



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

Reference # CED/TFL **3977** (Dr. M Kashif)

Dated: 27-09-2023

Reference of the request letter # 3772/103/KBC/SA/04/03

Dated: 11-09-2023

Tension Test Report (Page -1/1)

Date of Test 02-10-2023

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	0.379	3	0.377	0.11	0.111	3400	4900	68200	67290	98200	97000	1.00	12.5	Batala Premium
2	0.377	3	0.376	0.11	0.111	3400	4900	68200	67550	98200	97400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Department of Civil Engineering
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Ref: CED/TFL/09/3979

Dated: 27-09-2023

Dated of Test: 02-10-2023

To

Project Manager / DTL
Osmani & Company (Pvt) Ltd.
Engineering Design & Construction Supervision for Punjab Rural Sustainable
Water Supply & Sanitation Project (PRSWSSP) Cluster Central II.

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

Reference to your letter No. PM/OCL/PRSWSSP/EDCS/2023/49, dated 26.09.2023 on the subject cited above. Two 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	7.81	7.35	16.06	12.13	1.97	13000	15500	3859	4601
2	12	7.81	7.30	16.02	12.07	1.98	12000	16000	3603	4804

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To,
Asstt Gen Manager
AH Group of Companies
JB Tower, University Road Peshawar

Reference # CED/TFL **3982** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 28-09-2023
Dated: 27-09-2023

Tension Test Report (Page -1/4)

Date of Test 02-10-2023
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	780.0	783.0	17800	174.62	19500	191.30	198	>3.50	xx
2	12.70 (1/2")	780.0	785.0	17900	175.60	19500	191.30	199	>3.50	xx
3	12.70 (1/2")	780.0	786.0	17900	175.60	19500	191.30	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only three samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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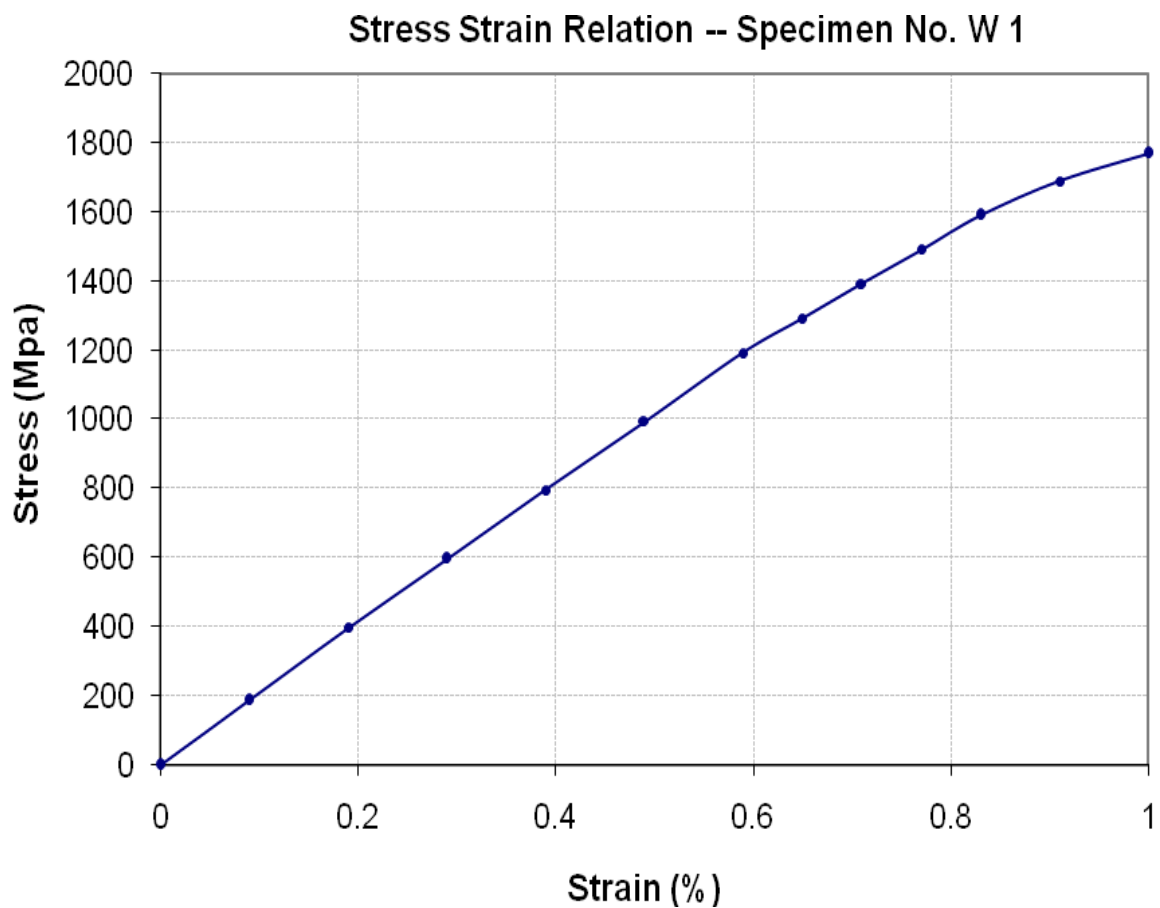
To,

Asstt Gen Manager
AH Group of Companies
JB Tower, University Road Peshawar

Reference # CED/TFL 3982 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 28-09-2023
Dated: 27-09-2023

Graph (Page – 2/4)



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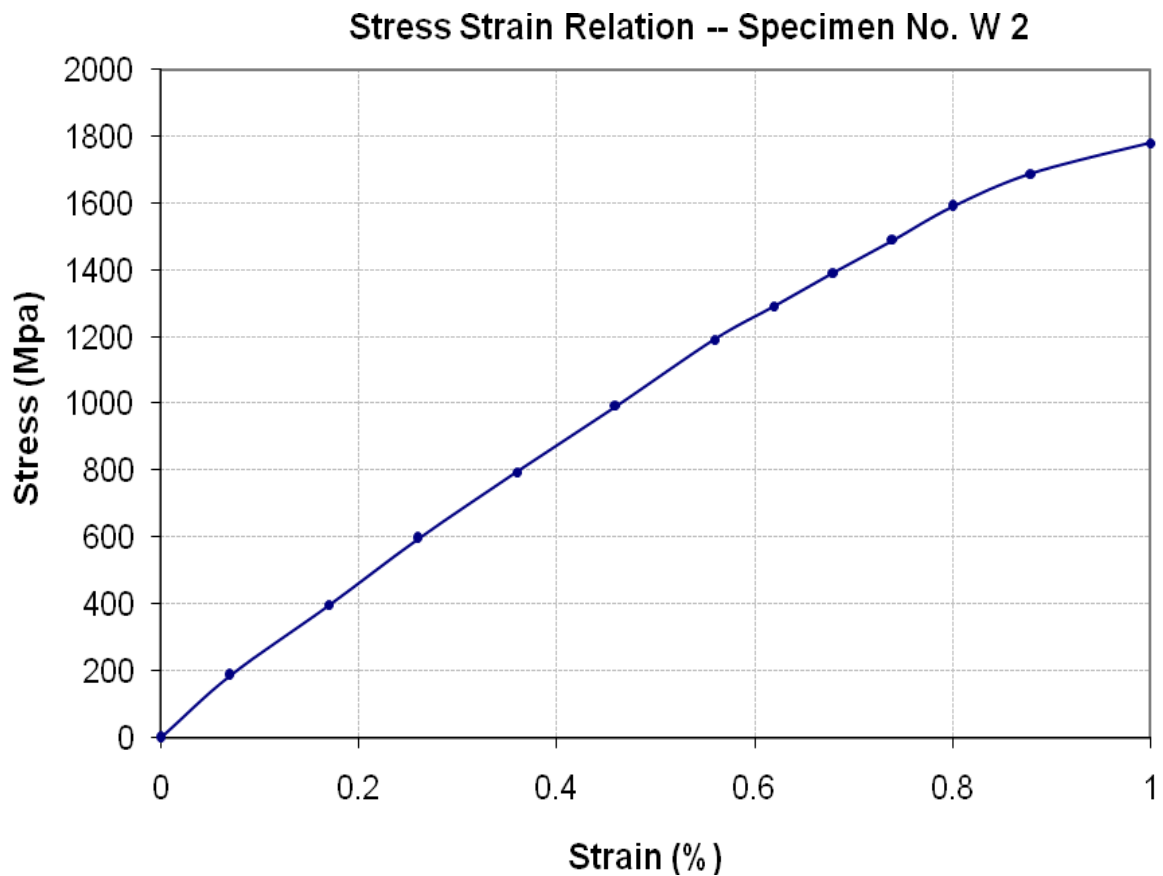
To,

Asstt Gen Manager
AH Group of Companies
JB Tower, University Road Peshawar

Reference # CED/TFL **3982** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 28-09-2023
Dated: 27-09-2023

Graph (Page – 3/4)



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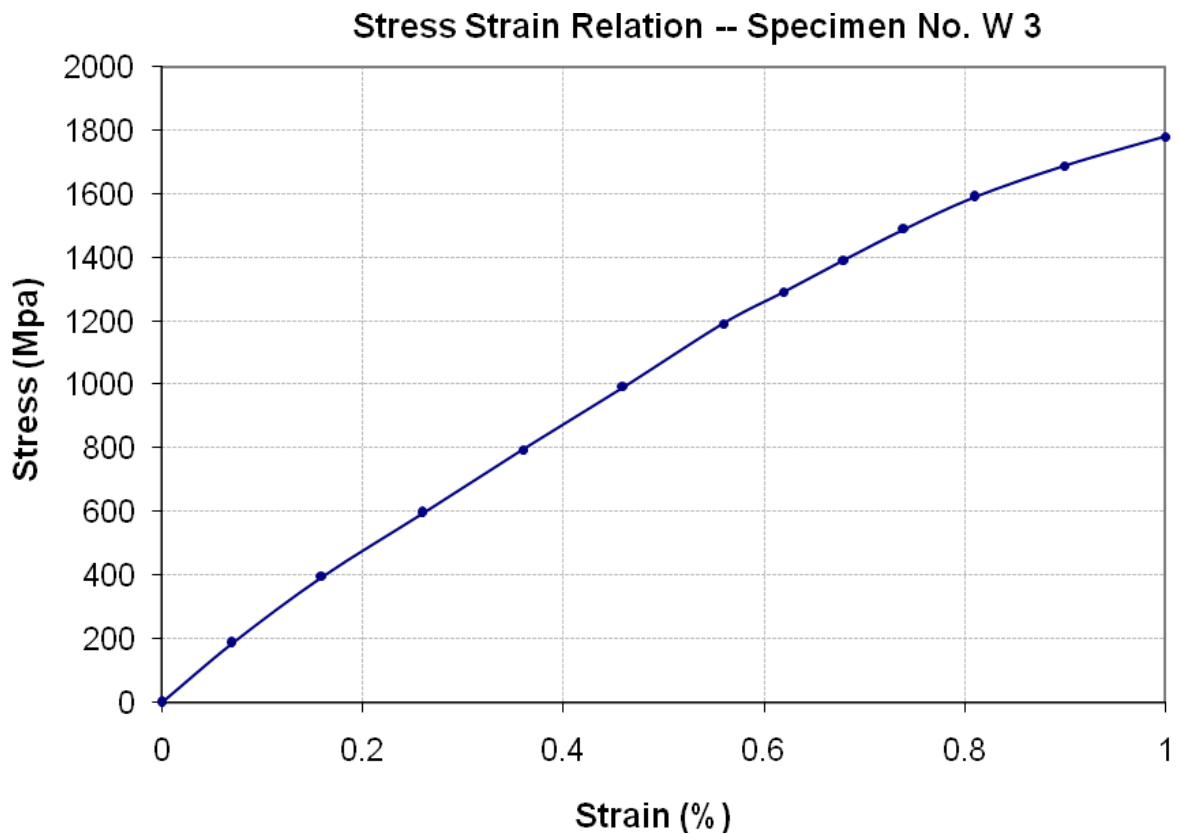
To,

Asstt Gen Manager
AH Group of Companies
JB Tower, University Road Peshawar

Reference # CED/TFL **3982** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 28-09-2023
Dated: 27-09-2023

Graph (Page – 4/4)



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Gunj Bukhash Builders
Lahore
(PCC Spun Hollow Poles)

Reference # CED/TFL **3984** (Dr. M Kashif)
Reference of the request letter # GBB/UET/0923/01

Dated: 28-09-2023
Dated: 27-09-2023

Tension Test Report (Page -1/2)

Date of Test 02-10-2023
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	0.150	5	4.93	-----	19.1	-----	1440	-----	740	0.20	2.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Gunj Bukhash Builders
Lahore
(PCC Spun Hollow Poles)

Reference # CED/TFL **3984** (Dr. M Kashif)
Reference of the request letter # GBB/UET/0923/01

Dated: 28-09-2023
Dated: 27-09-2023

Tension Test Report (Page -2/2)

Date of Test 02-10-2023
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	436.0	8800	86.33	10300	101.04	>3.50	xx
2	11.11 (7/16")	582.0	597.0	12000	117.72	15100	148.13	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

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To,
Chief Engineer
Zaitoon
New Lahore City
Construction of Main Gate (Zaitoon Life Style) by Stallion Steel Engineering Lahore.

Reference # CED/TFL **3985, 986** (Dr. M Kashif)
Reference of the request letter # ZLS/CE/0158

Dated: 28-09-2023
Dated: 27-09-2023

Tension Test Report (Page – 1/1)

Date of Test 02-10-2023
Gauge length 2 inches
Description MS Sheet 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	MS Sheet	27.40x5.90	161.66	7000	7500	425	455	0.50	25.00	
2	MS Sheet	27.70x5.90	163.43	6900	7300	414	438	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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To,
 Project Manager
 HMB Developers Pvt. Ltd.
 Parking Area Bhohtian Lahore

Reference # CED/TFL **3988** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 28-09-2023
 Dated: 28-09-2023

Tension Test Report (Page -1/1)

Date of Test 02-10-2023
 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	0.355	3	0.364	0.11	0.104	2900	4600	58200	61270	92200	97200	1.20	15.0	
2	0.339	3	0.356	0.11	0.100	2900	4500	58200	64180	90200	99600	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,

Resident Engineer
Pakistan Environmental Planning & Architectural Consultants Limited.
Establishment of Workers Welfare Complex (Phase-I), Adjacent to Sundar Industrial
Estate District Kasur. Package-S.

Reference # CED/TFL **3989** (Dr. M Kashif)

Dated: 28-09-2023

Reference of the request letter # RE/PEPAC/Sundar/S-07

Dated: 07-09-2023

Tension Test Report (Page -1/1)

Date of Test 02-10-2023

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	0.355	3/8	0.364	0.11	0.104	3300	4700	66200	69720	94200	99300	1.20	15.0	
2	0.373	3/8	0.374	0.11	0.110	3300	4900	66200	66390	98200	98600	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														

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