

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

Ref: CED/TFL/11/5956 Dated: 05-11-2024

Dated of Test: 11<u>-11-2024</u>

To

Resident Engineer Zeeruk International (Pvt) Ltd.

Construction of 10th Avenue from I.J.P Road to Srinagar Highway, Islamabad.

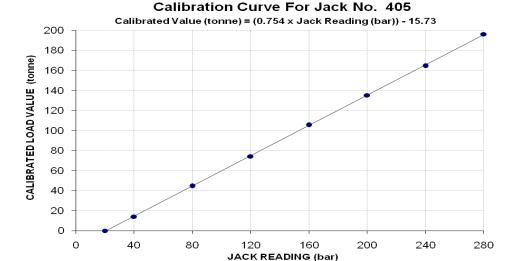
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/5956) (Page -1/2)

Reference to your Letter No. RE/Zeeruk/10thAvenue/2024/408, dated: 30/10/2024 on the subject cited above. One Hydraulic Jack (Jack No. 405, Gauge No. SF-405) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar) Calibrated Range : Zero - 280 (bar)

Hydraulic Jack Re (bar)	eading	20	40	80	120	160	200	240	280
Calibrated Load	(kg)	0	14000	44600	74200	105600	135200	164400	196200
Cambrateu Loau	(tonne)	0	14.00	44.60	74.20	105.60	135.20	164.40	196.20
Calibrated Pressu	0	19	60	99	141	181	220	262	

The Ram Area of Jack $= 734.35 \text{ cm}^2$



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
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Ref: CED/TFL/11/5956 Dated: 05-11-2024

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To

Resident Engineer Zeeruk International (Pvt) Ltd. Construction of 10th Avenue from I.J.P Road to Srinagar Highway, Islamabad.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/5956) (Page -2/2)

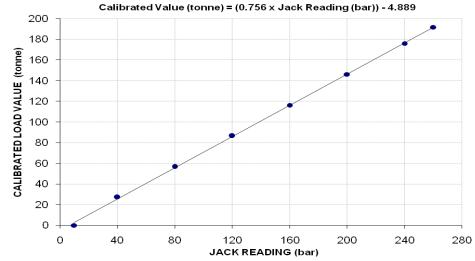
Reference to your Letter No. RE/Zeeruk/10thAvenue/2024/408, dated: 30/10/2024 on the subject cited above. One Hydraulic Jack (Jack No. 406, Gauge No. SF-406) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar) Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Re (bar)	eading	10	40	80	120	160	200	240	260
Calibrated Load	(kg)	0	27200	56600	86600	116200	146200	176000	191600
Cambrateu Loau	(tonne)	0	27.20	56.60	86.60	116.20	146.20	176.00	191.60
Calibrated Pressu	0	36	76	116	155	195	235	256	

The Ram Area of Jack = 734.35 cm^2

Calibration Curve For Jack No. 406



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

To,

Contractor Representative CCECC - HCS Jv

Expansion of Terminal Building and Allied Facilities at Allama Iqbal International Air[port (AIIAP), Lahore

Reference # CED/TFL <u>5962 (Dr.M Rizwan Riaz)</u>

Reference of the request letter # CCECCHCSJVAIIAP2024-360

Dated: 06-11-2024

Dated: 04-11-2024

Tension Test Report (Page -1/1)

Date of Test 11-11-2024 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Size		Size		Size		Area (in²)		Yield load	Breaking Load		Stress si)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal		(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re						
1	4.196	10	1.253	1.27	1.234	39800	57400	69100	71120	99700	102600	1.30	16.3	п						
2	4.273	10	1.265	1.27	1.256	38200	53200	66300	67040	92400	93400	1.50	18.8	Kamran						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ka						
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	1	-	-	-	-	-	-	-	-	-	-							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test									
) D D	1		1 1000		2	Bend T	est												

#10 Bar Bend Test Through 180° is Satisfactory

Witness by Jamil Akhtar (Lab-Tech. NESPAK) & Nazish Imran (ME, CCECC-HCS Jv)

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

To,

Cantonment Executive Officer
Military Lands & Catonments Deptt
Lahore Cantonment Board
(Construction of Shops (11 x CB Plaza Sarwar Road))

Reference # CED/TFL <u>5967 (Dr. M Kashif)</u>

Reference of the request letter # SCE/Tender-2024-25/D-18570

Dated: 07-11-2024

Dated: 29-10-2024

Tension Test Report (Page -1/1)

Date of Test 11-11-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		ee Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.380	3	0.377	0.11	0.112	3940	5270	79000	77760	105600	104100	1.10	13.8	
2	0.379	3	0.377	0.11	0.111	3920	5270	78600	77500	105600	104200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Not	e: only t	wo sampl	es for te	nsile test	1		ı		
							Bend T	est						

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

To,

Resident Engineer AZ Engineering Associates

Construction / Reconstruction of Road from Mianwali D.I Khan Road at ChashmaLake to Allu Piplan Kallurkot Road I/C 4 Nos Bridges (Old She Shah Soori Road) Length: 8.00 km District Mianwali.

Reference # CED/TFL <u>5968 (Dr.M Rizwan Riaz)</u>

Reference of the request letter # AZEA/MWL/LAB/24/0232

Dated: 07-11-2024

Dated: 07-11-2024

Tension Test Report (Page -1/1)

Date of Test 11-11-2024 Gauge length 8 inches

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

Sr. No.	Weight		Diameter/ Area Size (in²)			Yield load	Breaking Load Load (isd) Breaking (isd)			Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	4.192	10	1.252	1.27	1.232	39400	55400	68400	70490	96200	99200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Note: only one sample for tensile and one sample for bend test											
							Bend T	est						
#10) Bar Be	nd Test	Throug	gh 180°	is Satist	factory								

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

To,

M/S Haseen Habib Corporation (Private) Ltd. Lahore

Reference # CED/TFL <u>5970 (Dr. M KAshif)</u>
Reference of the request letter # Nil

Tension Test Report (Page - 1/1)

Date of Test 11-11-2024 Gauge length 2 inches

Description Steel Plate Steel Strip Tensile Test

Sr. No.	Designation	(mm) Size of Strip	X Section Area Area	(kN)	(Na) Load	(MPa)	Ultimate Stress	(ui) Elongation	% Elongation	Remarks
1	SS Plate	27.10x2.70	73.17	38.30	51.20	523	700	1.10	55.00	
2	MS Plate	26.90x4.70	126.43	35.20	48.70	278	385	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	ı	-	-	-	1	
-	-	-	-	•	-	-	-	•	1	
-	-	-	-	-	-	-	-	-	-	
		Oı	nly Two	Sample f	or Tensile	e Test	1	T		
				Bend T	est					

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 07-11-2024

Dated: 07-11-2024

- 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

To,

Resident Engineer NESPAK Expansion of Joint Chek Post Wagha, Lahore.

Reference # CED/TFL **5971** (Dr. M KAshif) Dated: 07-11-2024

Reference of the request letter # 4749/031/YK/01/90 Dated: 07-11-2024

Tension Test Report (Page -1/1)

Date of Test 11-11-2024
Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Nominal Actual		(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.364	3	0.369	0.11	0.107	3670	5010	73600	75520	100400	103100	1.00	12.5	ran el
2	0.375	3	0.375	0.11	0.110	3890	5200	78000	77780	104200	104000	0.90	11.3	Kamran Steel
-	1	•	1	ı	-	-	-	ı	-	-	-	-	-	
-	1	•	1	ı	-	-	-	ı	-	-	-	-	-	
-	1	-	-	1	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ectory								

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

To,

Resident Engineer G3 Engineering Consultants (Pvt) Ltd. The Women University Multan.

Reference # CED/TFL <u>5973 (Dr. M Kashif)</u>
Reference of the request letter # REG3/WUM/473

Tension Test Report (Page -1/1)

Date of Test 11-11-2024 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size tra (#)		Size		Size		Size		Area (in²)		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	R						
1	0.378	3	0.376	0.11	0.111	3480	5120	69800	69060	102600	101700	1.30	16.3	iz el						
2	0.379	3	0.377	0.11	0.111	3670	5220	73600	72610	104600	103300	1.30	16.3	Aziz Steel						
-	1	1	1	ı	-	ı	-	-	-	-	-	-	ı							
-	1	1	1	ı	-	ı	-	-	-	-	-	-	ı							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	-	-	-	-	_	-	-	-	-	-	-							
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend 1	test									
	Bend Test																			
#3	Bar Ben	d Test	Γhrough	n 180° is	s Satisfa	ctory														

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 07-11-2024

Dated: 21-10-2024

- 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

To,

Head Construction Site
ABL – UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL <u>5980 (Dr. M Kashif)</u>

Reference of the request letter # ABL-UML-AMC-QAQC-97

Dated: 11-11-2024

Dated: 11-11-2024

Tension Test Report (Page -1/1)

Date of Test 11-11-2024
Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size			Area (in²)		Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
6 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.368	3	0.371	0.11	0.108	3720	4990	74600	75800	100000	101700	1.10	13.8	- la
2	0.371	3	0.372	0.11	0.109	3670	4940	73600	74250	99000	100000	1.30	16.3	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	_	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
		Note: only two samples for tensile and one sample for bend test									test			
	Bend Test													
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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

I/C Testing Laboratoires UET Lahore, Pakistan.

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