



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/10/5791

Dated: 08-10-2024

Dated of Test: 15-10-2024

To

Sub Divisional Officer
Public Health Engg: Sub Division-II
Mianwali
(Revamping / Comprehensive Sewerage & Drainage including Tuff Tiles and PCC Scheme for Mianwali City (Group-I))

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. 243/MI, dated 16.08.2024 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	9	7.78	7.35	11.02	8.73	1.15	5000	8000	2061	3298

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Ref: CED/TFL/10/5792

Dated: 08-10-2024

Dated of Test: 15-10-2024

To

Sub Divisional Officer
Public Health Engg: Sub Division-II
Mianwali
(Revamping / Comprehensive Sewerage & Drainage including Tuff Tiles and PCC Scheme for Mianwali City (Group-I))

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

Reference to your letter No. 245/MI, dated 16.08.2024 on the subject cited above. Four R.C.C. Pipes as received by us have 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	7.76	7.35	16.26	11.88	2.19	11500	15500	3483	4694
2	15	7.77	7.32	19.49	14.92	2.28	6500	13000	1574	3148
3	18	7.74	7.30	23.03	17.83	2.60	7500	12500	1524	2540
4	21	7.75	7.17	26.46	20.94	2.76	7000	11000	1234	1938

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,

Resident Engineer
Engineering Consultancy Services Punjab (Pvt) Limited.
Construction / Improvement / Rehabilitation of Road in Kakoana and Extension 215 RB
Length = 6.27 km (Taken Length = 4.27 km)

Reference # CED/TFL **5818** (Dr. Usman Akmal)

Dated: 14-10-2024

Reference of the request letter # ECSP/ADP/(2022-23)/FSD/355

Dated: 28-08-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2024

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.383	3	0.378	0.11	0.112	4080	5580	81800	79960	111900	109400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

Note:

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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,
 Sub Divisional Officer
 Buildings Sub Division No. 1
 Faisalabad
 (Construction of Additional Block & Improvement / Renovation in Circuit House
 Faisalabad)

Reference # CED/TFL **5819** (Dr. Usman Akmal)
 Reference of the request letter # 4750 B-3

Dated: 14-10-2024
 Dated: 16-09-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.385	3/8	0.380	0.11	0.113	3940	5450	79000	76750	109200	106200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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,

Resident Engineer
NESPAK
Dualization of Sargodha, Khushab, Mianwali Road (Group-II from km 211.50 to 222.25
= 10.75 km)

Reference # CED/TFL **5820** (Dr. Usman Akmal)
Reference of the request letter # RE/4376-E/JQK/4d/439

Dated: 14-10-2024
Dated: 12-03-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2024
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	0.382	3	0.378	0.11	0.112	4100	5560	82200	80500	111500	109200	0.80	10.0	AK Supreme Steel
2	0.384	3	0.379	0.11	0.113	4080	5560	81800	79640	111500	108600	0.80	10.0	
3	4.310	10	1.270	1.27	1.267	35200	53600	61100	61240	93100	93300	1.50	18.8	
4	4.303	10	1.269	1.27	1.265	35000	53200	60800	61000	92400	92800	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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,
 Project Manager
 DSG Energy
 Construction of Office Building at 29-M QIE, Lahore.

Reference # CED/TFL **5821** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 14-10-2024
 Dated: 14-10-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2024
 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	0.369	3	0.372	0.11	0.109	3520	4710	70600	71440	94400	95600	1.30	16.3	Hunza Steel
2	0.369	3	0.372	0.11	0.108	3490	4690	70000	70910	94000	95300	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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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/10/5822

Dated: 14-10-2024

Dated of Test: 15-10-2024

To

Resident Engineer
NESPAK

Construction of PCC Sewerage, Tuff Tile, Carpet UC No. 110 & 111 PP-161,
Allama Iqbal Zone, Lahore.

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

Reference to your letter No. 4084/103/MUR/104/1814, dated 14.03.2024

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	12	7.72	7.34	16.30	12.28	2.01	12000	15000	3524	4405

I/C Testing Laboratories
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

Ref: CED/TFL/10/5824

Dated: 14-10-2024

Dated of Test: 15-10-2024

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. Nil, dated 02.10.2024 on the subject cited above. Two R.C.C. Pipes as received by us have 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	9	7.74	7.28	12.40	9.27	1.57	10000	11000	3919	4311
2	9	7.76	7.28	12.52	9.40	1.56	8500	10000	3284	3863

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
Manager Civil
Nishat Linen (Pvt) Limited
"Construction of Nishat Linen Fabric Godown Extension"

Reference # CED/TFL **5825** (Dr. Usman Akmal)
Reference of the request letter # NL/ST/001

Dated: 14-10-2024
Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2023
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	0.389	10	9.69	0.12	0.114	3890	5220	71466	75060	95900	100800	1.20	15.0	Premier Steel
2	0.394	10	9.76	0.12	0.116	3920	5220	72017	74570	95900	99300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **5827** (Dr. M Rizwan Riaz)
Reference of the request letter # VECO/2024/0515/1719

Dated: 14-10-2024
Dated: 14-10-2024

Tension Test Report (Page – 1/1)

Date of Test 15-10-2024
Gauge length 600 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")	430.0	432.0	9800	96.14	11100	108.89	>3.50	1
2	9.53 (3/8")	430.0	433.0	8300	81.42	11200	109.87	>3.50	2
3	9.53 (3/8")	430.0	433.0	9100	89.27	11100	108.89	>3.50	4
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only three samples for 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,
 Assistant Director-I (QCD)
 WASA, LDA, Lahore.
 (M/s Ali Rehman RCC Pipe Factory).

Reference # CED/TFL **5830** (Dr. Usman Akmal)
 Reference of the request letter # QCD/2094

Dated: 14-10-2024
 Dated: 12-10-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2024
 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	0.377	3	0.376	0.11	0.111	3570	5350	71600	70920	107200	106300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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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 Construction Solution Pakistan
 Rawalpindi
 (Construction of Mill Building Naveen Apparel, Defence Road, Lahore. Raiwind Road.

Reference # CED/TFL **5831** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 14-10-2024
 Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.381	10	9.59	0.12	0.112	3840	4710	70547	75540	86531	92700	1.00	12.5	
2	0.390	10	9.71	0.12	0.115	4050	4860	74405	77810	89286	93400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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
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To,

Project Engineer
Baig Construction Co.
Construction of Jinnah Square Mall, Raiwind Road, Lahore.

Reference # CED/TFL **5832** (Dr. Usman Akmal)

Dated: 14-10-2024

Reference of the request letter # ST/UET/10102024/3000

Dated: 10-10-2024

Tension Test Report (Page -1/1)

Date of Test 15-10-2024

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	0.381	3	0.377	0.11	0.112	3640	5150	73000	71720	103200	101500	1.00	12.5	
2	0.382	3	0.378	0.11	0.112	3670	5200	73600	72080	104200	102200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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