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 Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5794** (Dr. M Rizwaz Riaz) Dated: 09-10-2024
Reference of the request letter # WRD/010/LAB053 Dated: 09-10-2024

Tension Test Report

Date of Test 14-10-2024
Description Steel Wire Rope (IWRC GI) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	**14 (6x19)**	**0.78**	**12600**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

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

Ref: CED/TFL/10/5799 Dated: 09-10-2024

Date of Test: 14-10-2024

To,

M/S Lahore RCC Pipe Factory
Lahore

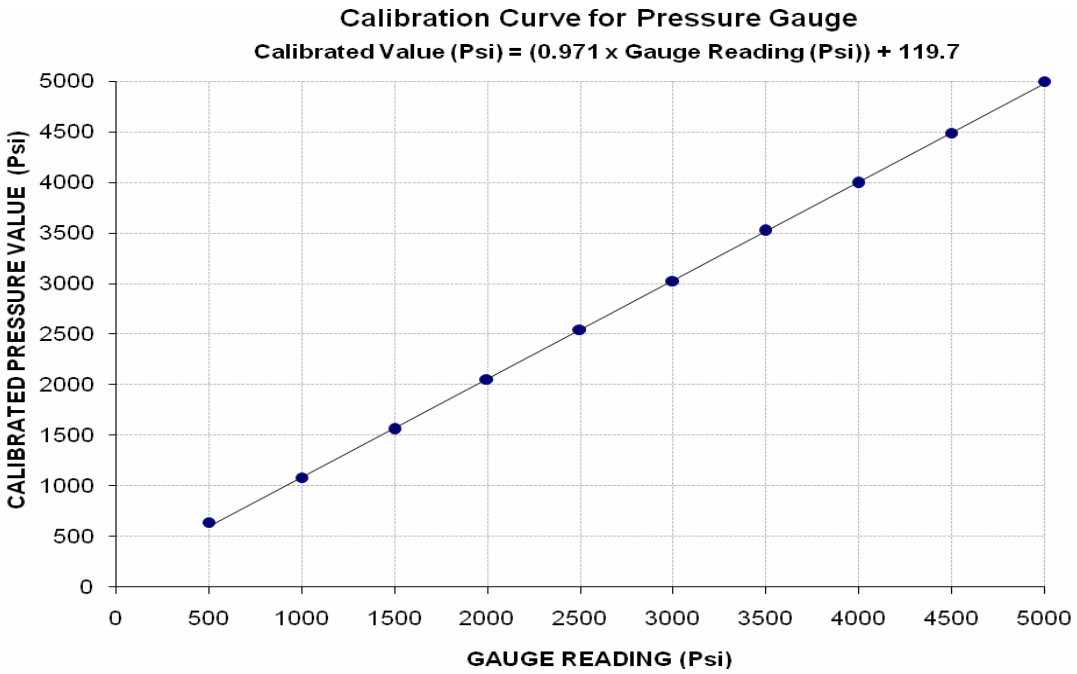
Subject: **- CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/5799** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 09/10/2024 on the subject cited above. One Pressure as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 6000 (Psi)
Calibrated Range : Zero - 5000 (Psi)

Pressure Gauge Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
Calibrated Load (kg)	8900	15100	21700	28600	35400	42100	49000	55600	62500	69600
Calibrated Pressure (Psi)	639	1085	1559	2054	2543	3024	3520	3994	4490	5000

The Ram Area for Calibration = 198 cm^2



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 Modern Wire & Cable Industries Pvt. Ltd.
Lahore

Reference # CED/TFL **5802** (Dr. M Rizwan Riaz) Dated: 10-10-2024
Reference of the request letter # Nil Dated: 10-10-2024

Tension Test Report (Page -1/3)

Date of Test 14-10-2024
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)		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**	**777.0**	**17900**	**175.60**	**19500**	**191.30**	**199**	**>3.50**	**xx**
2	**15.24 (0.6")**	**1102.0**	**1127.0**	**24400**	**239.36**	**26800**	**262.91**	**199**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two samples 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.

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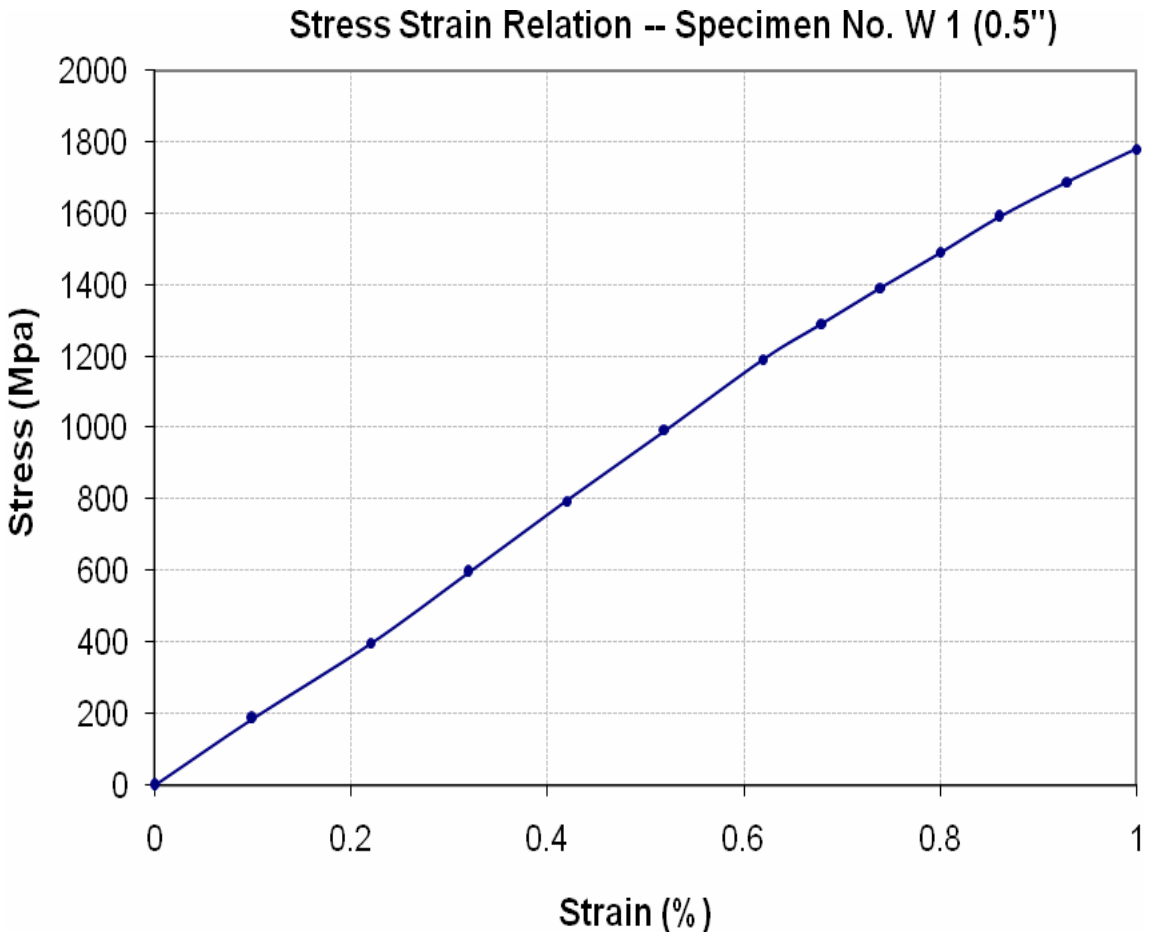
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Modern Wire & Cable Industries Pvt. Ltd.
Lahore

Reference # CED/TFL **5802** (Dr. M Rizwan Riaz) Dated: 10-10-2024
Reference of the request letter # Nil Dated: 10-10-2024

Graph (Page – 2/3)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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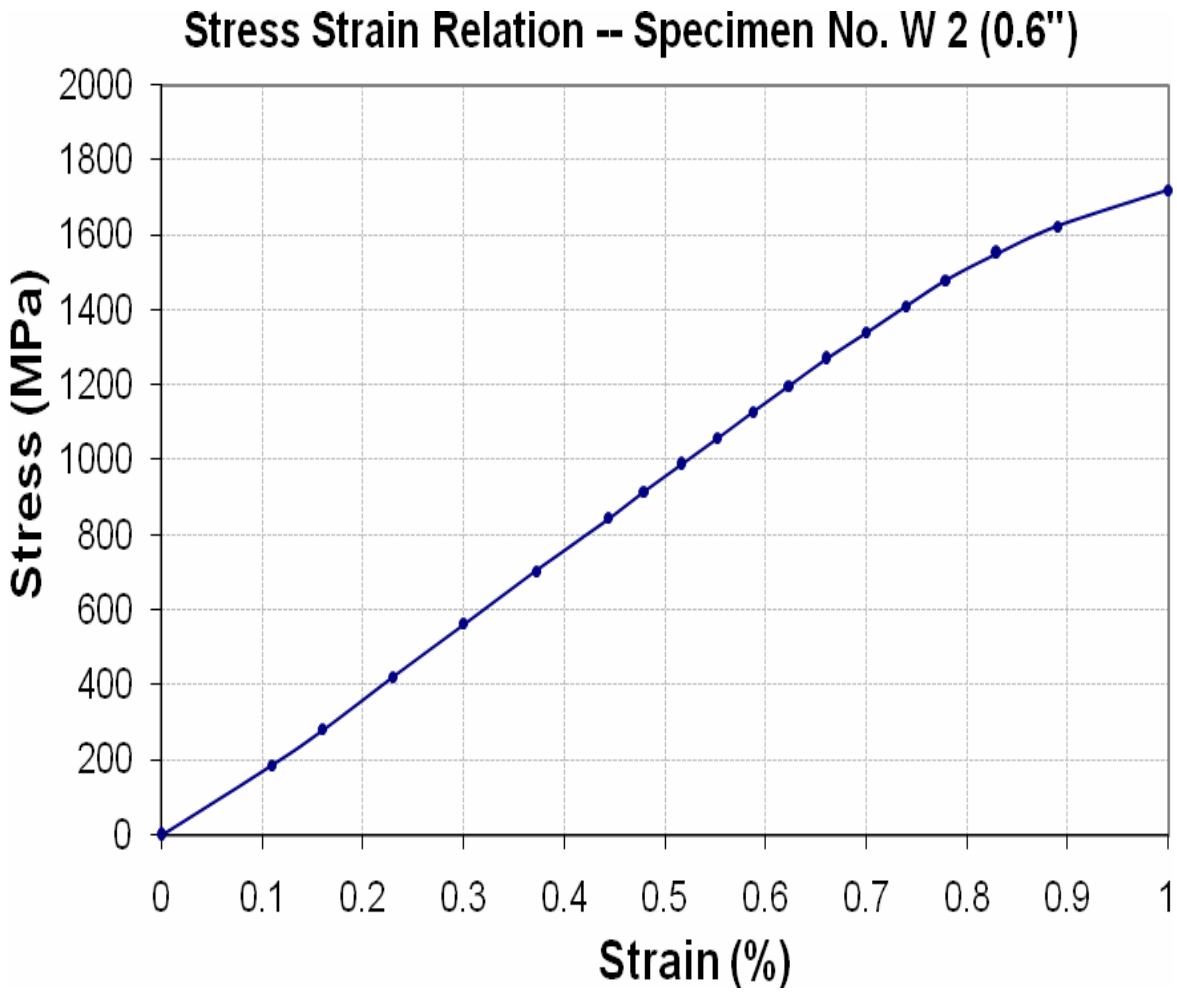
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Modern Wire & Cable Industries Pvt. Ltd.
Lahore

Reference # CED/TFL **5802** (Dr. M Rizwan Riaz) Dated: 10-10-2024
Reference of the request letter # Nil Dated: 10-10-2024

Graph (Page – 3/3)



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 Blis Construction (Pvt.) Ltd.
Lahore

Reference # CED/TFL **5804** (Dr. M Rizwan Riaz) Dated: 10-10-2024
Reference of the request letter # PCSL/MT-008/2024 Dated: 10-10-2024

Tension Test Report (Page -1/2)

Date of Test 14-10-2024
Gauge length 8 inches
Description MS Plain Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		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)		
1	0.153	5	4.99	--------	19.5	1000	1240	502	623	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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

To,

M/S Blis Construction (Pvt.) Ltd.
Lahore

Reference # CED/TFL **5804** (Dr. M Rizwan Riaz) Dated: 10-10-2024
Reference of the request letter # PCSL/MT-008/2024 Dated: 10-10-2024

Tension Test Report (Page -2/2)

Date of Test 14-10-2024
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")**	**432.0**	**445.0**	**9800**	**96.14**	**11000**	**107.91**	**>3.50**	**xx**
2	**11.11 (7/16")**	**582.0**	**589.0**	**12400**	**121.64**	**13600**	**133.42**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

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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,

Sr. Manager Construction
Educational Services(Pvt) Ltd.
Beaconhouse School System
Gujranwala Palm Tree Campus.

Reference # CED/TFL **5807** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # Nil Dated: 10-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.387	3	0.381	0.11	0.114	3500	5200	70200	67840	104200	100800	1.10	13.8	
2	0.375	3	0.375	0.11	0.110	3400	5100	68200	68020	102200	102100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,

Material Engineer
NESPAK – EPCM Consultants
Punjab Intermediate Cities Improvement Investment Program (PICIIP)
Consultancy Services for Engineering, Procurement and Construction Management
Trunk Main Sewer Lines and Allied Work (Lot-02)

Reference # CED/TFL **5809** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # 3976/11/MS/Lot-2/491 Dated: 10-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.161	2	0.245	------	0.047	1480	2000	------	68970	------	93200	1.30	16.3	AMK Steel
2	0.166	2	0.249	------	0.049	1480	2160	------	67040	------	97900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#2 Bar Bend Test Through 180º 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,

Resident Engineer
Allied Engineering & Services (Private) Ltd.
Project of Staff Office, Staff Residence & Rest House etc.
Situated at Main Okara Depalpur Road District Okara.
(M/s Ittefaq Building Solutions.)

Reference # CED/TFL **5810** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # Nil Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.370	3	0.372	0.11	0.109	4400	5100	88200	89220	102200	103500	0.80	10.0	
2	0.370	3	0.372	0.11	0.109	4200	5200	84200	85190	104200	105500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,

Resident Engineer
Allied Engineering & Services (Private) Ltd.
Project of Storage Silos for Corn & Ware House for Rice.
Situated at Main Okara Depalpur Road District Okara.
(M/s Ghani Construction Company.)

Reference # CED/TFL **5811** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # Nil Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.382	3	0.378	0.11	0.112	3800	4800	76200	74660	96200	94300	1.10	13.8	
2	0.384	3	0.379	0.11	0.113	3700	4700	74200	72340	94200	91900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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 Engineer
Flag Square Builders
Green Edge Project College Road, Lahore

Reference # CED/TFL **5812** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # Nil Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.411	10	9.96	0.12	0.121	4700	6000	86347	85830	110230	109600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º 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,

General Manager Factory
Master Offisys (Pvt) Ltd.
SM Civil Master Procon Factory Lahore.

Reference # CED/TFL **5813** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # PEMH05-003 Dated: 10-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.368	3	0.371	0.11	0.108	3500	4400	70200	71240	88200	89600	1.10	13.8	
2	0.376	3	0.375	0.11	0.110	3600	4300	72200	71890	86200	85900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

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

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
Widening / Improvemnet of Road from Sialkot Cantt to Jassar Garrison Length = 69.00 km, in District Narowal.

Reference # CED/TFL **5814** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # AZ/RE/SNR/165 Dated: 23-09-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.382	3	0.378	0.11	0.112	3100	4700	62200	60870	94200	92300	1.40	17.5	Islamabad Supreme Steel
2	0.387	3	0.381	0.11	0.114	3100	4700	62200	60070	94200	91100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

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 Fida Construction Company
Lahore

Reference # CED/TFL **5815** (Dr. M Rizwan Riaz) Dated: 11-10-2024
Reference of the request letter # Nil Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3/8	0.372	0.11	0.108	3300	5000	66200	67060	100200	101700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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 Incharge
KMI Group Fazal
Construction of New Continuues MDF Plant.

Reference # CED/TFL **5816** (Dr. Usman Akmal) Dated: 14-10-2024
Reference of the request letter # KMI-CIVIL-01 Dated: 13-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.358	3/8	0.366	0.11	0.105	3310	4960	66400	69380	99400	104000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

Witness by Zafar Iqbal Javid (G – Officer KMI Fazil)

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,

Procurement Manager
S.K Farmhouse
S.K Farmhouse Near Jhumra Flyover Faisalabad

Reference # CED/TFL **5817** (Dr. M Rizwan Riaz) Dated: 14-10-2024
Reference of the request letter # 004 Dated: 11-10-2024

Tension Test Report (Page # 1/1)

Date of Test 14-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.355	3/8	0.364	0.11	0.104	3400	4600	68200	71880	92200	97300	1.00	12.5	Hunza
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only one sample for tensile and one sample for bend test

Bend Test

3/8" Dia Bar Bend Test Through 180º 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,

Dy Dir Infra
Defence Housing Authority, Gujranwala
"Construction of Living Barrracks for Seurity Guards at Southern End – DHA Gujranwla."

Reference # CED/TFL **5823** (Dr. Usman Akmal) Dated: 14-10-2024
Reference of the request letter # 111/DD/LB/S – End/13 Dated: 11-10-2024

Tension Test Report (Page -1/1)

Date of Test 14-10-2024
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	0.369	3	0.371	0.11	0.108	3300	4900	66200	67140	98200	99700	1.20	15.0	
2	0.382	3	0.378	0.11	0.112	3500	5000	70200	68650	100200	98100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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 **5826** (Dr. M Rizwan Riaz) Dated: 14-10-2024
Reference of the request letter # VECO/2024/0515/1718 Dated: 14-10-2024

Tension Test Report

Date of Test 14-10-2024
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**	**435.0**	**8600**	**84.37**	**11000**	**107.91**	**>3.50**	**3**
2	**9.53 (3/8")**	**430.0**	**434.0**	**9700**	**95.16**	**11100**	**108.89**	**>3.50**	**5**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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