

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

Ref: <u>CED/TFL/09/37075</u> Dated of Test: <u>27-09-2021</u> Dated: 21-09-2021

To Resident Engineer NESPAK Construction of Sheranwala Flyover, Lahore

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

Reference to your letter No. 3772/SF/103/MWA/04/84, dated 30.08.2021

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	36	7.96	7.62	3.65	2.98	3.99	27270	34060	2643	3301

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.



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

To, Resident Engineer

AZ Engineering Associates

Construction of Multi Purpose Complex (MPC), Building (Phase-I) at Quaid-e-Azam Business Park (QABP) on M-2 Motorway, Sheikhupura

Reference # CED/TFL 37	7101 (Dr	. Qasim Khan	l)
Reference of the request	letter # R	E/AZEA/MP	C-80

Tension Test Report (Page -1/2)

Date of Test Gauge length Description

27-09-2021 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Dated: 24-09-2021 Dated: 30-08-2021

r. No.	Weight	Dian Si (in	neter/ ze ch)	Aı (iı	rea n²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.370	3/8	0.372	0.11	0.109	3700	5100	74200	74910	102200	103300	1.00	12.5	F el
2	0.371	3/8	0.373	0.11	0.109	3900	5200	78200	78780	104200	105100	1.00	12.5	F. Ste
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-	-	-	-	I	-	I	-	-	-	-	-	-	I	
-	-	-	-	I	-	-	-	-	-	-	-	-	I	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend t	test			
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Th	nrough	180° is \$	Satisfacto	ory							

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Resident Engineer

AZ Engineering Associates

Construction of Multi Purpose Complex (MPC), Building (Phase-I) at Quaid-e-Azam Business Park (QABP) on M-2 Motorway, Sheikhupura

Reference # CED/TFL 37101 (Dr. Qasim Khan)
Reference of the request letter # RE/AZEA/MPC-91

Tension Test Report (Page -2/2)

Date of Test Gauge length Description

27-09-20218 inchesDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

ir. No.	Weight	Dian Si (in	neter/ ze ch)	Aı (iı	rea n²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Ro
1	0.367	3/8	0.370	0.11	0.108	3200	4900	64200	65440	98200	100200	1.20	15.0	T
2	0.368	3/8	0.371	0.11	0.108	3200	4900	64200	65150	98200	99800	1.30	16.3	F.S
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-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	T		n
							Bend T	`est						
3/8	" Dia Ba	ır Bend	Test Tł	nrough	180° is S	Satisfacto	ory							

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 24-09-2021 Dated: 14-09-2021

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

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

To, GM Professional Construction Services (Pvt) Ltd TCF School at JDW Rahim Yar Khan

Reference # CED/TFL <u>37102 (Dr. Qasim Khan)</u> Reference of the request letter # PCS/21/Eng-108 Dated: 24-09-2021 Dated: 02-09-2021

Tension Test Report (Page -1/1)

Date of Test Gauge length Description 27-09-2021 8 inches Deformed Steel Pa

Deformed Steel Bar Tensile Test as per ASTM-A615

ir. No.	Meight Siz		iameter/ Area Size (in ²)		rea n²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.379	3	0.376	0.11	0.111	3900	4800	78200	77230	96200	95100	0.80	10.0	
2	0.387	3	0.381	0.11	0.114	4700	5300	94200	90990	106200	102600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	I	-	-	-	-	-	-	-	-	-	
					Not	e: only t	wo samp	les for ter	nsile test	T	ſ			
							Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Ref: <u>CED/TFL/09/37104</u> Dated of Test: 27-09-2021 Dated: 27-09-2021

To, Chairman Department of Civil Engineer University of Engineering & Technology, Taxila

Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/10/37104) (Page - 1/2)

Reference to your Letter No. CED/ST/2021/81, Dated: 27/09/2021 on the subject cited above. One Load Cell Make: ELE International Ltd., Serial No. 1052-9-6080, Capacity: 3000 kN as received by us has been calibrated. The results are tabulated as under:

Load Cell Reading	Calibrated Laod (kg)
50	11748
100	23640
150	35532
200	46830
250	58325
300	69821
350	81515
400	92614
450	104704
500	116993
550	129677
600	143750
650	154254
700	165155
750	174867

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Ref: <u>CED/TFL/09/37104</u> Dated of Test: 27-09-2021 Dated: 27-09-2021

To, Chairman Department of Civil Engineer University of Engineering & Technology, Taxila

Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/10/37104) (Page - 2/2)



I/C Testing Laboratoires UET Lahore, Pakistan.

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



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To, Construction Manager Zameen Aurum Construction of Zameen Aurum at Plot No. 15 Block L, Gulberg-III, Main Feroze Pur Road, Lahore Reference # CED/TFL <u>37105 (Dr. Qasim Khan)</u> Dated: 27-09-2021 Reference of the request letter # ZD/ZA/STR014 Dated: 27-09-2021

Tension Test Report (Page -1/1)

Date of Test Gauge length Description 27-09-20218 inchesDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

r. No.	Weight	Dian Si	neter/ ize	Area (in ²)		Stress si)	ress Ultimate Stress (psi)		Elongation	longation	emarks			
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.400	3	0.387	0.11	0.118	3700	5100	74200	69290	102200	95600	1.10	13.8	
2	0.399	3	0.386	0.11	0.117	4000	5300	80200	75200	106200	99700	1.00	12.5	steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Pak S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend t	test			
							Bend T	`est						
#3	Bar Ben	d Test '	Througł	n 180° i	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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