



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

To,
Ass Dir Dev
Defence Housing Authority, Gujranwala
“Const of Northern Gate”

Reference # CED/TFL **3828** (Dr. M Kashif)
Reference of the request letter # 111/3/AD/Dev/Makhdoomi/17

Dated: 31-08-2023
Dated: 29-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.377	3	0.376	0.11	0.111	3210	4590	64400	63800	92000	91300	1.50	18.8	SJ Steel
2	0.375	3	0.375	0.11	0.110	3010	4610	60400	60180	92400	92200	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:

- 1- You can See your reports On Internet in the following web site
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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,
 Manager
 ABL - UML P-199 & 200
 Allied Bank
 Construction of ABL, Upper Mall Lahore Plot No. 199, 200

Reference # CED/TFL **3819** (Dr. M Kashif)
 Reference of the request letter # ABL-UML-AMC-QAQC-21

Dated: 30-08-2023
 Dated: 29-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
 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	0.383	3	0.379	0.11	0.113	4640	5370	93000	90840	107600	105200	1.00	12.5	Ametreli Steel
2	0.387	3	0.381	0.11	0.114	4510	5320	90400	87290	106600	103000	1.10	13.8	
3	0.385	3	0.380	0.11	0.113	4400	5270	88200	85730	105600	102700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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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Pakistan. Ph: 92-42-99029202

To,
Manager Civil
Shangrila Foods (Private) Limited
Karachi

Reference # CED/TFL **3825** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 30-08-2023
Dated: 30-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.375	3	0.375	0.11	0.110	3790	4810	76000	75830	96400	96300	1.00	12.5	
2	0.374	3	0.374	0.11	0.110	3740	4740	75000	75000	95000	95100	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.

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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
NESPAK
Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore

Reference # CED/TFL **3826** (Dr. M Kashif)
Reference of the request letter# 4537/03/MSA/09/111

Dated: 31-08-2023
Dated: 28-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.404	3	0.389	0.11	0.119	3640	5150	73000	67630	103200	95700	0.90	11.3	SJ-121
2	0.403	3	0.388	0.11	0.118	3520	5070	70600	65540	101600	94400	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:

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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,

General Manager Works
 ES Consultants (Pvt) Ltd.
 Construction of MultiStory (High Rise) Commercial Building Complex at OPF Housing Scheme, Khayaban-e-Jinnah, Raiwind Road, Lahore.

Reference # CED/TFL **3827** (Dr. M Kashif)

Dated: 31-08-2023

Reference of the request letter # 714/ESC/OPF-ISL/8075

Dated: 29-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023

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	0.369	3	0.372	0.11	0.109	3540	4510	71000	71850	90400	91600	1.30	16.3	
2	0.372	3	0.373	0.11	0.109	3740	4690	75000	75390	94000	94600	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.

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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 Engineering Consultancy Services Punjab (Pvt.) Ltd.
 Provision of Safe Drinking Water in District Faisalabad by Utilizing 66 Existing Bores of
 Punjab Saaf Pani Company (North Zone) Chak Jhumra Lot-1. (Cluster 2 & 3)

Reference # CED/TFL **3830** (Dr. M Kashif)

Dated: 31-08-2023

Reference of the request letter # ECSP/PAPA/66 bores-lot1-18

Dated: 28-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023

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	0.368	3	0.371	0.11	0.108	3520	4910	70600	71780	98400	100200	1.30	16.3	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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 Aziz Steel Industries
 Sheikhpura

Reference # CED/TFL **3831** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 31-08-2023
 Dated: 31-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
 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	0.377	3	0.376	0.11	0.111	3410	5050	68400	67740	101200	100400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

M/S Ittefaq Building Solutions Pvt. Ltd.
Lahore
(Project New Apparel Facility, Farozwattwan.)

Reference # CED/TFL **3832** (Dr. M Kashif)
Reference of the request letter # IBS/SD11

Dated: 31-08-2023
Dated: 30-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.366	10	9.40	0.12	0.108	3920	4940	72017	80270	90756	101200	1.10	13.8	Afco
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm 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

Ref: CED/TFL/09/3834

Dated: 01-09-2023

Dated of Test: 05-09-2023

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page # 1/1)

Reference to your letter No. Nil, dated 30.08.2023 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.77	7.28	12.40	9.23	1.59	7000	9000	2756	3543
2	9	7.77	7.30	12.44	8.97	1.73	6500	8500	2625	3433

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,

Sn. Civil Engineer
PEPSI, NBC Gujranwala
Construction of ETP and Rain Water Collection Pit at NBC Gujranwala.

Reference # CED/TFL **3835** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 01-09-2023
Dated: 01-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.361	10	9.34	0.12	0.106	3380	4660	62096	70120	85612	96700	1.40	17.5	
2	0.365	10	9.39	0.12	0.107	3380	4790	62096	69470	88000	98500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Pakistan. Ph: 92-42-99029202

To,

M/S Best Builders
Lahore
(New TCF Secondary School Building in KRoshan Basti Rahim Yar Khan.)

Reference # CED/TFL **3836** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 01-09-2023
Dated: 31-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	3620	5150	72600	71870	103200	102300	1.20	15.0	Ittefaq Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

M/S Best Builders
 Lahore
 (New TCF Secondary School Building in Karam Bagh Kharian.)

Reference # CED/TFL **3837** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 01-09-2023
 Dated: 31-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
 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	3570	5200	71600	70650	104200	103000	1.10	13.8	Ittefaq Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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To,

M/S S.P. Nizam
Lahore

Reference # CED/TFL **3838** (Dr. Asif Hameed)
Reference of the request letter # Nil

Dated: 01-09-2023

Dated: 01-09-2023

Tension Test Report (Page – 1/1)

Date of Test

05-09-2023

Description

Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	25	1.95	25200	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one samples for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **3839** (Dr. M Kashif)
Reference of the request letter # VECO/2023/0717/8088

Dated: 01-09-2023
Dated: 31-08-2023

Tension Test Report (Page – 1/1)

Date of Test 05-09-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	437.0	10300	101.04	10900	106.93	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for 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,

Structure Design Engineer
 Atiq Associates
 Main Gate Construction, Al-Hafeez Garden Housing Scheme, Canal Road, Opposite
 Sozo Water Park, Lahore.

Reference # CED/TFL **3841** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 01-09-2023
 Dated: 31-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
 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	0.367	3	0.371	0.11	0.108	3520	4430	70600	71820	88800	90400	0.90	11.3	
2	0.368	3	0.371	0.11	0.108	3460	4430	69400	70540	88800	90400	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
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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,

Chief Resident Engineer
NESPAK
Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot
Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

Reference # CED/TFL **3843** (Dr. M Kashif)

Dated: 01-09-2023

Reference of the request letter # 103/EW/GRW/ML/Lab/21

Dated: 31-08-2023

Tension Test Report (Page -1/6)

Date of Test 05-09-2023

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	777.0	17600	172.66	19600	192.28	199	>3.50	xx
2	12.70 (1/2")	775.0	776.0	18100	177.56	19400	190.31	199	>3.50	xx
3	12.70 (1/2")	775.0	777.0	17700	173.64	19400	190.31	198	>3.50	xx
4	12.70 (1/2")	775.0	776.0	18100	177.56	19200	188.35	199	>3.50	xx
5	12.70 (1/2")	775.0	779.0	18100	177.56	19600	192.28	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-

Only five samples for Test

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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

To,

Chief Resident Engineer
NESPAK

Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot
Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

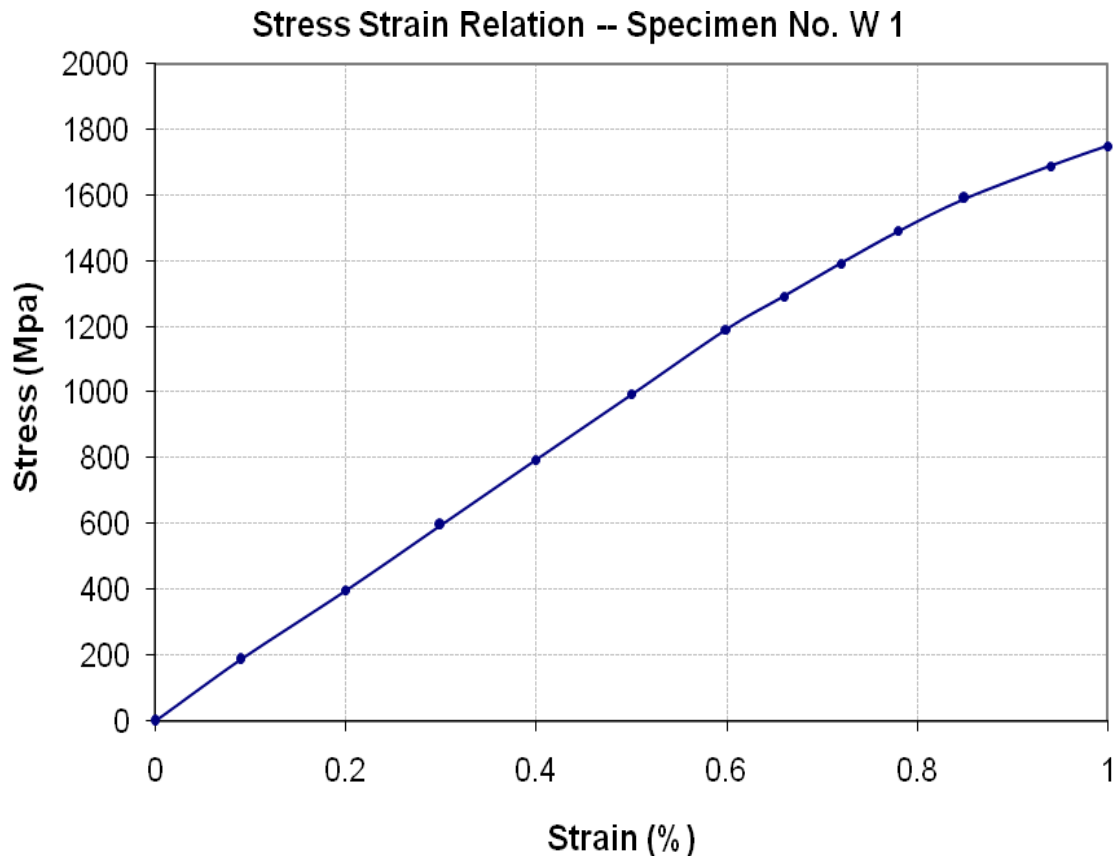
Reference # CED/TFL **3843** (Dr. M Kashif)

Dated: 01-09-2023

Reference of the request letter # 103/EW/GRW/ML/Lab/21

Dated: 31-08-2023

Graph (Page – 2/5)



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

To,

Chief Resident Engineer
NESPAK

Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot
Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

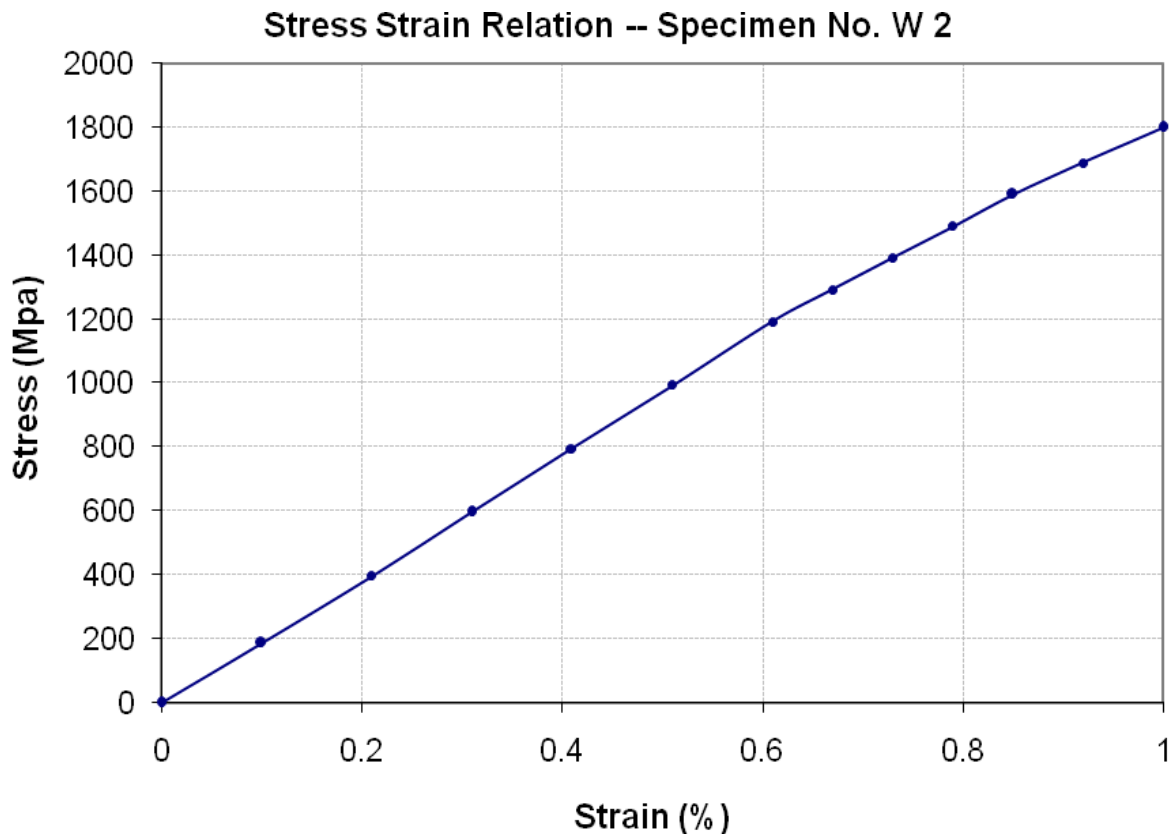
Reference # CED/TFL **3843** (Dr. M Kashif)

Dated: 01-09-2023

Reference of the request letter # 103/EW/GRW/ML/Lab/21

Dated: 31-08-2023

Graph (Page – 3/6)



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

To,

Chief Resident Engineer
NESPAK

Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot
Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

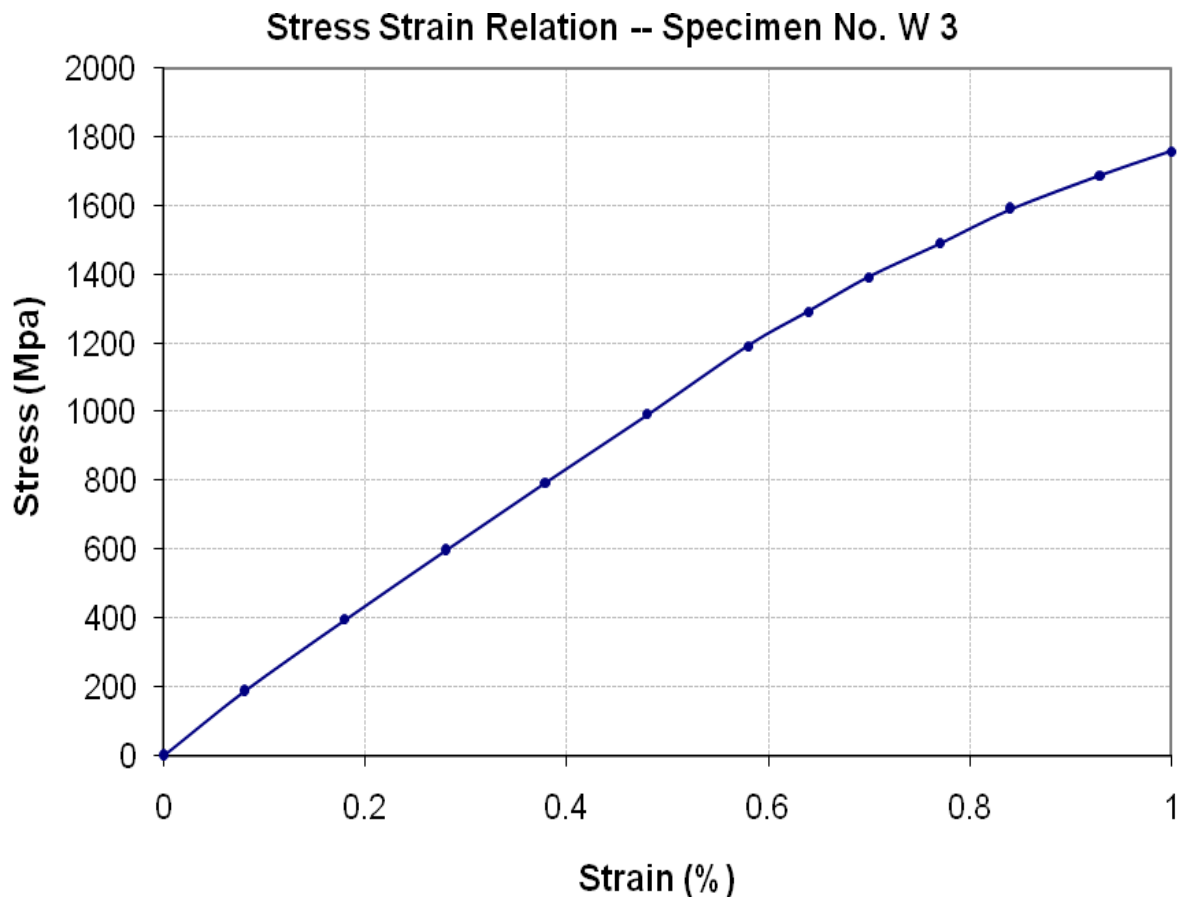
Reference # CED/TFL **3843** (Dr. M Kashif)

Dated: 01-09-2023

Reference of the request letter # 103/EW/GRW/ML/Lab/21

Dated: 31-08-2023

Graph (Page – 4/6)



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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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,

Chief Resident Engineer

NESPAK

Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot
Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

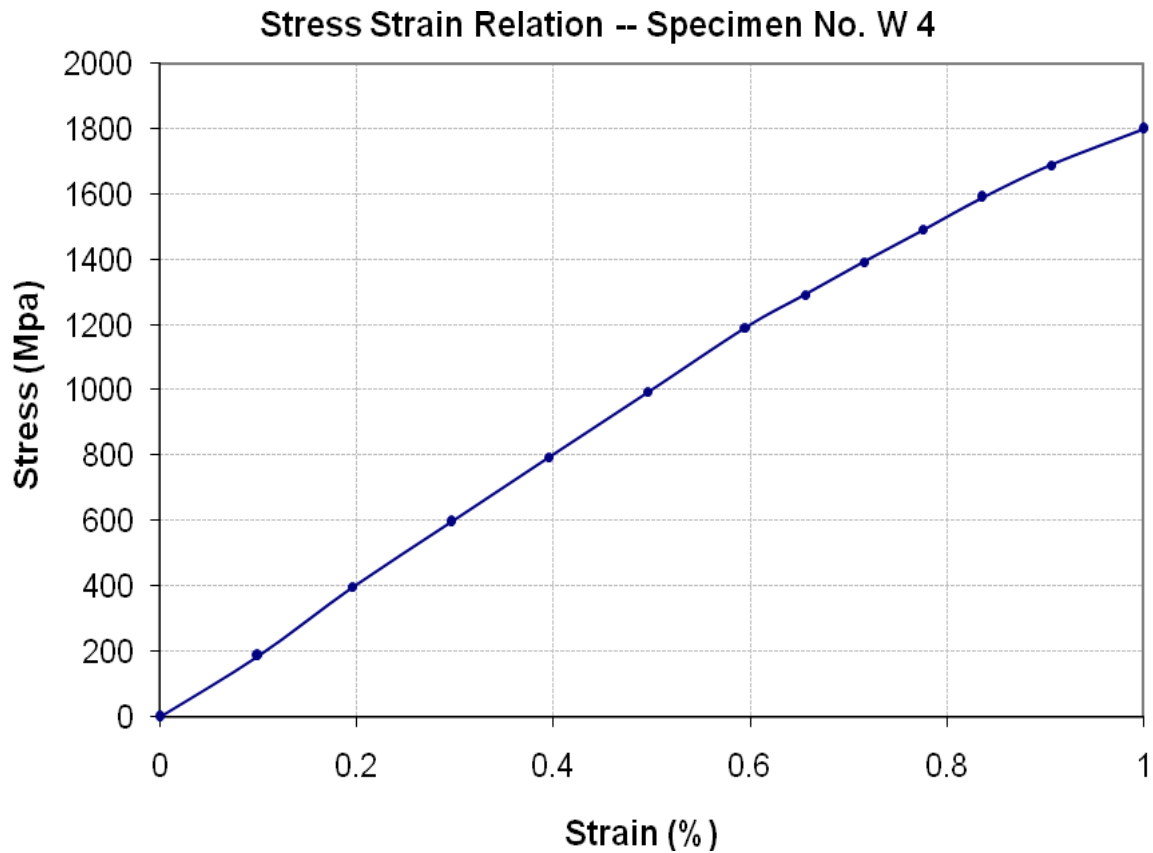
Reference # CED/TFL **3843** (Dr. M Kashif)

Dated: 01-09-2023

Reference of the request letter # 103/EW/GRW/ML/Lab/21

Dated: 31-08-2023

Graph (Page -5/6)



I/C Testing Laboratories
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,

Chief Resident Engineer
NESPAK
Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot
Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

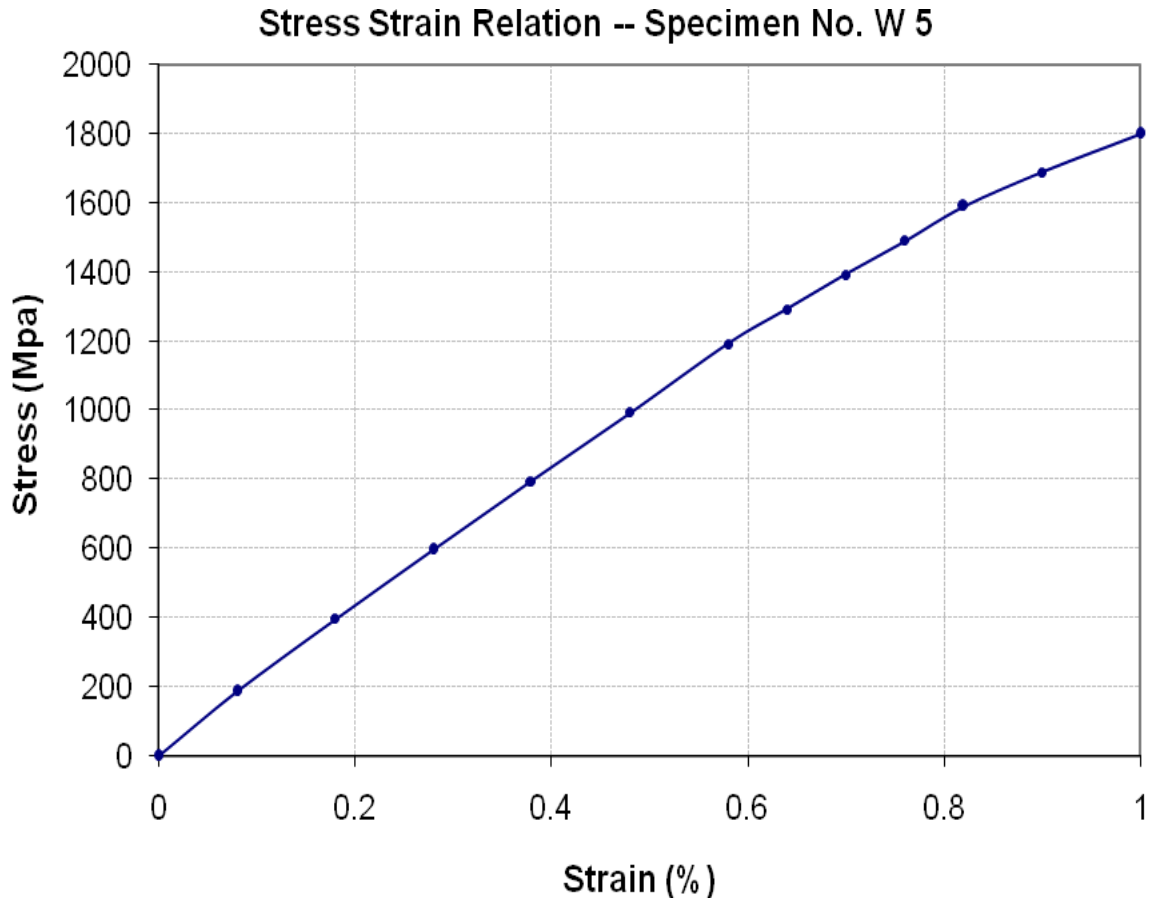
Reference # CED/TFL **3843** (Dr. M Kashif)

Dated: 01-09-2023

Reference of the request letter # 103/EW/GRW/ML/Lab/21

Dated: 31-08-2023

Graph (Page – 6/6)



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
M/S Meezan Developers
Lahore
(Construction of Jamia tur Rasheed Lahore Campus.)

Reference # CED/TFL **3846** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 04-09-2023
Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.374	3	0.374	0.11	0.110	3630	4690	72800	72820	94000	94100	1.10	13.8	
2	0.374	3	0.374	0.11	0.110	3540	4610	71000	70990	92400	92500	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														

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,

Incharge
Works and Services Organization NIBGE Sub-Office
Construction of Hunarghah at NIAB Faisalabad.

Reference # CED/TFL **3847** (Dr. M Kashif)
Reference of the request letter # WASO-PFFBD-22-598

Dated: 04-09-2023
Dated: 01-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.371	3	0.373	0.11	0.109	3520	4840	70600	71120	97000	97800	1.40	17.5	
2	0.371	3	0.372	0.11	0.109	3470	4810	69600	70210	96400	97400	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														

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

To,
P/S (South-3), SWP
WASO PAEC, D.G. Khan

Reference # CED/TFL **3848** (Dr. M Kashif)
Reference of the request letter # SWP/W(2529)/2023

Dated: 04-09-2023

Dated: 28-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
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	0.367	3	0.371	0.11	0.108	3330	4690	66800	68080	94000	95900	1.50	18.8	
2	0.366	3	0.370	0.11	0.107	3280	4710	65800	67260	94400	96600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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,
 Assistant Director
 Defence Housing Authority, Gujranwala
 "Construction of 5 Marla Villas (Block D)"

Reference # CED/TFL **3849** (Dr. M Kashif)
 Reference of the request letter # 111/3/AD Bldgs/Gen/55

Dated: 04-09-2023
 Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
 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	0.384	3	0.379	0.11	0.113	3470	4890	69600	67840	98000	95600	1.10	13.8	SJ Steel
2	0.377	3	0.375	0.11	0.111	3380	4890	67800	67280	98000	97400	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
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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

Ref: CED/TFL/09/3851

Dated: 04-09-2023

Date of Test: 05-09-2023

To,

M/S Reliance Construction
Karachi

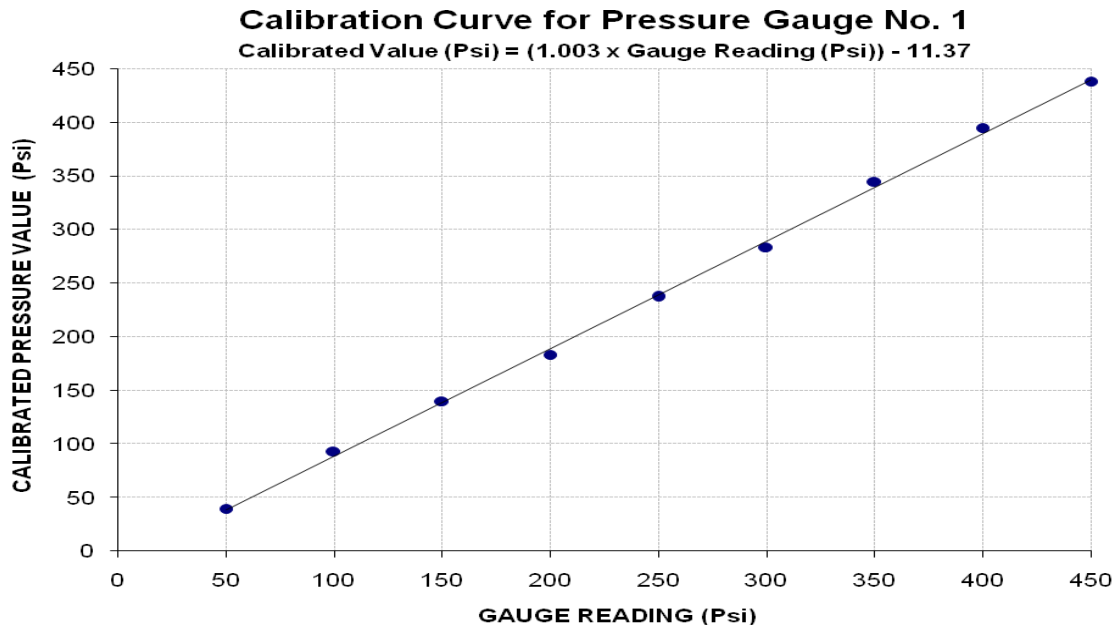
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/09/3851)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 04/09/2023 on the subject cited above. One Pressure Gauge No. 1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (Psi)
Calibrated Range : Zero - 450 (Psi)

Pressure Gauge Reading (Psi)	50	100	150	200	250	300	350	400	450
Calibrated Load (kg)	550	1300	1950	2550	3300	3950	4800	5500	6100
Calibrated Pressure (Psi)	40	93	140	183	237	284	345	395	438

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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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

Ref: CED/TFL/09/3852

Dated: 04-09-2023

Date of Test: 05-09-2023

To,

M/S Reliance Construction
Karachi

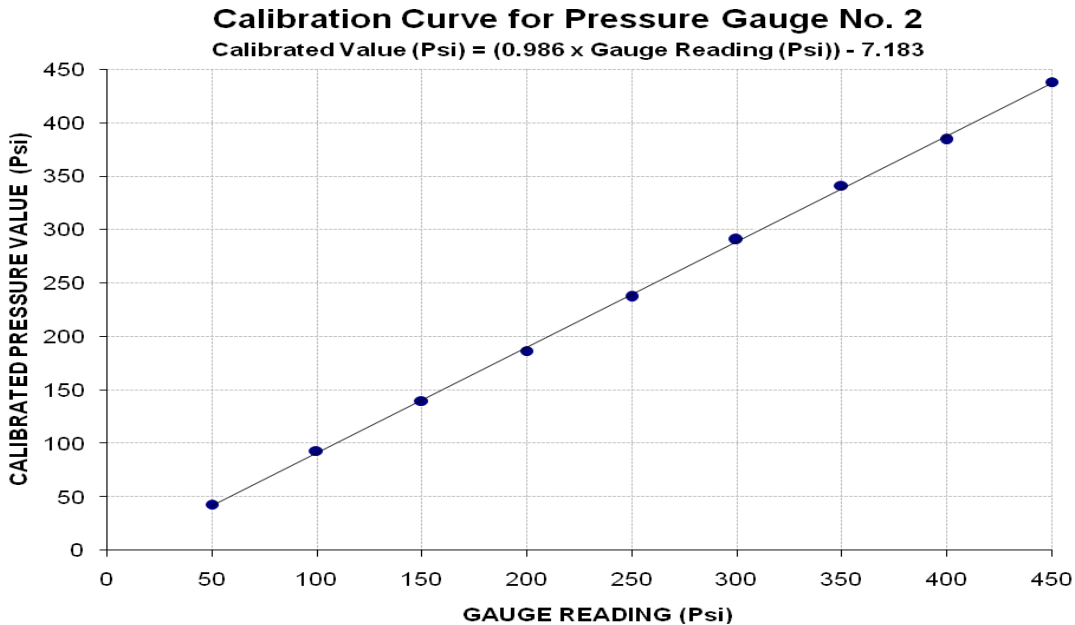
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/09/3852)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 04/09/2023 on the subject cited above. One Pressure Gauge No. 2 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (Psi)
Calibrated Range : Zero - 450 (Psi)

Pressure Gauge Reading (Psi)	50	100	150	200	250	300	350	400	450
Calibrated Load (kg)	600	1300	1950	2600	3300	4050	4750	5350	6100
Calibrated Pressure (Psi)	43	93	140	187	237	291	341	384	438

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
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,

Asst Dir Dev
Defence Housing Authority, Gujranwala
"Family Recreational Park & Eateries and Food Point (Park A & B)"

Reference # CED/TFL **3853** (Dr. M Kashif)

Dated: 04-09-2023

Reference of the request letter # 111/3/AD/Dev/ESAC-02/61

Dated: 30-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023

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	0.372	3	0.373	0.11	0.109	3330	4810	66800	67180	96400	97100	1.00	12.5	Kamran Steel
2	0.372	3	0.373	0.11	0.109	3360	4840	67400	67730	97000	97600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

- 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,

Construction Manager
 Barqaab Consulting Services (Pvt) Limited
 Procurement of Plant, Design, Supply, Installation, Testing and Commissioning of
 500/220/132kV Lahore North Substation and Extension Works at 500/220/132kV Nokhar
 Substation.

Reference # CED/TFL **3854** (Dr. Asad Ali)

Dated: 04-09-2023

Reference of the request letter # 500kV/SS/N-LHR/BQB/132

Dated: 01-09-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023

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	0.367	3	0.371	0.11	0.108	3310	4590	66400	67670	92000	93900	1.10	13.8	FF Steel
2	0.369	3	0.371	0.11	0.108	3310	4640	66400	67350	93000	94500	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														

Witness by M Adnan (Civil Engineer) and Rana Zahid (F.M EHVI)

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 - 2
 ACES
 Civil Infrastructure Development Works DHA Multan.

Reference # CED/TFL **3856** (Dr. M Kashif)
 Reference of the request letter # ACES/DHAM/Sec-O/097

Dated: 04-09-2023
 Dated: 22-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023
 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	0.409	10	9.93	0.12	0.120	4130	5200	75875	75790	95533	95500	1.00	12.5	Mughal Steel
2	0.407	10	9.91	0.12	0.120	4280	5270	78631	78890	96819	97200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

Ref: CED/TFL/09/3857

Dated: 04-09-2023

Dated of Test: 05-09-2023

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page # 1/1)

Reference to your letter No. Nil, dated 04.09.2023 on the subject cited above. Five R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.76	7.27	12.68	9.17	1.75	9000	13500	3568	5353
2	9	7.76	7.25	12.72	9.20	1.76	6500	11500	2578	4561
3	9	7.77	7.25	12.72	9.08	1.82	10000	15000	4019	6028
4	9	7.77	7.30	12.60	8.84	1.88	7500	12500	3074	5124
5	12	7.75	7.34	16.14	12.53	1.80	8000	12000	2302	3453

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

Ref: CED/TFL/09/3858

Dated: 04-09-2023

Dated of Test: 05-09-2023

To

Project Manager
AJK Engineers (Pvt) Ltd.
Construction of Capital Tower, Plot No. 59, F-6/G-6, Blue Area, Islamabad.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/3858)

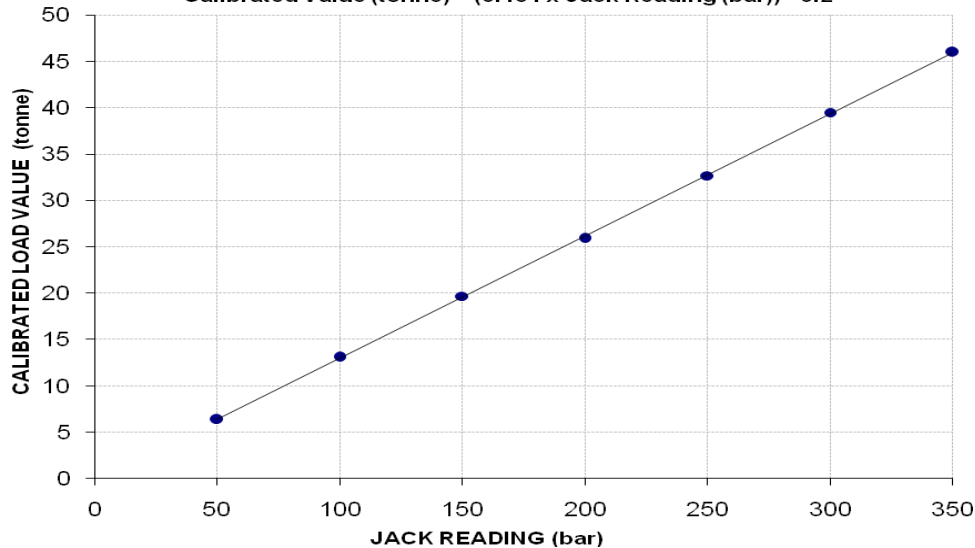
Reference to your Letter No. AJK/UET/2023/09/002, Dated: 04/09/2023 on the subject cited above. One Hydraulic Jack No. AES 60 with Pressure Gauge No. AES 60 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar)
Calibrated Range : Zero - 350 (bar)

Jack Reading (bar)	50	100	150	200	250	300	350	
Calibrated Load	(kg)	6350	13100	19700	25900	32650	39500	45950
	(tonne)	6.35	13.10	19.70	25.90	32.65	39.50	45.95

Calibration Curve For Jack No. AES 60

$\text{Calibrated Value (tonne)} = (0.131 \times \text{Jack Reading (bar)}) - 0.2$



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,

Assistant Engineer
 (Civil)
 University of Engineering and Technology, Lahore
 “Construction of Upper Floor of Existing Building of the Department Computer
 Engineering, Main Campus UET Lahore”

Reference # CED/TFL **3859** (Dr. M Kashif)
 Reference of the request letter # B&W/ECSC/10

Dated: 04-09-2023
 Dated: 01-09-2023

Tension Test Report (Page -1/2)

Date of Test 05-09-2023
 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	0.373	3	0.373	0.11	0.110	4180	4760	83800	84100	95400	95800	1.00	12.5	
2	0.380	3	0.377	0.11	0.112	4250	4840	85200	83910	97000	95600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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
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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,

Assistant Engineer
 (Civil)
 University of Engineering and Technology, Lahore
 “Construction of Upper Floor of Existing Building of the Department Computer Science,
 Main Campus UET Lahore”

Reference # CED/TFL **3859** (Dr. M Kashif)

Dated: 04-09-2023

Reference of the request letter # B&W/ECSCE/11

Dated: 01-09-2023

Tension Test Report (Page -2/2)

Date of Test

05-09-2023

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	0.382	3	0.378	0.11	0.112	4380	5100	87800	85880	102200	100000	1.00	12.5	
2	0.381	3	0.378	0.11	0.112	4380	5150	87800	86230	103200	101400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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,

Assistant Director Civil
National Skills University Islamabad
"Construction of Boundary Wall and Main Gate at National Skills University Islamabad
Muridke Campus."

Reference # CED/TFL **3860** (Dr. M Kashif)

Dated: 04-09-2023

Reference of the request letter # MSU/Muridke/Phase-I/2023/7

Dated: 28-08-2023

Tension Test Report (Page -1/1)

Date of Test 05-09-2023

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	0.370	3	0.372	0.11	0.109	3430	4840	68800	69490	97000	98100	1.30	16.3	
2	0.370	3	0.372	0.11	0.109	3520	4840	70600	71330	97000	98100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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