



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/07/5377

Dated: 22-07-2024

Dated of Test: 30-07-2024

To

Deputy Director (QCD)
Water and Sanitation Agency
Faisalabad
(M/s Madina RCC Pipe Manufacturing Factory, 239-R.B Khanoana Bypass,
Faisalabad.)

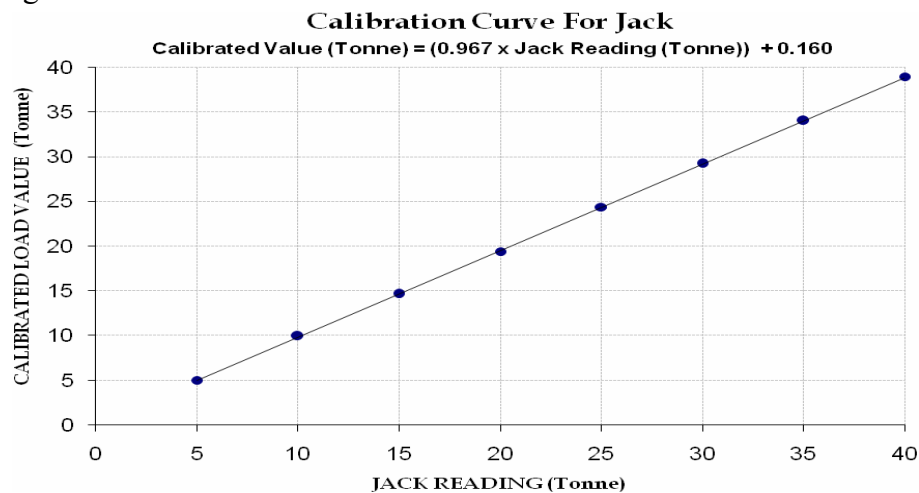
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/07/5377)

Reference to your Letter No. 265/DD(QCD)/WASA/2024, Dated: 12/07/2024 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (Tonne)
Calibrated Range : Zero - 40 (Tonne)

Hydraulic Jack Reading (Tonne)		5	10	15	20	25	30	35	40
Calibrated Load	(kg)	5000	9950	14650	19400	24350	29200	34000	38950
	(Tonne)	5.00	9.95	14.65	19.40	24.35	29.20	34.00	38.95

1000 kg = 1 Tonne



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 Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5396** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB039

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/1)

Date of Test 30-07-2024

Description Steel Wire Rope (IWSC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	8 (8x19)	0.29	5400	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5397** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB041

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/4)

Date of Test

30-07-2024

Description

Steel Wire Rope (HC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12 (6x19)	0.56	10500	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5397** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB042

Dated: 25-07-2024
Dated: 23-07-2024

Tension Test Report (Page – 2/4)

Date of Test 30-07-2024
Description Steel Wire Rope (SC Galvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12 (7x19)	0.43	6800	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5397** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB043

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 3/4)

Date of Test 30-07-2024

Description Steel Wire Rope (S Jute Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12 (8x19)	0.51	6400	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

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
Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5397** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB044

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 4/4)

Date of Test 30-07-2024

Description Steel Wire Rope (Sisal Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12 (8x19)	0.50	6600	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5398** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB040

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/1)

Date of Test 30-07-2024

Description Steel Wire Rope (SISAL Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	10 (8x19)	0.33	5000	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5399** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB045

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/1)

Date of Test 30-07-2024

Description Steel Wire Rope (S Jute Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	13 (8x19)	0.56	7900	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5400** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB046

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/2)

Date of Test

30-07-2024

Description

Steel Wire Rope (HC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14 (6x19)	0.70	10800	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5400** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB047

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 2/2)

Date of Test 30-07-2024

Description Steel Wire Rope (Sisal Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14 (8x19)	0.70	8300	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
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
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To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5401** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB048

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/1)

Date of Test

30-07-2024

Description

Steel Wire Rope (HC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	16 (6x19)	0.98	14000	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5402** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB049

Dated: 25-07-2024

Dated: 23-07-2024

Tension Test Report (Page – 1/1)

Date of Test 30-07-2024

Description Steel Wire Rope (S+J Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	11 (8x19)	0.41	5800	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

To,

M/S Jade Squire

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

Construction of Jade Square Multipurpose Complex, Adjacent LGS, Canal Road
Faisalabad.
(Goldfinch Construction Pvt. Ltd.)

Reference # CED/TFL **5413** (Dr. M Rizwan Riaz)
Reference of the request letter# J.S/CIVIL/21-112

Dated: 29-07-2024
Dated: 08-07-2024

Tension Test Report (Page -1/1)

Date of Test 30-07-2024
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	0.377	3	0.376	0.11	0.111	3200	4800	64200	63600	96200	95400	1.30	16.3	Noomi Steel
2	0.368	3	0.371	0.11	0.108	3100	4700	62200	63200	94200	95900	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														

To,

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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

Project Manager
Halmore Properties Pvt. Ltd.
Construction of Halmore Apartments at Plot No. 11, Block B3, Gulberg-III, Tipu Road,
Lahore.

Reference # CED/TFL **5414** (Dr. M Rizwan Riaz)
Reference of the request letter# HPPL/UET/29/07/021

Dated: 29-07-2024
Dated: 29-07-2024

Tension Test Report (Page -1/1)

Date of Test 30-07-2024
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	0.402	3	0.388	0.11	0.118	4300	5700	86200	80300	114300	106500	0.90	11.3	SJ Steel
2	0.377	3	0.376	0.11	0.111	4300	5300	86200	85520	106200	105500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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,

Resident Engineer
NESPAK

KBCMA College of Veterinary and Animal Sciences Narowal Campus.

Reference # CED/TFL **5416** (Dr. M Rizwan Riaz)
Reference of the request letter# 4650/311/SR/15

Dated: 29-07-2024
Dated: 11-07-2024

Tension Test Report (Page -1/1)

Date of Test 30-07-2024

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	0.386	3	0.380	0.11	0.114	3500	4900	70200	67960	98200	95200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Dy Dir Infra
Defence Housing Authority, Gujranwala
"Boundary Wall (Sector J)."

Reference # CED/TFL **5417** (Dr. M Roizwan Riaz)

Dated: 29-07-2024

Reference of the request letter # 111/15/DD/RS/Lab/Sec-J/31

Dated: 15-07-2024

Tension Test Report (Page -1/1)

Date of Test 30-07-2024

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	0.381	3	0.378	0.11	0.112	4100	4700	82200	80730	94200	92600	0.90	11.3	AF Steel
2	0.372	3	0.373	0.11	0.109	3800	4500	76200	76550	90200	90700	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														

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Material Engineer
Banu Mukhtar Contracting (Pvt) Ltd
Burj – 1 by Ajwa Builders.

Reference # CED/TFL **5419** (Dr. M Rizwan Riaz)
Reference of the request letter # DOC-BMC/AJWA/142

Dated: 29-07-2024

Dated: 28-07-2024

Tension Test Report (Page -1/1)

Date of Test 30-07-2024

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	0.371	3	0.373	0.11	0.109	3600	5000	72200	72760	100200	101100	1.10	13.8	
2	0.380	3	0.377	0.11	0.112	3600	5000	72200	70960	100200	98600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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



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 (UOS) - DCS
Development Consultancy Services (Pvt) Ltd.
Establishment of Campus of Government College University at District Chiniot –
Construction of Academic Block and Admin Block.

Reference # CED/TFL **5420** (Dr. M Rizwan Riaz)
Reference of the request letter# DCS/RE/UOS/2024/0729

Dated: 29-07-2024
Dated: 29-07-2024

Tension Test Report (Page -1/1)

Date of Test 30-07-2024
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	0.363	3	0.369	0.11	0.107	3500	4900	70200	72270	98200	101200	1.00	12.5	AK Steel
2	0.364	3	0.369	0.11	0.107	3800	5000	76200	78270	100200	103000	0.80	10.0	
3	0.375	3	0.375	0.11	0.110	3100	4700	62200	62020	94200	94100	1.20	15.0	Aziz Steel
4	0.374	3	0.374	0.11	0.110	3200	4900	64200	64150	98200	98300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#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
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