LAHOSE .

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 Al-Abdullah Constructors (Pvt) Ltd Karachi

Reference # CED/TFL 1300 (Dr. Usman Akmal)

Reference of the request letter # Nil

Dated: 20-04-2022

Tension Test Report (Page – 1/1)

Date of Test 26-04-2022 Gauge length 640 mm

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

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause		Breal strength (6.	clause	Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rema
1	9.53 (3/8")	432.0	435.0	10000	98.10	11100	108.89	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
_	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only one sample for Test

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: <u>CED/TFL/04/1305</u> Dated: <u>21-04-2022</u>

Date of Test: 26-04-2022

To,

Resident Engineer NESPAK

Dualization of Road from Mandibauddin City to Srai Alamgir Canal Pull Main GT Road

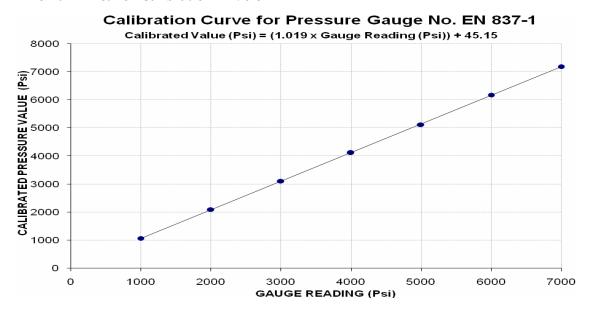
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/1305) (Page # 1/1)

Reference to your Letter No. SA-466D/03/KT/01/37, Dated: 20/04/2022 on the subject cited above. One Pressure Gauge No. 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 15000 (Psi) Calibrated Range : Zero - 7000 (Psi)

Pressure Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000	7000
Calibrated Load (kg)	14800	29200	43200	57200	71200	86000	100000
Calibrated Pressure (Psi)	1063	2098	3103	4109	5115	6178	7183

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,
Resident Engineer
Engineering Services Consultants (Pvt) Ltd
Establishment of Center of Execellence Boys at Chakwal

Reference # CED/TFL 1307 (Dr. M Rizwan Riaz)

Reference of the request letter # RE/ESC/COE/2022-34

Dated: 21-04-2022

Dated: 18-04-2022

Tension Test Report (Page -1/2)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diam Si			rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.393	3	0.384	0.11	0.116	3720	5200	74600	70940	104200	99200	1.40	17.5	e e
2	0.392	3	0.383	0.11	0.115	3690	5120	74000	70530	102600	97900	1.30	16.3	FF Steel
-	-	1	-	-	-	-	-	-	-	-	-	-	-	
-	-		-	-	-	-	_	-	-	_	-	-	-	
-	-	-	-	-	-	-	_	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	_	-	
			N	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1	1	
							Bend T	'est	-		-			
#3	Bar Ben	d Test T	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,
Resident Engineer
Engineering Services Consultants (Pvt) Ltd
Establishment of Center of Execellence Boys at Chakwal

Reference # CED/TFL 1307 (Dr. M Rizwan Riaz)

Reference of the request letter # RE/ESC/COE/2022-35

Dated: 21-04-2022

Dated: 18-04-2022

Tension Test Report (Page -2/2)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.392	3	0.383	0.11	0.115	3690	5450	74000	70600	109200	104300	1.50	18.8	e l
2	0.379	3	0.377	0.11	0.112	3830	5780	76800	75680	115900	114300	1.10	13.8	Zia Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		T	No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	ī	ı	
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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.
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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. 15 Lahore (Forest Complex at Ravi Road Lahore)

Reference # CED/TFL <u>1308 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # 1691

Dated: 21-04-2022

Dated: 18-04-2022

Tension Test Report (Page -1/2)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.378	3/8	0.376	0.11	0.111	4180	4960	83800	82830	99400	98300	1.00	12.5	
2	0.377	3/8	0.376	0.11	0.111	4130	4940	82800	82070	99000	98200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
					Not	e: only t	wo sampl	les for te	nsile test	ı	ı	1		1
							Dand T	l'ast						
							Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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.
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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. 15 Lahore

(Construction of Court Rooms for Judicial Officers at Model Town Lahore)(Group No. 1 & 2)

Reference # CED/TFL 1308 (Dr. M Rizwan Riaz)

Reference of the request letter # 1692

Dated: 21-04-2022

Dated: 18-04-2022

Tension Test Report (Page -2/2)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.379	3/8	0.376	0.11	0.111	4200	4960	84200	83170	99400	98300	1.10	13.8	
2	0.379	3/8	0.377	0.11	0.112	4280	5070	85800	84590	101600	100300	1.00	12.5	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			ī		Not	e: only t	wo sampl	es for ter	isile test	ı	ı	I		
							Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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.
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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. 12 Lahore

(Establishment of Govt Technical Training Institute for Women, Sabzazar District Lahore)

Reference # CED/TFL 1309 (Dr. M Rizwan Riaz)

Reference of the request letter # 151-152

Dated: 21-04-2022

Dated: 18-04-2022

Tension Test Report (Page -1/1)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.378	3/8	0.376	0.11	0.111	3840	5070	77000	76120	101600	100500	1.00	12.5	
2	0.371	3/8	0.373	0.11	0.109	3920	4960	78600	79150	99400	100200	1.00	12.5	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			ı		Not	e: only t	wo sampl	es for ter	isile test	ı	ı	I		
							Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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.
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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 M. Saleem Construction Company Sheikhupura

Reference # CED/TFL <u>1313 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # Nil

Dated: 22-04-2022

Tension Test Report (Page -1/1)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)	Aı (iı	rea 1 ²)	Yield load	Breaking Load		Stress si)	Ultimat (p		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.398	3/8	0.386	0.11	0.117	3470	5100	69600	65320	102200	96000	1.30	16.3	
-		-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	1	-	-	1	-	-	-	1	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend to	est			
							Bend T	'est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, Project Manager State Grid

Design, Supply, Istallation, Testing & Commissioning of 500kV/D/C Transmission Line Nokhar S/S – Lahore North S/S- Lahore HVDC Switching / Converter Stattion

(Kamran Steel) (Sharaqpur Warehouse)

Reference # CED/TFL <u>1317 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # CET/ADB-301A//SEC-II/UET-22-475

Dated: 25-04-2022

Dated: 25-04-2022

Tension Test Report (Page -1/1)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze	Aı (iı	rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.359	3	0.367	0.11	0.106	3410	4810	68400	71150	96400	100400	1.30	16.3	el
2	0.363	3	0.368	0.11	0.107	3380	5400	67800	69890	108200	111700	1.90	23.8	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	mraı
-	-	-	-	-	-	-	_	-	-	-	-	-	-	Ka
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	No	te: onl	y two sa	amples fo	or tensile	and two	samples	for bend	test	1		
							Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

#3 Bar Bend Test Through 180° is Satisfactory

Witness by Ibrar Ahmed (Jr. Engr. NESPAK)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, Resident Engineer (Labs) Diamer Basha Consultants Group (DBCG) Diamer Basha Dam Project

Reference # CED/TFL 1328 (Dr. Usman Akmal)

Reference of the request letter # DBCG/Lab/PF-JV/2022/018

Dated: 26-04-2022

Dated: 22-04-2022

Tension Test Report (Page – 1/2)

Date of Test 26-04-2022 Gauge length 640 mm

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

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	_	Brea strength (6.	clause	Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa	%	Rema
1	15.24 (0.6")	1102.0	1116.0	24300	238.38	26700	261.93	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.

- 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

SINERING ALA

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 (Labs) Diamer Basha Consultants Group (DBCG) Diamer Basha Dam Project

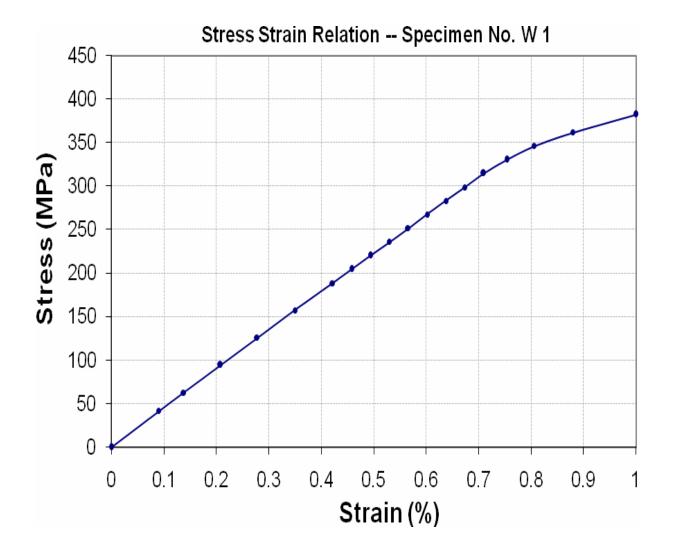
Reference # CED/TFL 1328 (Dr. Usman Akmal)

Reference of the request letter # DBCG/Lab/PF-JV/2022/018

Dated: 26-04-2022

Dated: 22-04-2022

Graph (Page -2/2)



I/C Testing Laboratoires UET Lahore, Pakistan.

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

Ref: CED/TFL/04/1329 Dated: 26-04-2022

Dated: 26-04-2022

To

Resident Engineer (Labs) Diamer Basha Consultants Group (DBCG) Diamer Basha Dam Project

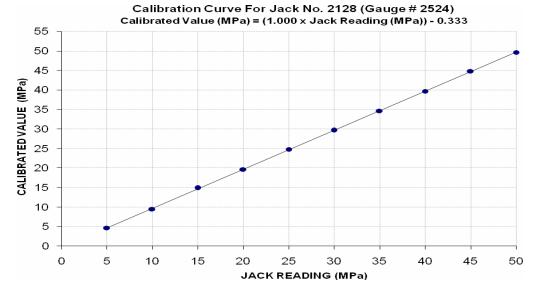
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/1329) (Page -1/4)

Reference to your Letter No. DBCG/Lab/PF-JV/2022/131, dated: 23/04/2022 on the subject cited above. One Hydraulic Jack (Jack No. 2128, Gauge No. 2524) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa) Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (kg)	18000	36400	57200	75600	95200	114000	133200	152400	172200	190800
Calibrated Pressure (Mpa)	4.68	9.47	14.88	19.67	24.76	29.66	34.65	39.64	44.79	49.63

The Ram Area of Jack = 377 cm^2



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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





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

Ref: CED/TFL/04/1329 Dated: 26-04-2022

Dated: 26-04-2022

To

Resident Engineer (Labs) Diamer Basha Consultants Group (DBCG) Diamer Basha Dam Project

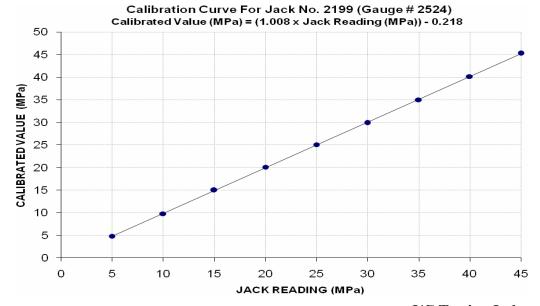
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/1329) (Page -2/4)

Reference to your Letter No. DBCG/Lab/PF-JV/2022/131, dated: 23/04/2022 on the subject cited above. One Hydraulic Jack (Jack No. 2199, Gauge No. 2524) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa) Calibrated Range : Zero - 45 (MPa)

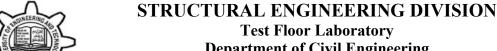
Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	2500	5100	7800	10450	13050	15550	18200	20900	23550
Calibrated Pressure (Mpa)	4.80	9.80	14.98	20.08	25.07	29.87	34.96	40.15	45.24

The Ram Area of Jack = 51.05 cm^2



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/04/1329 Dated: 26-04-2022

Dated: 26-04-2022

To

Resident Engineer (Labs) Diamer Basha Consultants Group (DBCG) Diamer Basha Dam Project

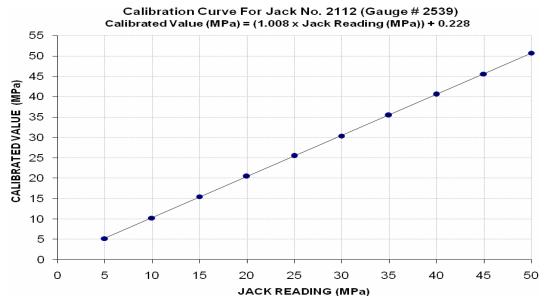
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/1329) (Page -3/4)

Reference to your Letter No. DBCG/Lab/PF-JV/2022/131, dated: 23/04/2022 on the subject cited above. One Hydraulic Jack (Jack No. 2112, Gauge No. 2539) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa) Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (kg)	20000	39400	59600	78600	98000	116800	136200	156000	175200	194800
Calibrated Pressure (Mpa)	5.20	10.25	15.50	20.45	25.49	30.38	35.43	40.58	45.58	50.67

The Ram Area of Jack = 377 cm^2



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

Ref: CED/TFL/04/1329 Dated: 26-04-2022

Dated: 26-04-2022

To

Resident Engineer (Labs) Diamer Basha Consultants Group (DBCG) Diamer Basha Dam Project

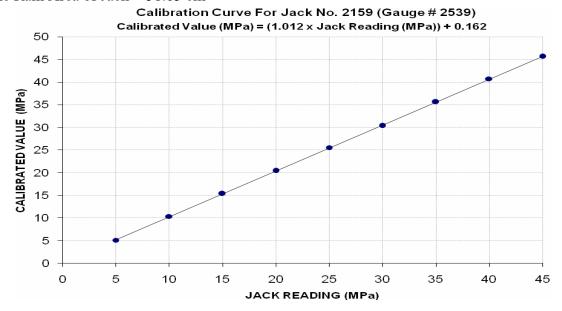
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/1329) (Page -4/4)

Reference to your Letter No. DBCG/Lab/PF-JV/2022/131, dated: 23/04/2022 on the subject cited above. One Hydraulic Jack (Jack No. 2159, Gauge No. 2539) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa) Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	2650	5400	8000	10650	13300	15800	18550	21200	23750
Calibrated Pressure (Mpa)	5.09	10.37	15.37	20.46	25.55	30.35	35.64	40.73	45.63

The Ram Area of Jack = 51.05 cm^2



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

To,
Deputy General Manager Projects
Habib Rafiq Engineering (Pvt.) Limited
Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL 1330 (Dr. Usman Akmal)

Reference of the request letter # HRLE/SKG/2022/021

Dated: 26-04-2022

Tension Test Report (Page -1/1)

Date of Test 26-04-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize am)	Area (in²)		Area (in²)		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃ %	R
1	4.083	32	31.40	1.25	1.200	38000	60800	67020	69780	107232	111700	0.70	8.8	e 8
2	4.340	32	32.37	1.25	1.276	35200	57400	62082	60820	101235	99200	1.60	20.0	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	_	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					No	te: only t	wo samp	le for ten	sile test					
Bend 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 Duplicate Report

To,
Resident Engineer
NESPAK, Lahore
Establishment of Sports Complex at Tajpura/ Ghaziabad (NA-124) Lahore

Reference # CED/TFL **29788, 1336** (Dr. M Rizwan Riaz) Dated: 14-02-2018 Reference of the request letter # 3772/SC/NA-124/MSW/018/25 Dated: 24-01-2018

Tension Test Report (Page -1/1)

Date of Test 16-02-2018 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No. Weight			neter/ ze		rea 1 ²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	Ŗ
1	0.366	3	0.370	0.11	0.108	4810	5400	96400	98460	108200	110600	0.80	10.0	
2	0.368	3	0.371	0.11	0.108	4840	5760	97000	98730	115500	117500	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only two samples for tensile and one sample for bend test													
							Bend T	`est						
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
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