



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
OCL FIAP (ER-OCL)
Re-construction of Rigid Runway at Faisalabad International Airport
(SJ Steel)

Reference # CED/TFL **36841** (Dr. Safer Abbass)

Dated: 06-08-2021

Reference of the request letter # OCL/C-126/CAA-FIAP/2021/0508/645 Dated: 05-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021

Gauge length 8 inches

Description Plain Steel Bar Tensile and Bend Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(inch)	(in ²)	(kg)	(kg)	(Psi)	(Psi)	(inch)		
1	50	1.34	1.407	38400	67400	60156	105587	1.50	18.75	
2	50	1.35	1.432	39400	67400	60648	103748	1.40	17.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

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Bend Test

50mm Dia Bar Reduced 35mm Dia 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
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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,
 General Manager (Projects)
 Development Consultancy Services (Pvt) Ltd
 Establishment of Chiniot Campus of Government College University, Faisalabad

Reference # CED/TFL **36844** (Dr. Ali Ahmed) Dated: 09-08-2021
 Reference of the request letter # DCS/RE/GCUF/2021/0803/265 Dated: 03-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.377	3/8	0.376	0.11	0.111	3800	4800	76200	75560	96200	95500	1.30	16.3	FF Steel
2	0.386	3/8	0.380	0.11	0.114	3800	4900	76200	73780	98200	95200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer-2
 ACES (Pvt) Ltd
 Site Office Sector-U, DHA Multan

Reference # CED/TFL **36845** (Dr. Ali Ahmed)
 Reference of the request letter # ACES/DHAM/DEV/SES-V/605

Dated: 09-08-2021
 Dated: 04-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.410	10	9.95	0.12	0.121	3900	5500	71650	71280	101044	100600	1.10	13.8	SJ Steel
2	0.407	10	9.91	0.12	0.120	4200	5700	77161	77460	104719	105200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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To,
 Sub Divisional Officer
 Highway Sub Division Taunsa
 (Construction of Pile Foundation Bridge at Charha Mouza Jalal Indus River Creek Length =250 Rft)

Reference # CED/TFL **36846** (Dr. Ali Ahmed)
 Reference of the request letter # 675/T

Dated: 09-08-2021
 Dated: 04-06-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.387	3	0.381	0.11	0.114	4000	5400	80200	77410	108200	104500	1.00	12.5	
2	0.385	3	0.379	0.11	0.113	3900	5200	78200	76040	104200	101400	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer
PEAS Consulting (Pvt) Ltd
Yakmach to Kharan Road Project (from km. 100+000 – 150+000 Section III & km 150+000 – 198+372 Section - IV)(WMI)

Reference # CED/TFL **36847** (Dr. Ali Ahmed)

Dated: 09-08-2021

Reference of the request letter # RE/YK/Section –I-II-III & IV/21/465

Dated: 06-08-2021

Tension Test Report (Page -1/4)

Date of Test 11-08-2021

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	799.0	17000	166.77	18700	183.45	199	>3.50	xx
2	12.70 (1/2")	775.0	797.0	17000	166.77	17500	171.68	198	<3.50 Not ok	xx
3	12.70 (1/2")	775.0	796.0	17200	168.73	18600	182.47	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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 Laboratories
UET Lahore, Pakistan.

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To,
Resident Engineer
PEAS Consulting (Pvt) Ltd
Yakmach to Kharan Road Project (from km. 100+000 – 150+000 Section III & km 150+000 – 198+372 Section - IV)(WMI)

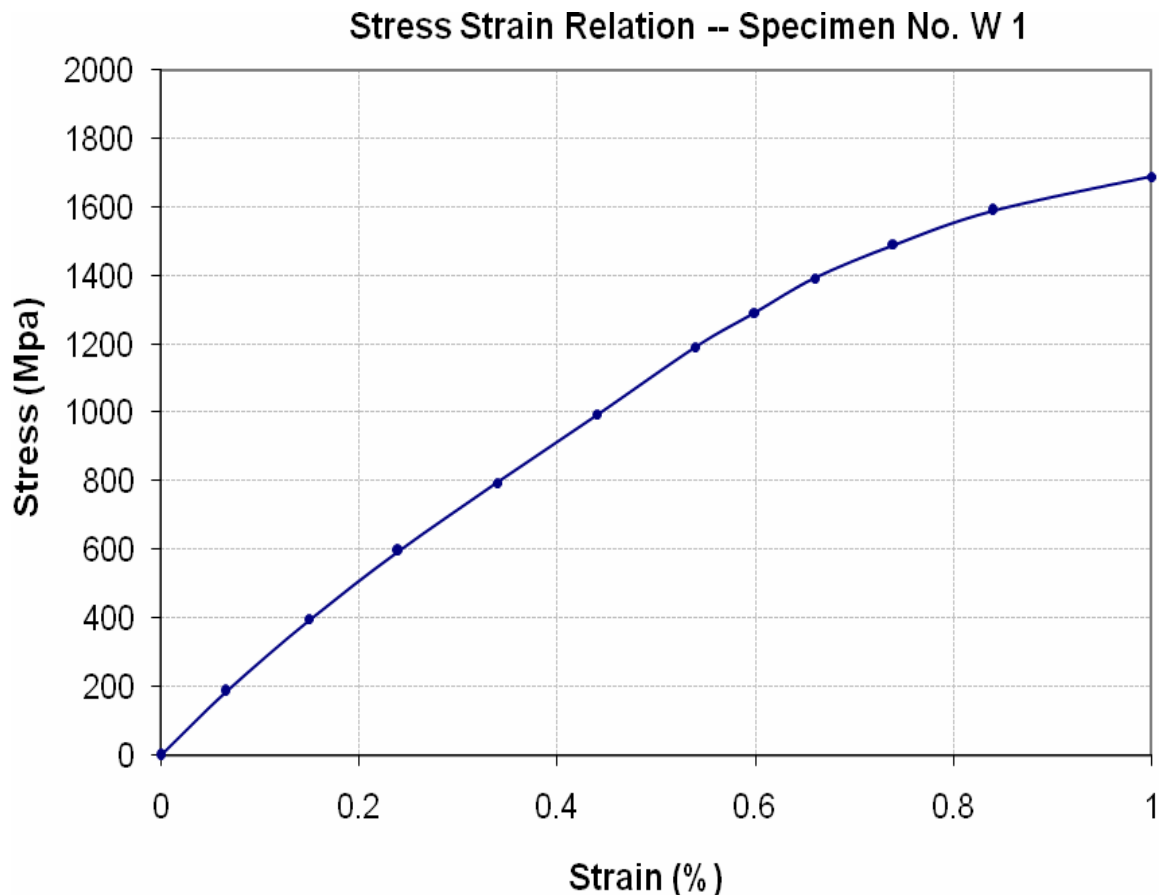
Reference # CED/TFL **36847** (Dr. Ali Ahmed)

Dated: 09-08-2021

Reference of the request letter # RE/YK/Section –I-II-III & IV/21/465

Dated: 06-08-2021

Graph (Page – 2/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Department of Civil Engineering
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To
Resident Engineer
PEAS Consulting (Pvt) Ltd
Yakmach to Kharan Road Project (from km. 100+000 – 150+000 Section III & km 150+000 – 198+372 Section - IV)(WMI)

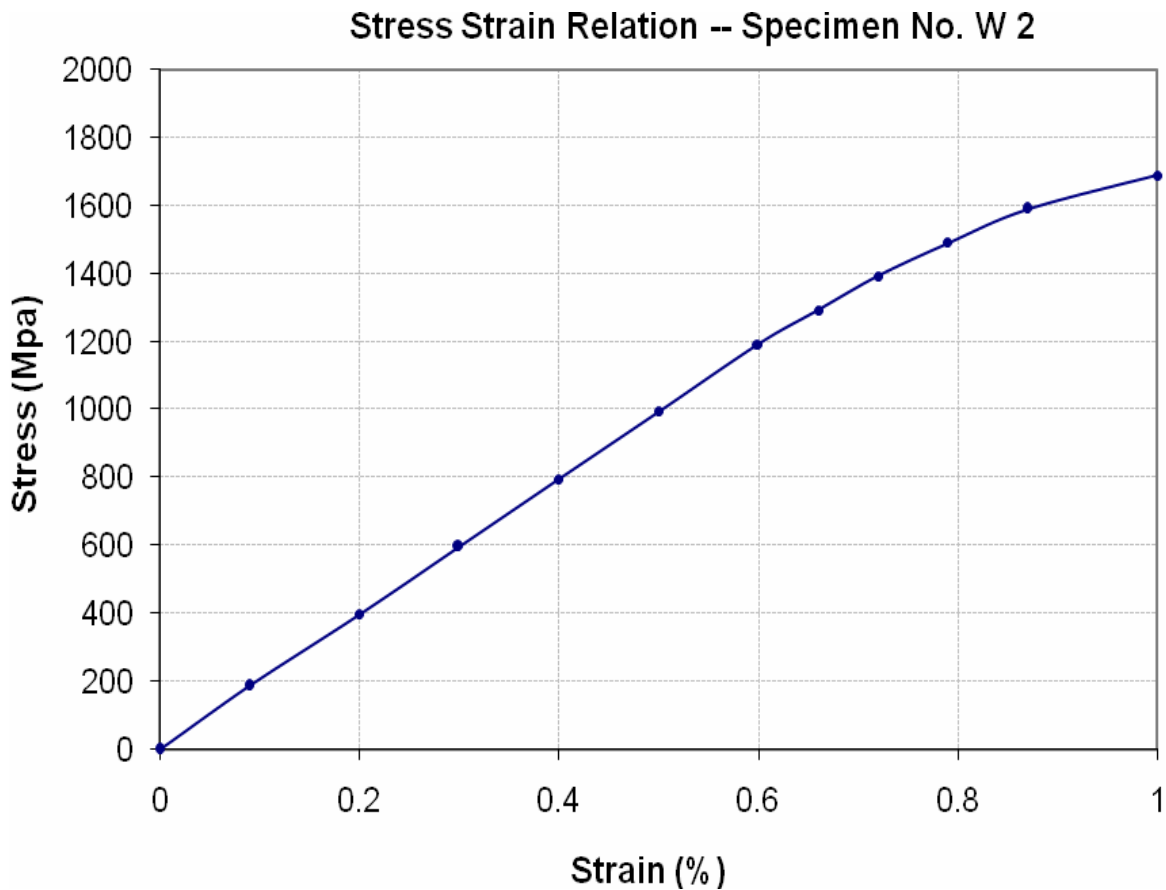
Reference # CED/TFL **36847** (Dr. Ali Ahmed)

Dated: 09-08-2021

Reference of the request letter # RE/YK/Section –I-II-III & IV/21/465

Dated: 06-08-2021

Graph (Page – 3/4)



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
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To,
Resident Engineer
PEAS Consulting (Pvt) Ltd
Yakmach to Kharan Road Project (from km. 100+000 – 150+000 Section III & km 150+000 – 198+372 Section - IV)(WMI)

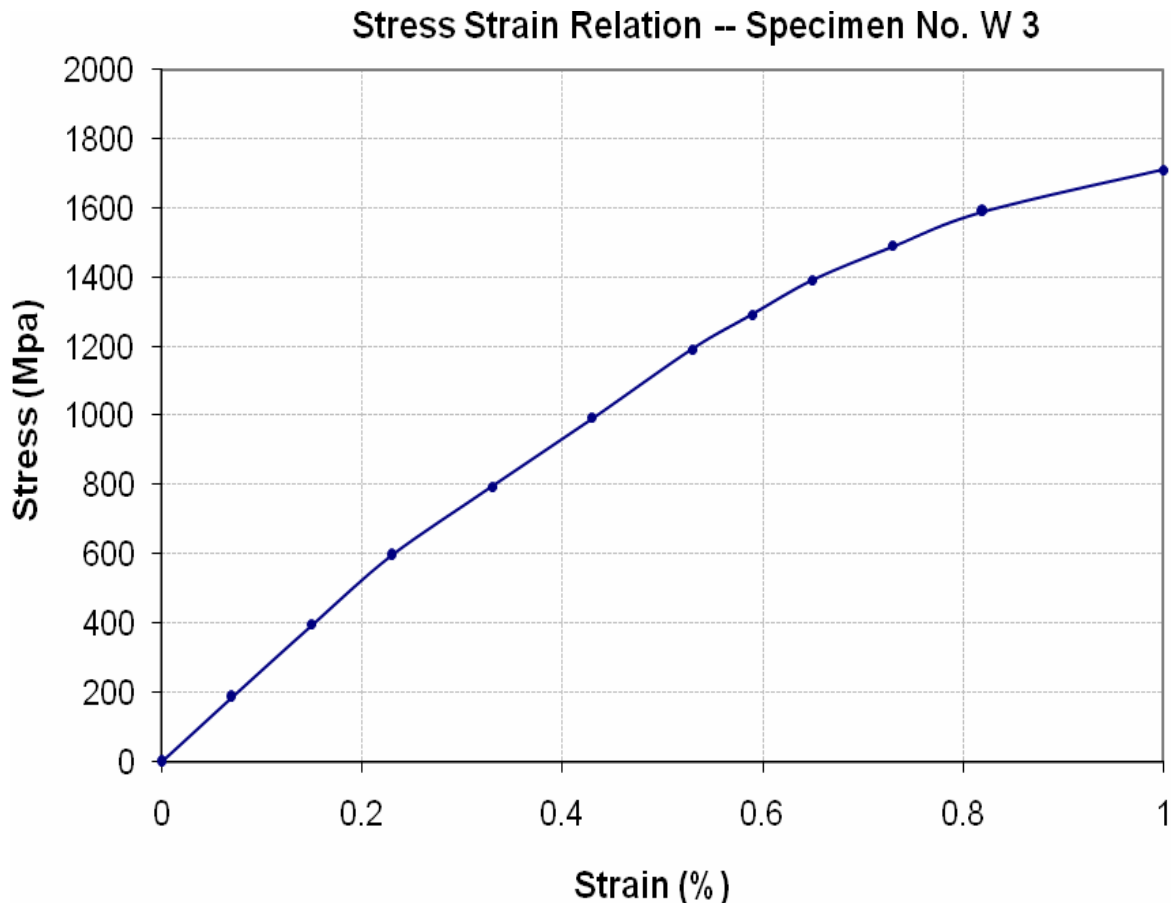
Reference # CED/TFL **36847** (Dr. Ali Ahmed)

Dated: 09-08-2021

Reference of the request letter # RE/YK/Section –I-II-III & IV/21/465

Dated: 06-08-2021

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
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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Const of Infra Dev Works at Sector-KK, DHA Phase-IV (NBPOCHS)) – (M/s Reliable)

Reference # CED/TFL **36850** (Dr. Ali Ahmed)
 Reference of the request letter # 408/241/E/Lab/O.H-12/116

Dated: 10-08-2021
 Dated: 09-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.376	3	0.375	0.11	0.111	3700	4800	74200	73750	96200	95700	1.20	15.0	Kamran Steel
2	0.371	3	0.372	0.11	0.109	4000	5200	80200	80960	104200	105300	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.

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
 Pillar & Sons
 Rumanza Golf & Country Club, DHA Multan

Reference # CED/TFL **36852** (Dr. Ali Ahmed)
 Reference of the request letter # P&S/OTH/GEN/00036

Dated: 10-08-2021
 Dated: 07-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.381	3	0.378	0.11	0.112	3700	4800	74200	72760	96200	94400	1.30	16.3	F.F Steel
2	0.378	3	0.376	0.11	0.111	3600	4800	72200	71350	96200	95200	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

Ref: CED/TFL/08/36854

Dated: 10-08-2021

Dated of Test: 11-08-2021

To
M/S SK Concrete & Construction
Pabbi

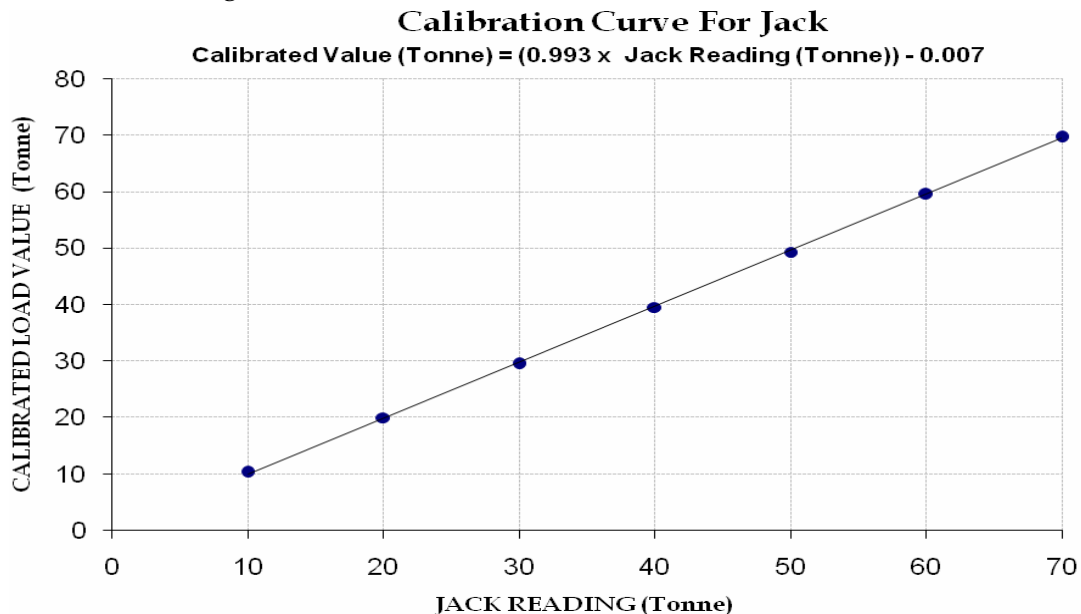
Subject: - **CALIBRATION OF HYDRAULIC JACK WITH GAUGE**
(MARK: TFL/08/36854)

Reference to your Letter No. Nil, Dated: 10/08/2021 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 100 (Tonne)
Calibrated Range : Zero - 80 (Tonne)

Hydraulic Jack Reading (Tonne)	10	20	30	40	50	60	70	80	
Calibrated Load	kg	10300	20000	29500	39500	49300	59500	69600	79800
	Tonne	10.30	20.00	29.50	39.50	49.30	59.50	69.60	79.80

1 Tonne = 1000 kg



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
 Chakwal
 (Establishment of Chakwal ADP No. 66 for The Year 2020-21 (Group No. 3)
 Construction of Female Student Hostel/ Student Services & Medical Centre Ground / First Floor
 with Additional Item & Architectural Features)
 Reference # CED/TFL **36855** (Dr. Ali Ahmed) Dated: 10-08-2021
 Reference of the request letter # 951/CKL Dated: 15-07-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.379	3/8	0.377	0.11	0.111	3700	5000	74200	73250	100200	99000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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
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To,
 Resident Engineer
 AZ Engineering Associates
 Construction of Multi-Purpose Complex (MPC) Building (Phase-1) at Quaid-e-Azam Business Park (QABP) on M-2, Sheikhpura

Reference # CED/TFL **36856** (Dr. Ali Ahmed)
 Reference of the request letter # AZE/QABP/RE/60

Dated: 10-08-2021
 Dated: 07-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
 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 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	0.376	3	0.375	0.11	0.111	3100	5400	62200	61750	108200	107600	1.00	12.5	FS Steel
2	0.375	3	0.375	0.11	0.110	3100	5400	62200	61980	108200	108000	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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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 Style Textile
Lahore
(Style Raiwind)

Reference # CED/TFL **36857** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 10-08-2021
Dated: 04-08-2021

Tension Test Report (Page -1/1)

Date of Test 11-08-2021
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 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	0.395	10	9.77	0.12	0.116	4800	5700	88184	91030	104719	108100	1.00	12.5	
2	0.395	10	9.76	0.12	0.116	4400	5400	80835	83610	99207	102700	1.00	12.5	
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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:

- 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