



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
 ACES (Pvt) Ltd
 Director Spec Project Branch - RGC
 DHA Multan
 Project Manager, National Logistic Cell (NLC)
 Ring Road - Ramanza Golf Course, DHA Multan
 Reference # CED/TFL **35896** (Dr. Qasim Khan)
 Reference of the request letter # ACE-DHAM-GDRR-249

Dated: 08-01-2021

Dated: 06-01-2021

Tension Test Report (Page -1/1)

Date of Test

11-01-2021

Description

Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight	Diameter/ Size (mm)		Area (mm ²)		Yield load	Breaking Load	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
	(kg/m)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	
1	0.156	5	5.03	19.40	19.87	1320	1440	667	652	728	711	MSM Steel
2	0.146	5	4.86	19.40	18.56	1000	1200	506	529	607	634	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one samples for bend test												
Bend Test												
5mm Dia 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
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- 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,
 CEO
 Ittefaq Building Solution (Pvt) Ltd
 ATS-02 Factory

Reference # CED/TFL **35897** (Dr. Qasim Khan)
 Reference of the request letter # IBS/ATS-02/ST-00

Dated: 08-01-2021
 Dated: 04-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
 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	0.368	3/8	0.371	0.11	0.108	3400	4900	68200	69340	98200	100000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° 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 Engineer
 Flag Square Builder
 Etihad Twon Raiwind Road, Lahore

Reference # CED/TFL **35898** (Dr. Qasim Khan)
 Reference of the request letter # FBS/01/ST

Dated: 08-01-2021
 Dated: 08-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
 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	4200	5100	84200	83420	102200	101300	1.10	13.8	
2	0.390	3	0.382	0.11	0.115	4200	5200	84200	80710	104200	100000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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,
 Resident Engineer
 NESPAK
 Construction of Flyover at Jhall Road Railway Crossing to Sahiwal

Reference # CED/TFL **35899** (Dr. Qasim Khan)
 Reference of the request letter # 4116/03/SSL/2020/81

Dated: 08-01-2021
 Dated: 07-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
 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	0.418	3	0.395	0.11	0.123	4000	5800	80200	71820	116300	104200	1.10	13.8	SGI
2	4.320	10	1.271	1.27	1.270	44000	59000	76400	76380	102400	102500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Assistant Executive Engineer-III
 CCD, PAK.PWD. Gujranwala
 Enhancement & Expansion of Building Infrastructure of NHMP Training College Sheikhupura,
 Phase-I (Sh: Academic Block)

Reference # CED/TFL **35900** (Dr. Qasim Khan) Dated: 08-01-2021
 Reference of the request letter # AEE-II/CCD/GA/Work/NHMP/P-I/Lab/20 Dated: 28-12-2020

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
 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	0.380	3	0.377	0.11	0.112	4300	5400	86200	84840	108200	106600	0.90	11.3	
2	0.379	3	0.376	0.11	0.111	4200	5500	84200	83180	110200	109000	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														

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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Pakistan. Ph: 92-42-99029202

To,
M/S CM Engineering (Pvt) Ltd
Lahore
(CMPAK Project Site ID: 43165, 42728, 42444, 42470, 42970, 43107, 43138, 43330, 43332, 43334, 43336, 43346, 43353, 43354.

Reference # CED/TFL **35901** (Dr. Qasim Khan)
Reference of the request letter # CM/Steel/CMPAK/344

Dated: 08-01-2021
Dated: 11-11-2020

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend 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	0.367	10	9.41	0.12	0.108	3300	5000	60627	67450	91858	102200	1.20	15.0	
2	0.368	10	9.43	0.12	0.108	3300	4800	60627	67180	88184	97800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Acting Chief Resident Engineer Trimmu Barrage
 Trimmu Panjnad Barrages Consultants
 For Trimmu and Panjnad Barrages Improvement Project (TPBIP)

Reference # CED/TFL **35902** (Dr. Qasim Khan)
 Reference of the request letter # TPBC/CRE/NCB-01/5025

Dated: 11-01-2021
 Dated: 08-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
 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	4.247	10	1.261	1.27	1.248	45600	59800	79200	80510	103800	105600	1.50	18.8	Mughal Steel
2	4.233	10	1.259	1.27	1.244	45600	59400	79200	80780	103100	105300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Ashiq Hussain (M.E TPBC)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
M/S Riaz Construction Co
Lahore
(Construction of TCF School DAFID Project Kasur Area)

Reference # CED/TFL **35903, 905** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 11-01-2021
Dated: 11-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Nominal (#)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.391	3	0.383	0.11	0.115	3600	5000	72200	69050	100200	95900	1.00	12.5	
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Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Best Builders
Lahore
(Construction of TCF School DAFID Project Kasur Area)

Reference # CED/TFL **35904, 906** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 11-01-2021
Dated: 11-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Nominal (#)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.399	3	0.386	0.11	0.117	3700	5400	74200	69520	108200	101500	1.10	13.8	
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Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Paidar Builders (Pvt) Ltd.
(Cons. Of TCF Schools of 37 Rooms and 12 Toilets at Distt. Kasur.)

Reference # CED/TFL **35911** (Dr. Qasim Khan)
Reference of the request letter # PBL/UET/2020-389

Dated: 11-01-2021
Dated: 11-01-2021

Tension Test Report (Page -1/1)

Date of Test 11-01-2021
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	0.387	3/8	0.380	0.11	0.114	3800	5200	76200	73680	104200	100900	1.20	15.0	
2	0.396	3/8	0.385	0.11	0.116	3800	5300	76200	72000	106200	100500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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Department of Civil Engineering
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To,
M/S Haris & Company
Lahore
(Expansion of HTLL Sahiwal Depot)

Reference # CED/TFL **35913** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 11-01-2021
Dated: 11-01-2021

Tension Test Report (Page – 1/1)

Date of Test 18-01-2021
Gauge length 2 inches
Description Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	6	19.60x6.1	119.56	3300	5000	270.77	410.25	0.70	35.00	
2		19.60x6.1	119.56	3500	5300	287.18	434.87	0.70	35.00	
3	8	19.50x8.0	156.00	5000	7500	314.42	471.63	0.70	35.00	
4		19.50x8.0	156.00	5200	7700	327.00	484.21	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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