Rohi Nullah District Kasur.)

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

Reference to your letter No. 379/P, dated 10.10.2023 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	30	7.97	7.64	37.95	30.89	3.53	9470	13730	1062	1539

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Construction of Office Building at GEPCO Employees Housing Foundation (GEHF)
 Town Phase-1), Gujranwala.

Reference # CED/TFL **4120** (Dr. M Rizwan Riaz)
 Reference of the request letter # P4265/23/CRM/272

Dated: 27-10-2023
 Dated: 19-10-2023

Tension Test Report (Page -1/1)

Date of Test 30-10-2023
 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	0.378	3	0.376	0.11	0.111	3700	4900	74200	73440	98200	97300	1.40	17.5	Mehboob Super
2	0.376	3	0.375	0.11	0.110	3700	4800	74200	73810	96200	95800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Sub Divisional Officer
Public Health Engineering Sub Division
Mizaffargarh
(Mechanical Type West Water Treatment Plant for Sewerage System for Recep Tayyip
Erdogan (RTE) Hospital Muzaffargarh (Expansion Project) District M. Garh.)

Reference # CED/TFL **4121** (Dr. M Rizwan Riaz)

Dated: 27-10-2023

Reference of the request letter # 250

Dated: 04-10-2023

Tension Test Report (Page -1/1)

Date of Test 30-10-2023

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	0.376	3/8	0.375	0.11	0.110	3400	5000	68200	67820	100200	99800	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 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Premium Engineering
Lahore

Reference # CED/TFL 4122 (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 27-10-2023

Dated: 24-10-2023

Tension Test Report (Page – 1/1)

Date of Test 30-10-2023
Gauge length 2 inches
Description Hot Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	6	25.40x6.30	160.02	4600	7100	282	435	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Samman Ghee Mills (Pvt) Ltd.
Lahore

Reference # CED/TFL **4125** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 27-10-2023
Dated: 27-10-2023

Tension Test Report (Page -1/1)

Date of Test 30-10-2023
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	0.369	3/8	0.371	0.11	0.108	3300	5500	66200	67140	110200	111900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/10/4128

Dated: 30-10-2023

Dated of Test: 30-10-2023

To

Resident Engineer
NESPAK

Development of Signal Free Corridor from Main Boulevard Gulberg (Center Point) to Walton Road (Defence Morr), Underpass at Khalid Butt Chowk, Lahore.

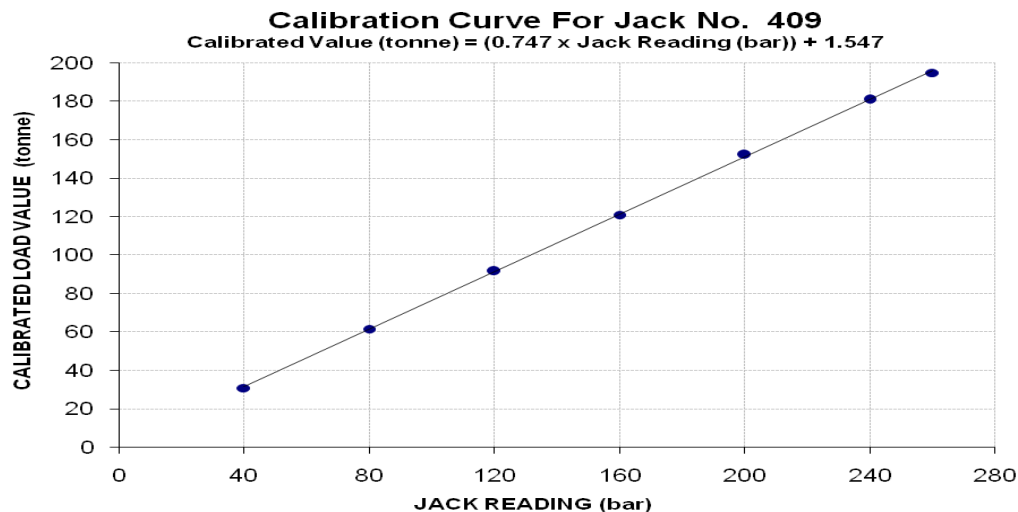
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/4128) (Page -1/2)

Reference to your Letter No. 3772/103/KBC/SA/04/50, dated: 30/10/2023 on the subject cited above. One Hydraulic Jack (Jack No. 409, Gauge No. SF-409) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)		40	80	120	160	200	240	260
Calibrated Load	(kg)	30800	61600	91600	121000	152200	181000	195000
	(tonne)	30.80	61.60	91.60	121.00	152.20	181.00	195.00
Calibrated Pressure (bar)		41.15	82.31	122.39	161.67	203.36	241.84	260.55

The Ram Area of Jack = 733.975 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/10/4128

Dated: 30-10-2023

Dated of Test: 30-10-2023

To

Resident Engineer
NESPAK

Development of Signal Free Corridor from Main Boulevard Gulberg (Center Point) to Walton Road (Defence Morr), Underpass at Khalid Butt Chowk, Lahore.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/4128) (Page -2/2)

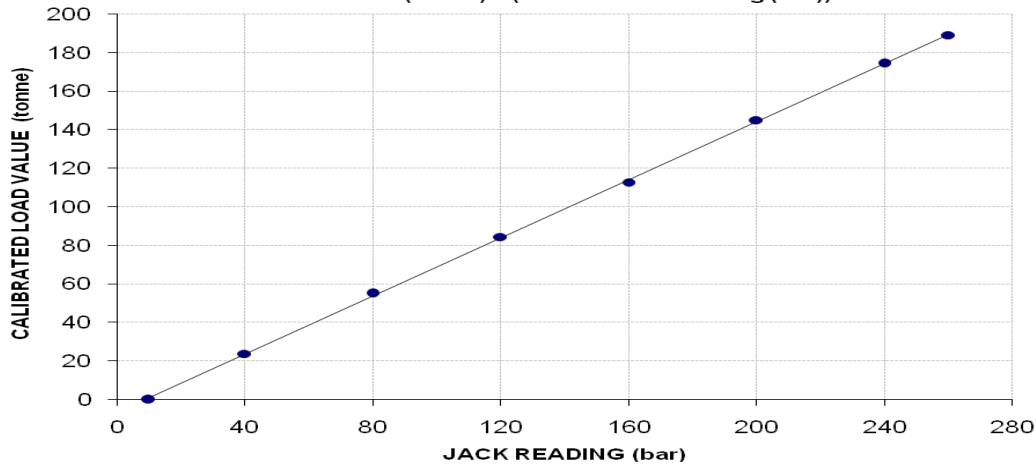
Reference to your Letter No. 3772/103/KBC/SA/04/50, dated: 30/10/2023 on the subject cited above. One Hydraulic Jack (Jack No. 410, Gauge No. SF-410) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	10	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	23800	55000	84400	112800	145000	174400	189200
	(tonne)	0	23.80	55.00	84.40	112.80	145.00	174.40	189.20
Calibrated Pressure (bar)	0	31.80	73.49	112.77	150.72	193.74	233.02	252.80	

The Ram Area of Jack = 733.975 cm²

Calibration Curve For Jack No. 410
Calibrated Value (tonne) = (0.754 x Jack Reading (bar)) - 6.565



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S Hunza Steel Industry
Lahore

Reference # CED/TFL **4129** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 30-10-2023
Dated: 30-10-2023

Tension Test Report (Page -1/1)

Date of Test 30-10-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.404	10	9.88	0.12	0.119	3600	5100	66138	66800	93696	94700	1.40	17.5	
2	0.399	10	9.81	0.12	0.117	3600	5000	66138	67700	91858	94100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
M/S Premium Engineering
Lahore

Reference # CED/TFL **4131** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 30-10-2023
Dated: 30-10-2023

Tension Test Report (Page – 1/1)

Date of Test 30-10-2023
Gauge length 2 inches
Description HR Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	10	25.40x9.80	248.92	10500	14000	414	552	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Premium Engineering
Lahore

Reference # CED/TFL 4132 (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 30-10-2023

Dated: 30-10-2023

Tension Test Report (Page – 1/1)

Date of Test 30-10-2023
Gauge length 2 inches
Description HR Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	5	25.50x4.80	122.40	4700	7000	377	561	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

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To,
QA/QC Manager
BSM Developers
New Metro City, Mandi Bahauddin

Reference # CED/TFL **4133** (Dr. M Rizwan Riaz)
Reference of the request letter # NMC/MBD/47

Dated: 30-10-2023
Dated: 30-10-2023

Tension Test Report (Page -1/1)

Date of Test 30-10-2023
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	0.386	3	0.380	0.11	0.113	3100	4900	62200	60260	98200	95300	1.30	16.3	Malik Steel
2	0.381	3	0.378	0.11	0.112	3300	5000	66200	64920	100200	98400	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														

Witness by Faisal Jan

I/C Testing Laboratoires
UET Lahore, Pakistan.

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