



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

To,  
 Manager Construction Civil  
 Sitara Chemical Industries Ltd  
 Ware House and Packing Material Store at Stara Chemical Industries Ltd. 32 km Sheikhpura  
 Road, Faisalabad

Reference # CED/TFL **36498** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 03-06-2021  
 Dated: 02-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
 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 <sup>2</sup> )		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	0.407	10	9.92	0.12	0.120	3600	5200	66138	66290	95533	95800	1.40	17.5	
2	0.405	10	9.89	0.12	0.119	3600	5200	66138	66570	95533	96200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia 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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**Pakistan. Ph: 92-42-99029202**

To,  
 Dr. Faisal Shabbir  
 CEO  
 Shabbir Hospital  
 Daska/Sialkot

Reference # CED/TFL **36499** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 03-06-2021  
 Dated: 02-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
 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 <sup>2</sup> )		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	0.384	3/8	0.379	0.11	0.113	3200	4600	64200	62490	92200	89900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/06/36500

Dated: 03-06-2021

Date of Calibration: 07-06-2021

**To**  
**Resident Engineer**  
**NESPAK**  
**Dualization & Improvement of Old Bannu Road / Domail – Khurrum Road Project (P – 01)**

**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/06/36500) (Page – 1/2)**

Reference to your Letter No. 3968/OBR/P-01/RE/GRD/962, dated: 04/05/2021 on the subject cited above. One Hydraulic Jack (Jack No. 093, Pump No. 681 (B1)) as received by us has been calibrated. The results are tabulated as under:

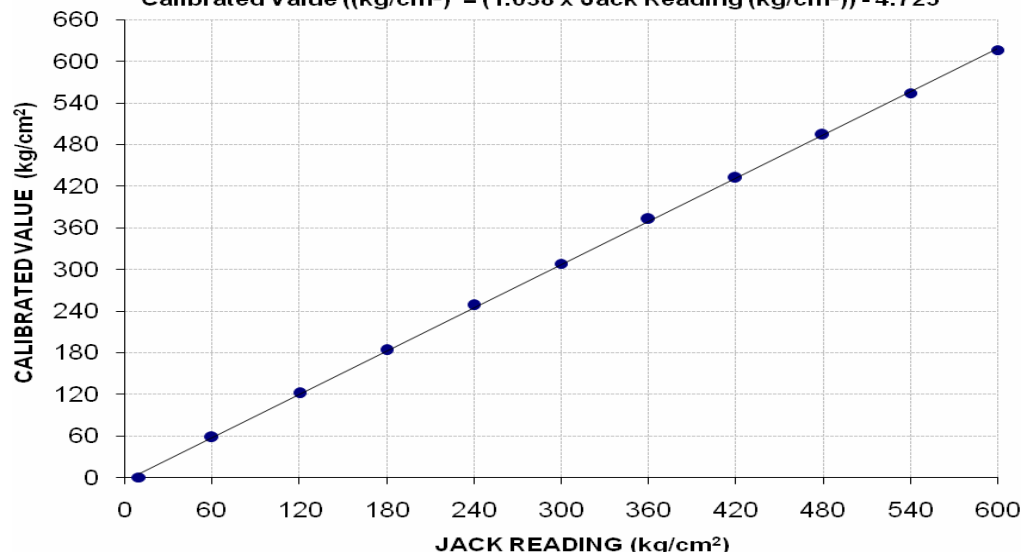
**Total Range : Zero - 1000 (kg/cm<sup>2</sup>)**  
**Calibrated Range : Zero - 600 (kg/cm<sup>2</sup>)**

Hydraulic Jack Reading (kg/cm <sup>2</sup> )	10	60	120	180	240	300	360	420	480	540	600
Calibrated Load (kg)	0	15400	32400	49000	66200	82400	99400	115400	132000	148000	164600
Calibrated Pressure (kg/cm <sup>2</sup> )	0	58	121	183	248	308	372	432	494	554	616

The Ram Area of Jack = 267.2 cm<sup>2</sup>

**Calibration Curve For Jack No. 93**

**Calibrated Value ((kg/cm<sup>2</sup>) = (1.038 x Jack Reading (kg/cm<sup>2</sup>)) - 4.725**



**I/C Testing Laboratories**  
**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**

Ref: CED/TFL/06/36500

Dated: 03-06-2021

Date of Calibration: 07-06-2021

**To**  
**Resident Engineer**  
**NESPAK**  
**Dualization & Improvement of Old Bannu Road / Domail – Khurrum Road Project (P – 01)**

**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/06/36500) (Page – 2/2)**

Reference to your Letter No. 3968/OBR/P-01/RE/GRD/962, dated: 04/05/2021 on the subject cited above. One Hydraulic Jack (Jack No. 77, Pump No. 185 (B1)) as received by us has been calibrated. The results are tabulated as under:

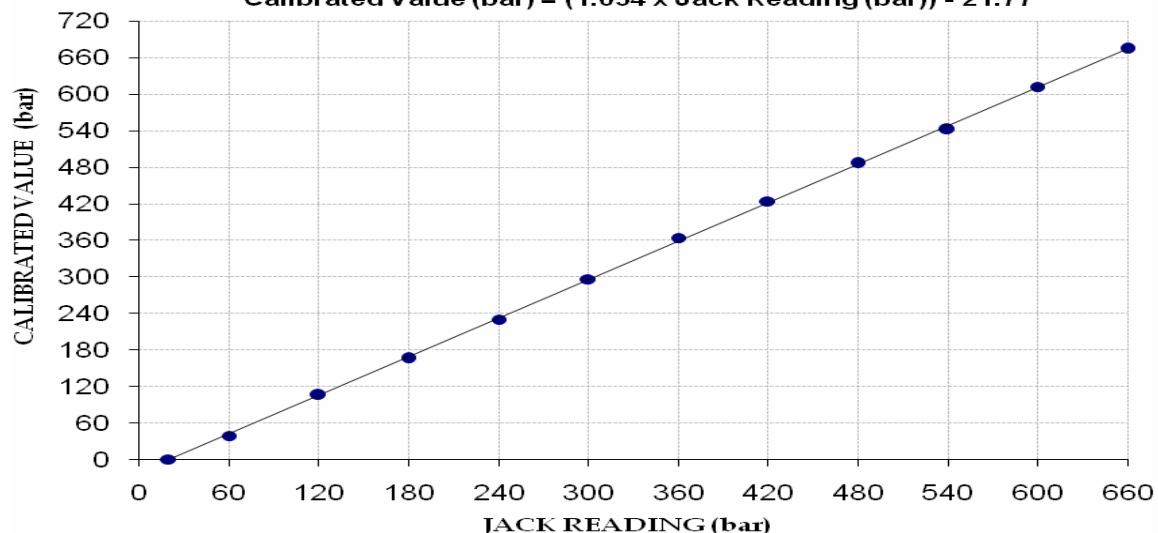
**Total Range : Zero - 1000 (bar)**  
**Calibrated Range : Zero - 660 (bar)**

Hydraulic Jack Reading (bar)	20	60	120	180	240	300	360	420	480	540	600	660
Calibrated Load (kg)	0	10600	28800	45200	62600	80600	99200	115400	132400	147600	166600	183600
Calibrated Pressure (bar)	0	39	106	166	230	296	364	424	486	542	611	674

The Ram Area of Jack =  $267.2 \text{ cm}^2$

**Calibration Curve For Jack No. 77**

**Calibrated Value (bar) =  $(1.054 \times \text{Jack Reading (bar)}) - 21.77$**



**I/C Testing Laboratories**  
**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,  
Resident Engineer (The Engineer Representative)  
ACE – Jv Pavron  
F/S, Design and Reconstruction of RCC Bridges, Sh: Package-II Kanawar Bridge on Charsadda-Tangi Road alongwith Additional of 1.25 km Charsadda Tangi Road (from Tangi Bazar to Abazai)

Reference # CED/TFL **36502** (Dr. Qasim Khan)  
Reference of the request letter # ACE/RE/KB&CTR/084

Dated: 03-06-2021

Dated: 01-06-2021

**Tension Test Report** (Page -1/4)

Date of Test 07-06-2021  
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	780.0	17500	171.68	19600	192.28	199	>3.50	22592
2	12.70 (1/2")	775.0	781.0	17200	168.73	19700	193.26	198	>3.50	22599
3	12.70 (1/2")	775.0	782.0	18300	179.52	19800	194.24	199	>3.50	22600
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

**Only three 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.**

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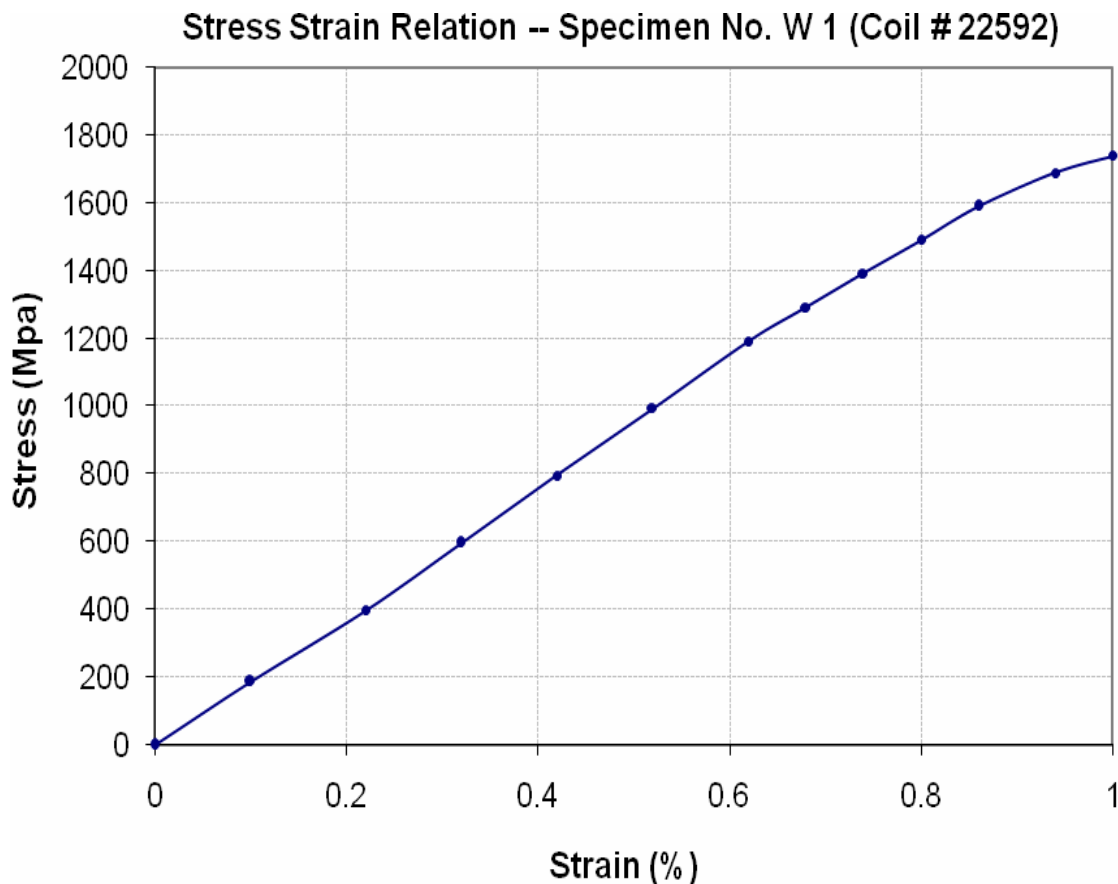
To,  
Resident Engineer (The Engineer Representative)  
ACE – Jv Pavron  
F/S, Design and Reconstruction of RCC Bridges, Sh: Package-II Kanawar Bridge on Charsadda-Tangi Road along with Additional of 1.25 km Charsadda Tangi Road (from Tangi Bazar to Abazai)

Reference # CED/TFL **36502** (Dr. Qasim Khan)  
Reference of the request letter # ACE/RE/KB&CTR/084

Dated: 03-06-2021

Dated: 01-06-2021

**Graph** (Page – 2/4)



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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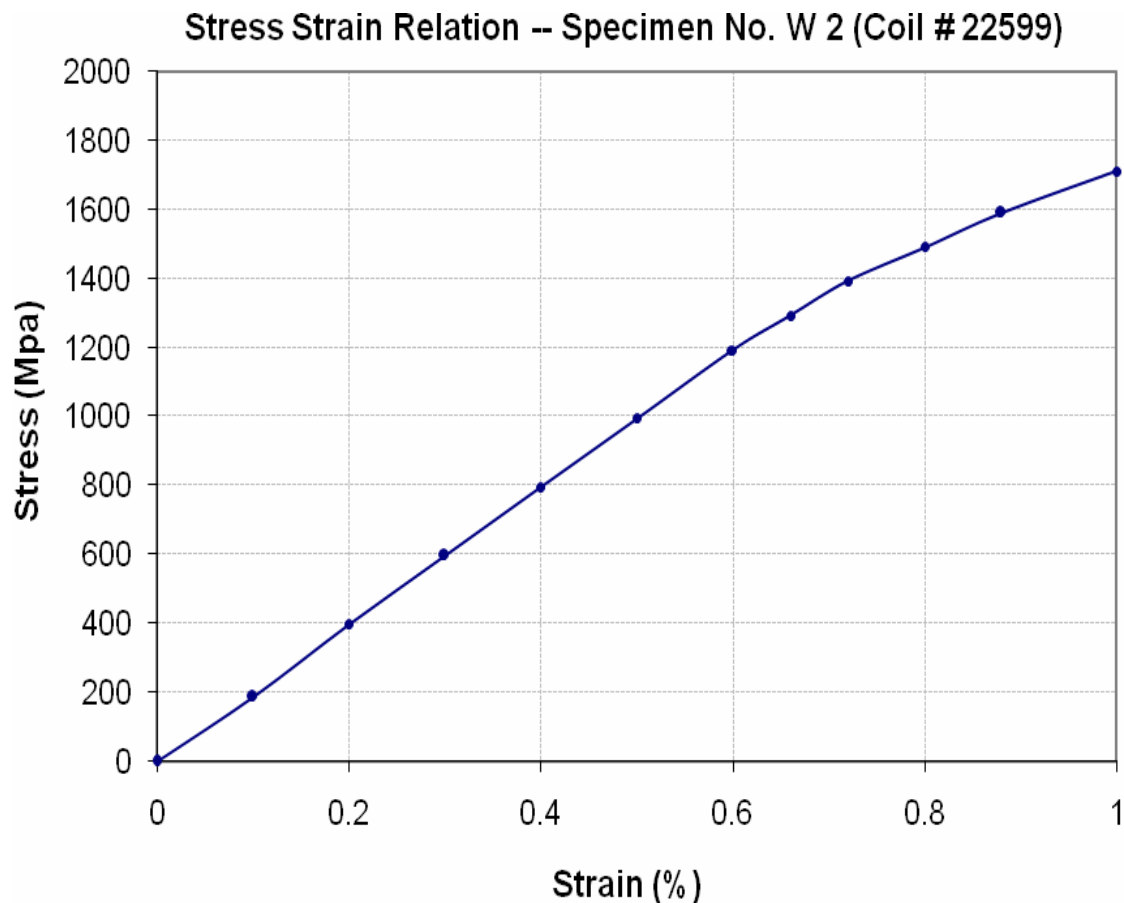
To,  
Resident Engineer (The Engineer Representative)  
ACE – Jv Pavron  
F/S, Design and Reconstruction of RCC Bridges, Sh: Package-II Kanawar Bridge on Charsadda-Tangi Road alongwith Additional of 1.25 km Charsadda Tangi Road (from Tangi Bazar to Abazai)

Reference # CED/TFL **36502** (Dr. Qasim Khan)  
Reference of the request letter # ACE/RE/KB&CTR/084

Dated: 03-06-2021

Dated: 01-06-2021

**Graph** (Page – 3/4)



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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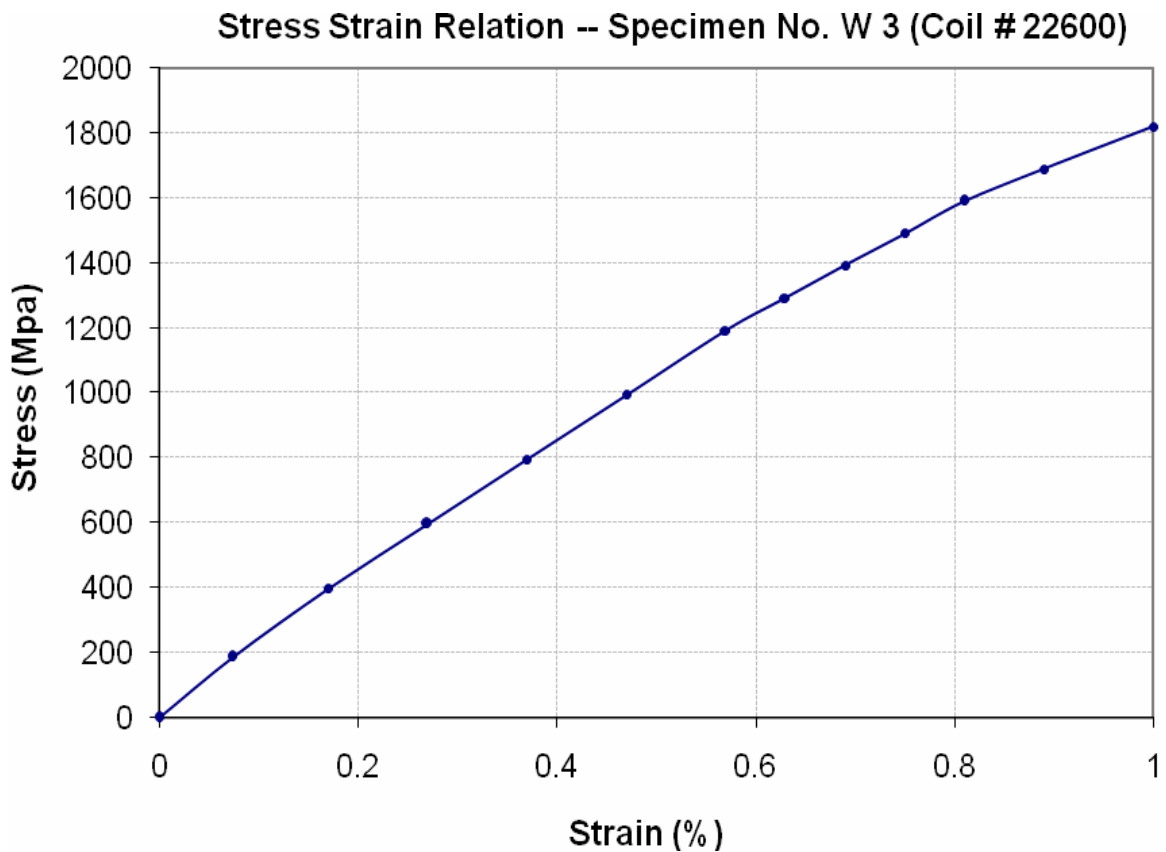
To,  
Resident Engineer (The Engineer Representative)  
ACE – Jv Pavron  
F/S, Design and Reconstruction of RCC Bridges, Sh: Package-II Kanawar Bridge on Charsadda-Tangi Road alongwith Additional of 1.25 km Charsadda Tangi Road (from Tangi Bazar to Abazai)

Reference # CED/TFL **36502** (Dr. Qasim Khan)  
Reference of the request letter # ACE/RE/KB&CTR/084

Dated: 03-06-2021

Dated: 01-06-2021

**Graph** (Page – 4/4)



**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,  
 Manager Civil Works  
 Mishat Mills Limited  
 Construction of Nishat Stitching Extension Unit 31, Lahore  
 (Ittefaq Building Solutions Pvt Ltd)

Reference # CED/TFL **36504** (Dr. Qasim Khan)  
 Reference of the request letter # NDF/SUE/0102

Dated: 03-06-2021  
 Dated: 03-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
 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 <sup>2</sup> )		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	0.383	10	9.61	0.12	0.112	3300	4600	60627	64680	84510	90200	1.30	16.3	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
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**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 R.E NESPAK  
 Sahiwal Division  
 Punjab Economic Stimulus Programme (Rural Accessibility Programme Phase-II for the  
 Financial Year 202-21

Reference # CED/TFL **36505** (Dr. Qasim Khan)  
 Reference of the request letter # Sahiwal/RAPII/WA/03

Dated: 03-06-2021  
 Dated: 21-05-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
 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 <sup>2</sup> )		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	2900	3600	58200	55560	72200	69000	1.70	21.3	
2	0.389	3	0.381	0.11	0.114	3000	3600	60200	57850	72200	69500	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
M/S CM Engineering (Pvt) Ltd  
Lahore  
(Long Haul Metro Project Site ID : 8893, 8716, 8098, 8109, 8695)

Reference # CED/TFL **36506** (Dr. Qasim Khan)  
Reference of the request letter # CME/Steel/CMPAK/304

Dated: 03-06-2021  
Dated: 02-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
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 <sup>2</sup> )		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	0.358	10	9.29	0.12	0.105	3100	4500	56952	64970	82673	94400	1.40	17.5	
2	0.370	10	9.45	0.12	0.109	3300	4900	60627	66900	90021	99400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
M/S CM Engineering (Pvt) Ltd  
Lahore  
(Project CMPAK Site ID : 52900, 52946, 52898, 52945, 52903, 52897, 52899, 52784, 52670, 53001, 52891, 53163, 52151, 51769, 50748)

Reference # CED/TFL **36507** (Dr. Qasim Khan)  
Reference of the request letter # CME/Steel/CMPAK/301

Dated: 03-06-2021  
Dated: 01-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
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 <sup>2</sup> )		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	0.377	10	9.54	0.12	0.111	3100	4700	56952	61610	86347	93500	1.50	18.8	
2	0.360	10	9.32	0.12	0.106	3100	4500	56952	64650	82673	93900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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**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,  
 Resident Engineer  
 NESPAK  
 Punjab Intermediate Cities Improvement Investment Program (PICIP),  
 Consultancy Services for Engineering, Procurement and Construction Management  
 Rehabilitation / Improvement of Water Supply System Sahiwal - LOT 1

Reference # CED/TFL **36513** (Dr. Qasim Khan)  
 Reference of the request letter # 3976/11/MT/Lot-1/88

Dated: 04-06-2021  
 Dated: 28-05-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
 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 <sup>2</sup> )		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	4.245	10	1.260	1.27	1.248	45000	57200	78100	79490	99300	101100	1.50	18.8	Mughal Steel
2	4.246	10	1.261	1.27	1.248	44600	56600	77500	78770	98300	100000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

**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](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,  
M/S Haris & Co  
Lahore  
(Edotco B2S Project)

Reference # CED/TFL **36515** (Dr. Qasim Khan)  
Reference of the request letter # 0013

Dated: 04-06-2021  
Dated: 03-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
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 <sup>2</sup> )		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	0.376	10	9.52	0.12	0.110	3400	4800	62464	67850	88184	95800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia 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**  
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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Project Manager  
 Liberty Builders  
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL 36517 (Dr. Asad Ali)  
 Reference of the request letter # ST/UET/20210607

Dated: 07-06-2021  
 Dated: 07-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-06-2021  
 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 <sup>2</sup> )		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	0.382	0.11	0.115	3360	5120	67400	64470	102600	98300	1.20	15.0	Batala Premium
2	0.376	3	0.375	0.11	0.110	3460	5220	69400	69020	104600	104200	1.10	13.8	
3	0.377	3	0.376	0.11	0.111	3360	5050	67400	66850	101200	100500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
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.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples