STRUCTURAL ENGINEERING DIVISION

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

To,

Deputy Director (QCD)
Water and Sanitation Agency,
Faisalabad.

Reference # CED/TFL **4665** (Dr. M Kashif) Dated: 20-02-2024
Reference of the request letter # 50/DD(QCD)/WASA/2024 Dated: 15-02-2024

Tension Test Report (Page -1/2)

Date of Test 23-02-2024
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	0.099	3/16	0.193	------	0.029	1200	1360	------	90620	------	102700	0.80	10.0	Madina
2	0.096	3/16	0.189	------	0.028	1200	1440	------	93970	------	112800	0.90	11.3	
3	0.092	3/16	0.185	------	0.027	960	1080	------	78440	------	88300	1.20	15.0	Saleem Engg.
4	0.091	3/16	0.185	------	0.027	960	1080	------	79080	------	89000	1.00	12.5	
5	0.096	3/16	0.189	------	0.028	720	920	------	56450	------	72200	1.20	15.0	Haider
6	0.097	3/16	0.191	------	0.029	720	920	------	55600	------	71100	1.40	17.5	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
3/16" Dia Bar Bend Test Through 180º is Satisfactory														
3/16" Dia Bar Bend Test Through 180º is Satisfactory														
3/16" Dia 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
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,

Deputy Director (QCD)
Water and Sanitation Agency,
Faisalabad.

Reference # CED/TFL **4665** (Dr. M Kashif) Dated: 20-02-2024
Reference of the request letter # 50/DD(QCD)/WASA/2024 Dated: 15-02-2024

Tension Test Report (Page -2/2)

Date of Test 23-02-2024
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	0.096	3/16	0.189	------	0.028	1000	1200	------	78450	------	94200	1.30	16.3	United I
2	0.095	3/16	0.189	------	0.028	1000	1200	------	78650	------	94400	1.00	12.5	
3	0.091	3/16	0.185	------	0.027	960	1120	------	79100	------	92300	0.90	11.3	United II
4	0.095	3/16	0.188	------	0.028	920	1080	------	72930	------	85700	1.20	15.0	
5	0.103	3/16	0.196	------	0.030	920	1080	------	67220	------	79000	1.10	13.8	Rasheed
6	0.102	3/16	0.195	------	0.030	960	1200	------	70760	------	88500	1.20	15.0	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
3/16" Dia Bar Bend Test Through 180º is Satisfactory														
3/16" Dia Bar Bend Test Through 180º is Satisfactory														
3/16" Dia 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
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
Bahria Town Private Limited.
Culvert at Overseas Enclave "C" Bahria Toawn Road Site Lahore.

Reference # CED/TFL **4666** (Dr. M Kashif) Dated: 20-02-2024
Reference of the request letter # QA/QC-Steel-3533 Dated: 29-01-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.373	0.11	0.110	3600	5000	72200	72430	100200	100600	1.40	17.5	
2	0.369	3	0.372	0.11	0.109	3700	5100	74200	75140	102200	103600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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,

Chief Operating Officer
Gatewala Commercial Hub Faisalabad
Construction of Gatewala Commercial Hub Faisalabad

Reference # CED/TFL **4668** (Dr. M Kashif) Dated: 20-02-2024
Reference of the request letter # GCHF/2024/PM/05 Dated: 19-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.373	0.11	0.110	3200	4700	64200	64380	94200	94600	1.40	17.5	
2	0.392	3	0.383	0.11	0.115	3500	5100	70200	66980	102200	97600	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:
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,

Admin /Store Incharge
Linker Developers (Pvt) Ltd.
Construction of Quaid-e-Azam Public School Dream Garden Wazirabad.

Reference # CED/TFL **4669** (Dr. M Kashif) Dated: 20-02-2024
Reference of the request letter # LINKER/02/24/046 Dated: 20-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.380	3	0.377	0.11	0.112	3700	5200	74200	73060	104200	102700	1.40	17.5	FF Steel
2	0.376	3	0.375	0.11	0.111	3700	5200	74200	73790	104200	103700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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
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
Infrastructure Development Authority of Punjab
"Design, Procurment, Deployment and Commissioning of CCTV Cotrol Room and Data Centre (Computer & Core Network) Infrastructure on EPC/ Turnkey Basis for Punjab Police Integrated Command, Control and Coounication (PPIC3) Faisalabad."

Reference # CED/TFL **4671** (Dr. M Kashif) Dated: 20-02-2024
Reference of the request letter # PPIC3-FSD/IDAP/2024/0005 Dated: 15-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.364	3/8	0.369	0.11	0.107	3600	5300	72200	74180	106200	109300	1.10	13.8	Ittehad Steel
2	0.363	3/8	0.369	0.11	0.107	3500	5200	70200	72320	104200	107500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples 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.

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
NESPAK
Dualization of Road from Slam to Sargodha via Bahalwal Ajnal Road Length 47.00 km in District Sargodha.

Reference # CED/TFL **4674** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # 4376/SMH/24/6011 Dated: 12-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.365	3	0.370	0.11	0.107	3600	4900	72200	73900	98200	100600	1.40	17.5	Kamran Steel
2	0.370	3	0.372	0.11	0.109	3800	5300	76200	77040	106200	107500	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
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,

Engineer
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Family Park (Villas Space, Sports Arena, Family Point Sec Comm)"

Reference # CED/TFL **4675** (Dr. M KAshif) Dated: 21-02-2024
Reference of the request letter # 111/3/DD/Dev/ESAC-05/24 Dated: 20-02-2024

Tension Test Report (Page -1/1)

Date of Test 22-02-2024
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	0.388	3	0.381	0.11	0.114	4000	5100	80200	77300	102200	98600	0.80	10.0	Kamran Steel
2	0.385	3	0.380	0.11	0.113	4100	5200	82200	79770	104200	101200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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 (W&D)
Punjab Small Industries Corporation
"Establishment of Handicraft Development Centre Kamalia."

Reference # CED/TFL **4676** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # PSIC/W&D/471 Dated: 26-01-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.364	3	0.369	0.11	0.107	3600	4600	72200	74130	92200	94800	1.40	17.5	
2	0.365	3	0.370	0.11	0.107	3500	4600	70200	71930	92200	94600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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,

Material Engineer
NESPAK – EPCM Consultant
Punjab Intermediated 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 **4678** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # 3976/11/MS/SWL/Lot-02/01/852 Dated: 19-02-2024

Tension Test Report (Page -1/2)

Date of Test 23-02-2024
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	3500	5000	70200	70860	100200	101300	1.60	20.0	Sheikhoo Steel
2	0.370	3	0.372	0.11	0.109	3600	5000	72200	72940	100200	101300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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,

Material Engineer
NESPAK – EPCM Consultant
Punjab Intermediated 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 **4678** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # 3976/11/MS/SWL/Lot-02/01/853 Dated: 19-02-2024

Tension Test Report (Page -2/2)

Date of Test 23-02-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

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	0.240	2	0.300	-------	0.071	1700	2100	-------	53120	-------	65700	1.30	16.3	SJ Steel
2	0.212	2	0.282	-------	0.062	2000	2500	-------	70800	-------	88500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:
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
ITU
Construction of Student Hostels / Villas at Main Barki Road Lahore.

Reference # CED/TFL **4680** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # ITU/OEW/24/077-II Dated: 16-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	3300	4800	66200	66000	96200	96000	1.30	16.3	
2	0.380	3	0.377	0.11	0.112	3400	4800	68200	67020	96200	94700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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
ITU
Construction of Student Hostels / Villas at Main Barki Road Lahore.

Reference # CED/TFL **4681** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # ITU/OEW/24/077 Dated: 16-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	3700	4800	74200	74720	96200	97000	0.80	10.0	
2	0.367	3	0.371	0.11	0.108	3200	4600	64200	65370	92200	94000	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
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
ITU
Construction of Student Hostels / Villas at Main Barki Road Lahore.

Reference # CED/TFL **4682** (Dr. M Kashif) Dated: 21-02-2024
Reference of the request letter # ITU/OEW/24/077-I Dated: 16-02-2024

Tension Test Report (Page -1/1)

Date of Test 23-02-2024
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	0.372	3	0.373	0.11	0.109	3200	4700	64200	64510	94200	94800	1.10	13.8	
2	0.377	3	0.376	0.11	0.111	3300	4800	66200	65670	96200	95600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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