

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 Sambrial

(Construction of Carpeted Road from Kan Road to Dera Faiz Dhillown, Village Dhillam Tehsil

Sambrial District Sialkot (Length 3.00 km))

Reference # CED/TFL <u>37539 (Dr. M Rizwan Riaz)</u> Dated: 20-12-2021

Reference of the request letter # 61/S Dated: 24-11-2021

Tension Test Report (Page -1/1)

Date of Test 21-12-2021 Gauge length 2 inches

Description Tor Steel Bar Tensile and Bend Test as per BS-4461

Sr. No.	Weight	Mein Diameter/size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)			te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.364	3	0.369	0.11	0.107	2480	3400	49700	51030	68200	70000	0.50	25.0	
2	0.366	3	0.370	0.11	0.108	2380	3400	47700	48790	68200	69700	0.55	27.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			No	te: onl	y two sa	mples fo	r tensile	and two	samples	for Bend	test			
							D 17							
#2	Bar Bei	nd Test	Throug	h 180° i	s Satisf	actory	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

#3 Bar Bend Test Through 180° is Satisfactory

- 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, Acting Chief Resident Engineer Trimmu Panjnad Barrages Consultants Trimmu Panjnad Barrages Improvement Project (TPBIP)

Reference # CED/TFL <u>37541 (Dr. Rizwan Riaz)</u>

Reference of the request letter # TPBC/CRE/NCB-01/5223

Dated: 20-12-2021

Dated: 16-12-2021

Tension Test Report (Page -1/1)

Date of Test 21-12-2021 Gauge length 8 inches

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

Sr. No.	Diameter/		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)			te Stress si)	Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Ŗ
1	0.368	3	0.371	0.11	0.108	3300	5100	66200	67190	102200	103900	1.20	15.0	-
2	0.371	3	0.373	0.11	0.109	3400	5200	68200	68700	104200	105100	1.10	13.8	Ittefaq Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend 1	test			
	Bend Test													
#3	#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, Chief Resident Engineer MM Pakistan (Pvt) Ltd

Kachhi Canal Project – Construction of Main Canal and Distribution System (Earth Work, Structures and Lining of Main Canal & Distributaries)

Reference # CED/TFL <u>37543 (Dr. Rizwan Riaz)</u>
Reference of the request letter # KCB/RE-6B(2R)/21

Tension Test Report (Page -1/1)

Date of Test 21-12-2021 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)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft) Nominal (#)		Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	Re
1	0.364	3	0.369	0.11	0.107	2900	4300	58200	59750	86200	88600	1.50	18.8	e
2	0.399	3	0.387	0.11	0.117	3200	4700	64200	60110	94200	88300	1.10	13.8	Nomee Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
	Bend Test													
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 20-12-2021

Dated: 13-12-2021

- 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
- 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 Building Standards
Lahore
(Construction of Residential Building Gulberg, Lahore)

Reference # CED/TFL <u>37544 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # GT/LTR/211220-138

Dated: 20-12-2021

Tension Test Report (Page -1/1)

Date of Test 21-12-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	M Diameter/		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stre (psi)		Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)		Nominal Actual		(kg)	Nominal Actual		Nominal	Actual	(inch)	I %	Re
1	0.370	3	0.372	0.11	0.109	4500	5700	90200	91110	114300	115500	0.80	10.0	
-		-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	•	-	-	-	-	-	ı	-	-	-	-	1	
-		-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		T	1		No	te: only o	ne samp	le for ten	sile test	ı	ı	1		
	Bend 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/12/37548</u> Dated: <u>20-12-2021</u>

Dated of Test: <u>21-12-2021</u>

To M/S Al-Riaz Engineering Services (Pvt) Ltd. 22 km Main Multan Road Chung Lahore

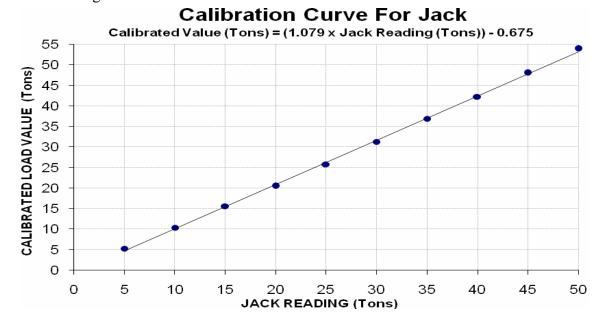
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/12/37548)

Reference to your Letter No. Nil, Dated: 20/12/2021 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 - 70 (Ton) Calibrated Range : Zero - 50 (Ton)

Hydraulic Jack R (Ton)	Reading	5	10	15	20	25	30	35	40	45	50
Calibrated	(kg)	4800	9400	14200	18600	23400	28400	33500	38400	43700	49000
Load	(Ton)	5.29	10.35	15.64	20.48	25.77	31.27	36.89	42.28	48.12	53.95

1000 Kg = 1.1011 Ton



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,
Construction Manager
Zameen Quadrangle
Construction of Zameen Quadrangle at Plot No. 49 Gulberg-V, Zafar Ali Road, Lahore

Reference # CED/TFL <u>37549 (Dr. M Rizwan Riaz)</u>
Reference of the request letter # ZD/ZQ/GSW/004

Dated: 20-12-2021

Dated: 20-12-2021

Tension Test Report (Page -1/1)

Date of Test 21-12-2021 Gauge length 8 inches

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

Sr. No.	N Diameter/		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.373	3	0.374	0.11	0.110	3300	4800	66200	66330	96200	96500	1.30	16.3	e
2	0.385	3	0.379	0.11	0.113	3500	4900	70200	68240	98200	95600	1.40	17.5	Kamran Steel
1	-	-	-	-	-	-	-	-	-	-	-	-	-	mra
ı	-	1	ı	ı	-	1	-	-	-	-	-	-	-	Ka
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	-	_	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1	I	
ш2	Dan D	1 T 4 T	Γ1 1	1000:	- Catiaf		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,
M/s Building Standards
Lahore
(Construction of Commercial Project in pattoki)

Reference # CED/TFL <u>37550 (Dr. M Rizwan Riaz)</u>
Reference of the request letter # GT/LTR/211220-141
Dated: 20-12-2021

Tension Test Report (Page -1/1)

Date of Test 21-12-2021 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)			e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	(lbs/ft) Nominal (#) Actual (inch)		Nominal	Actual	(kg)	(kg)	Nominal Actual		Nominal	Actual	(inch)	% E	Re
1	0.395	3	0.385	0.11	0.116	5000	6800	100200	94870	136300	129100	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	ı	-	-	-	-	-	-	-	-	-	-	
-	-	-	ı	-	-	-	-	-	-	-	-	-	-	
-	1	-	ı	-	-	-	-	-	ı	-	-	-	-	
-	-	-	ı	-	-	-	-	-	-	-	-	-	-	
		Π	N	ote: on	ly one s	ample fo	r tensile	and one	sample fo	or Bend t	est			
#2	Don Don	ad Tast	Theore at	L 1000 :	a Catia£	actour	Bend T	est						
#3	#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