



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

To,
 A/XEN B&R
 AGE (Air) Risalewala
 (CA NO. CEAF-CZ-63/2019)

Reference # CED/TFL **33826** (Dr. Ali Ahmed)
 Reference of the request letter # 6400-63/2019/39/E-6

Dated: 16-09-2019
 Dated: 11-09-2019

Tension Test Report (Page – 1/2)

Date of Test 25-09-2019
 Gauge length 2 inches
 Description Angel Iron & Rail Track Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Angel Iron	24.50x6.40	156.80	6200	9400	387.90	588.10	0.60	30.00	
2	Angel Iron	24.50x6.40	156.80	6100	8900	381.64	556.82	0.60	30.00	
3	Rail Track	25.00x10.90	272.50	8400	12400	302.40	446.40	0.60	30.00	
4	Rail Track	24.70x10.90	269.23	9200	12500	335.22	455.47	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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(CA NO. CEAF-CZ-63/2019)

Reference # CED/TFL **33826** (Dr. Ali Ahmed)
Reference of the request letter # 6400-63/2019/39/E-6

Dated: 16-09-2019
Dated: 11-09-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 29-05-2019
Gauge length -----
Description Angel Iron & Rail Track Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Remark
				(kg/m)	
	-----	(g)	(cm)	(kg/m)	
1	Angel Iron	4530	92.50	4.90	
2	Rail Track	19200	91.50	20.98	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
Only Two Samples for Test					

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To,
M/S Al-Tech, Engineers & Manufacturers
Lahore

Reference # CED/TFL **33869** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 20-09-2019

Dated: 06-09-2019

Tension Test Report (Page – 1/1)

Date of Test 25-09-2019
Gauge length 2 inches
Description Rectangular Bar Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Rectangular Bar	32.00x25.40	812.80	-----	39000	-----	470.71	0.10	5.00	
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.	
.	
Only One Sample for Tensile Test										
Bend Test										

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To,
 Project Manager
 Master Tiles, Kamoke
 Gujranwala
 (Master Tiles Unit-4)

Reference # CED/TFL **33885** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 24-09-2019
 Dated: 23-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
 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	0.331	3	0.352	0.11	0.097	2700	3600	54100	61140	72200	81600	1.50	18.8	
2	0.373	3	0.374	0.11	0.110	2700	3800	54100	54210	76200	76300	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														

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To,
 Sub Divisional Officer
 R/O Drainage Sub Division
 Sheikhupura
 (The Project Channelization of Deg Nullah (Package 1))

Reference # CED/TFL **33875, 934** (Dr. Ali Ahmed)
 Reference of the request letter # 439/2-W

Dated: 23-09-2019
 Dated: 18-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3/8	0.377	0.11	0.112	3700	4900	74200	73030	98200	96800	1.00	12.5	Batala Steel
2	0.376	3/8	0.375	0.11	0.111	3700	4900	74200	73730	98200	97700	1.10	13.8	
3	4.314	10/8	1.271	1.27	1.268	37400	58000	65000	65010	100700	100900	1.40	17.5	BSM
4	4.407	10/8	1.284	1.27	1.296	37200	57400	64600	63290	99700	97700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
10/8" Dia Bar Bend Test Through 180° is Satisfactory														

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Test Floor Laboratory
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To,
 A.Senior Engineer
 University of Education Lahore
 Construction of Academic Block at University of Education Lahore (Main/ Township
 Campus)(AF Steel)
 Reference # CED/TFL **33877** (Dr. Ali Ahmed) Dated: 23-09-2019
 Reference of the request letter # UE/Engg/UE/19/380 Dated: 19-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
 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	0.378	3	0.376	0.11	0.111	3300	5100	66200	65530	102200	101300	1.00	12.5	
2	0.380	3	0.377	0.11	0.112	3600	5100	72200	71090	102200	100800	1.20	15.0	
3	4.202	10	1.254	1.27	1.235	41000	53400	71200	73160	92700	95300	1.60	20.0	
4	4.199	10	1.254	1.27	1.234	40200	53200	69800	71790	92400	95100	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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														

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To,
M/S Engineering Design Bureau
Karachi
(PTM GSM 900/1800 Expansion Project Existing Pechs Block 6 Razi Road, Karachi)

Reference # CED/TFL **33878** (Dr. Ali Ahmed) Dated: 23-09-2019
Reference of the request letter # EDB/HUAWEI(PTML)/312 Dated: 23-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.409	10	9.94	0.12	0.120	3900	5000	71650	71470	91858	91700	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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To,
 Office Secretary
 Employees Co-Operative Housing Society Ltd
 Over Head Water Tank of PCSIR ECH Society Phase-I, Lahore

Reference # CED/TFL **33879** (Dr. Ali Ahmed)
 Reference of the request letter # PECHS.I/OHWT/

Dated: 23-09-2019
 Dated: 23-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
 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	0.355	3	0.365	0.11	0.104	3100	4300	62200	65410	86200	90800	1.00	12.5	
2	0.358	3	0.366	0.11	0.105	3200	4300	64200	67010	86200	90100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (External Elec Works (U/G) IVY Green, Sector-Z, DHA Ph-VIII)(M/s NLC)

Reference # CED/TFL **33884** (Dr. Ali Ahmed) Dated: 24-09-2019
 Reference of the request letter # 408/241/E/Lab/711/1659 Dated: 23-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
 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	0.366	3	0.370	0.11	0.107	3800	5000	76200	77920	100200	102600	1.00	12.5	FF Steel
2	0.370	3	0.372	0.11	0.109	3900	5100	78200	79040	102200	103400	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														

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To,
 Resident Engineer
 Orbit Housing
 The Spring Apartment Homes

Reference # CED/TFL **33891** (Dr. Asif Hameed)
 Reference of the request letter # Nil

Dated: 25-09-2019
 Dated: 25-09-2019

Tension Test Report (Page -1/1)

Date of Test 25-09-2019
 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	3900	5000	78200	78110	100200	100200	0.90	11.3	
2	0.373	3	0.374	0.11	0.110	3900	4950	78200	78420	99200	99600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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