



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 Gujranwala & Hafizabad (Section km
40.20 – 55.40, L=15.20 km)

Reference # CED/TFL **4939** (Dr. M Kashif)

Dated: 18-04-2024

Reference of the request letter # SA-466F/103/GH/ML/Lab/99

Dated: 29-03-2024

Tension Test Report (Page # 1/1)

Date of Test 19-04-2024

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	4.144	10	1.245	1.27	1.218	37000	52400	64300	66960	91000	94900	1.60	20.0	
2	4.169	10	1.249	1.27	1.225	35800	51200	62200	64390	88900	92100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

Manager, Construction S-2
Allied Bank Limited,
Engineering Cell, South – II
Multan
(ABL New Grain Market Branch, Rahim Yar Khan (1075), Region Rahim Yar Khan.)

Reference # CED/TFL **4942** (Dr. M Kashif)

Dated: 18-04-2024

Reference of the request letter # GHQ/S2/CRM/MA/2024/140

Dated: 17-04-2024

Tension Test Report (Page # 1/1)

Date of Test 19-04-2024

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	Grad
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.107	3540	5050	71000	72610	101200	103600	1.00	12.5	SJ Steel
2	0.364	3	0.369	0.11	0.107	3490	4990	70000	71860	100000	102800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
Faisal Siddique
Lahore

Reference # CED/TFL **4944** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 18-04-2024
Dated: 18-04-2024

Tension Test Report (Page -1/1)

Date of Test 19-04-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.400	3	0.387	0.11	0.118	4430	5270	88800	82970	105600	98700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Resident Engineer
New Vision Engineering Consultant.
Strengthening, Infrastructure and Academic Programs of Government College Women
University Sialkot. Construction of Faculty Natural Sciences Block (First Floor) Group-01.

Reference # CED/TFL **4945** (Dr. M Kashif)
Reference of the request letter # NVEC/GCWUS/FNS-19

Dated: 18-04-2024
Dated: 06-03-2024

Tension Test Report (Page # 1/1)

Date of Test 19-04-2024
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	0.376	3	0.375	0.11	0.110	3590	4910	72000	71690	98400	98100	1.20	15.0	
2	0.377	3	0.376	0.11	0.111	3740	4990	75000	74370	100000	99300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,

Director Projects
Sheikhoo Sugar Mills (Steel Division)
Sheikhoo Steel
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **4946** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 18-04-2024
Dated: 17-04-2024

Tension Test Report (Page -1/1)

Date of Test 19-04-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.412	10	9.97	0.12	0.121	3940	5420	72384	71780	99574	98800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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To,
M/S Steel Complex (Pvt) Limited
Lahore

Reference # CED/TFL **4948** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 19-04-2024

Dated: 16-04-2024

Tension Test Report (Page – 1/1)

Date of Test 19-04-2024
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	9.53 (3/8")	430.0	431.0	9300	91.23	10700	104.97	>3.50	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

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