



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 Defence Housing Authority.
Lahore Cantt
(Const. of OHWT & Tube Well X-Block Ph-III)(M/s N.A. Associates)

Reference # CED/TFL **32397** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/401/629

Dated: 09-01-2019
Dated: 09-01-2019

Tension Test Report (Page -1/1)

Date of Test 10-01-2019
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	0.376	3	0.375	0.11	0.110	3400	5400	68200	67870	108200	107800	1.10	13.8	Ittefaq Steel
2	0.382	3	0.378	0.11	0.112	3450	5400	69200	67650	108200	105900	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.

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



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To,
 Executive Director
 Emerging Health International
 Construction of Noor Care Hospital, Rajanpur

Reference # CED/TFL **32389** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 09-01-2019
 Dated: 07-01-2019

Tension Test Report (Page -1/1)

Date of Test 10-01-2019
 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	0.434	3/8	0.403	0.11	0.128	4800	5950	96200	82890	119300	102800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Garrison Engineer (A) Const
 Lahore Cantt
 (Oncology Department)(Karachi Steel)

Reference # CED/TFL **32399** (Dr. Usman Akmal)
 Reference of the request letter # 6000/XY/E6

Dated: 09-01-2019
 Dated: 07-01-2019

Tension Test Report (Page -1/1)

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 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	0.371	3	0.373	0.11	0.109	2900	4500	58200	58560	90200	90900	1.30	16.3	
2	0.369	3	0.372	0.11	0.109	2850	4500	57200	57870	90200	91400	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
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To,
 Resident Engineer, Cardiology
 AZ Engineering Associates, Multan Residency, Multan
 Construction of New OPD & Inpatient Block CPE Institute of Cardiology Multan (Group No. 1)

Reference # CED/TFL **32400** (Dr. Usman Akmal)
 Reference of the request letter # RE/AZEA/Multan/414

Dated: 09-01-2019
 Dated: 07-01-2019

Tension Test Report (Page -1/1)

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 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	0.376	0.11	0.111	3200	4900	64200	63370	98200	97100	1.20	15.0	
2	0.401	3/8	0.387	0.11	0.118	3600	5400	72200	67350	108200	101100	0.80	10.0	
3	0.376	3/8	0.375	0.11	0.111	3400	5200	68200	67740	104200	103700	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only three 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

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To,
 Resident Engineer
 Mascon Associates (Pvt) Ltd
 Musfir Khana (Badami Bagh Fruit & Veg. Market)

Reference # CED/TFL **32402** (Dr. Usman Akmal)
 Reference of the request letter # MASC-RE/PG/18/5038

Dated: 09-01-2019
 Dated: 09-01-2019

Tension Test Report (Page -1/1)

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		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.363	3	0.368	0.11	0.107	4100	5100	82200	84780	102200	105500	0.80	10.0	
2	0.367	3	0.370	0.11	0.108	4400	5300	88200	90020	106200	108500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
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