



STRUCTURAL ENGINEERING DIVISION
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 Interchange at Kot Sawar via Hafizabad km 6.20 to km 80.35 Length 74.15 km in District Gujrat & Hafizabad (Section km 23.20 – 40.20 = L = 17.00 km)

Reference # CED/TFL **1746** (Dr. Usmal Akmal)

Dated: 02-08-2022

Reference of the request letter # SA-466F/103/GH/ML/Lab/31

Dated: 29-06-2022

Tension Test Report (Page -1/1)

Date of Test

04-08-2022

Gauge length

8 inches

Description

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

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Psi)		Ultimate Stress (Psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.391	3	0.383	0.11	0.115	3500	5300	70200	67100	106200	101700	1.00	12.5	Deformed
2	0.385	3	0.380	0.11	0.113	3500	5300	70200	68090	106200	103200	0.90	11.3	
3	4.112	10	1.241	1.27	1.209	24600	39800	42700	44860	69100	72600	2.10	26.3	Plain
4	4.147	10	1.246	1.27	1.219	25000	39800	43400	45200	69100	72000	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and two samples for bend test

Bend Test

#3 Bar Bend Test Through 180° is Satisfactory

#10 Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Altec International
Lahore

Reference # CED/TFL **1747** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 02-08-2022

Dated: 02-08-2022

Tension Test Report (Page – 1/1)

Date of Test 04-08-2022
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	8.3	0.25	4600	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Ghulam Fareed
 Lahore

Reference # CED/TFL **1748** (Dr. Usmal Akmal)
 Reference of the request letter # Nil

Dated: 02-08-2022
 Dated: 02-08-2022

Tension Test Report (Page -1/1)

Date of Test 04-08-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (Psi)		Ultimate Stress (Psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.385	3	0.379	0.11	0.113	3900	5100	78200	76060	102200	99500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Admin Manager
 The Signatures
 MCB – Allhabad Branch, Gujranwala

Reference # CED/TFL **1749** (Dr. Usmal Akmal)
 Reference of the request letter # Nil

Dated: 03-08-2022
 Dated: 02-08-2022

Tension Test Report (Page -1/1)

Date of Test 04-08-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Psi)		Ultimate Stress (Psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3/8	0.375	0.11	0.110	3600	4800	72200	71960	96200	96000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Orbit Housing
 The Springs Apartment Homes, Lahore

Reference # CED/TFL 1750 (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 03-08-2022
 Dated: 02-08-2022

Tension Test Report (Page -1/1)

Date of Test 04-08-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	3	0.372	0.11	0.109	3840	5170	77000	77830	103600	104800	1.00	12.5	
2	0.368	3	0.371	0.11	0.108	3590	5100	72000	73180	102200	104000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Ibrahim Nizami Wire Ind. (Pvt) Ltd
Lahore

Reference # CED/TFL **1751** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 04-08-2022

Dated: 04-08-2022

Tension Test Report (Page – 1/1)

Date of Test 04-08-2022

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	12.70 (1/2")	775.0	768.0	17500	171.68	19300	189.33	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

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