



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/04/4989

Dated: 26-04-2024

Dated of Test: 14-05-2024

To

Resident Engineer
Asian Consulting Engineers - RHC
Detailed Design of Infrastructure Sub-Projects, Sectoral Planning & Resident
Supervision in 16 Cities of Punjab-Package No. 4
Rehabilitation and Improvement of Roads and Street Light in MC Burewala.

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

Reference to your letter No. AsCE - RHC Jv/PMDFC/PKG-04/RE/47,
dated 22.04.2024 on the subject cited above. Three 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	9	7.80	7.29	10.63	8.43	1.10	5500	7300	2368	3143
2	12	7.77	7.37	15.94	11.88	2.03	10700	16500	3232	4985
3	15	7.76	7.35	19.53	14.86	2.34	8000	13000	1939	3150

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
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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/05/5041

Dated: 07-05-2024

Dated of Test: 14-05-2024

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 07.05.2024 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	7.75	7.26	12.60	8.57	2.01	14500	17000	6164	7227
2	9	7.78	7.29	12.60	8.95	1.82	9500	13000	3853	5272

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 Mian Brothers Precast (Pvt.) Ltd.
Lahore

Reference # CED/TFL **5042** (Dr. Safeer Abbas)
Reference of the request letter # MBP/UET/24/1046

Dated: 07-05-2024

Dated: 07-05-2024

Tension Test Report (Page – 1/1)

Date of Test 14-05-2024
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")	430.0	443.0	9600	94.18	10900	106.93	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

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

To,

Principal Engineer
NESPAK

Replacement of Elevator Ropes installed at NESPAK House, Islamabad.

Reference # CED/TFL **5051** (Dr. Safer Abbas)

Dated: 09-05-2024

Reference of the request letter # 099/321/QAB/01/3207(A)

Dated: 26-03-2024

Tension Test Report (Page – 1/1)

Date of Test 14-05-2024

Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	10	0.39	4900	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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/05/5053

Dated: 09-05-2024

Dated of Test: 14-05-2024

To

Resident Engineer
Asian Consulting Engineers
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design and Construction Supervision of Cluster South-I (Lot No. 02)

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

Reference to your letter No. AsCE/PRSWSSP/CS1/P-03/1032, dated 02.05.2024 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	7.80	7.37	15.98	11.79	2.10	8500	12500	2589	3808

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
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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/05/5053

Dated: 09-05-2024

Dated of Test: 14-05-2024

To

Resident Engineer
Asian Consulting Engineers
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design and Construction Supervision of Cluster South-I (Lot No. 03)

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

Reference to your letter No. AsCE/PRSWSSP/CS1/P-03/1033, dated 02.05.2024 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	7.77	7.34	16.06	11.72	2.17	11500	16800	3536	5166

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,
Head Quality Assurance
FF Steel
Hayatabad Industrial Estate, Peshawar

Reference # CED/TFL **5060** (Dr. Safer Abbas)
Reference of the request letter # Nil

Dated: 10-05-2024
Dated: 10-05-2024

Tension Test Report (Page – 1/1)

Date of Test 14-05-2024
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	18	1.15	17100	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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
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Pakistan. Ph: 92-42-99029202

To,
M/S RK Constructors (Pvt.) Ltd.
Lahore

Reference # CED/TFL **5064** (Dr. Safeer Abbas)
Reference of the request letter # RKC/UET/18

Dated: 10-05-2024
Dated: 10-05-2024

Tension Test Report (Page – 1/1)

Date of Test 14-05-2024
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")	430.0	444.0	9600	94.18	10600	103.99	<3.50 Not ok	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

Ref: CED/TFL/04/4969

Dated: 13-05-2024
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
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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

Dated of Test: 14-05-2024

To

Resident Engineer
Asian Consulting Engineers
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design and Construction Supervision of Cluster South-I

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

Reference to your letter No. AsCE/PRSWSSP/CS1/Site-072, dated 31.03.2024 on the subject cited above. Three 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	7.79	7.35	16.02	11.86	2.08	15000	19000	4555	5769
2	12	7.78	7.34	15.94	11.93	2.01	14000	18500	4231	5591
3	12	7.78	7.33	15.98	11.87	2.06	12000	15500	3649	4714

To,

M/S Kakar Construction Comapny

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Quetta

Reference # CED/TFL **5070** (Dr. Safer abbas)
Reference of the request letter # Lhr/Test/12

Dated: 13-05-2024
Dated: 08-05-2024

Tension Test Report (Page -1/2)

Date of Test 14-05-2024
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)		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	778.0	18400	180.50	20100	197.18	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one 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

To,

M/S Kakar Construction Comapny

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
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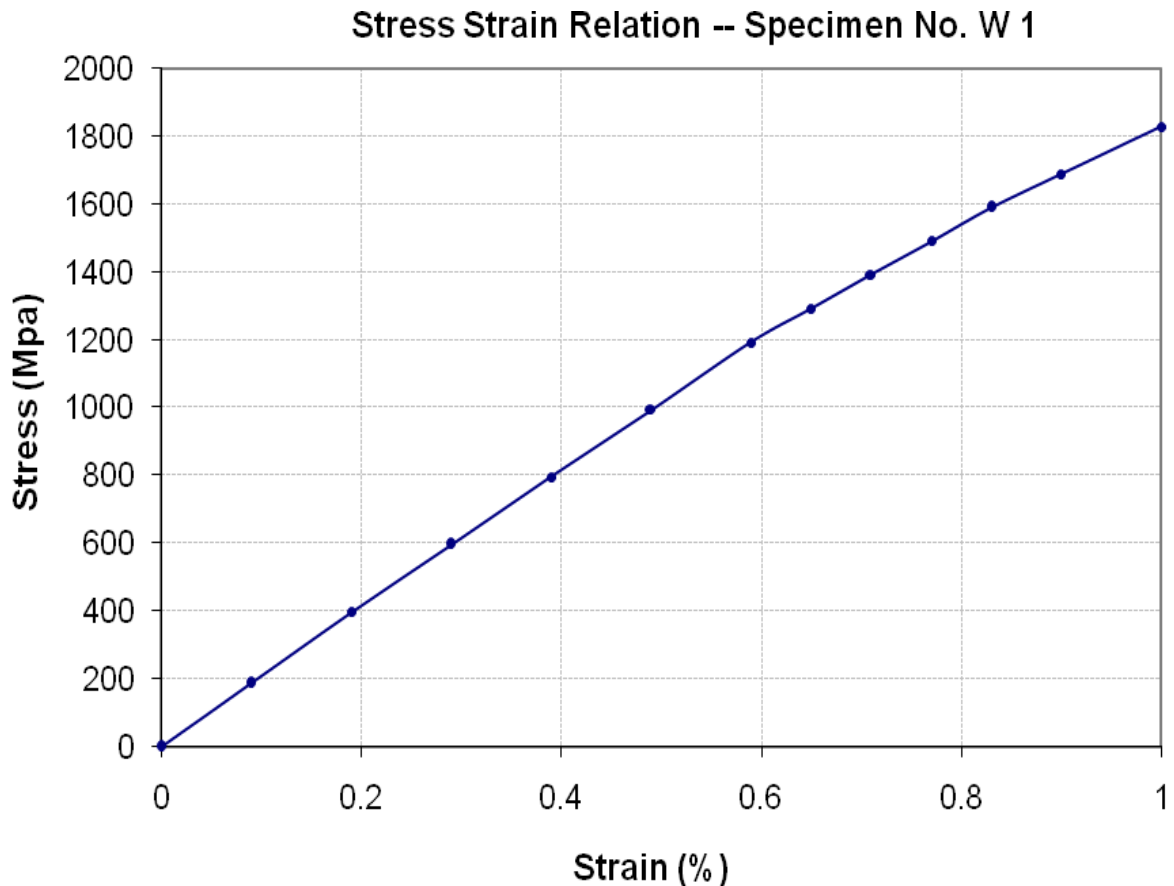
Quetta

Reference # CED/TFL **5070** (Dr. Safer abbas)
Reference of the request letter # Lhr/Test/12

Dated: 13-05-2024

Dated: 08-05-2024

Graph (Page – 2/2)



To,
Material Engineer

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

New Metro City Housing Scheme
Mandi Bahaudin

Reference # CED/TFL **5072** (Dr. M Rizwan Riaz)
Reference of the request letter # NMC/MBD/LAB/68

Dated: 14-05-2024
Dated: 14-05-2024

Tension Test Report (Page -1/1)

Date of Test 14-05-2024
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	0.364	3	0.369	0.11	0.107	3770	4810	75600	77660	96400	99100	1.10	13.8	FF Steel
2	0.359	3	0.367	0.11	0.106	3720	4740	74600	77700	95000	99100	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														

Witness by Usman (ARE)
To,
Material Engineer

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

New Metro City Housing Scheme
Mandi Bahaudin

Reference # CED/TFL **5073** (Dr. M Rizwan Riaz)
Reference of the request letter # NMC/MBD/LAB/67

Dated: 14-05-2024
Dated: 14-05-2024

Tension Test Report (Page -1/1)

Date of Test 14-05-2024
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	0.371	3	0.372	0.11	0.109	3640	4640	73000	73650	93000	93900	1.00	12.5	FF Steel
2	0.370	3	0.372	0.11	0.109	3690	4660	74000	74830	93400	94500	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														

Witness by Usman (ARE)

Ref: CED/TFL/05/5074

Dated: 14-05-2024

Dated of Test: 29-05-2024

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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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/RE
Osmani & Company (Pvt.) Ltd.
EDCS Project, Pakpattan
Engineering, Design & Construction Supervision for Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) Cluster Central II.

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

Reference to your letter No. PM/OCL/PRSWSSP/EDCS/Pkg-05/2024/31, dated 30.04.2024 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	7.75	7.35	16.14	11.82	2.16	11200	15200	3410	4628

To,

ADH (QA) Centre Lahore

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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GHQ, AG's Br (Housing Dte)
 Askari – XI Lahore

Reference # CED/TFL **5075** (Dr. M Rizwan Riaz)
 Reference of the request letter # 24501/HD/QA

Dated: 14-05-2024
 Dated: 14-05-2024

Tension Test Report (Page -1/1)

Date of Test 14-05-2024
 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	0.379	3	0.377	0.11	0.111	4100	5200	82200	81070	104200	102900	0.90	11.3	AK Supreme
2	0.384	3	0.379	0.11	0.113	3980	4990	79800	77780	100000	97600	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														

To,
 M/S JR Pvt. Ltd.

I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
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Lahore
 (Construction of Sports Complex at DHA Phase-V Lahore.)

Reference # CED/TFL **5077** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 14-05-2024
 Dated: 14-05-2024

Tension Test Report (Page -1/1)

Date of Test 14-05-2024
 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	0.372	3	0.373	0.11	0.109	3700	4900	74200	74490	98200	98700	1.80	22.5	
2	0.368	3	0.371	0.11	0.108	3500	4800	70200	71260	96200	97800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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