



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 YAMAC Engineering and Construction
Faisalabad

Reference # CED/TFL **2809** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 17-02-2023

Dated: 17-02-2023

Tension Test Report (Page – 1/1)

Date of Test 23-02-2023

Gauge length 2 inches

Description Welded Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(MPa)	(inch)		
1	5	25.65x4.80	123.12	6200	494.01	0.40	20.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Only one sample for tensile and two samples for bend test

Bend Test

Strip taken from Welded Plate 5mm Root Bend Test Through 180° is Satisfactory

Strip taken from Welded Plate 5mm Face Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Project Manager
 AR Enterprise
 Alfatah Emal Project

Reference # CED/TFL **2822** (Dr. Usman Akmal)
 Reference of the request letter # AEM/ST/UET/14/01

Dated: 22-02-2023
 Dated: 21-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.361	3	0.368	0.11	0.106	2700	3950	54100	56040	79200	82000	1.30	16.3	Batala Steel
2	0.369	3	0.371	0.11	0.108	2650	4000	53100	53910	80200	81400	1.60	20.0	
3	4.282	10	1.266	1.27	1.259	38200	56600	66300	66890	98300	99200	1.50	18.8	
4	4.284	10	1.266	1.27	1.259	38800	57000	67400	67910	99000	99800	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														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Mr. Qaisar Abbas
 PE / PMP, PgMP
 Resident Construction Supervision of House # 91 Sector D, Phase-VI, DHA Lahore Cantt
 (Owner Mr. Shammal Qureshi)

Reference # CED/TFL **2826** (Dr. M Rizwan Riaz)
 Reference of the request letter # QA/2023/101

Dated: 22-02-2023
 Dated: 22-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.382	3	0.378	0.11	0.112	4200	5400	84200	82420	108200	106000	1.00	12.5	Model Steel
2	0.376	3	0.375	0.11	0.111	3500	4900	70200	69800	98200	97800	1.00	12.5	
3	0.381	3	0.378	0.11	0.112	4100	5400	82200	80720	108200	106400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S ENAARA
Lahore

Reference # CED/TFL **2827** (Dr. Asif Hameed)
Reference of the request letter # Nil

Dated: 22-02-2023
Dated: 22-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.359	3	0.367	0.11	0.106	2500	3900	50100	52180	78200	81400	1.20	15.0	
2	0.360	3	0.367	0.11	0.106	2600	3950	52100	54090	79200	82200	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.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,

Construction Manager
 Zameen Aurum
 Construction of Zamee. Aurum at Plot No. 15 Block L, Gulberg-III, Main Ferozepur
 Road, Lahore

Reference # CED/TFL **2828** (Dr. Asif Hameed)
 Reference of the request letter # ZD/ZA/STR041

Dated: 22-02-2023
 Dated: 22-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	4100	5300	82200	83540	106200	108000	0.80	10.0	Kamran Steel
2	0.363	3	0.369	0.11	0.107	3400	4700	68200	70140	94200	97000	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 Laboratoires
UET Lahore, Pakistan.

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To,
 Project Manager
 Zameen Development
 Construction of Zameen NEO at Plot # 13 Block H, Gulberg-III, Lahore

Reference # CED/TFL **2829** (Dr. Asif Hameed)
 Reference of the request letter # ZD/ZN/STR/02

Dated: 22-02-2023
 Dated: 21-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3100	4600	62200	63220	92200	93900	1.40	17.5	Kamran Steel
2	0.372	3	0.373	0.11	0.109	3100	4700	62200	62560	94200	94900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Pakistan. Ph: 92-42-99029202

To,

Asst Dir Infra
Defence Housing Authority
Gujranwala
"Sector G"

Reference # CED/TFL **2830** (Dr. M Rizwan Riaz)
Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2B/1403

Dated: 22-02-2023
Dated: 20-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	2800	4200	56200	56170	84200	84300	1.60	20.0	Batala Steel
2	0.371	3	0.373	0.11	0.109	2800	4250	56200	56560	85200	85900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,

Project Manager
 AHTC – AHTE (Jv)
 Civil Works, Transportation, Assembly, Erection, installation, Testing & Commissioning
 for Extension Work of 220/132 kV 160 MVA Auto-Transformer Bay at 220 kV NTDC
 Grid Station Khuzdar.

Reference # CED/TFL **2831** (Dr. Nauman Khurram)

Dated: 22-02-2023

Reference of the request letter # AHTC-AHTE(JV)/NOR-125-2022/126-29 Dated: 22-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023

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	0.414	10	10.00	0.12	0.122	3590	5050	65954	65030	92777	91500	1.20	15.0	Sheikhoo Steel
2	0.414	10	10.00	0.12	0.122	3670	5070	67424	66480	93144	91900	1.20	15.0	
3	0.414	10	9.99	0.12	0.122	3690	5050	67791	66880	92777	91600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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														

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To,
 M/S Mag Engineering
 Lahore
 (5K Commercial Plaza DHA Phase-1, Lahore)

Reference # CED/TFL **2838** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 23-02-2023
 Dated: 23-02-2023

Tension Test Report (Page -1/1)

Date of Test 23-02-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.405	3	0.389	0.11	0.119	3400	5200	68200	62910	104200	96300	1.20	15.0	
2	0.407	3	0.390	0.11	0.120	3400	5200	68200	62710	104200	95900	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 Laboratories
UET Lahore, Pakistan.

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