



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

To,
 Executive Engineer
 Highway Mechanical Division
 Lahore
 (Rehabilitation of Metalled Road (Length 2.7 kms) from Arfa Kareem IT Tower Ferozepur Road to Kashmir Chowk Peco Road Lahore (Phase-I)(Length: 1.20 kms))

Reference # CED/TFL **34892** (Dr. M Rizwan Riaz)
 Reference of the request letter # 1471/CB

Dated: 12-05-2020
 Dated: 04-05-2020

Tension Test Report (Page -1/1)

Date of Test 14-05-2020
 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 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	0.410	3/8	0.392	0.11	0.120	4000	5200	80200	73220	104200	95200	0.90	11.3	
2	0.410	3/8	0.392	0.11	0.121	4100	5300	82200	74970	106200	97000	0.90	11.3	
3	4.205	10/8	1.255	1.27	1.236	42000	51600	72900	74890	89600	92100	1.30	16.3	
4	4.209	10/8	1.255	1.27	1.237	41800	51600	72600	74460	89600	92000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
10/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 ADH (Works)-IV
 Lahore
 Army Offrs Housing Complex
 Sector 'F' Askari – X Lahore
 (M/S Xenon Ventures CA DH – 49/20 Sec-F Ask-X Lhr)

Reference # CED/TFL **34893** (Dr. M Rizwan Riaz) Dated: 12-05-2020
 Reference of the request letter # 616/Proj/UET/Steel/Sample/ADH-IV Dated: 12-05-2020

Tension Test Report (Page -1/1)

Date of Test 14-05-2020
 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	0.360	3	0.367	0.11	0.106	2700	4100	54100	56320	82200	85600	1.40	17.5	
2	0.365	3	0.369	0.11	0.107	2800	4200	56200	57570	84200	86400	1.40	17.5	
3	0.391	3	0.383	0.11	0.115	3100	4500	62200	59450	90200	86300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Construction Manager
 CM Engineering (Pvt) Ltd
 CMPAK Project Site ID: 42996, 42757, 40914, 43095, 43094, 43060, 42948, 43008, 43040,
 42844

Reference # CED/TFL **34894** (Dr. M Rizwan Riaz)
 Reference of the request letter # CME/Steel/CMPAK/330

Dated: 12-05-2020
 Dated: 04-05-2020

Tension Test Report (Page -1/2)

Date of Test 14-05-2020
 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 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	0.377	10	9.53	0.12	0.111	3200	4900	58789	63730	90021	97600	1.20	15.0	
2	0.382	10	9.60	0.12	0.112	3200	4900	58789	62820	90021	96200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Construction Manager
 CM Engineering (Pvt) Ltd
 CMPAK Project Site ID: 52563, 52617, 52641, 52643, 52649, 52663, 51171, 52039, 52616,
 52624

Reference # CED/TFL **34894** (Dr. M Rizwan Riaz)
 Reference of the request letter # CME/Steel/CMPAK/331

Dated: 12-05-2020
 Dated: 01-05-2020

Tension Test Report (Page -2/2)

Date of Test 14-05-2020
 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 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	0.381	10	9.60	0.12	0.112	3300	4900	60627	64890	90021	96400	1.40	17.5	
2	0.381	10	9.59	0.12	0.112	3200	4900	58789	62940	90021	96400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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Test Floor Laboratory
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To,
 Director Projects
 Innovative Construction Company
 Construction of Imtiaz Super Market, Gujrat

Reference # CED/TFL **34895** (Dr. M Rizwan Riaz)
 Reference of the request letter # ICL/ISM/GJT/05/01

Dated: 12-05-2020
 Dated: 12-05-2020

Tension Test Report (Page -1/1)

Date of Test 14-05-2020
 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 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	0.369	3/8	0.372	0.11	0.108	3800	5000	76200	77260	100200	101700	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														

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To,
M. Ahsan T.O.C's
Construction Manager

Reference # CED/TFL **34896** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 12-05-2020
Dated: 12-05-2020

Tension Test Report (Page -1/1)

Date of Test 14-05-2020
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 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	0.411	10	9.96	0.12	0.121	4600	5400	84510	83920	99207	98600	0.90	11.3	
2	0.404	10	9.88	0.12	0.119	4200	5100	77161	77970	93696	94700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,
 Sub Divisional Officer
 Buildings Sub Division No. 12
 Lahore
 Construction of Hostels for Students alongwith Inter Connecting Bridge of Fatima Jinah Medical
 University Lahore
 Reference # CED/TFL **34897** (Dr. M Rizwan Riaz) Dated: 13-05-2020
 Reference of the request letter # 206/SDO12th Dated: 21-03-2020

Tension Test Report (Page -1/1)

Date of Test 14-05-2020
 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 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	0.365	3/8	0.370	0.11	0.107	3200	4500	64200	65660	90200	92400	1.40	17.5	
2	0.346	3/8	0.360	0.11	0.102	3200	4300	64200	69400	86200	93300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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