



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

To,  
 Sub Engineer  
 Saleem & Company,  
 Power House, Pride Mill, Faisalabad Road, Johal

Reference # CED/TFL **35600** (Dr. Waseem Abbass)  
 Reference of the request letter # Nil

Dated: 09-11-2020  
 Dated: 09-11-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
 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 <sup>2</sup> )		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	4600	68200	69300	92200	93800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" 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  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
 Project Manager  
 MA Engineering Services  
 Construction of Commercial Plaza at Al Rehman Garden Lahore

Reference # CED/TFL **35603** (Dr. Waseem Abbass)  
 Reference of the request letter # MA/UET/008

Dated: 09-11-2020  
 Dated: 09-11-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
 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 <sup>2</sup> )		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	0.377	3	0.376	0.11	0.111	3300	4800	66200	65570	96200	95400	1.30	16.3	AF Steel
2	0.382	3	0.378	0.11	0.112	3300	4900	66200	64700	98200	96100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Deputy Municipal Officer (I&S)  
 Municipal Committee,  
 Vehari  
 (Rehabilitation of Municipal Services Infrastructure in Vehari City (Group –A, Reahbilitation Work)  
 Reference # CED/TFL **35604** (Dr. Waseem Abbass) Dated: 09-11-2020  
 Reference of the request letter # 80/DMO(I)/MC(VR) Dated: 31-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
 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 <sup>2</sup> )		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	0.342	3/8	0.358	0.11	0.100	2500	3600	50100	54860	72200	79000	1.50	18.8	
2	0.343	3/8	0.359	0.11	0.101	2400	3600	48100	52410	72200	78700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
M/S Al-Mumtaz Engineers & Contractor  
Lahore

Reference # CED/TFL **35605** (Dr. Waseem Abbass)  
Reference of the request letter # Nil

Dated: 09-11-2020  
Dated: 09-11-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
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 <sup>2</sup> )		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	9.5	9.43	0.110	0.108	3600	4900	72200	73340	98200	99900	1.00	12.5	
2	0.369	9.5	9.44	0.110	0.108	3600	4800	72200	73170	96200	97600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
9.5mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
The Resident Engineer (ER) – OCL  
Osmani & Company (Pvt) Ltd  
Re-Const of Rigid Runway,  
FIAP, Faisalabad

Reference # CED/TFL **35592** (Dr. Waseem Abbass)

Dated: 04-11-2020

Reference of the request letter # OCL/C-126/CAA-FIAP/2020/0211/186

Dated: 02-11-2020

**Tension Test Report** (Page -1/2)

Date of Test 10-11-2020

Gauge length 8 inches

Description Plain Steel Bar Tensile and Bend Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	50	36.00	1017.876	32400	49200	312.26	474.18	2.50	31.25	
2	50	35.90	1012.229	31800	48600	308.19	471.01	2.30	28.75	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>										
-	-	-	-	-	-	-	-	-	-	
<b>Bend Test</b>										
50mm 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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
The Resident Engineer (ER) – OCL  
Osmani & Company (Pvt) Ltd  
Re-Const of Rigid Runway,  
FIAP, Faisalabad

Reference # CED/TFL **35592** (Dr. Waseem Abbass)

Dated: 04-11-2020

Reference of the request letter # OCL/C-126/CAA-FIAP/2020/0211/186

Dated: 02-11-2020

**Test Report**(Page -2/2)

Date of Test 10-11-2020

Description Plain Steel Bar Weight & Size Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (mm <sup>2</sup> )		Remarks
		Nominal	Actual	Nominal	Actual	
1	16.580	50	51.86	-----	2112.1	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
<b>Note: only one sample for test</b>						

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**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  
 Dupak Properaties (Pvt) Ltd  
 Defence view Apartments at Shanghai Road, Lahore

Reference # CED/TFL **35606** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Dupak/DVA/054

Dated: 10-11-2020  
 Dated: 10-11-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		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	0.360	3	0.367	0.11	0.106	3800	4900	76200	79090	98200	102000	1.20	15.0	
2	0.358	3	0.366	0.11	0.105	3600	4800	72200	75300	96200	100400	1.10	13.8	
3	0.368	3	0.371	0.11	0.108	3600	4700	72200	73290	94200	95700	1.00	12.5	
4	0.367	3	0.371	0.11	0.108	3800	4900	76200	77600	98200	100100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
 Acting Project Director,  
 Air University Multan Campus  
 Multan

Reference # CED/TFL **35607** (Dr. M Rizwan Riaz) Dated: 10-11-2020  
 Reference of the request letter # MUX/AUMC/UGWT/2020/01 Dated: 09-11-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
 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 <sup>2</sup> )		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	0.360	3	0.367	0.11	0.106	2800	4000	56200	58380	80200	83400	1.70	21.3	Ittefaq Steel
2	0.357	3	0.365	0.11	0.105	2800	3900	56200	58890	78200	82100	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 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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**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 Orbit Housing  
 The Springs, Apartment, Lahore

Reference # CED/TFL **35609** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 10-11-2020  
 Dated: 10-11-2020

**Tension Test Report** (Page -1/1)

Date of Test 10-11-2020  
 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 <sup>2</sup> )		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	3100	4500	62200	61100	90200	88700	1.40	17.5	
2	0.395	3	0.384	0.11	0.116	3000	4400	60200	57000	88200	83600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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