

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

Ref: <u>CED/TFL/10/2064</u> Dated: <u>04-10-2022</u>

Dated: 08-10-2022

To

M/S Sheikhu Sugar Mills (Steel Division) Sheikhu Steel Anwar Abad Kot Addu, Muzaffargarh

Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 1000 kN MARK: CED/TFL/10/2064) (Page – 1/4)

Reference to your letter No. Nil, dated: 23/09/2022 on the subject cited above. One Universal Testing Machine (Model No. WAW-1000D, Serial No. 20210431, Make – Jinan Hesgrand Instrument Co. Ltd.) has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 1000 (kN)

Calibrated Range : Zero - 900 (kN)

Machine Reading (kN)	Corrected Load Value (kN)
50	51
100	101
150	150
200	200
250	251
300	301
350	353
400	402
450	450

Machine Reading (kN)	Corrected Load Value (kN)
500	501
550	553
600	603
650	654
700	703
750	753
800	803
850	855
900	904

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

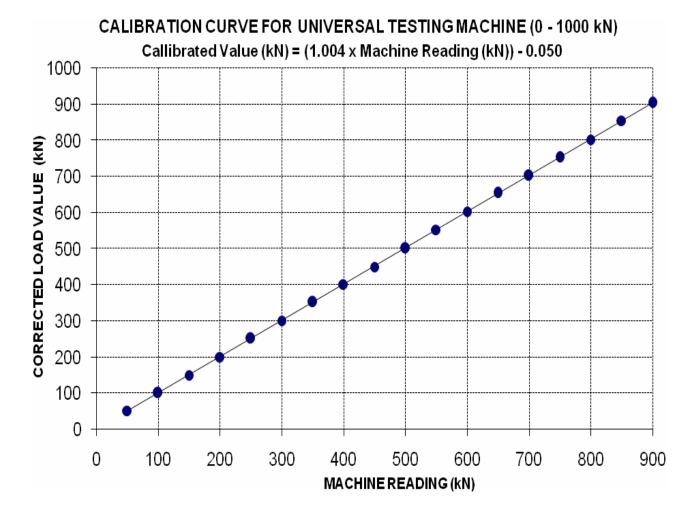
Ref: <u>CED/TFL/10/2064</u> Dated: <u>04-10-2022</u>

Dated: 08-10-2022

To

M/S Sheikhu Sugar Mills (Steel Division) Sheikhu Steel Anwar Abad Kot Addu, Muzaffargarh

Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 1000 kN MARK: CED/TFL/10/2064) (Page – 2/4)



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: <u>CED/TFL/10/2064</u> Dated: <u>04-10-2022</u>

Dated: 08-10-2022

To

M/S Sheikhu Sugar Mills (Steel Division) Sheikhu Steel Anwar Abad Kot Addu, Muzaffargarh

Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 2000 kN MARK: CED/TFL/10/2064) (Page – 3/4)

Reference to your letter No. Nil, dated: 23/09/2022 on the subject cited above. One Universal Testing Machine (Model No. WAW-2000E, Serial No. 20210432, Make – Jinan Hesgrand Instrument Co. Ltd.) has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 2000 (kN)

Calibrated Range :

Zero - 1800 (kN)

Machine Reading (kN)	Corrected Load Value (kN)
100	107
200	214
300	315
400	414
500	514
600	615
700	716
800	817
900	917

Machine Reading (kN)	Corrected Load Value (kN)
1000	1017
1100	1117
1200	1217
1300	1316
1400	1418
1500	1517
1600	1618
1700	1715
1800	1814

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

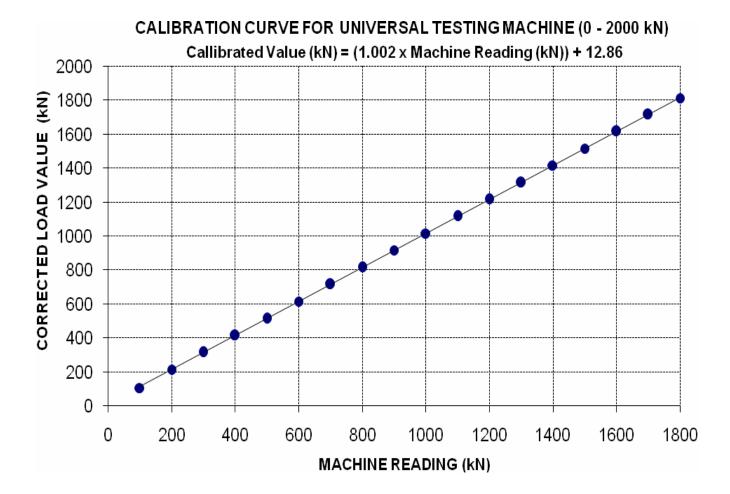
Ref: <u>CED/TFL/10/2064</u> Dated: <u>04-10-2022</u>

Dated: 08-10-2022

To

M/S Sheikhu Sugar Mills (Steel Division) Sheikhu Steel Anwar Abad Kot Addu, Muzaffargarh

Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 2000 kN MARK: CED/TFL/10/2064) (Page – 4/4)



I/C Testing Laboratoires UET Lahore, Pakistan.

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- 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, Assistant Director (Building Section) Defence Housing Authority Gujranwala Construction of Villas (Block-B)

Reference # CED/TFL **2058** (Dr. M Rizwan Riaz)

Reference of the request letter# 111/3/AD Bldgs/Gen/22

Dated: 04-10-2022

Dated: 03-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		Area (in²)		Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Nominal Actual		(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.371	3	0.373	0.11	0.109	3100	4800	62200	62690	96200	97100	1.10	13.8	aj el
2	0.375	3	0.374	0.11	0.110	3200	4800	64200	64070	96200	96200	1.20	15.0	Siraj Steel
-	-	-	-	1	-	ı	-	-	-	-	-	-	ı	
-	-	-	-	1	-	1	-	-	-	-	-	-	1	
-	-	-	-	1	-	ı	-	-	-	-	-	-	ı	
-	ı	-	-	1	-	ı	-	-	-	-	-	-	1	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		1
							Dan 1 T	\ \`a=4						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ictory	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
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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 Elite Engineering Pvt. Ltd 113-L1 Valancia Town, Lahore

Reference # CED/TFL **2060** (Dr. M Rizwan Riaz)

Reference of the request letter# Nil

Dated: 04-10-2022

Dated: 03-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze ch)		rea 1 ²)	Yield load	Breaking Load		Stress si)		ee Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal		(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.367	3	0.371	0.11	0.108	3200	4700	64200	65330	94200	96000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	_	-	-	-	-	-	-	-	-	-	-	
-	-	1	-	-	-	-	-	1	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est	<u> </u>		
		1 T - 4 Tl 1, 1900 ; C - 4;					Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

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, NESPAK

Development of Undergroud External Electrification Network in LDA City Housing Scheme, Lahore (Development Area – I)(Package -02 & Package –04)

Reference # CED/TFL 2062 (Dr. M Rizwan Riaz)

Reference of the request letter# 4047/13/MA/04/30

Dated: 04-10-2022

Dated: 29-09-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze ch)		Area (in²)		(in ²) Xield		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	0.360	3	0.367	0.11	0.106	3200	4700	64200	66740	94200	98100	1.30	16.3	aq el		
2	0.367	3	0.371	0.11	0.108	3300	4800	66200	67410	96200	98100	1.40	17.5	Ittefaq Steel		
-	-	-	_	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend 1	test	1		1		
							Bend T	est								
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ictory										

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,
Director
Innovative (R) Construction Company
Construction of Tim Hortons, Phase 6 DHA Lahore

Reference # CED/TFL **2067** (Dr. Rizwan Azam)

Reference of the request letter # ICL/TH/1022/004

Dated: 05-10-2022

Dated: 03-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	e (in²)		Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	0.380	3	0.377	0.11	0.112	3680	4800	73800	72650	96200	94800	1.00	12.5	
2	0.372	3	0.373	0.11	0.109	4000	5100	80200	80690	102200	102900	1.10	13.8	
-	1	-	ı	1	-	-	-	1	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Π	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	nd 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
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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 Henan D.R. Construction Group Co., Ltd Challenge Special Economic Zone Bedian Distributary, Pandoki Village, Lahore

Reference # CED/TFL 2068 (Dr. Rizwan Azam)

Reference of the request letter # Nil

Dated: 05-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

Description Plain Steel Bar Tensile Test

Sr. No.	Weight		neter/ ize		rea m²)	Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)	%	
1	0.238	6.48	6.21		30.3		2300		746	0.60	7.5	
2	0.238	6.48	6.21		30.3		2400		777	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
			Note: o	nly two	samples	for tensil	e and one	sample fo	r bend te	st	I	
			1		2021 5	Bend 7	Γest					
6.48	8mm Dia	Bar Be	nd Test Tl	nrough 1	80° is Sat	istactory						

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, Resident Engineer ESAC

Civil Infrastructure Development Works Package-2 Sector-A (Remaining Portion) Including MC between T&P, D&E and MC between F&G – DHA Multan

Reference # CED/TFL **2070** (Dr. Rizwan Azam)

Reference of the request letter # ESAC/Sec A(Extn) Civ Work/0121

Dated: 05-10-2022

Dated: 03-10-2022

Tension Test Report (Page -1/4)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)	Area (in²)		Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
3 2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	R
1	0.386	10	9.65	0.12	0.113	3400	5000	62464	66120	91858	97300	0.90	11.3	e
2	0.386	10	9.65	0.12	0.113	3400	5000	62464	66040	91858	97200	1.00	12.5) Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est est						
101	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

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 ESAC

Civil Infrastructure Works Sector U (Part-2) Including MC between Sector L & P, and Service Road along MC Sector T & X (Package 3) in DHA, Multan (DHAM)

Reference # CED/TFL **2070** (Dr. Rizwan Azam)

Reference of the request letter # ESAC/CW/CP/003

Dated: 05-10-2022

Dated: 04-09-2022

Tension Test Report (Page -2/4)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)	Area (in²)		Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
3 2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	Э %	R
1	0.368	10	9.43	0.12	0.108	3200	4500	58789	65150	82673	91700	1.20	15.0	e
2	0.370	10	9.45	0.12	0.109	3300	4500	60627	66890	82673	91300	1.20	15.0	: Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	出
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
101	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

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 ESAC

Civil Infrastructure Works Sector U (Part-2) Including MC between Sector L & P, and Service Road along MC Sector T & X (Package 3) in DHA, Multan (DHAM)

Reference # CED/TFL **2070** (Dr. Rizwan Azam)

Reference of the request letter # ESAC/CW/CP/006

Dated: 05-10-2022

Dated: 04-09-2022

Tension Test Report (Page -3/4)

Date of Test 10-10-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Si	neter/ ze m)		Area (in²)		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	R
1	0.135	6	5.71		0.040	1120	1480		62200		82200	1.00	12.5	
2	0.134	6	5.68		0.039	1160	1440		65070		80800	1.10	13.8	teel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ali Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test		ı	
							Bend T	est						
6m	m Dia B	ar Beno	d Test T	hrough	180° is	Satisfact	ory							

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 ESAC

Civil Infrastructure Development Works Package-2 Sector-A (Remaining Portion) Including MC between T&P, D&E and MC between F&G – DHA Multan

Reference # CED/TFL **2070** (Dr. Rizwan Azam)

Reference of the request letter # ESAC/Sec A(Extn) Civ Work/0127

Dated: 05-10-2022

Dated: 04-10-2022

Tension Test Report (Page -4/4)

Date of Test 20-12-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	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	R
1	0.074	5	4.22		0.022	940	1040		95660		105900	0.60	7.5	
2	0.073	5	4.20		0.021		1000				102800	0.20	2.5	teel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ali Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	'		N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		
					e: only two samples for tensile and one sample for bend test									
							Bend T	est						
5m	m Dia B	ar Beno	d Test T	hrough	180° is	Satisfact	ory							

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, Assistant Director (Building Section) Defence Housing Authority Gujranwala Construction of Villas (Block - A & D)

Reference # CED/TFL **2072** (Dr. M Rizwan Riaz)

Reference of the request letter# 111/3/AD Bldgs/Gen/23

Dated: 06-10-2022

Dated: 03-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		rea n²)	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)	3 %	Re
1	0.372	3	0.373	0.11	0.109	3400	5000	68200	68560	100200	100900	1.20	15.0	aj el
2	0.386	3	0.380	0.11	0.113	3600	5200	72200	69930	104200	101100	1.30	16.3	Siraj Steel
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	1	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	_	-	-	-	-	-	-	-	-	_	-	
	1		N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	ı	ı	1
							Bend T	est						
#3	Bar Ben	d Test	Through	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,

Sub Divisional Officer

Buildings Sub Division No. 6,

Lahore

(Construction of Office Complex for Directorate General Punjab Probation and Parole Service

Lahore)

Reference # CED/TFL 2073 (Dr. Rizwan Azam)

Reference of the request letter # 82/Sd-6th

Dated: 06-10-2022 Dated: 26-09-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend 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)	I %	Re
1	0.368	3/8	0.371	0.11	0.108	3500	4600	70200	71260	92200	93700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est	•		
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Th	nrough	180° is \$	Satisfacto	ry							

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,
PM Project
Majeed Associates Ltd
Construction of ABL Expo Centre Johar Town

Reference # CED/TFL **2075** (Dr. M RIzwan Riaz)

Reference of the request letter # Nil

Dated: 06-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	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	R
1	0.374	10	9.50	0.12	0.110	4300	5200	78998	86230	95533	104300	0.80	10.0	Afco Steel
2	0.371	10	9.47	0.12	0.109	3400	4400	62464	68700	80835	88900	0.90	11.3	Af St
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	_	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
				Bend Test										
101	mm Dia	Bend Test 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,
Resident Engineer
ACE

Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar (M/s ZKHB)(PKGE#1)

Reference # CED/TFL **2076** (Dr. M Rizwan Riaz)

Reference of the request letter # ACE/RE-PDS/MNK/BHK/22/551

Dated: 06-10-2022

Dated: 27-09-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend 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)	3 %	R
1	0.374	3/8	0.374	0.11	0.110	3400	4900	68200	68210	98200	98300	1.00	12.5	
2	0.371	3/8	0.373	0.11	0.109	3300	4900	66200	66680	98200	99100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Th	rough										

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
Renaissance International Pvt. Ltd.
Construction of Grid Station at Lahore Motorway City Project, Sheikhupura Road, Lahore

Reference # CED/TFL **2077** (Dr. M Rizwan Riaz)

Reference of the request letter# QC/22/038

Dated: 06-10-2022

Dated: 05-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze 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	0.387	3	0.380	0.11	0.114	4600	5600	92200	89210	112300	108600	0.90	11.3	e e
2	0.386	3	0.380	0.11	0.113	4600	5500	92200	89330	110200	106900	0.80	10.0	Afco Steel
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
				Note: only two samples for tensile and one sample for bend test Bend Test										
							Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								
1			d 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,
Deputy Project Manager
United Lifestyle (Pvt) Ltd
A High Rise Building "Skyscraper by United" at Johar Town, Lahore

Reference # CED/TFL 2078 (Dr. Rizwan Azam)

Reference of the request letter # ULS/2021-22/008

Dated: 07-10-2022

Dated: 06-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 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)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.382	3	0.378	0.11	0.112	3900	5000	78200	76500	100200	98100	1.10	13.8	
2	0.371	3	0.373	0.11	0.109	3600	4800	72200	72710	96200	97000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	1	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	l		
	D D			1000			Bend T	est						

#3 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
Izhar Construction (Pvt) Ltd
OMBRe' Holdings Pvt Ltd Raiwind, Lahore

Reference # CED/TFL **2082** (Dr. Rizwan Azam)

Reference of the request letter # OMBRe'/Mughal/Steel/010

Dated: 07-10-2022

Dated: 07-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)		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	0.408	10	9.92	0.12	0.120	3900	4900	71650	71700	90021	90100	1.50	18.8	Te le
2	0.406	10	9.90	0.12	0.119	3900	4900	71650	72010	90021	90500	1.30	16.3	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test		ı	
		Pand Tost												
1.0	D' '	Bend Test a Bar Bend Test Through 180° is Satisfactory												
10r	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	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,
M/S Al-Hadeed Corporation
Lahore
(Construction of Commercial Building Plot # 39 Block G, Gulberg II, Lahore)

Reference # CED/TFL **2084** (Dr. Rizwan Azam)

Reference of the request letter # AHC/553/10

Dated: 07-10-2022

Dated: 07-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	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	R
1	0.355	3/8	0.365	0.11	0.104	2700	4000	54100	57010	80200	84500	1.20	15.0	
2	0.352	3/8	0.363	0.11	0.104	2700	4000	54100	57440	80200	85100	1.10	13.8	
ı	-	1	-	1	-	1	-	-	-	-	-	-	1	
ı	-	ı	-	ı	-	ı	-	-	-	•	-	-	ı	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
ı	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend 1	test			I
2 /0	" D:- D-	D 1	T4 T1	1.	1000:	7-4:	Bend T	est						
3/8	" Dia Ba	ır Bend	Test II	nrough	180° 18 S	Satisfacto	ry							

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 (QA/QC Department) Bahria Town Private Limited Main Gate at Sector "G" Bahria Town Lahore

Reference # CED/TFL **2086** (Dr. Rizwan Azam)

Reference of the request letter # QA/QC/Steel/2841

Dated: 07-10-2022

Dated: 04-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Ben;d Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	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	0.372	3	0.373	0.11	0.109	3700	4800	74200	74540	96200	96700	1.00	12.5	
2	0.375	3	0.375	0.11	0.110	4000	5000	80200	80010	100200	100100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		1	No	ote: on	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	Through	180° is	s Satisfa	ictory								

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,
Sub Divisional Officer
Buildings Sub Division No. 16,
Lahore
(Construction of Police Station Hanjarwal District Lahore)

Reference # CED/TFL **2088** (Dr. Rizwan Azam)

Reference of the request letter # 185/16th

Dated: 07-10-2022

Dated: 04-05-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)		rea n²)	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)	3 %	Re
1	0.360	3/8	0.367	0.11	0.106	3000	4200	60200	62470	84200	87500	1.20	15.0	
2	0.363	3/8	0.369	0.11	0.107	2900	4100	58200	59910	82200	84700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Not	e: only t	wo sampl	es for te	nsile test					
							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.
- 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,
Procurement Manager
Premier Developers & Builders
Lyallpur Galleria-II near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL **2089** (Dr. Rizwan Azam)

Reference of the request letter # LG-II/027

Dated: 07-10-2022

Dated: 06-10-2022

Tension Test Report (Page -1/1)

Date of Test 10-10-2022 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si	neter/ ze		rea n²)	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	Re
1	0.418	3	0.396	0.11	0.123	3900	5400	78200	69960	108200	96900	1.40	17.5	ات ا
-	-	-	-	-	-	-	-	-	-	-	-	-	-	FF Steel
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est			
		Note: only one sample for tensile and one sample for bend test Bend Test												
#3	Bar Ben	d Test	Γhrougł	n 180° is	s Satisfa	ictory								

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

Ref: <u>CED/TFL/10/2090</u> Dated: <u>10-10-2022</u>

Dated of Test: 10-10-2022

To

Deputy Director (QCD)
Water and Sanitation Agency

Faisalabad

(M/s United (I-II) RCC Pipe Manufacturing Factory New Grace Hosiery, 117/JB, Faisalabad)

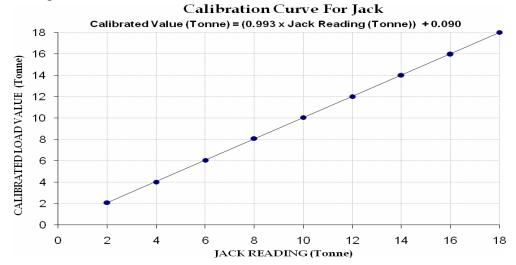
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/10/2090)

Reference to your Letter No. 122/DD (QCD)/WASA/2022, Dated: 01/10/2022 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 - 20 (Tonne) Calibrated Range : Zero - 18 (Tonne)

Hydraulic Jack Reading (Tonne)		2	4	6	8	10	12	14	16	18
Calibrated Load	(kg)	2100	4000	6050	8100	10050	12000	14000	15950	18000
	(Tonne)	2.10	4.00	6.05	8.10	10.05	12.00	14.00	15.95	18.00

1000 kg = 1 Tonne



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