

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

To, Deputy Director Roads-II Capital Development Authority Road Division – II Construction of Khayaban-e-Margalla from GT Road to Sector D-12, Islamabad

Reference # CED/TFL <u>999 (Dr. Ali Ahmed)</u> Reference of the request letter # CDA/DD(RD-II)/2022/92 Dated: 03-03-2022 Dated: 01-03-2022

Tension Test Report(Page - 1/2)Date of Test09-03-2022Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	(6.3)	Brea strength (6.	king 1 clause 2)	A Young's Modulus of Elasticity	% Elongation	emarks / Coil No.
	(1111)	(Kg/KIII)	(Kg/KIII)	(Kg)		(Kg)		L, OI a		R
1	15.24 (0.6")	1102.0	1105.0	25200	247.21	28000	274.68	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
				Only on	e sample 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

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports

2. The above results pertain to sample /samples supplied to this laboratory.



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Graph (Page – 2/2)



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

To, M/S Precast Building Systems Lahore

Reference # CED/TFL <u>1003 (Dr. Ali Ahmed)</u> Reference of the request letter # P-4(A)/11/2022 Dated: 03-03-2022 Dated: 03-03-2022

Tension Test Rep	ort (Page -1/3)
Date of Test	09-03-2022
Gauge length	8 inches
Description	MS Wire Tensile Test

Sr. No.	Weight	Meight Size		Area (mm²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)	%	I
1	0.155	5	5.01		19.7	1000	1600	498	797	0.20	2.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
		0		Ν	ote: only	one sam	ole for ten	sile test		ſ	Γ	
						Bend	Гest					

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

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

To, M/S Precast Building Systems Lahore

Reference # CED/TFL <u>1003 (Dr. Ali Ahmed)</u> Reference of the request letter # P-4(A)/10/2022 Dated: 03-03-2022 Dated: 03-03-2022

Tension Test Report(Page -2/3)Date of Test09-03-2022Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal DiameterNominal WeightMeasured weight(mm)(kg/km)(kg/km)		Yield st clause	trength e (6.3)	Breal strength (6.	king 1 clause 2)	Elongation	arks/ Coil No.
	(mm)			(kg)	(kN)	(kg)	(kN)	%	Remá
1	9.53 (3/8")	432.0	442.0	9600	94.18	11000	107.91	>3.50	XX
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
_	-	-	-	-	-	-	-	-	-
			O	nly one sampl	e for Test				

I/C Testing Laboratoires UET Lahore, Pakistan.

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To, M/S Precast Building Systems Lahore

Reference # CED/TFL <u>1003 (Dr. Ali Ahmed)</u> Reference of the request letter # P-4(A)/09/2022 Dated: 03-03-2022 Dated: 03-03-2022

Tension Test Report(Page -3/3)Date of Test09-03-2022Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	trength e (6.3)	Breal strength (6.2	king 1 clause 2)	Elongation	ırks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rema
1	11.11 (7/16")	582.0	585.0	12000	117.72	15100	148.13	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
			O	nly one sampl	e for Test				

I/C Testing Laboratoires UET Lahore, Pakistan.

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Ref: <u>CED/TFL/03/1021</u> Dated of Test: 09-03-2022

Dated: 07-03-2022

To Project Engineer Great City Sheikhupura

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

Reference to your letter No. GC/SRB/005/2022, dated 07.03.2022 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.32	16.06	12.09	1.98	8000	13900	2390	4152

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

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To, M/S Hi-Tek Manufacturing (Pvt) Ltd Lahore (Pakistan State Oil)

Reference # CED/TFL <u>1029 (Dr. Ali Ahmed)</u> Reference of the request letter # HT/Req/MT/1020 Dated: 08-03-2022 Dated: 07-03-2022

Tension Test Report (Page – 1/1)

Date of Test	09-03-2022
Gauge length	2 inches
Description	Steel Sheet Steel Strip Tensile Test

Sr. No.	(mm)	(mm) (mm)	Area (mm ⁵)	(kg)	(fad backing (bad)	Xield Stress	Ultimate Stress	Elongation (ui)	% Elongation	Remarks
1		24.40x2.70	65.88	2600	3700	387	551	0.60	30.00	
2	2.75	24.40x2.70	65.88	2500	3500	372	521	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
	l	0	nly Two S	amples f	or Tensile	Test	1	Γ		
				Bend T	est					

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

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Ref: <u>CED/TFL/03/1030</u>

Dated: 08-03-2022

Dated of Test: 09-03-2022

To Sub Divisional Officer Public Health Engg: Sub Division Sialkot (Provision of Sewerage and Tuff Tile in Various UCs fo District Sialkot, UCs Kotli Behram, Mubrik Pura, Miana Pura, Model Town, Fateh Garh Muzafar pur, Haji pura, Ban, Haji Pura-II, Imam Sahib, Shahib, Shhab Pura, Pacca Garha, Hamza Ghous)

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

Reference to your letter No. Nil, dated 31.12.2021 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.77	7.30	16.26	12.26	2.00	9500	15000	2808	4434

I/C Testing Laboratoires UET Lahore, Pakistan.

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To, M/S Defence Housing Authority. Lahore Cantt (Infra Dev Works of Pkg-7, J-Block, DHA Phase-IX) – (M/s DHA-C)

Reference # CED/TFL <u>1035 (Dr. Ali Ahmed)</u> Reference of the request letter # 408/241/32/Lab/66/23SW Dated: 08-03-2022 Dated: 07-03-2022

Tension Test Report (Page -1/1)

Date of Test Gauge length Description 09-03-2022 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

r. No.	tu Diameter/		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	Bi
1	0.360	3	0.367	0.11	0.106	3100	4600	62200	64610	92200	95900	1.40	17.5	eel
2	0.361	3	0.367	0.11	0.106	3100	4600	62200	64430	92200	95600	1.50	18.8	oiz St
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Mo
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Througł	n 180° i	s Satisfa	actory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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