



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

To,
Project Manager
U.C.C. (Pvt) Ltd.
Warehouse WFP Project

Reference # CED/TFL **36510** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 04-06-2021
Dated: 04-06-2021

Tension Test Report (Page – 1/2)

Date of Test 08-06-2021
Gauge length 2 inches
Description Steel Plate Steel Strip Tensile and Bend Test as per ASTM A-36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	12	25.90x11.80	305.62	9100	14400	292.10	462.22	0.70	35.00	
2		23.90x11.80	282.02	7500	13500	260.89	469.59	0.70	35.00	
3		25.50x11.80	300.90	7800	13900	254.30	453.17	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Steel Plate (12mm) Bend Test Through 180° is Satisfactory										

I/C Testing Laboratories
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
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- 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,
Project Manager
U.C.C. (Pvt) Ltd.
Warehouse WFP Project

Reference # CED/TFL **36510** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 04-06-2021
Dated: 04-06-2021

Weight & Size Test Report (Page – 2/2)

Date of Test 08-06-2021
Description Steel Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(mm)	(mm)	(kg/m ²)	(mm)	
1	12	696	153.00	50.90	89.37	11.80	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

I/C Testing Laboratories
UET Lahore, Pakistan.

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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 Beacon Impex
34 – km Sheikhpura Road, Faisalabad
(Construction of Multi Story Building for Cutting & Kntting at Beacon Impex.
(M/s M. Saleem Construction Company)

Reference # CED/TFL **36516** (Dr. Waseem Abbass)
Reference of the request letter # B.I/CIVIL/21-115

Dated: 07-06-2021
Dated: 02-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
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	0.379	3	0.377	0.11	0.111	3100	5000	62200	61320	100200	98900	1.20	15.0	Batala Premium
2	0.381	3	0.378	0.11	0.112	3400	5200	68200	66830	104200	102300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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,
 Sr. Manager (Civil)
 Lucky Cement Limited, Pezu
 8000 TPD Line-2 at Lucky Cement Limited, PEZU

Reference # CED/TFL **36518** (Dr. Waseem Abbass)
 Reference of the request letter # LCL/Civil/Line-2/2021/6/512

Dated: 07-06-2021
 Dated: 04-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	0.369	10	9.44	0.12	0.109	3300	4900	60627	67030	90021	99600	1.40	17.5	
2	0.370	10	9.45	0.12	0.109	3200	4900	58789	64930	90021	99500	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.

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,
 Sr. QS
 Thaheem Construction Company
 Jaded Hatcery Ext: Khanewal

Reference # CED/TFL **36519** (Dr. Waseem Abbass)
 Reference of the request letter # TCC/UET/315

Dated: 07-06-2021
 Dated: 04-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	0.361	3/8	0.367	0.11	0.106	2800	4500	56200	58190	90200	93600	1.30	16.3	
2	0.361	3/8	0.368	0.11	0.106	2800	4500	56200	58100	90200	93400	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
 Prop.
 AB Contractor
 MCB Branch at Gakhar Mandi Gujranwala

Reference # CED/TFL **36520** (Dr. Waseem Abbass)
 Reference of the request letter # ABC/2021/05-04

Dated: 07-06-2021
 Dated: 31-05-2021

Tension Test Report (Page -1/1)

Date of Test 07-06-2021
 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	0.413	3/8	0.393	0.11	0.121	3600	5000	72200	65330	100200	90800	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 Laboratories
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 Construction Projects
 Allied Bank
 Construction of ABL Building, 3-Babar Block, New Garden Town, Lahore

Reference # CED/TFL **36521** (Dr. Waseem Abbass) Dated: 07-06-2021
 Reference of the request letter # HOL/ENGG.C.P./SM/2021/24 Dated: 07-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	3500	4300	70200	70300	86200	86400	1.30	16.3	Amreli Steel
2	0.376	3	0.375	0.11	0.110	3400	4300	68200	67880	86200	85900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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 Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36522** (Dr. Waseem Abbass)
Reference of the request letter # IHPL/Steel/079

Dated: 07-06-2021

Dated: 03-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
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	0.378	3	0.376	0.11	0.111	3800	5200	76200	75360	104200	103200	0.90	11.3	PCS Steel
2	0.384	3	0.379	0.11	0.113	4100	5500	82200	79990	110200	107400	0.90	11.3	
3	0.370	3	0.372	0.11	0.109	3200	4900	64200	64920	98200	99500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° 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,
 Executive Engineer
 Highway Division, Gujrat
 Dualization of Road from GT Road (Samma) to Gujrat Dinga Road I/C Gujrat Flyover Length =
 31 kms in District Gujrat)(Group No. IV-B, Construction of Bridge over Bhimber Nullah
 alongwith Approaches)
 Reference # CED/TFL **36523** (Dr. Waseem Abbass) Dated: 07-06-2021
 Reference of the request letter # 419/MCB Dated: 17-03-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	3100	4400	62200	62250	88200	88400	1.30	16.3	
2	0.366	3	0.370	0.11	0.108	3200	4300	64200	65510	86200	88100	1.10	13.8	
3	4.271	10	1.264	1.27	1.256	40400	53400	70200	70930	92700	93800	1.70	21.3	
4	4.267	10	1.264	1.27	1.254	40800	53400	70900	71700	92700	93900	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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 Sia Engineers & Contractors
Gujranwala
(B2S Project Site ID: Site-424, C6_56, N-5763, C3 New Add-19, C6_126, C6_129, SITE-497,
C6_128, C11-2809, C11-2805)

Reference # CED/TFL **36525** (Dr. Usman Akmal)
Reference of the request letter # SIA/Steel/e.co/B2S/003

Dated: 09-06-2021
Dated: 25-05-2021

Tension Test Report (Page -1/1)

Date of Test 10-06-2021
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	0.380	10	9.58	0.12	0.112	4100	5000	75324	80810	91858	98600	0.90	11.3	
2	0.382	10	9.61	0.12	0.112	3900	5100	71650	76500	93696	100100	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														

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,
 Project Manager
 BWRDSP Consultants
 Project Design, Construction Supervision and Implementation Support for Balochistan Water Resources Development Sector Project (BWRDSP)
 (Construction of Water Resource Building at Quetta (NCB-05))
 Reference # CED/TFL **36526** (Dr. Waseem Abbass) Dated: 07-06-2021
 Reference of the request letter # 4075/061/ARB/01/254 Dated: 04-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	0.372	9.5	9.48	0.110	0.109	3500	4700	70200	70580	94200	94800	0.80	10.0	Agha Steel
2	0.373	9.5	9.50	0.110	0.110	3400	4700	68200	68270	94200	94400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
9.5mm Dia Bar Bend Test Through 180° 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,
 Resident Engineer
 Allied Engineering Consultants (Pvt) Ltd
 Construction of Servis More Flyover and Industrial Area Link Road, District Gujrat

Reference # CED/TFL **36527** (Dr. Waseem Abbass)
 Reference of the request letter # AEC/GUJ/2021/19

Dated: 07-06-2021
 Dated: 27-05-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	4.231	10	1.258	1.27	1.244	40000	53000	69500	70890	92000	94000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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
(Infra Development Work Phase XI Sector Q Rahbar) – (M/s DHA C)

Reference # CED/TFL **36528** (Dr. Waseem Abbass)

Dated: 07-06-2021

Reference of the request letter # 408/241/E/Lab/79/16/4SWB

Dated: 07-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021

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	0.378	3	0.376	0.11	0.111	3100	4600	62200	61570	92200	91400	1.20	15.0	Kamran Steel
2	0.384	3	0.379	0.11	0.113	3200	4600	64200	62490	92200	89900	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



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

To,
 Manager Construction
 Orient Electronics (Pvt) Ltd
 Construction of Orient Square Hotel Tower Johar Town

Reference # CED/TFL **36529** (Dr. Waseem Abbass) Dated: 07-06-2021
 Reference of the request letter # OSH-SO/UET/AghaSteelTest/070621-16 Dated: 07-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-06-2021
 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	4.192	32	31.81	0.12	1.232	40000	53600	734867	71560	984721	95900	1.60	20.0	
2	4.205	32	31.86	0.12	1.236	41400	54000	760587	73830	992070	96300	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° 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,
M/S CM Engineering (Pvt) Ltd
Lahore
(CMPAK Project Site ID : 43444, 43399, 43406, 43431, 43237, 42866, 43076, 43400, 43303, 43118)

Reference # CED/TFL **36530** (Dr. Waseem Abbass)
Reference of the request letter # CME/Steel/CMPAK/304

Dated: 07-06-2021
Dated: 05-06-2021

Tension Test Report (Page -1/1)

Date of Test 07-06-2021
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	0.375	10	9.51	0.12	0.110	3000	4600	55115	60070	84510	92100	1.40	17.5	
2	0.378	10	9.55	0.12	0.111	3100	4700	56952	61500	86347	93300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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