



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

To,

Muhammad Khalid Zaman
Resident Engineer (ECSP)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Model Cattle Market Shahpur Kanjra, Lahore.

Reference # CED/TFL **6770** (Dr. Safeer Abbas)
Reference of the request letter # ECSP/MCML/99

Dated: 25-03-2025

Dated: 24-03-2025

Tension Test Report (Page – 1/1)

Date of Test 28-03-2025
Description Bracing Wire for Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12	0.55	9400	
2	12	0.56	9300	
-	-	-	-	
-	-	-	-	
Only two samples for Test				

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

Assistant Project Director
 PMU-SBP,
 Completion of International Squash Complex at Nishtar Park Sports Complex Lahore
 Phase-II G.S No 300.

Reference # CED/TFL **6782** (Dr. Safeer Abbas)

Dated: 27-03-2025

Reference of the request letter # APD/PMU/SBP/LHR/25/875

Dated: 25-03-2025

Tension Test Report (Page -1/1)

Date of Test 28-03-2025

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 (inch)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.402	3/8	0.388	0.11	0.118	3400	5100	68200	63430	102200	95200	1.30	16.3	
2	0.407	3/8	0.390	0.11	0.120	3500	5200	70200	64480	104200	95800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only Two Samples for Tensile and One Sample for Bend Test														
Bend Test														
3/8 Bar Bend Test Through 180° is Satisfactory														

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Engr. Riaz Ahmad
 Resident Engineer (A&D)
 Metroplan-Asian JV, Site Office, NSICTR, Lahore
 Establishment of Nawaz Sharif Institute of Cancer Treatment and Research, Lahore
 (Phase-I, Package-A&D)

Reference # CED/TFL **6783** (Dr. Safeer Abbas) Dated: 27-03-2025

Reference of the request letter # MetroplanAsianJV/NSICTR/RE(A&D)/25/124 Dated: 25-03-2025

Tension Test Report (Page -1/3)

Date of Test 28-03-2025

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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	3600	4800	72200	72240	96200	96400	1.30	16.3	FF Steel
2	0.360	3	0.367	0.11	0.106	3500	4800	70200	72950	96200	100100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only Two Samples for Tensile and One Sample for Bend Test														
Bend Test														
# 3 Bar Bend Test Through 180° is Satisfactory. (FF Steel)														

Test Performed and Verified by:

I/C Testing Laboratoires
 UET Lahore, Pakistan.

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To,

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

Reference # CED/TFL **6783** (Dr. Safeer Abbas)

Dated: 27-03-2025

Reference of the request letter # MetroplanAsianJV/NSICTR/RE-B&C/B/210

Dated: 26-03-2025

Tension Test Report (Page -2/3)

Date of Test 28-03-2025

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		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	0.373	3	0.374	0.11	0.110	3500	4700	70200	70350	94200	94500	1.30	16.3	FF Steel MAR-121
2	0.375	3	0.375	0.11	0.110	3500	4800	70200	70030	96200	96100	1.20	15.0	
3	0.371	3	0.373	0.11	0.109	3500	4700	70200	70700	94200	95000	1.10	13.8	FF Steel MAR-132
4	0.378	3	0.376	0.11	0.111	3600	4800	72200	71510	96200	95400	1.20	15.0	
Note: Only Four Samples for Tensile and Two Samples for Bend Test														
Bend Test														
# 3 Bar Bend Test Through 180° is Satisfactory. (FF Steel, Heat MAR-121)														
# 3 Bar Bend Test Through 180° is Satisfactory. (FF Steel, Heat MAR-132)														

Test Performed and Verified by:

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

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

Reference # CED/TFL **6783** (Dr. Safeer Abbas)

Dated: 27-03-2025

Reference of the request letter # MetroplanAsianJV/NSICTR/RE-B&C/B/211

Dated: 26-03-2025

Tension Test Report (Page -3/3)

Date of Test 28-03-2025

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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.107	3200	4600	64200	65620	92200	94400	1.40	17.5	Kamran Steel
2	0.367	3	0.371	0.11	0.108	3200	4600	64200	65330	92200	94000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only Two Samples for Tensile and One Sample for Bend Test														
Bend Test														
# 3 Bar Bend Test Through 180° is Satisfactory. (Kamran Steel, MAR-120)														

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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