STRUCTURAL ENGINEERING DIVISION

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

To,

Deputy Project Manager
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurement & Construction and Operation & Maintenance of Nineteen (19) Districts (Smart Safe Cities) Project Phase-II

Reference # CED/TFL **6730** (Dr. M. Kashif) Dated: 19-03-2025
Reference of the request letter # ECSP/SSC/PHII/25-17 Dated: 17-03-2025

Tension Test Report (Page -1/2)

Date of Test 24-03-2025
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615
Mughal Steel

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (mm)	Actual (inch)	Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	9	0.371	0.11	0.108	35.20	45.00	71900	73010	92000	93400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only One Sample for tensile and One Sample for Bend test														
Bend Test														
9mm Bend Test Through 180º is Satisfactory **(Mughal Steel)**														

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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To,

Deputy Project Manager
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurement & Construction and Operation & Maintenance of Nineteen (19) Districts (Smart Safe Cities) Project Phase-II

Reference # CED/TFL **6730** (Dr. Asif Hameed) Dated: 19-03-2025
Reference of the request letter # ECSP/SSC/PHII/25-7 Dated: 17-03-2025

Tension Test Report (Page -2/2)

Date of Test 24-03-2025
Gauge length 8 inches
Description I-Bolts Tensile Test

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (mm)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	3.801	30	1.193	0.11	1.117	29400	48000	589100	58010	961800	94700	1.50	18.8	
2	3.771	30	1.188	0.11	1.109	28600	48200	573100	56870	965800	95900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only Two samples for tensile test														
Bend Test														

Test Performed and Verified by:

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,

CM Engineering (Pvt.) Ltd.
CMPAK Site ID: 43944-44365-44533-44544-44546-44535-44532-44323-44537

Reference # CED/TFL **6733** (Dr. Kashif) Dated: 19-03-2025
Reference of the request letter # Steel/CMPAK/344 Dated: 15-02-2025

Tension Test Report (Page -1/1)

Date of Test 24-03-2025
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 (mm)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	10	9.48	0.12	0.109	3430	4940	63015	69150	90756	99600	1.30	16.3	
Note: Only One Sample for tensile test														
Bend Test														

Test Performed and Verified by:

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,

Kashif Mahmood
Assistant Engineer
ITU (Information Technology University of the Punjab)
Construction of Admin Block at Main Campus Barki Road Lahore.

Reference # CED/TFL **6738** (Dr. M. Kashif) Dated: 20-03-2025
Reference of the request letter # ITU/OEW/25/066 Dated: 20-03-2025

Tension Test Report (Page -1/1)

Date of Test 24-03-2025
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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	3	0.372	0.11	0.109	34.20	46.00	69900	70560	94000	95000	1.20	15.0	
2	0.361	3	0.368	0.11	0.106	34.00	45.20	69500	71960	92400	95700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only Two Sample for Tensile and One Sample for Bend Test.														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory.														

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,

Site Incharge,
Eastern Housing Lahore

Reference # CED/TFL **6739** (Dr. M. Kashif) Dated: 20-03-2025
Reference of the request letter # Nil Dated: 17-03-2025

Tension Test Report (Page -1/1)

Date of Test 24-03-2025
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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3	0.372	0.11	0.109	39.50	49.50	80700	81790	101200	102500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only One Sample for Tensile and One for Bend test.														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory.														

Test Performed and Verified by:

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,

Resident Engineer
Metroplan-Asian (JV), Site Office,
NSICTR, Package-B&C, Lahore
Establishment of Nawaz Sharif Institute of Cancer Treatment & Research, Lahore Phase-1 (Package-B).

Reference # CED/TFL **6741** (Dr. M. Kashif) Dated: 20-03-2025
Reference of the request letter # Metroplan-Asian(JV)/NSICTR/RE-B&C/B193 Dated: 20-03-2025

Tension Test Report (Page -1/1)

Date of Test 24-03-2025
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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	33.20	44.70	67900	68280	91300	92000	1.20	15.0	Kamran Steel (Heat # 41)
2	0.373	3	0.374	0.11	0.110	35.50	46.70	72600	72690	95400	95700	1.20	15.0	
3	0.367	3	0.371	0.11	0.108	32.70	44.20	66800	68090	90300	92100	1.10	13.8	
4	0.368	3	0.371	0.11	0.108	33.00	45.50	67500	68460	93000	94400	1.10	13.8	
5	0.367	3	0.371	0.11	0.108	32.50	45.20	66400	67620	92400	94100	1.00	12.5	
6	0.371	3	0.373	0.11	0.109	33.70	45.50	68900	69360	93000	93700	1.00	12.5	

Note: Only Six Samples for Tensile and Three for Bend test.

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory. **(Kamran Steel) (Heat # MAR 41)**
#3 Bar Bend Test Through 180º is Satisfactory. **(Kamran Steel) (Heat # MAR 41)**
#3 Bar Bend Test Through 180º is Satisfactory. **(Kamran Steel) (Heat # MAR 41)**

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Karar Abbas
Sr. Assistant Manager
Department of Procurement,
Pioneer Cement, Lahore.

Reference # CED/TFL **6754** (Dr. Kashif) Dated: 24-03-2025
Reference of the request letter # PCL/PL04/UET/DSB/1211 Dated: 24-03-2025

Tension Test Report (Page -1/1)

Date of Test 24-03-2025
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 (mm)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.430	10	10.19	0.12	0.126	4080	5420	74956	71120	99574	94500	1.30	16.3	AB 780
2	0.407	10	9.92	0.12	0.120	3840	5000	70547	70660	91858	92100	1.20	15.0	
3	0.402	10	9.85	0.12	0.118	3870	5020	71098	72160	92226	93600	1.20	15.0	AB 781
4	0.400	10	9.83	0.12	0.118	3790	4960	69629	70980	91123	92900	1.30	16.3	
5	0.419	10	10.05	0.12	0.123	4000	5220	73487	71660	95900	93600	1.40	17.5	AB 782
6	0.405	10	9.88	0.12	0.119	3920	5120	72017	72650	94063	94900	1.30	16.3	
Note: only six samples for tensile and three sample for bend test														
Bend Test														
10mm **(AB 780)** Bar Bend Test Through 180º is Satisfactory														
10mm **(AB 781)** Bar Bend Test Through 180º is Satisfactory														
10mm **(AB 782)** Bar Bend Test Through 180º is Satisfactory														

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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