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
Infrastructure Development of Quaid-E-Azam Business Park on Motorway M-2, District Sheikhupura.

Reference # CED/TFL **4360** (Dr. Ali Ahmed) Dated: 15-12-2023
Reference of the request letter # 4163/11/ZA/04/612 Dated: 24-10-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
Gauge length 8 inches
Description Plain Steel Bar Tensile and Bend 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	11.928	43	43.98	-------	1519.5	66800	98800	431	638	1.30	16.3	
2	11.846	43	43.83	-------	1509.1	66200	98800	430	642	2.40	30.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
43mm 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
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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 **4373** (Dr. Safeer Abbass) Dated: 19-12-2023
Reference of the request letter # VECO/2023/1218/002-A Dated: 18-12-2023

Tension Test Report

Date of Test 20-12-2023
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**	**445.0**	**9600**	**94.18**	**10700**	**104.97**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one samples for 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,

Project Engineer
Progressive Heights
33J3, Johar Town, Lahore

Reference # CED/TFL **4374** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # ProgressiveHeights/misc/002 Dated: 15-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	0.378	3/8	0.376	0.11	0.111	3430	4760	68800	68070	95400	94500	1.40	17.5	
2	0.377	3/8	0.376	0.11	0.111	3620	4840	72600	72050	97000	96400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dai 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,

Project Incharge (WASO)
PAEC-Chashma
"Construction of Two Lane Seismically Qualified Bridge over C.J Link Canal of Chashma."

Reference # CED/TFL **4375** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # WASO-CMD-LOI-206/C/2174 Dated: 14-12-2023

Tension Test Report (Page -1/2)

Date of Test 20-12-2023
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)		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**	**788.0**	**18200**	**178.54**	**19900**	**195.22**	**198**	**>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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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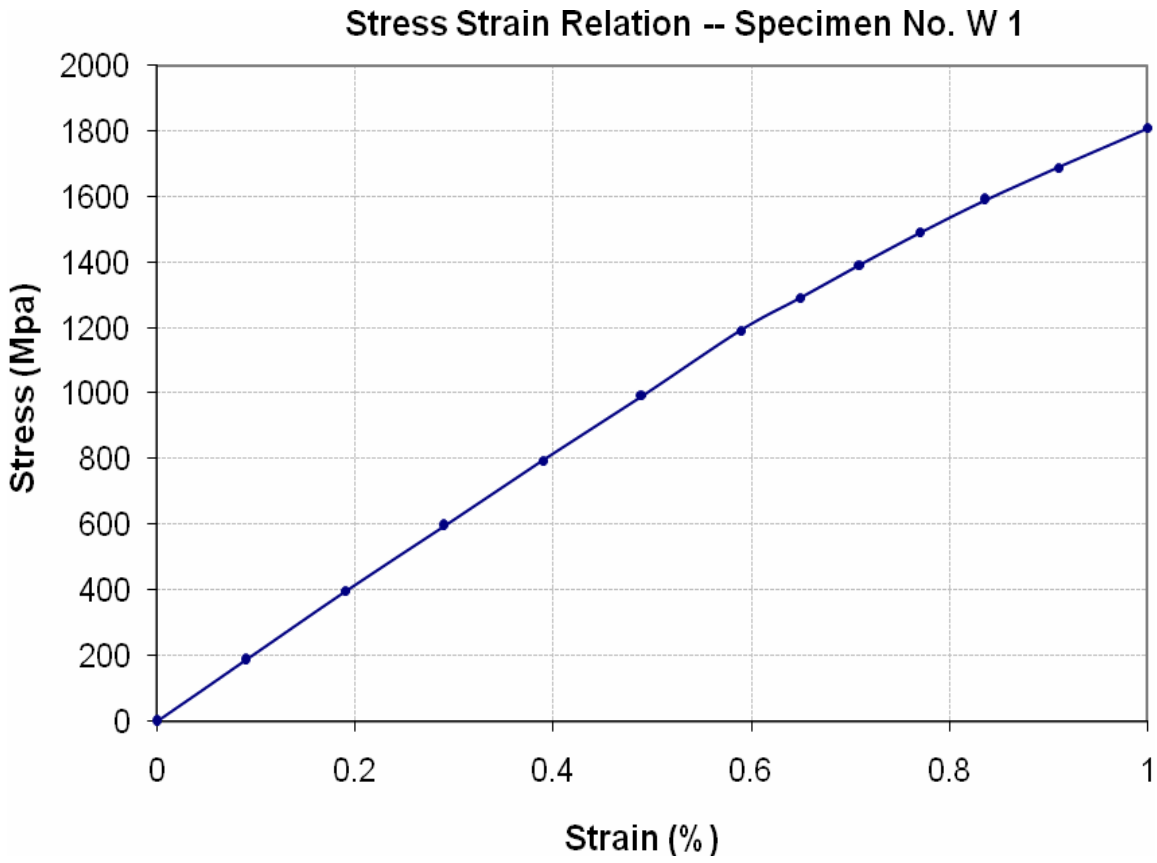
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Project Incharge (WASO)
PAEC-Chashma
"Construction of Two Lane Seismically Qualified Bridge over C.J Link Canal of Chashma."

Reference # CED/TFL **4375** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # WASO-CMD-LOI-206/C/2174 Dated: 14-12-2023

Graph (Page – 2/2)



I/C Testing Laboratoires
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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,

Hasnain Sheikh
ES Consulting (Pvt) Ltd.
Construction/ Renovation of Toilet Block at different Heritage & Tourist Sites in Central Zone (Lot-3) Lahore Sites.

Reference # CED/TFL **4377** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # RE/TOL/PTEGP/ESC 04 Dated: 20-09-2023

Tension Test Report (Page -1/2)

Date of Test 20-12-2023
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	0.372	0.11	0.109	2850	4380	57200	57650	87800	88600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Hasnain Sheikh
ES Consulting (Pvt) Ltd.
Construction/ Renovation of Toilet Block at different Heritage & Tourist Sites in Central Zone (Lot-3) Sahiwal & Kasur Sites.

Reference # CED/TFL **4377** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # RE/TOL/PTEGP/ESC 04 Dated: 20-09-2023

Tension Test Report (Page -2/2)

Date of Test 20-12-2023
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	3260	4710	65400	66490	94400	96100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Site Incharge
Thaheem Construction Company
"The Construction of Goddwon at Sitara Chemical Industries Ltd, Faisalabad."

Reference # CED/TFL **4379** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # TCC/UET/327 Dated: 19-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	3700	5220	67975	67520	95900	95300	1.50	18.8	
2	0.411	10	9.96	0.12	0.121	3790	5170	69629	69160	94982	94400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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:
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,

Project Engineer
Baig Construction Co
Construction of Jinnah Square Mall, Raiwind Road, Lahore.

Reference # CED/TFL **4382** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # ST/UET/19122023/3000 Dated: 19-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	0.383	3	0.379	0.11	0.113	3590	5170	72000	70270	103600	101200	1.00	12.5	
2	0.366	3	0.370	0.11	0.108	3540	5100	71000	72450	102200	104400	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:
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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,

R.E. – ECSP
Engineering Consultancy Services Punjab (Pvt) Ltd.
Implementation of Master Plan of Safari Zoo Lahore (Group No. 2)

Reference # CED/TFL **4383** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # ECSP/RE/IMPSZL/05 Dated: 07-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	0.362	3	0.368	0.11	0.106	3520	4840	70600	72980	97000	100400	1.10	13.8	Kamran Steel
2	0.362	3	0.368	0.11	0.106	3490	4810	70000	72390	96400	99800	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:
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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
Highway Sub Division
Raiwind
(Widening / Improvement of Manga Raiwind Road Length = 18-km (Working Length = 15.50 km) District Lahore)

Reference # CED/TFL **4384** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # 998/SDR . Dated: 30-11-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	0.374	0.11	0.110	2960	4080	59400	59240	81800	81700	1.50	18.8	
2	0.375	3	0.374	0.11	0.110	3010	4080	60400	60240	81800	81700	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.

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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,

R.E. – ECSP
Engineering Consultancy Services Punjab (Pvt) Ltd.
Implementation of Master Plan of Safari Zoo Lahore (Group No. 1)

Reference # CED/TFL **4385** (Dr. Ali Ahmed) Dated: 19-12-2023
Reference of the request letter # ECSP/RE/IMPSZL/02 Dated: 07-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	0.392	3	0.383	0.11	0.115	4250	5420	85200	81380	108600	103800	1.00	12.5	Kamran Steel
2	0.389	3	0.382	0.11	0.114	4150	5400	83200	79970	108200	104100	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:
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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
Century Venture 1
Century Venture 1, MM Alam Road, Lahore.

Reference # CED/TFL **3686** (Dr. M Ali) Dated: 20-12-2023
Reference of the request letter # CV1/ST/04 Dated: 19-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-12-2023
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	0.413	3	0.393	0.11	0.121	3940	5400	79000	71500	108200	98000	1.60	20.0	
2	0.408	3	0.391	0.11	0.120	4150	5420	83200	76340	108600	99700	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Manager
ABL - UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **4389** (Dr. Ali Ahmed) Dated: 20-12-2023
Reference of the request letter # ABL-UML-AMC-QAQC-57 Dated: 20-12-2023

Tension Test Report (Page -1/1)

Date of Test 20-121-2023
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	4.276	10	1.265	1.27	1.257	33800	54000	58700	59280	93800	94700	1.50	18.8	Batala Steel
2	4.259	10	1.263	1.27	1.252	33600	54200	58400	59160	94100	95500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#10 Bar Bend Test Through 180º is Satisfactory

Witness by Hafiz Uzair Abdul Ghani (Manager MEP)

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 Manager
China Civil Engineering Construction Corporation
Pakistan Branch Office
ICB No. DASU-RAR-01 & DASU KKH-01

Reference # CED/TFL **4391** (Dr. Ali Ahmed) Dated: 20-12-2023
Reference of the request letter # CCECC//PAK/DASUFIELD/KKH-01 & RAR-01/23-019 Dated: 15-12-2023

Tension Test Report (Page -1/3)

Date of Test 20-12-2023
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	4.227	10	1.258	1.27	1.243	36800	52800	63900	65280	91700	93700	1.60	20.0	FF Steel
2	5.148	11	1.388	1.56	1.513	48400	68200	68400	70500	96400	99400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

* Stress versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Reference # CED/TFL **4391** (Dr. Ali Ahmed) Dated: 20-12-2023
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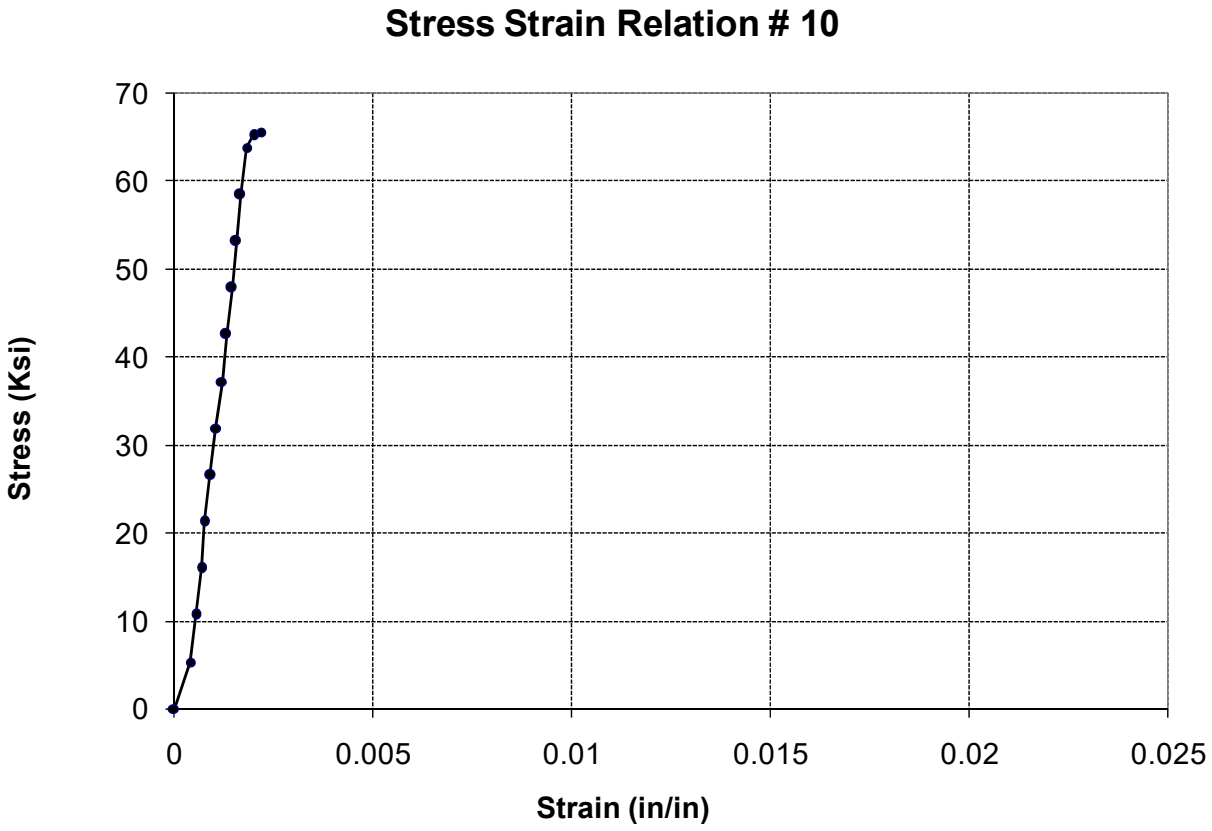
Graph (Page – 2/3)



I/C Testing Laboratoires
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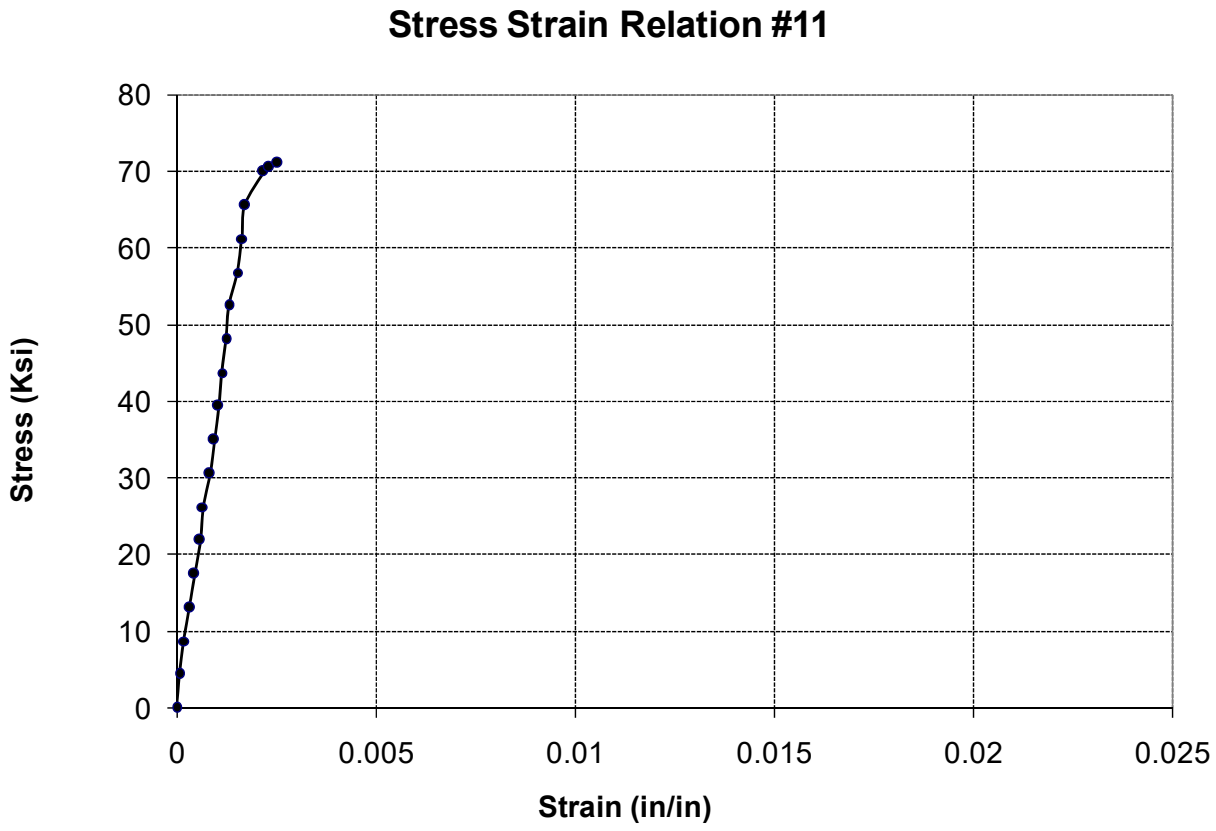
Graph (Page – 3/3)



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