



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

To,
 Estate Engineer
 Sundar Industrial Estate
 Construction of New Canteen at Sundar Industrial Estate Rescue Building

Reference # CED/TFL **36088** (Dr. Ali Ahmed)
 Reference of the request letter # BOM/SIE/BCD 6227

Dated: 16-02-2021
 Dated: 15-02-2021

Tension Test Report (Page -1/1)

Date of Test 17-02-2021
 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	0.380	3	0.377	0.11	0.112	3600	5400	72200	71120	108200	106700	1.10	13.8	
2	0.374	3	0.374	0.11	0.110	3500	5300	70200	70150	106200	106300	1.20	15.0	
3	0.379	3	0.376	0.11	0.111	3600	5400	72200	71310	108200	107000	1.10	13.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 ACE, Danish School
 Mankera Residency
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **36091** (Dr. Ali Ahmed)

Dated: 16-02-2021

Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/377

Dated: 06-02-2021

Tension Test Report (Page -1/1)

Date of Test 17-02-2021

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	0.383	3/8	0.378	0.11	0.112	4000	5000	80200	78400	100200	98000	0.90	11.3	
2	0.385	3/8	0.380	0.11	0.113	4100	5200	82200	79800	104200	101300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36093** (Dr. Ali Ahmed)
Reference of the request letter # IHPL/Steel/058

Dated: 16-02-2021
Dated: 15-02-2021

Tension Test Report (Page -1/1)

Date of Test 17-02-2021
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	0.373	3	0.374	0.11	0.110	3000	4700	60200	60300	94200	94500	1.20	15.0	PCS Steel
2	0.369	3	0.372	0.11	0.108	3200	4800	64200	65030	96200	97600	1.20	15.0	
3	0.369	3	0.371	0.11	0.108	3100	4800	62200	63040	96200	97700	1.20	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const of Security Accn, Sector-S, DHA Ph-II - (M/s Hashmi Brothers)

Reference # CED/TFL **36094** (Dr. Waseem Abbass)
Reference of the request letter # 408/241/E/Lab/32/02

Dated: 16-02-2021
Dated: 16-02-2021

Tension Test Report (Page -1/1)

Date of Test 17-02-2021
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	0.361	3	0.368	0.11	0.106	2900	3700	58200	60190	74200	76800	1.60	20.0	Model Steel
2	0.375	3	0.375	0.11	0.110	2900	3500	58200	58030	70200	70100	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														

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To,
M/S Rana Construction Company
Peshawar
(Sofitech (Pvt) Ltd 131-1A Block M Quaid-e-Azam i.E. Lahore)

Reference # CED/TFL **36095** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 16-02-2021
Dated: 16-02-2021

Tension Test Report (Page -1/1)

Date of Test 17-02-2021
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	0.416	3/8	0.395	0.11	0.122	3800	5800	76200	68500	116300	104600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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