



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 **6141** (Dr. M Kashif)
Reference of the request letter # WRD/010/LAB058

Dated: 12-12-2024
Dated: 12-12-2024

Tension Test Report (Page – 1/1)

Date of Test 16-12-2024
Description Steel Wire Rope (IWRC UG) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	22 (6x37)	1.91	27100	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

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,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **6142** (Dr. M Kashif)
Reference of the request letter # WRD/010/LAB059

Dated: 12-12-2024
Dated: 12-12-2024

Tension Test Report (Page – 1/1)

Date of Test 16-12-2024
Description Steel Wire Rope (H/C GI) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	22 (6x19)	1.64	25900	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

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 Sohsin Steel Works
Lahore
(18 km Lahore Kasur Road Sufiabab Descon Lahore.)

Reference # CED/TFL **6153** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 13-12-2024
Dated: 13-12-2024

Tension Test Report (Page – 1/1)

Date of Test 16-12-2024
Gauge length 2 inches
Description MS Tube Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	6x6x1/8	40.70x3.40	138.38	4500	5300	319	376	0.80	40.00	
2	4x8x1/8	39.80x3.00	119.40	4500	5300	370	435	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Sub Divisional Officer
 Building Sub Division No. 16
 Lahore
 (Construction of Smart Police Station Shadman, Lahore.)

Reference # CED/TFL **6155** (Dr. M Kashif)
 Reference of the request letter # 48/16th

Dated: 13-12-2024
 Dated: 12-12-2024

Tension Test Report (Page -1/1)

Date of Test 12-13-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.370	3/8	0.372	0.11	0.109	3500	5000	70200	70900	100200	101300	1.20	15.0	
2	0.367	3/8	0.370	0.11	0.108	3500	5000	70200	71570	100200	102300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" 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

Sub Divisional Officer
Buildings Sub Division,
Khushab
(Programme for Revamping of RHCs (Phase-I) Rural Health Center of District Khushab
Phase-I)

Reference # CED/TFL **6158** (Dr. M Kashif)
Reference of the request letter # 5971/K

Dated: 13-12-2024
Dated: 15-11-2024

Tension Test Report (Page -1/2)

Date of Test 16-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	2700	4000	54100	56590	80200	83900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" 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

Sub Divisional Officer
Buildings Sub Division,
Khushab
(Programme for Revamping of RHCs (Phase-I) Rural Health Center of District Khushab
Phase-I)

Reference # CED/TFL **6158** (Dr. M Kashif)
Reference of the request letter # 5881/K

Dated: 13-12-2024
Dated: 07-11-2024

Tension Test Report (Page -2/2)

Date of Test 16-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.359	3/8	0.366	0.11	0.105	2900	4200	58200	60600	84200	87800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia 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,

Resident Engineer (QA/QC Department)
Bahria Town Private Limited
Johar Block Masjid Multan Road Site Bahria Town, Lahore.

Reference # CED/TFL **6159** (Dr. M Kashif)

Dated: 13-12-2024

Reference of the request letter # QA/QC-Steel-3860

Dated: 11-12-2024

Tension Test Report (Page -1/1)

Date of Test 16-12-2024

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	3600	4700	72200	72880	94200	95200	1.30	16.3	
2	0.376	3	0.375	0.11	0.111	3700	4800	74200	73750	96200	95700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

To,
 Project Control Sub Sec Head
 Haier
 Cooling Tube Factory at Haier, Raiwind, Lahore.

Reference # CED/TFL **6162** (Dr. M Kashif)
 Reference of the request letter # HNR/CTF/01

Dated: 13-12-2024
 Dated: 12-12-2024

Tension Test Report (Page -1/1)

Date of Test 16-12-2024
 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	0.375	3	0.375	0.11	0.110	3400	4700	68200	68000	94200	94000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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

Sub Divisional Officer
Buildings Sub Division,
Haroonabad
(Programme for Revamping of 552 BHUs South Punjab (Phase-I))
(Basic Health Unit Tehsil Haroonabad)

Reference # CED/TFL **6163** (Dr. M Kashif)
Reference of the request letter # 587/HND

Dated: 13-12-2024
Dated: 30-09-2024

Tension Test Report (Page -1/1)

Date of Test 16-12-2024

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.373	3/8	0.373	0.11	0.110	3300	5000	66200	66400	100200	100600	1.20	15.0	
2	0.370	3/8	0.372	0.11	0.109	3300	5000	66200	66880	100200	101400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend 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

Project Engineer
Maxcon Engineers
Office Building, 07-Aurangzeb Block, New Garden Town, Laore.

Reference # CED/TFL **6165** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 13-12-2024
Dated: 13-12-2024

Tension Test Report (Page -1/1)

Date of Test 16-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.379	3	0.377	0.11	0.111	3300	4900	66200	65320	98200	97000	1.40	17.5	
2	0.378	3	0.376	0.11	0.111	3400	4900	68200	67420	98200	97200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

The Engineer
BWRDSP Consultants
Balochistan Water Resources Development Sector Project
Construction of Siri Toi Dam Subproject – Zhob River Basin (ICB-01)

Reference # CED/TFL **6166** (Dr. M Kashif)

Dated: 13-12-2024

Reference of the request letter # 4078/061/HAB/01/ICB-01/2237

Dated: 12-12-2024

Tension Test Report (Page -1/1)

Date of Test 16-12-2024

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	0.408	10	9.93	0.12	0.120	3700	5600	67975	67950	102881	102900	1.30	16.3	FF Steel
2	0.415	10	10.01	0.12	0.122	3700	5700	67975	66880	104719	103100	1.50	18.8	
3	0.424	10	10.12	0.12	0.125	3700	5800	67975	65370	106556	102500	1.40	17.5	Al-Moiz Steel
4	0.415	10	10.01	0.12	0.122	3700	5600	67975	66920	102881	101300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia 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,

Assistant Director (Q.C.D)
WASA, LDA, Lahore.
(M/s Eagle Pipe Industry.)

Reference # CED/TFL **6167** (Dr. M Kashif)
Reference of the request letter # QCD/2356

Dated: 13-12-2024
Dated: 23-11-2024

Tension Test Report (Page -1/2)

Date of Test 17-12-2024
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	0.373	3	0.374	0.11	0.110	3500	5200	70200	70370	104200	104600	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 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,

Assistant Director (Q.C.D)
WASA, LDA, Lahore.
(M/s Eagle Pipe Industry.)

Reference # CED/TFL **6167** (Dr. M Kashif)
Reference of the request letter # QCD/2489

Dated: 13-12-2024
Dated: 12-12-2024

Tension Test Report (Page -2/2)

Date of Test 17-12-2024
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	0.079	5/32	0.172	-----	0.023	1080	1320	-----	102980	-----	125900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
5/32" Dia 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,

Director Projects
 Sheikho Sugar Mills (Steel Division)
 Sheikho Steel, Anwar Abad Kot Addu, Muzaffargarh
 Sub Divisional Officer
 Highway Sub Division, Dera Ghazi Khan.

Reference # CED/TFL **6170** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 16-12-2024
 Dated: 11-12-2024

Tension Test Report (Page -1/2)

Date of Test 16-12-2024
 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	3600	4800	72200	72980	96200	97300	1.50	18.8	
2	0.369	3	0.371	0.11	0.108	3600	4800	72200	73250	96200	97700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
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



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

To,

Director Projects
 Sheikho Sugar Mills (Steel Division)
 Sheikho Steel, Anwar Abad Kot Addu, Muzaffargarh
 Sub Divisional Officer
 Highway Sub Division, Dera Ghazi Khan.

Reference # CED/TFL **6170** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 16-12-2024
 Dated: 11-12-2024

Tension Test Report (Page -2/2)

Date of Test 16-12-2024

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	4.186	32	31.79	1.25	1.230	37400	51400	65962	67000	90653	92100	1.20	15.0	
2	4.167	32	31.72	1.25	1.225	37000	52600	65256	66590	92770	94700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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