

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

To. **Executive Engineer**

Highway Division, Gujrat

(Dualization of Road from GT Road (Samma) to Gujrat Dinga Road I/C Gujrat Flyover Length = 31 km in District Gujrat (Group No. IV-C Construction of Flyover at Gujrat Sargodha Road & 1 No. Small Bridge)

Reference # CED/TFL 1285 (Dr. Rizwan Azam)

Dated: 19-04-2022 Reference of the request letter # 913/MCB Dated: 06-04-2022

Tension Test Report (Page -1/1)

Date of Test 25-04-2022 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	Area (in²)				Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	0.381	3	0.378	0.11	0.112	3500	4800	70200	68900	96200	94500	1.50	18.8	
2	0.384	3	0.379	0.11	0.113	3600	4900	72200	70300	98200	95700	1.40	17.5	
3	4.194	10	1.253	1.27	1.233	38600	53200	67000	69020	92400	95200	1.60	20.0	
4	4.174	10	1.250	1.27	1.227	38600	53200	67000	69350	92400	95600	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	No	te: only	y four s	amples f	or tensile	and two	samples	for bend	test			
							Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

#10 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.
- 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, Director (Civil) Mineral Development Project Islamabad

Reference # CED/TFL 1290 (Dr. Rizwan Azam)

Reference of the request letter # MDP-C&S-Gen(1)/2022

Dated: 19-04-2022

Dated: 18-04-2022

Tension Test Report (Page -1/1)

Date of Test 25-04-2022 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	Area (in²)		Yield load	Breaking Aield Stress (isq) (isq)			e Stress si)	Elongation	% Elongation	Remarks	
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	Э %	R
1	5.233	11	1.399	1.56	1.538	33200	44000	47000	47570	62200	63100	1.60	20.0	
2	5.253	11	1.402	1.56	1.544	48000	64600	67900	68520	91300	92300	1.50	18.8	teel
3	5.244	11	1.401	1.56	1.542	50000	66600	70700	71490	94100	95300	1.50	18.8	FF Steel
4	5.259	11	1.403	1.56	1.546	50600	67200	71500	72150	95000	95900	1.40	17.5	
5	5.262	11	1.403	1.56	1.547	49000	65600	69300	69830	92700	93500	1.50	18.8	
6	5.252	11	1.402	1.56	1.544	48200	64600	68100	68820	91300	92300	1.60	20.0	
7	5.270	11	1.404	1.56	1.549	47400	64000	67000	67450	90500	91100	1.70	21.3	
	1		Note	e: only	seven s	amples fo	r tensile	and thre	e sample	s for ben	d test	1		
114	1.0.0	1.00	TE1	1 1000		<u> </u>	Bend T	est						
	#11 Bar Bend Test Through 180° is Satisfactory													
#1	#11 Bar Bend Test Through 180° is Satisfactory													
#1	#11 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

Dualization of Road from Gujranwala to M-2 Interchangeat Kot Sarwar via Hafizabad km 6.20 to km 80.35 km in District Gujranwala & Hafizabad (Section km 40.20 – 55.40, L=15.20 km)

Reference # CED/TFL <u>1292 (Dr. Rizwan Azam)</u>

Reference of the request letter # SA-466F/103/GH/ML/Lab/25

Dated: 19-04-2022

Dated: 12-04-2022

Tension Test Report (Page -1/1)

Date of Test 25-04-2022 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si			Area (in²)				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)	3 %	R		
1	4.297	10	1.268	1.27	1.263	39000	53800	67700	68060	93400	93900	1.50	18.8			
2	4.264	10	1.263	1.27	1.253	30000	40200	52100	52760	69800	70700	1.50	18.8			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Note: only two sample for tensile and one sample for bend test															
Bend Test																
#10	#10 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,
Executive Engineer
Highway Division, Gujrat
(Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in District Gujrat)

Reference # CED/TFL 1312, 1385 (Dr. Rizwan Azam)

Reference of the request letter # 1096/MCB

Dated: 22-04-2022

Dated: 20-04-2022

Tension Test Report (Page -1/1)

Date of Test 25-04-2022 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	Area (in²)					Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	4.355	10	1.277	1.27	1.280	34400	54400	59700	59240	94500	93700	1.80	22.5	
2	4.155	10	1.247	1.27	1.221	34800	54000	60400	62810	93800	97500	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	est						
#10	#10 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Reference # CED/TFL 1315 (Dr. Qasim Khan)

Reference of the request letter # HRLE/SKG/2022/020

Dated: 25-04-2022

Dated: 25-04-2022

Tension Test Report (Page -1/1)

Date of Test 25-04-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize nm)		Area (in²)		Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
<i>S</i> 1	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	4.234	32	31.97	1.25	1.245	42800	66400	75486	75800	117108	117600	1.30	16.3	to el
2	4.217	32	31.91	1.25	1.239	27000	42000	47619	48020	74075	74700	1.20	15.0	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two sample for tensile and one sample for bend test														
20	Bend Test 32mm Dia Bar Bend Test Through 180° is Satisfactory													
321	nm Dia	Bar Be	nd Test	Throug	h 180° 1	s Satisfac	etory							

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