



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/06/5197

Dated: 03-06-

2024

Dated of Test: 28-06-2024

To

Sub Divisional Officer
PHE Sub Division-II, D.G. Khan
(Provision and Repairing of Sewerage in Dera Ghazi Khan City.)

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

Reference to your letter No. 559-61, dated 22.04.2024 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	30	8.06	7.65	37.20	29.28	3.96	10530	14500	1244	1713

I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,

M/S Al-Abdullah Constructors (Pvt) Ltd.
Lahore

Reference # CED/TFL **5271** (Dr. M Kashif)
Reference of the request letter # AAC/MT-008/2024

Dated: 25-06-2024

Dated: 06-06-2024

Tension Test Report (Page -1/2)

Date of Test 28-06-2024
Gauge length 8 inches
Description MS Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.152	5	4.97	-----	19.4	-----	1080	-----	546	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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UET Lahore, Pakistan.

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Lahore

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Reference of the request letter # AAC/MT-008/2024

Dated: 25-06-2024

Dated: 06-06-2024

Tension Test Report (Page -2/2)

Date of Test 28-06-2024
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	441.0	9800	96.14	11100	108.89	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S ZHN Contracting Corporation (Pvt) Ltd.
Lahore

Reference # CED/TFL **5272** (Dr. M Kashif)
Reference of the request letter # ZHN/MT-009/2024

Dated: 25-06-2024
Dated: 13-06-2024

Tension Test Report (Page -1/2)

Date of Test 28-06-2024
Gauge length 8 inches
Description MS Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.154	5	4.99	-----	19.6	-----	1160	-----	581	0.20	2.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S ZHN Contracting Corporation (Pvt) Ltd.
Lahore

Reference # CED/TFL **5272** (Dr. M Kashif)
Reference of the request letter # ZHN/MT-009/2024

Dated: 25-06-2024

Dated: 13-06-2024

Tension Test Report (Page -2/2)

Date of Test 28-06-2024
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	444.0	8100	79.46	11000	107.91	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

S.E / Manager Civil
LESCO H/Q Lahore
(Purchase Order No. 4457)

Reference # CED/TFL **5274** (Dr. M Kashif)

Dated: 25-06-2024

Reference of the request letter # S.E/Mgr. Civil/LESCO/No. 1067-68

Dated: 24-06-2024

Tension Test Report (Page -1/1)

Date of Test 28-06-2024

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	444.0	9300	91.23	10600	103.99	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Engineer's Representative
 NESPA jv TurkPak
 Construction of Green Building for EMC, EPD and Allied New Entities Established
 Under PGDP (DLI-2, PGDP) Lahore.

Reference # CED/TFL **5278** (Dr. M Kashif)
 Reference of the request letter # 4731/MAA/03/58

Dated: 27-06-2024
 Dated: 26-06-2024

Tension Test Report (Page -1/1)

Date of Test 28-06-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615 (Moiz Stee)

Sr.	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	0.371	3	0.373	0.11	0.109	3300	4900	66200	66630	98200	99000	1.40	17.5	
2	0.371	3	0.373	0.11	0.109	3400	4900	68200	68740	98200	99100	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 Laboratoires
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To,

Resident Engineer
NESPAK
Construction / Rehabilitation of Tourism Highway
Installation of Directional / Information Signage.

Reference # CED/TFL **5281** (Dr. Waseem Abbass)
Reference of the request letter # Nespak/RE/THP/SUJ/08

Dated: 27-06-2024
Dated: 24-06-2024

Weight & Size Test Report (Page – 1/2)

Date of Test 28-06-2024
Description Galvanized Iron Sheet Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(swg)	(g)	(mm)	(mm)	(kg/m ²)	(mm)	
1	14	170	101.35	101.90	16.46	2.20	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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To,
Resident Engineer
NESPAK
Construction / Rehabilitation of Tourism Highway
Installation of Directional / Information Signage.

Reference # CED/TFL **5281** (Dr. Waseem Abbass)
Reference of the request letter # Nespak/RE/THP/SUJ/08

Dated: 27-06-2024
Dated: 24-06-2024

Weight & Size Test Report (Page – 2/2)

Date of Test 28-06-2024
Description Galvanized Iron Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
1	2" dia 12 swg	526	153.0	3.44	59.2	54.00	2.60	
2	3" dia 12 swg	630	150.7	4.18	75.3	70.20	2.55	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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