



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

To,
 Engineer Representative
 Osmani & Company (Pvt) Ltd.
 Construction of Greenfield Aerodrome for General Aviation Activities at Muridke

Reference # CED/TFL **2937** (Dr. M Kashif) Dated: 14-03-2023
 Reference of the request letter # OCL/CAA/MAD-ER/01-2K23/19 Dated: 11-01-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
 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	0.360	10	9.32	0.12	0.106	2800	4600	51441	58400	84510	96000	1.30	16.3	Islamabad Supreme Steel
2	0.358	10	9.30	0.12	0.105	2800	4600	51441	58670	84510	96400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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
 Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore
 (Mughal Steel)

Reference # CED/TFL **2939** (Dr. M Kashif)
 Reference of the request letter# 4537/03/MSA/09/20

Dated: 14-03-2023
 Dated: 11-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	4200	5100	84200	84120	102200	102200	0.80	10.0	D-8070
2	0.392	3	0.383	0.11	0.115	4800	5700	96200	91830	114300	109100	0.80	10.0	
3	4.173	10	1.250	1.27	1.227	39400	51600	68400	70800	89600	92800	1.50	18.8	A-388
4	4.170	10	1.249	1.27	1.226	41000	53200	71200	73730	92400	95700	1.50	18.8	D-7937
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and three samples for bend test

Bend Test

#3 Bar Bend Test Through 180° is Satisfactory
 #10 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
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Department of Civil Engineering
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To,
 Director
 Kadventure Construction (Pvt) Ltd.
 CBD, Kalam Chowk, Lahore

Reference # CED/TFL **2940** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 14-03-2023
 Dated: 14-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
 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	0.379	3/8	0.377	0.11	0.112	3100	4800	62200	61260	96200	94900	1.40	17.5	Falcon Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,

Resident Engineer
 NESPAK
 Construction of Underpass at Ghulab Davi Hospital and Additional Lanes on Lahore Bridge.

Reference # CED/TFL **2943** (Dr. M Kashif)
 Reference of the request letter # 3772/103/GD/RE/05/394

Dated: 14-03-2023
 Dated: 10-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
 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	0.397	3	0.385	0.11	0.117	3200	4800	64200	60510	96200	90800	1.50	18.8	Islamabad Premium Steel
2	0.398	3	0.386	0.11	0.117	3200	4900	64200	60290	98200	92400	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,

Executive Officer (Works)
 Punjab Safe Cities Authority
 Lahore
 (REDO/Restoration of Damages along Multan Road, Lahore)

Reference # CED/TFL **2948** (Dr. M Kashif)
 Reference of the request letter # 3418/Works/PSCA/2023

Dated: 15-03-2023
 Dated: 13-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
 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	0.376	3	0.375	0.11	0.111	3200	4700	64200	63830	94200	93800	1.40	17.5	
2	0.376	3	0.375	0.11	0.111	3200	4800	64200	63810	96200	95800	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 Laboratoires
UET Lahore, Pakistan.

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

To,

S.E (Civil), SWP
PAEC, WASO, D.G. Khan

Reference # CED/TFL **2949** (Dr. M Kashif)
Reference of the request letter # SWP/W(2487)/21

Dated: 15-03-2023

Dated: 13-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
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	0.364	3	0.369	0.11	0.107	4000	4800	80200	82480	96200	99000	1.10	13.8	
2	0.364	3	0.369	0.11	0.107	3800	4700	76200	78340	94200	96900	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 Laboratories
UET Lahore, Pakistan.

Note:

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

To,

Construction Manager
 Zameen Developments
 Construction of Zameen Phoenix at Plot # 133, Shadman Colony II, Lahore.

Reference # CED/TFL **2954** (Dr. M Kashif)

Dated: 15-03-2023

Reference of the request letter # ZD/ZP/STR001

Dated: 15-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023

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	0.380	3	0.377	0.11	0.112	4600	5700	92200	90840	114300	112600	0.90	11.3	Pak Steel
2	0.370	3	0.372	0.11	0.109	3400	4500	68200	69000	90200	91400	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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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 Asia Poultry Feeds (Pvt) Ltd.

Reference # CED/TFL 2957 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 16-03-2023
Dated: 16-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
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	0.372	3/8	0.373	0.11	0.109	3300	4700	66200	66490	94200	94700	1.70	21.3	
2	0.374	3/8	0.374	0.11	0.110	3300	4700	66200	66090	94200	94200	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

M/S Ijaz Construction Company
Multan
(Naubahar Bottling Company (Pvt) Ltd. Shadoki Unit III)

Reference # CED/TFL **2958** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 16-03-2023
Dated: 16-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
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	4700	60627	67490	86347	96200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and two samples 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,
M/S Riz Builders
Lahore
(Din Plaza, Johar Town, Lahore)

Reference # CED/TFL **2960** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 16-03-2023
Dated: 16-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
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	0.386	3	0.380	0.11	0.113	3800	5300	76200	73870	106200	103100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Test Floor Laboratory
Department of Civil Engineering
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To,

Senior Project Manager
 Shifa Development Services Pvt Ltd
 Under Construction Site of Shifa National Hospital
 Opposite Al-Qadir Garden, Lahore Sheikhpura Road, Faisalabad

Reference # CED/TFL **2963** (Dr. M Kashif)
 Reference of the request letter # SNHF/SDS/ST/15

Dated: 16-03-2023
 Dated: 15-03-2023

Tension Test Report (Page -1/1)

Date of Test 17-03-2023
 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	0.370	3/8	0.372	0.11	0.109	3700	5100	74200	74910	102200	103300	0.80	10.0	Pak Iron
2	0.375	3/8	0.374	0.11	0.110	3700	5100	74200	74080	102200	102100	0.90	11.3	
3	0.372	3/8	0.373	0.11	0.109	3600	4900	72200	72550	98200	98800	0.90	11.3	
4	0.371	3/8	0.373	0.11	0.109	3500	4800	70200	70670	96200	97000	1.10	13.8	
5	0.372	3/8	0.373	0.11	0.109	3900	5200	78200	78700	104200	105000	1.00	12.5	
6	0.376	3/8	0.375	0.11	0.111	3700	4900	74200	73690	98200	97600	0.80	10.0	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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