



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 Model Steel
Lahore

Reference # CED/TFL **32686** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 25-02-2019
Dated: 21-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
Gauge length 8 inches
Description M.S Wire Rod Tensile Test

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	0.193	7	6.82	-----	0.057	1100	1700	-----	42780	-----	66200	1.70	21.3	
2	0.176	6	6.52	-----	0.052	800	1100	-----	34080	-----	46900	2.00	25.0	
3	0.134	5	5.69	-----	0.039	1000	1200	-----	55940	-----	67200	0.40	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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,
 Deputy Director (Maint)
 National Highway Authority
 Construction of Missing & Damaged Precast Slab of Drain Urban Areas at km 1425+500-1429+000, 1432+000 – 1435+500, 1448+500, 1451+000 & 1472+500-1475+000 (NBC/SBC) on N-5
 Reference # CED/TFL **32687** (Dr. Waseem Abbas) Dated: 25-02-2019
 Reference of the request letter # Lab/DD(Maint)/WZD/NHA/19/329 Dated: 21-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
 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	0.412	10	9.98	0.11	0.121	4200	6200	84200	76400	124300	112800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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To,
 Chief Executive
 Unique Engineering Consultants
 Lahore

Reference # CED/TFL **32690** (Dr. Waseem Abbas)
 Reference of the request letter # Nil

Dated: 25-02-2019
 Dated: 01-01-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
 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	0.370	3/8	0.372	0.11	0.109	4100	5100	82200	83000	102200	103300	1.00	12.5	
2	0.369	3/8	0.372	0.11	0.108	4200	5100	84200	85350	102200	103700	1.00	12.5	
3	0.371	3/8	0.373	0.11	0.109	4100	5100	82200	82790	102200	103000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S A.S Enterprises
Lahore
(US Apparel & Textile Mills Ltd)(AA Associates)(Afco)

Reference # CED/TFL **32693** (Dr. Waseem Abbas)
Reference of the request letter # USD/ASE/10

Dated: 25-02-2019
Dated: 25-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
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	0.406	10	9.90	0.11	0.119	3700	5000	74200	68320	100200	92400	1.20	15.0	
2	0.417	10	10.03	0.11	0.122	3900	5200	78200	70200	104200	93600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Manager Purchase
 Bismillah Developers
 Lahore

Reference # CED/TFL **32694** (Dr. Waseem Abbas)
 Reference of the request letter # Nil

Dated: 25-02-2019
 Dated: 25-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
 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	0.374	3/8	0.374	0.11	0.110	4100	5300	82200	82140	106200	106200	1.00	12.5	
2	0.375	3/8	0.375	0.11	0.110	4100	5300	82200	81950	106200	106000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
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To,
 Project Manager (Broadway Heights)
 Q-Link Property Management Pvt. Ltd
 Const. Of Broadway Heights 1 at Northern Extension, Bahria Orchard, Lahore
 (FF Steel)

Reference # CED/TFL **32695** (Dr. Waseem Abbas)
 Reference of the request letter # QLPM-BH1-07

Dated: 25-02-2019
 Dated: 25-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
 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	0.412	3/8	0.393	0.11	0.121	3900	5400	78200	70970	108200	98300	1.30	16.3	
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.	
Note: only one samples 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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To,
Chief Resident Engineer
Trimmu Panjnad Barrages Consultants
Trimmu and Panjnad Barrages Improvement Project (TPBIP)

Reference # CED/TFL **32696** (Dr. Waseem Abbas)
Reference of the request letter # TPBC/RE/TECH/102

Dated: 25-02-2019
Dated: 23-02-2019

Tension Test Report (Page – 1/2)

Date of Test 26-02-2019
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	784	18400	180.50	20300	199.14	199	>3.50	20269
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample for Test										

Witness by Attique Malik (NESPAK)

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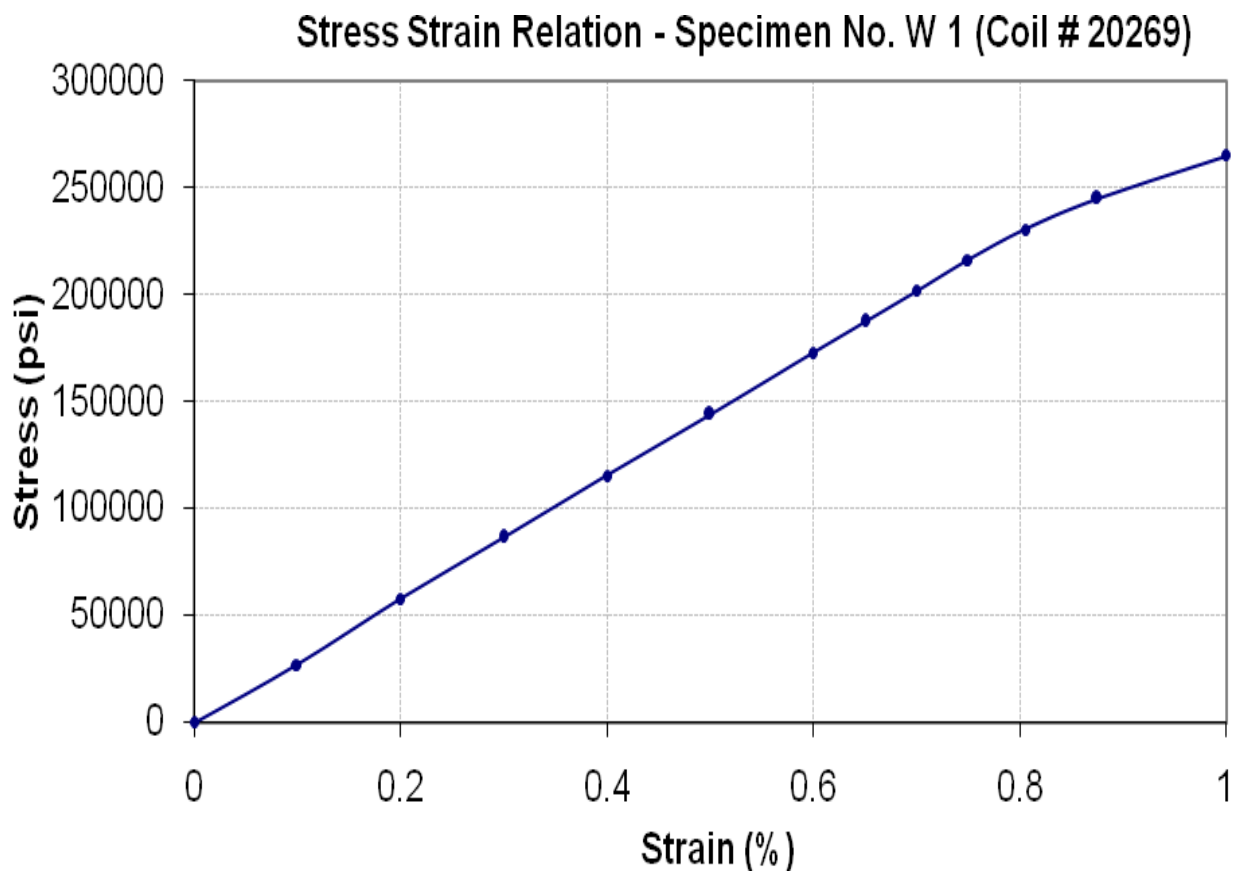
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Trimmu Panjnad Barrages Consultants
Trimmu and Panjnad Barrages Improvement Project (TPBIP)

Reference # CED/TFL **32696** (Dr. Waseem Abbas)
Reference of the request letter # TPBC/RE/TECh/102

Dated: 25-02-2019
Dated: 23-02-2019

Graph (Page – 2/2)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
M/S Christian Fellowship of Pakistan
Lahore

Reference # CED/TFL **32697** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 25-02-2019
Dated: 25-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
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	0.365	3/8	0.369	0.11	0.107	3800	5000	76200	78170	100200	102900	1.00	12.5	
2	0.382	3/8	0.378	0.11	0.112	3900	5000	78200	76490	100200	98100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Deputy Director (Q.C.D)
 WASA, LDA, Lahore
 (Construction of Pre-Cast Boundary Wall at South West (Babu Sabu) Waste Water Treatment Plant)(M/s Abbas Enterprises)

Reference # CED/TFL **32698** (Dr. Waseem Abbas)
 Reference of the request letter # QCD/157

Dated: 25-02-2019
 Dated: 22-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
 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	0.378	3/8	0.376	0.11	0.111	3400	5100	68200	67420	102200	101200	1.20	15.0	
2	0.379	3/8	0.376	0.11	0.111	3300	5000	66200	65360	100200	99100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

Ref: CED/TFL/02/32707

Dated: 26-02-19

To
Chief Engineer
Air One Pvt Ltd
Lahore Cantt

Subject: - AIRCRAFT JACKS FOR LOAD TEST

Reference to your letter no. AO/FFL/ADM/03/2019-1, Dated: 25/02/2019 on the above mentioned subject. Four aircraft jacks as received by us have been tested. The results are as follows.

Sr. No.	Jack No.	Applied Load (Ton)	Sustained Load for 5 minutes (Ton)
1	Aircraft Main Jack P/N 02-1036-0111 S/N 2083140402	10	10
2	Aircraft Main Jack P/N 02-1036-0111 S/N 2083140401	10	9
3	Aircraft Nose Jack P/N 02-1032-0111 S/N 4645130201	10	7.5
4	Aircraft Jack P/N 02-7813C0100 S/N 8237140307	12	12

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To,
 Manager QA/QC Department
 Bahria Town, Lahore
 Boundary Wall at Alamghir Block Sector "F" Bahria Town Mohnalwal
 (Mughal Supreme)

Reference # CED/TFL **32709** (Dr. Waseem Abbas)
 Reference of the request letter # QA/QC-Steel-1287

Dated: 26-02-2019
 Dated: 25-02-2019

Tension Test Report (Page -1/1)

Date of Test 26-02-2019
 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	3700	4900	74200	75080	98200	99500	1.00	12.5	
2	0.364	3	0.369	0.11	0.107	3400	4600	68200	70120	92200	94900	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.

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