



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

To,
 Material Engineer
 Defence Housing Authority, Multan
 (Manufacturing of R.C.C Pipes (M/s Saad Brothers R.C.C. Pipe Factory))

Reference # CED/TFL **37164** (Dr. M Rizwan Riaz)
 Reference of the request letter # 701/92/P&D/DHA

Dated: 07-10-2021
 Dated: 30-09-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.162	4	5.13	12.90	20.64	1000	1200	760	475	913	570	Ali Steel
2	0.161	4	5.11	12.90	20.51	1120	1280	852	536	973	612	
3	0.316	5	7.16	19.40	40.27	1280	1800	647	312	910	439	
4	0.319	5	7.19	19.40	40.65	1280	1840	647	309	930	444	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test												
Bend Test												
4mm Dia Bar Bend Test Through 180° is Satisfactory												
5mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Material Engineer
 Defence Housing Authority, Multan
 (Manufacturing of R.C.C Pipes (M/s Saad Brothers R.C.C. Pipe Factory))

Reference # CED/TFL **37165** (Dr. M Rizwan Riaz)
 Reference of the request letter # 701/92/P&D/DHA

Dated: 07-10-2021
 Dated: 30-09-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021
 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	0.384	10	9.63	0.12	0.113	3700	5100	67975	72310	93696	99700	1.10	13.8	SJ Steel
2	0.380	10	9.58	0.12	0.112	3400	4700	62464	67060	86347	92700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Coordinator/ Secretary
 Lahore Diocesan Board of Education
 St. Denys' High School, Murree Phase III.

Reference # CED/TFL **37166** (Dr. M Rizwan Riaz)
 Reference of the request letter # COORD/124/84/BLDG

Dated: 07-10-2021
 Dated: 06-09-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021
 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	0.407	3/8	0.390	0.11	0.120	3500	5500	70200	64530	110200	101400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Baig Construction Co.
Lahore
(Jinnah Square Mall, Khayabane Jinnah Road Lahore)

Reference # CED/TFL **37170** (Dr. M Rizwan Riaz)
Reference of the request letter # 07102021BCC

Dated: 07-10-2021
Dated: 07-10-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021
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	0.394	3	0.384	0.11	0.116	4900	6100	98200	93350	122300	116300	1.00	12.5	
2	0.392	3	0.383	0.11	0.115	5000	6100	100200	95540	122300	116600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 Project Manager
 CCECC-MATRACON-HABIB Joint Venture
 Re-Construction & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
 Airport (AIIAP), Lahore
 (Batala Steel)

Reference # CED/TFL **37171** (Dr. M Rizwan Riaz)

Dated: 07-10-2021

Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/694

Dated: 07-10-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021

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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.421	10	10.09	0.12	0.124	4000	5000	73487	71180	91858	89000	1.30	16.3	750
2	0.429	10	10.18	0.12	0.126	4000	5500	73487	69850	101044	96100	1.00	12.5	751
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,
 Sub Divisional Officer
 Buildings Sub Division No. 2
 Multan
 “Establishment of 200 Bedded Mother & Child Hospital at Ghalla Dodam Multan”

Reference # CED/TFL **37176** (Dr. M Rizwan Riaz)
 Reference of the request letter # 266/2nd ;

Dated: 08-10-2021
 Dated: 07-09-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021
 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	0.360	3/8	0.367	0.11	0.106	3400	5300	68200	70850	106200	110500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Mughal Steel) Kraftcon)

Reference # CED/TFL 37180 (Dr. Asad Ali)
Reference of the request letter # Nil

Dated: 08-10-2021
Dated: 05-10-2021

Tension Test Report (Page -1/1)

Date of Test 08-10-2021
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	0.416	10	10.02	0.12	0.122	4280	5520	78631	77140	101412	99500	1.20	15.0	
2	0.417	10	10.04	0.12	0.123	4400	5520	80835	79050	101412	99200	1.10	13.8	
3	0.419	10	10.05	0.12	0.123	4590	5710	84326	82210	104902	102300	1.10	13.8	
4	0.416	10	10.02	0.12	0.122	4380	5610	80468	79040	103065	101300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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