



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

To,
Deputy CRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project (LSMP)

Reference # CED/TFL **34652** (Dr. M Rizwan Riaz)
Reference of the request letter # LSMP/DCRE/2020/1462

Dated: 11-02-2020
Dated: 11-02-2020

Tension Test Report (Page – 1/2)

Date of Test 21-02-2020
Gauge length 2 inches
Description MS Sheet & Base Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	MS Sheet	26.40x4.50	118.80	4400	6000	363.33	495.45	0.80	40.00	
2		26.40x4.50	118.80	4600	6100	379.85	503.71	0.80	40.00	
3	Base Plate	24.10x25.00	602.50	16300	28800	265.40	468.93	1.10	55.00	
4		24.00x25.00	600.00	17000	29300	277.95	479.06	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Deputy CRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project (LSMP)

Reference # CED/TFL **34652** (Dr. M Rizwan Riaz)
Reference of the request letter # LSMP/DCRE/2020/1462

Dated: 11-02-2020
Dated: 11-02-2020

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

Date of Test 21-02-2020
Gauge length -----
Description MS Sheet & Base Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
		(g)	(cm)	(cm)	(kg/m ²)	(mm)	
1	MS Sheet	8372	76.20	30.20	36.38	4.50	
2	Base Plate	45400	76.60	30.00	197.56	25.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only Two Samples for Test							

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer
REC-LOYA-TECHNIA-Jv
Construction of 4-Lane Bridge Across River Indus Linking Layyah with Taunsa including 2
Lane Approach Roads and Training Works, Package I: Major Bridge on River Indus

Reference # CED/TFL **34678** (Dr. Safer Abbas)
Reference of the request letter # REC-LOYA-TECHIA/Coord/220

Dated: 14-02-2020
Dated: 12-02-2020

Tension Test Report (Page – 1/2)

Date of Test 21-02-2020
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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1114.0	26400	258.98	28100	275.66	198	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample 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.

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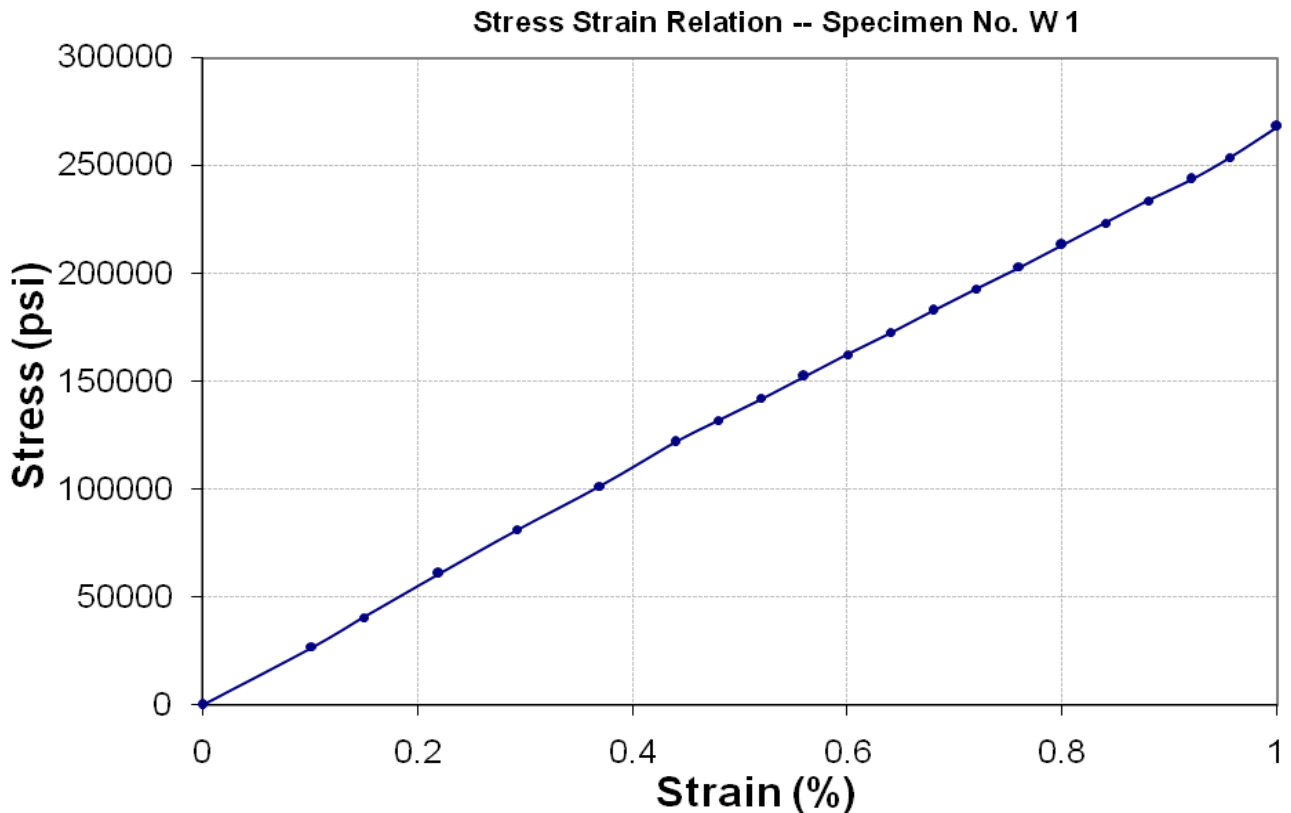
To,
Resident Engineer
REC-LOYA-TECHNIA-Jv
Construction of 4-Lane Bridge Across River Indus Linking Layyah with Taunsa including 2
Lane Approach Roads and Training Works, Package I: Major Bridge on River Indus

Reference # CED/TFL **34678** (Dr. Safer Abbas)

Dated: 14-02-2020

Reference of the request letter # REC-LOYA-TECHIA/Coord/220 Dated: 12-02-2020

Graph (Page – 2/2)



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,
Project Manager
Ajwa City Project, Gujranwala
Pile Bridge Girders

Reference # CED/TFL **34697** (Dr. Safer Abbas)
Reference of the request letter # AJWA CITY/LAB/Testing/107

Dated: 18-02-2020
Dated: 18-02-2020

Tension Test Report (Page – 1/2)

Date of Test 21-02-2020
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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1132.0	23000	225.63	25200	247.21	199	<3.50 Not ok	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample 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:

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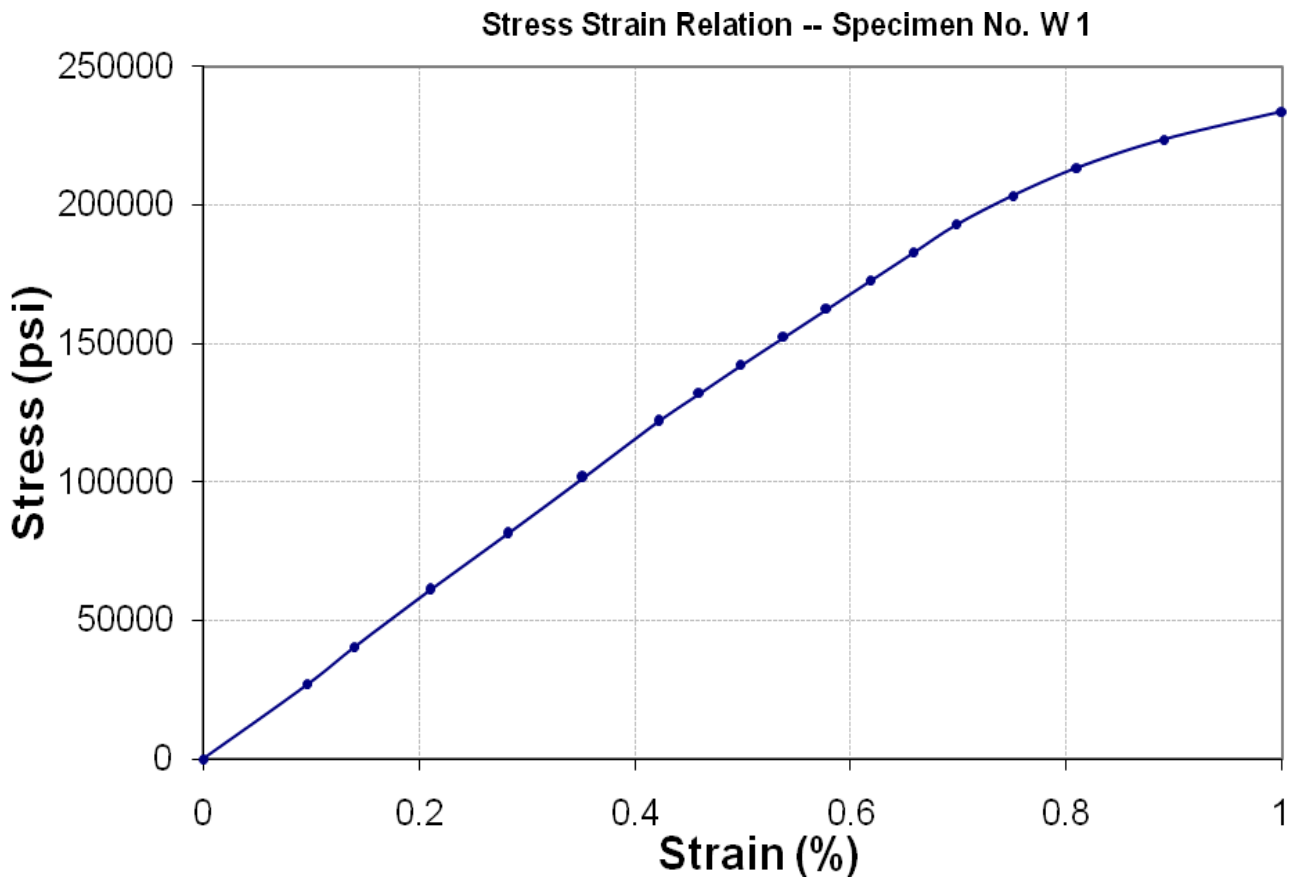
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Project Manager
Ajwa City Project, Gujranwala
Pile Bridge Girders

Reference # CED/TFL **34697** (Dr. Safer Abbas)
Reference of the request letter # AJWA CITY/LAB/Testing/107

Dated: 18-02-2020
Dated: 18-02-2020

Graph (Page – 2/2)



I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Ref: CED/TFL/02/34699, 34723, 725

Dated: 18-02-2020

Dated of Test: 21-02-2020

To
Construction Manager
NESPAK
Establishment of Punjab Local Government Academy Building - Lahore

Subject: - **CALIBRATION OF LOAD CELL (MARK: TFL/02/34699)** (Page – 1/1)

Reference to your Letter No. 3796/13/MHK/01/13, Dated: 18/02/2020 on the subject cited above. One Load Cell No. 81457 (Marke: Strainstall) as received by us has been calibrated. The results are tabulated as under:

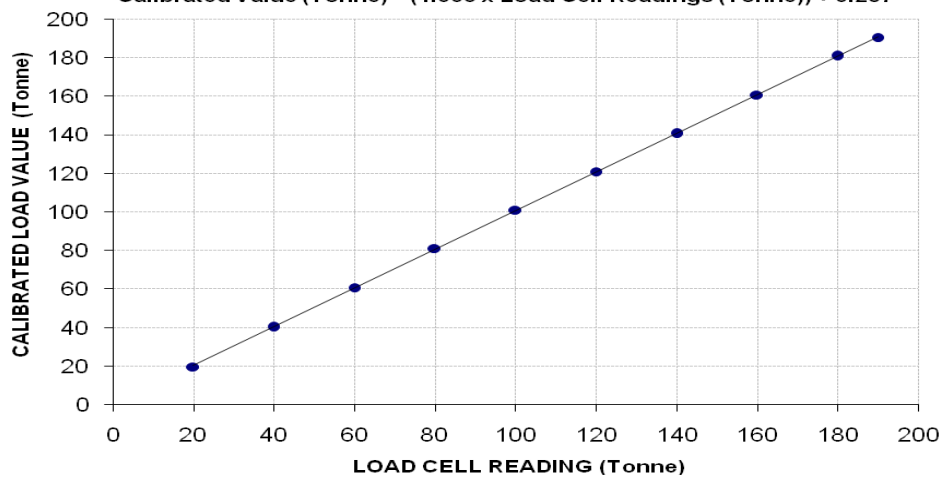
Total Range : Zero - 1000 (Tonne)
Calibrated Range : Zero - 200 (Tonne)

Load Cell Reading (Tonne)	20	40	60	80	100	120	140	160	180	190	
Calibrated Load	(kg)	19800	40200	60800	81000	101000	120800	140600	160600	180800	190700
	(Tonne)	19.80	40.20	60.80	81.00	101.00	120.80	140.60	160.60	180.80	190.70

1Tonne = 1000 kg (Witness by M Umar Aziz (Jr. Engr. NESPAK))

Calibration Curve For Load Cell No. 82457

Calibrated Value (Tonne) = (1.003 × Load Cell Readings (Tonne)) + 0.287



I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 CEO
 Lateef Rafique Construction
 5 Marla House Construction Project, DGL, Phase-2

Reference # CED/TFL **34705** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 19-02-2020
 Dated: 19-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 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	0.402	3	0.388	0.11	0.118	4200	5300	84200	78350	106200	98900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.E
AS Enterprises
Style Textile Raiwand Road
(AA Associates)(Afce)

Reference # CED/TFL **34710** (Dr. Usman Akmal)
Reference of the request letter # USD/ASE/17

Dated: 19-02-2020
Dated: 19-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
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	0.402	10	9.86	0.12	0.118	3600	4800	66138	67090	88184	89500	1.00	12.5	
2	0.403	10	9.86	0.12	0.118	3700	4700	67975	68880	86347	87500	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,
M.E
AS Enterprises
Style Textile Mill Manga
(AA Associates)(Afce)

Reference # CED/TFL **34711** (Dr. Usman Akmal)
Reference of the request letter # USD/ASE/01

Dated: 19-02-2020
Dated: 19-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
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	0.408	10	9.92	0.12	0.120	4000	5350	73487	73560	98288	98400	1.00	12.5	
2	0.409	10	9.93	0.12	0.120	4100	5350	75324	75230	98288	98200	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.

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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,
 Senior Resident Engineer
 ProMag Pvt Ltrd
 Civil Infrastructure Works Main Trunk Sewer Package II – DHA Multan

Reference # CED/TFL **34712** (Dr. Usman Akmal)
 Reference of the request letter # CRE/MTS/432

Dated: 20-02-2020
 Dated: 18-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 Gauge length -----
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.412	8	8.17	51.60	52.44	2400	3300	456	449	627	617	
2	0.432	8	8.37	51.60	54.98	2800	3600	532	500	684	642	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
8mm Dia 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,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works Ph-IX Prism (Pkg-II, III & IV), DHA Ph-IX (M/s NLC)

Reference # CED/TFL **34713** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/849/2235

Dated: 20-02-2020
Dated: 19-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
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	3400	4900	68200	69260	98200	99900	1.00	12.5	Mughal Steel
2	0.371	3	0.373	0.11	0.109	3600	5000	72200	72790	100200	101100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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

To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Const of Complaint Office and Parking Shed at Commercial Broad Way Sector-A, DHA Ph-VIII (M/s ARFCO)
 Reference # CED/TFL **34714** (Dr. Usman Akmal) Dated: 20-02-2020
 Reference of the request letter # 408/241/E/Lab/848/13 Dated: 18-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 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	0.366	3	0.370	0.11	0.108	3900	5100	78200	79840	102200	104400	0.90	11.3	Mughal Steel	
2	0.359	3	0.366	0.11	0.105	3700	4900	74200	77340	98200	102500	0.90	11.3		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Engr. Ejaz Ali
 The University of Lahore
 Sargodha Campus
 (New Admin Block Extension)

Reference # CED/TFL **34715** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 20-02-2020
 Dated: 20-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 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	0.370	3	0.372	0.11	0.109	3200	4800	64200	64920	96200	97400	1.30	16.3	
2	0.361	3	0.367	0.11	0.106	3100	4800	62200	64450	96200	99800	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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- 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,
 Sub Divisional Officer
 Buildings Sub Division, Shorkot
 Construction of 02 Additional Class Rooms in Government Girls Primary School Zulfiqar abad
 Tehsil Ahmad Pur Sial District Jhang

Reference # CED/TFL **34716** (Dr. Usman Akmal)
 Reference of the request letter # 39

Dated: 20-02-2020
 Dated: 01-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.375	3/8	0.375	0.11	0.110	4100	5000	82200	81990	100200	100000	0.90	11.3	
2	0.374	3/8	0.374	0.11	0.110	4200	4950	84200	84100	99200	99200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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,
 Construction Manager
 GREEN STUDIO
 Riaz Arts Factory Gajjumatta Lahore

Reference # CED/TFL **34717** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 20-02-2020
 Dated: 19-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 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	0.391	3	0.383	0.11	0.115	4000	6050	80200	76690	121300	116000	1.00	12.5	
2	0.375	3	0.375	0.11	0.110	3800	5900	76200	75930	118300	117900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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,
 Sub Divisional Officer
 Buildings Sub Division No. 4
 Lahore
 Construction of 02-Additional Class Room in Govt. Girls Primary School Harpalke Lahore Cantt

Reference # CED/TFL **34718** (Dr. Usman Akmal)
 Reference of the request letter # 889-92/GH

Dated: 20-02-2020
 Dated: 13-02-2020

Tension Test Report (Page -1/1)

Date of Test 21-02-2020
 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	0.372	3/8	0.373	0.11	0.109	3400	5350	68200	68480	107200	107800	1.10	13.8	
2	0.370	3/8	0.372	0.11	0.109	3400	5300	68200	68840	106200	107400	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.

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 Wire & Cable Products
Lahore

Reference # CED/TFL **34720** (Dr. Safer Abbass)
Reference of the request letter # Nil

Dated: 20-02-2020
Dated: 20-02-2020

Tension Test Report (Page – 1/1)

Date of Test 21-02-2020
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	Max. Elongation (cm)
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	437.0	9800	96.14	11000	107.91	>3.50	2.30
2	12.70 (1/2")	775.0	778.0	18400	180.50	20100	197.18	>3.50	2.50
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two sample for Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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