



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/09/3901
2023

Dated: 13-09-

Dated of Test: 15-09-2023

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

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

Reference to your letter No. Nil, dated 13.09.2023 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	7.79	7.32	12.83	9.07	1.88	9000	11500	3587	4583
2	9	7.78	7.31	12.60	8.77	1.91	10000	13500	4126	5570

Witness by M Waqas (QA/QC Lab Tech. Vision Developers Pvt. Ltd.)

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
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To,

Executive Engineer
 Road Construction Division
 Gujranwa
 (Construction Dual Carriageway from G.T Road (Benazir Chowk) to Lahore – Sialkot
 Motorway (Wahndo Interchange), Length = 15.20 km, District Gujranwala)

Reference # CED/TFL **3907** (Dr. M Kashif)
 Reference of the request letter # 1500 CB

Dated: 14-09-2023
 Dated: 28-08-2023

Tension Test Report (Page -1/1)

Date of Test 15-09-2023
 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	4.050	10	1.231	1.27	1.190	40400	52400	70200	74800	91000	97100	1.40	17.5	
2	4.111	10	1.240	1.27	1.208	38800	51800	67400	70780	89900	94500	1.50	18.8	
3	4.051	10	1.231	1.27	1.191	40400	52600	70200	74780	91300	97400	1.30	16.3	
4	4.208	10	1.255	1.27	1.237	37600	50400	65300	67000	87500	89900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#10 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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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Material Engineer
 Banu Mukhtar Contracting (Pvt) Ltd
 Burj – 1 by Ajwa Builders.

Reference # CED/TFL **3909** (Dr. M Kashif)
 Reference of the request letter # DOC-BMC/AJWA/106

Dated: 14-09-2023
 Dated: 14-09-2023

Tension Test Report (Page -1/1)

Date of Test 15-09-2023
 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	3600	4800	72200	71200	96200	95000	1.10	13.8	
2	0.367	3	0.371	0.11	0.108	3400	4700	68200	69430	94200	96000	1.30	16.3	
3	4.227	10	1.258	1.27	1.243	39000	55200	67700	69180	95800	98000	1.50	18.8	
4	4.255	10	1.262	1.27	1.251	38800	55200	67400	68370	95800	97300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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 Sui Northern Gas Pipelines Limited
 Lahore
 (Construction of Office Building at Central Base Store Workshop Manga.)

Reference # CED/TFL **3911** (Dr. M Kashif)
 Reference of the request letter # CC/PROJ/MANGA

Dated: 14-09-2023
 Dated: 12-09-2023

Tension Test Report (Page -1/1)

Date of Test 15-09-2023
 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	0.376	3/8	0.375	0.11	0.111	3400	4700	68200	67810	94200	93800	1.10	13.8	
2	0.369	3/8	0.372	0.11	0.108	3300	4700	66200	67090	94200	95600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratories
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,
CEO
Building Standards
Lahore
(Mobile Box Offices Pvt. Ltd.)

Reference # CED/TFL **3912** (Dr. M Kashif)
Reference of the request letter # GT/LTR/230914-023

Dated: 14-09-2023
Dated: 14-09-2023

Tension Test Report (Page -1/1)

Date of Test 15-09-2023
Gauge length 8 inches
Description Plain Steel Bar 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	6.833	-----	33.29	-----	870.4	55800	64600	629	728	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
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,
 M/S Alkhidmat Foundation Pakistan
 Lahore

Reference # CED/TFL **3913** (Dr. M Kashif)
 Reference of the request letter # AKFP-D-2087

Dated: 14-09-2023
 Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 15-09-2023
 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	0.372	3/8	0.373	0.11	0.109	3200	5000	64200	64440	100200	100700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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Ref: CED/TFL/09/3914

Dated: 14-09-2023

Dated of Test: 15-09-2023

To

DTL/RE

Jers Consultancy (Pvt) Ltd.

Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -1/2)

Reference to your letter No. 490-joi-co-17, dated 11.09.2023 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	7.75	7.28	11.06	9.01	1.03	4500	8000	1814	3225

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/09/3914

Dated: 14-09-2023

Dated of Test: 15-09-2023

To

DTL/RE

Jers Consultancy (Pvt) Ltd.

Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -2/2)

Reference to your letter No. 490-joi-PRMSC-02, dated 20.08.2023 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	7.70	7.33	16.06	12.05	2.01	9000	13500	2694	4041

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
Quantity Surveyor
Professional Construction Services (Pvt.) Ltd.
Construction of Allied Bank DR Center at Jail Road Faisalabad.

Reference # CED/TFL **3916** (Dr. M Kashif)
Reference of the request letter # PCS/23/Eng/151

Dated: 14-09-2023
Dated: 14-09-2023

Tension Test Report (Page -1/1)

Date of Test 15-09-2023
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	0.376	3	0.375	0.11	0.110	3800	4800	76200	75840	96200	95800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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.

Note:

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