

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

Ref: CED/TFL/10/37153 Dated: 05-10-2021

Dated of Test: <u>05-10-2021</u>

To
Deputy Director (QCD)
Water & Sanitation Agency
Faisalabad

(M/s Waqas RCC Pipe Manufacturing Factory Opposite Ismail Mosque, Daewoo Road Faisalabad)

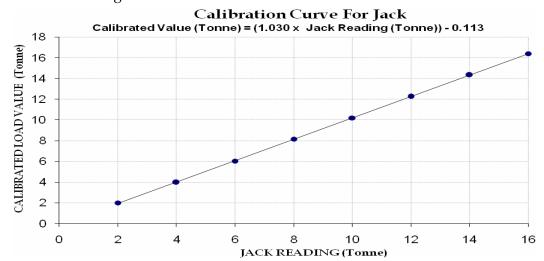
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/10/37153)

Reference to your Letter No. 451/DD (QCD)/WASA/2021, Dated: 18/09/2021 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 - 20 (Tonne) Calibrated Range : Zero - 16 (Tonne)

Hydraulic Jack Read (Psi)	2	4	6	8	10	12	14	16	
Calibrated Load	kg	1998	3970	6040	8160	10181	12252	14323	16393
Cambrated Load	Tonne	2.00	3.97	6.04	8.16	10.18	12.25	14.32	16.39

1 Tonne = 1000 kg



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.

Pr. Engineer (Civil), WASO

PAEC, Chashma

"Construction of Boundary Wall, 02 nos. Watch Towers & Reception of Officer Hostel at PNPFC, Wan Bhachran"

(AL-Moiz Steel, Heat No. 1595)

Reference # CED/TFL 37148 (Dr. Ali Ahmed)

Dated: 05-10-2021 Reference of the request letter # WASO-WBACH-21-096/1745 Dated: 04-10-2021

Tension Test Report (Page -1/1)

Date of Test 06-10-2021 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)		Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.371	3/8	0.373	0.11	0.109	3300	5000	66200	66680	100200	101100	1.40	17.5	
2	0.373	3/8	0.373	0.11	0.110	3400	5000	68200	68430	100200	100700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							D 1 T	\ \aa4						
3/8	" Dia Ra	r Rond	Test Tl	rough	120° is 9	Satisfacto	Bend T	est						

3/8" Dia 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
AZ Engineering Associates
Construction of Multi Complex (MPC), Building (Phase-I) at Quaid-e-Azam Business Park
(Qabp) on M-2 Motorway, Sheikhupura

Reference # CED/TFL 37149 (Dr. Ali Ahmed)

Reference of the request letter # RE/AZEA/MPC-104

Dated: 05-10-2021

Dated: 30-09-2021

Tension Test Report (Page -1/1)

Date of Test 06-10-2021 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) Vominal Votral		Yield load Breaking Load		Yield Stress (psi)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal			(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.366	3/8	0.370	0.11	0.108	3200	5200	64200	65510	104200	106500	1.00	12.5	L
2	0.365	3/8	0.369	0.11	0.107	3200	5200	64200	65790	104200	107000	0.80	10.0	F.S.L
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Th	nrough	180° is \$	Satisfacto	ry							

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, M/S Al-Hamd General Engineering Services Lahore (Mezzan Dairy farm Halla Pattoki)

Reference # CED/TFL <u>37150 (Dr. Ali Ahmed)</u>

Reference of the request letter # Nil

Dated: 05-10-2021

Dated: 04-10-2021

Tension Test Report (Page -1/1)

Date of Test 06-10-2021 Gauge length 8 inches

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

Sr. No.	M Diameter/ Size			Area (in²) Xield 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	0.364	3	0.369	0.11	0.107	3200	4900	64200	65850	98200	100900	1.40	17.5	
2	0.367	3	0.370	0.11	0.108	3200	5000	64200	65440	100200	102300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	ı		
							Bend T	est						
#3	Dia Bar	Bend T	est Thre	ough 18	80° is Sa	tisfactory	7							

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, Sub Divisional Officer Highway Sub Division Gojra

(Widening / Improvement of Mochiwala Road (Section Pensra Mor to Motorway Crossing) Tehsil Gojra District Toba Tek Singh (Length = 5.00 km) Part-II (Bridge Work)

Reference # CED/TFL 37151 (Dr. Ali Ahmed)

Reference of the request letter # 01

Tension Test Report (Page -1/1)

Date of Test 06-10-2021 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si	ieter/ ze		Area (in²) Vominal Vominal		Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal			(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.374	3	0.374	0.11	0.110	3800	4800	76200	76230	96200	96300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est			
							Bend T	est						
#3	Dia Bar	Bend T	est Thre	ough 18	30° is Sa	tisfactory	7							

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 05-10-2021

Dated: 25-09-2021

- 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,
Senior Site Engineer
AF Builders
Civil Work at Shell-Zaman Filling Station Lahore

Reference # CED/TFL <u>37152 (Dr. Ali Ahmed)</u>

Reference of the request letter # Nil

Dated: 05-10-2021

Tension Test Report (Page -1/1)

Date of Test 06-10-2021 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	Yield Stress (psi)			e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Nominal Actual		(kg) le		Actual	Nominal	Actual	(inch)	% E	R
1	0.366	3	0.370	0.11	0.108	3300	5400	66200	67630	108200	110700	1.10	13.8	
2	0.365	3	0.370	0.11	0.107	3300	5300	66200	67810	106200	108900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	•	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: onl	y two s	amples f	or tensile	and one	sample f	or bend t	test	Γ		
#3	Dia Bar	Bend T	est Thro	ough 18	30° is Sa	tisfactory	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

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To,

Project Manager

China Energy Engineering Group

Northeast No. 2 Electric Power Construction Co., Ltd

Procurement of Plant – Design, Manufacture, Supply, Installation, Testing & Commissioning of 500kV Double Circut Quad Bundle Transmission Line from Suki Kinari Hydro Power Station to Interconnection Point of Existing Neelum Jhelum 500kV Double Circuit Quad Bundle

Transmission Line (approx. 75km)

Reference # CED/TFL <u>37156 (Dr. Irfan ul Hussan)</u>
Reference of the request letter # DD-401A-FA-619
Dated: 06-10-2021
Dated: 05-10-2021

Tension Test Report (Page -1/1)

Date of Test 06-10-2021 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	er/ Area (in²)		Area (in²) Xield load			Stress si)	Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		Re
1	0.356	3	0.365	0.11	0.105	3590	4350	72000	75540	87200	91600	1.00	12.5	teel
2	0.365	3	0.370	0.11	0.107	3740	4680	75000	76790	93800	96100	0.90	11.3	SJ Steel
-	ı	1	ı	ı	-	-	-	-	-	-	-	-	-	
-	ı	ı	ı	ı	-	-	-	-	-	-	ı	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1		
							D 17							
#2	Rar Ren	d Tost	Fh. may al	1900;	Catiafa	atom.	Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

Witness by Sohaib Ali (Sub Engineer NESPAK)

I/C Testing Laboratoires UET Lahore, Pakistan.

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