STRUCTURAL ENGINEERING DIVISION

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

To,
Sub Divisional Officer
Buildings Sub Division
Kasur

1. Construction of 2-Nos Additional Class Rooms at Govt. Boys Higher Secondary School Bamba Kalan Tehsil KRK District Kasur.
2. Construction of 2-Nos Additional Class Rooms at Govt. Boys Primary School Total Tehsil Pattoki District Kasur.
3. Strengthing of Special Education Institutions Punjab (Phase-II) Govt. School for Hearing Impaired Kasur.

Reference # CED/TFL **37481** (Dr. Usman Akmal) Dated: 07-12-2021
Reference of the request letter # 447/K Dated: 20-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3/8	0.376	0.11	0.111	2800	4400	56200	55500	88200	87300	1.70	21.3	
2	0.375	3/8	0.374	0.11	0.110	3000	4500	60200	60050	90200	90100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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,
Sub Divisional Officer
Buildings Sub Division
Pattoki
Construction of 2-Nos Additional Class Rooms at Govt. Primary School Bungha Sardar Kahan Tehsil Pattoki District Kasur (EMIS Code 35130128)

Reference # CED/TFL **37482** (Dr. Usman Akmal) Dated: 07-12-2021
Reference of the request letter # 680/P Dated: 18-09-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3/8	0.375	0.11	0.111	3100	4600	62200	61800	92200	91700	1.50	18.8	
2	0.373	3/8	0.374	0.11	0.110	2900	4400	58200	58290	88200	88500	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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.
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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,
Sub Divisional Officer
Lahore Canal Sub Division
Lahore
(Construction of Irrigation Engineering Academy Lahore)

Reference # CED/TFL **37483** (Dr. Usman Akmal) Dated: 07-12-2021
Reference of the request letter # 841/78w Dated: 20-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.383	3	0.378	0.11	0.112	3300	4700	66200	64680	94200	92200	1.40	17.5	Kamran Steel
2	0.386	3	0.380	0.11	0.113	3200	4700	64200	62210	94200	91400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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.
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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 Main Brothers Precast (Pvt) Ltd
Shahkot

Reference # CED/TFL **37485** (Dr. Usman Akmal) Dated: 07-12-2021
Reference of the request letter # MBP/UET/21/0826 Dated: 07-12-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description MS Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	0.150	5	4.93	-------	19.1	-------	1160	-------	596	0.40	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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

STRUCTURAL ENGINEERING DIVISION

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

To,
Assistant Project Director
PMU-SBP
Completion of International Tennis Arena Lahore (GS # 552)

Reference # CED/TFL **37489** (Dr. Usman Akmal) Dated: 08-12-2021
Reference of the request letter # APD/PMU/SBP/LHR/21/186 Dated: 07-12-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3/8	0.377	0.11	0.112	3800	4900	76200	74900	98200	96600	1.20	15.0	
2	0.382	3/8	0.378	0.11	0.112	3900	5000	78200	76650	100200	98300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,
Sub Divisional Officer
Highway Sub Division
Sialkot
(Construction of flyover at Shahabpura Chowk Defence Road on Sialkot Wazirabad Road)

Reference # CED/TFL **37490** (Dr. Usman Akmal) Dated: 08-12-2021
Reference of the request letter # 1093/S Dated: 15-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3	0.375	0.11	0.110	3900	5100	78200	77980	102200	102000	1.10	13.8	
2	0.376	3	0.375	0.11	0.110	3800	4900	76200	75860	98200	97900	1.00	12.5	
3	0.375	3	0.374	0.11	0.110	3900	5000	78200	78050	100200	100100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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.
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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,
Sub Divisional Officer
Buildings Sub Division no. 8
Lahore

Upgradation of Government Elementary School Custom Academy Lahore to High Level (Construction of 3-Nos Class Room with Stair Hall and Mumty)
Upgradation of Government Primary School Luck Line to Middle Level, Lahore (Construction of 4-Nos Class and Toilet Block)

Reference # CED/TFL **37492** (Dr. Usman Akmal) Dated: 08-12-2021
Reference of the request letter # 221-22/8th Dated: 11-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3/8	0.372	0.11	0.109	2900	4300	58200	58670	86200	87000	1.60	20.0	
2	0.373	3/8	0.373	0.11	0.110	3000	4400	60200	60370	88200	88600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,
Manager Monitoring & Coordination
Shajar Roads Limited
Dualization of Sheikhupura - Gujranwala Road

Reference # CED/TFL **37493** (Dr. Usman Akmal) Dated: 08-12-2021
Reference of the request letter # MMC/SRL/SGRP/164 Dated: 06-12-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.399	10	9.81	0.12	0.117	3600	5300	66138	67690	97370	99700	1.10	13.8	
2	0.399	10	9.82	0.12	0.117	3600	5300	66138	67580	97370	99500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º 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.
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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,
Sub Divisional Officer
Buildings Sub Division
Assembly, Lahore
(Reconstruction of Pipal House A-Block, Lahore)

Reference # CED/TFL **37495** (Dr. Usman Akmal) Dated: 08-12-2021
Reference of the request letter # 901 Dated: 06-12-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3/8	0.374	0.11	0.110	3300	4800	66200	66090	96200	96200	1.60	20.0	
2	0.374	3/8	0.374	0.11	0.110	3200	4800	64200	64150	96200	96300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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 Defence Housing Authority.
Lahore Cantt
(Const of 18 Green Apartment Complex DRGCC DHA Phase-VI) – (M/s Construct)

Reference # CED/TFL **37499** (Dr. Rashid Hameed) Dated: 09-12-2021
Reference of the request letter # 408/241/E/Lab/176/46 Dated: 09-12-2021

Tension Test Report (Page -1/1)

Date of Test 09-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.323	3	0.348	0.11	0.095	3300	4700	66200	76680	94200	109300	1.40	17.5	Kamran Steel
2	0.322	3	0.347	0.11	0.095	3300	4700	66200	76800	94200	109400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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