



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

To,
M/S Premium Engineering
Lahore

Reference # CED/TFL **4084** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 20-10-2023

Dated: 14-10-2023

Tension Test Report (Page – 1/1)

Date of Test 25-10-2023
Gauge length 2 inches
Description GI Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	GI Strip	24.00x1.30	31.20	-----	2200	-----	692	0.20	10.00	
2	GI Strip	24.10x1.40	33.74	-----	2320	-----	675	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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
Construction of 8-Lane Overhead Bridge at Imamia Colony.

Reference # CED/TFL **4085** (Dr. Asif Hameed)
Reference of the request letter # RE/4537/02/MH/128

Dated: 20-10-2023
Dated: 16-10-2023

Tension Test Report (Page -1/4)

Date of Test 25-10-2023
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	780.0	781	17900	175.60	19800	194.24	198	>3.50	xx
2	12.70 (1/2")	780.0	785	17800	174.62	19700	193.26	199	>3.50	xx
3	12.70 (1/2")	780.0	785	17900	175.60	19700	193.26	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only three samples for Test

Witness by Mr. Shafqar Ishaq (M.E NESPAK)

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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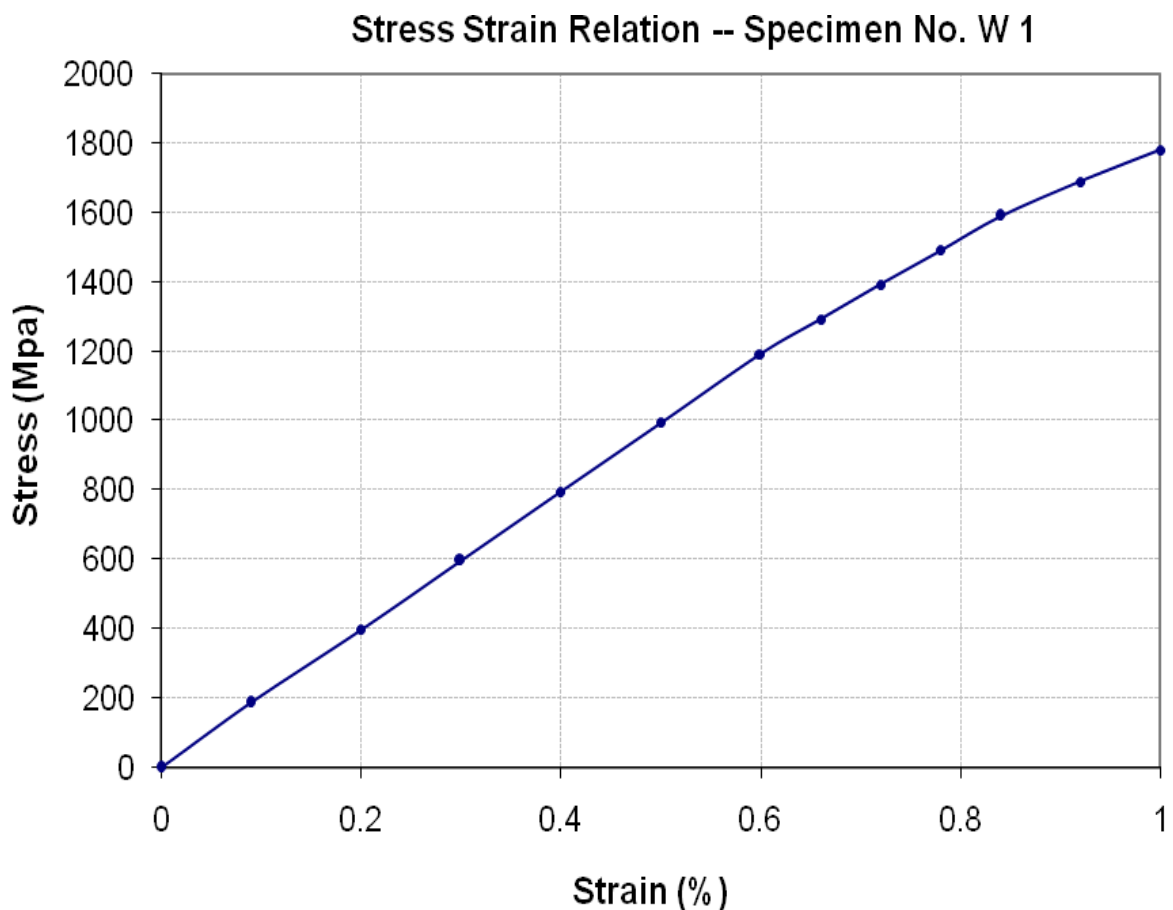
To,

Resident Engineer
NESPAK
Construction of 8-Lane Overhead Bridge at Imamia Colony.

Reference # CED/TFL **4085** (Dr. Asif Hameed)
Reference of the request letter # RE/4537/02/MH/128

Dated: 20-10-2023
Dated: 16-10-2023

Graph (Page – 2/4)



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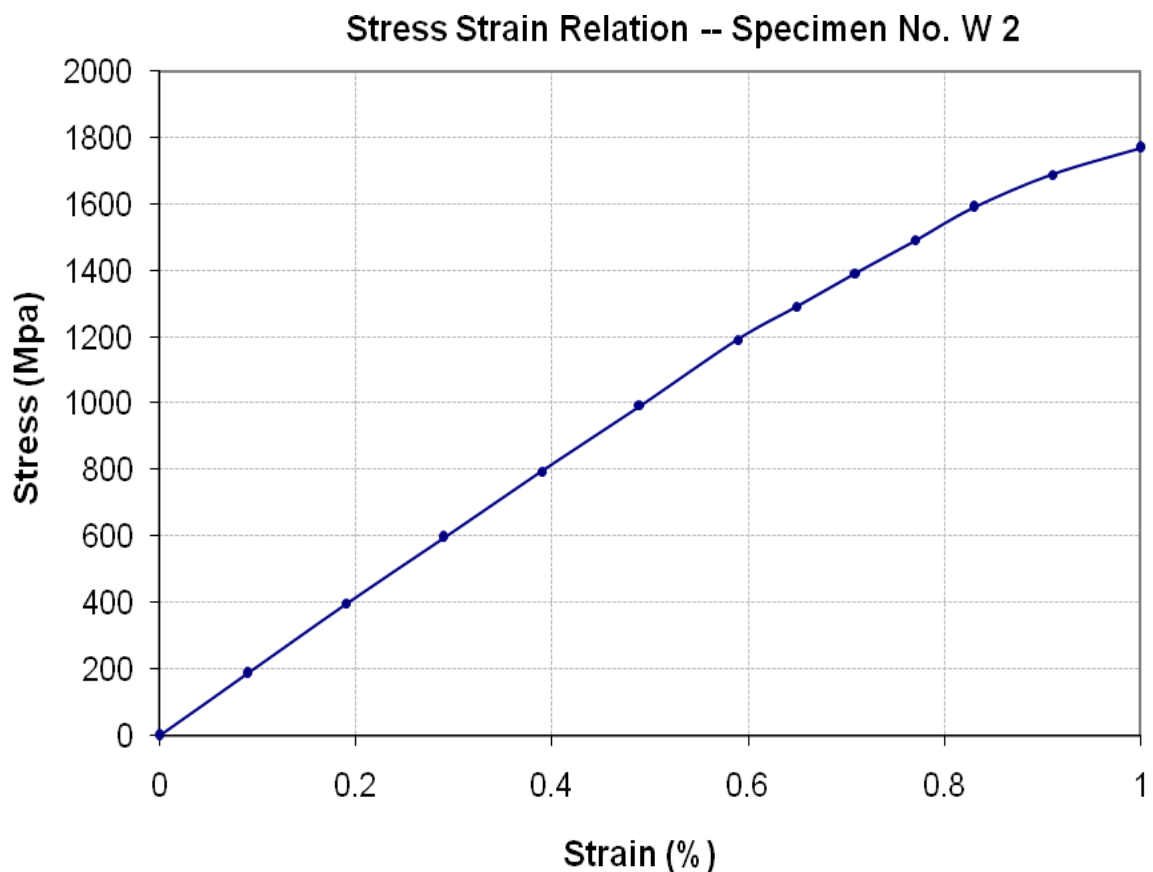
To,

Resident Engineer
NESPAK
Construction of 8-Lane Overhead Bridge at Imamia Colony.

Reference # CED/TFL **4085** (Dr. Asif Hameed)
Reference of the request letter # RE/4537/02/MH/128

Dated: 20-10-2023
Dated: 16-10-2023

Graph (Page – 3/4)



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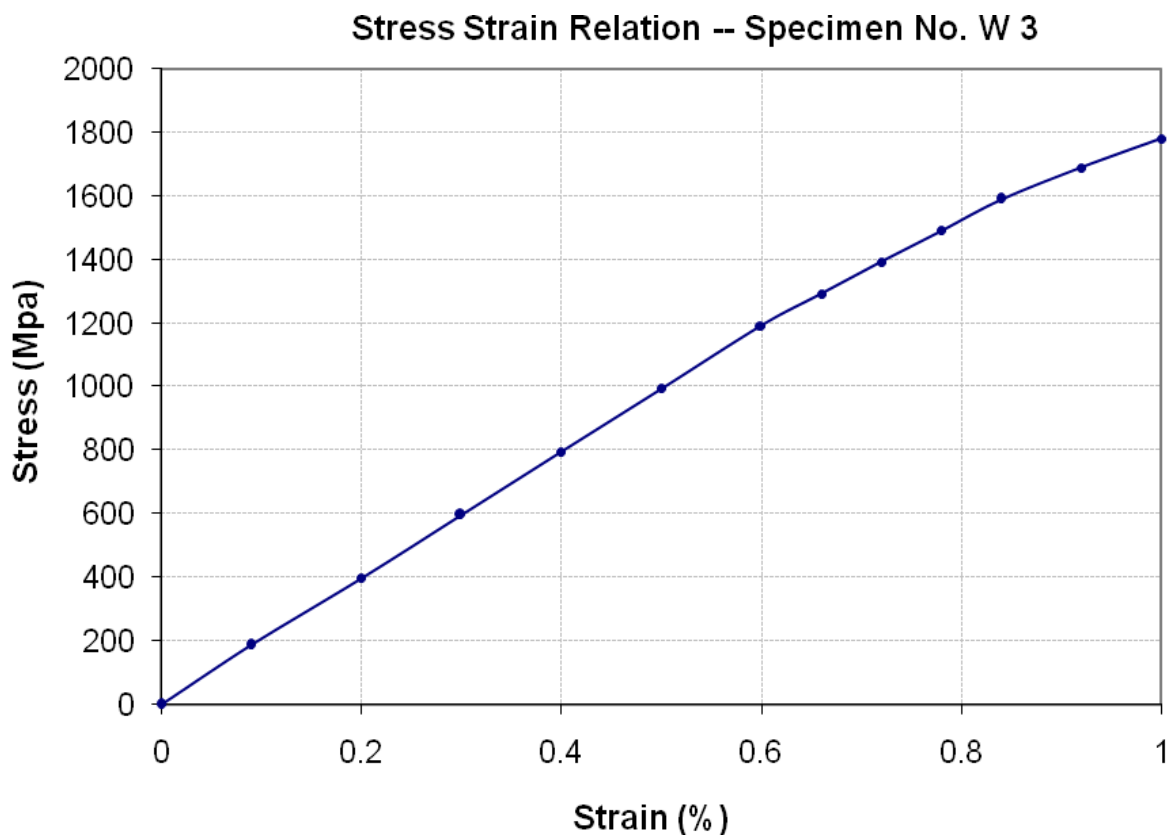
To,

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NESPAK
Construction of 8-Lane Overhead Bridge at Imamia Colony.

Reference # CED/TFL **4085** (Dr. Asif Hameed)
Reference of the request letter # RE/4537/02/MH/128

Dated: 20-10-2023
Dated: 16-10-2023

Graph (Page – 4/4)



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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
 Development of a Controlled Access Corridor Facility from Niazi Interchange to Babu Sabu Interchange, Lahore, Package – II (km 3+650 to km 7+300)

Reference # CED/TFL **4086** (Dr. Safer Abbass)

Dated: 20-10-2023

Reference of the request letter # 3772/103/NBI(P-II)/MWA/04/34

Dated: 20-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023

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	4.330	10	1.273	1.27	1.273	34600	53200	60100	59920	92400	92200	1.30	16.3	Moiz Steel
2	4.325	10	1.272	1.27	1.271	35600	53800	61800	61720	93400	93300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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
 Development of Signal Free Corridor from Main Boulevard Gulberg (Center Point) to
 Walton Road (Defence Morr), Underpass at Khalid Butt Chowk, Lahore.

Reference # CED/TFL **4087** (Dr. Ali Ahmed)

Dated: 23-10-2023

Reference of the request letter # 3772/103/KBC/SA/04/40

Dated: 11-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023

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	0.374	3	0.374	0.11	0.110	3300	5000	66200	66180	100200	100300	1.30	16.3	Batala Premium
2	0.374	3	0.374	0.11	0.110	3400	5000	68200	68230	100200	100400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

M/S Al-Mustafa Contractor (Pvt) Ltd.
Lahore
(Construction of PTCL Exchange at Sadiqabad)

Reference # CED/TFL **4090** (Dr. Ali Ahmed)
Reference of the request letter # AMC/UET/1682-23

Dated: 23-10-2023
Dated: 23-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023
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	0.421	3/8	0.397	0.11	0.124	4800	6000	96200	85400	120300	106800	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Material Engineer
NESPAK
Punjab Intermediated Cities Improvement Investment Program (PICIP)
Consultancy Services for Engineering, Procurement and Construction Management
Trunk Main Sewer, Effluent Pumping Station and Allied Works (Lot-04)
Upgradation / Rehabilitation of Existing Road, Streets and Pavements in Sahiwal.

Reference # CED/TFL **4092** (Dr. Ali Ahmed)

Dated: 23-10-2023

Reference of the request letter # 3976/11/MS/SWL/Lot-4/01

Dated: 20-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023

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	0.373	3	0.373	0.11	0.110	3200	4900	64200	64380	98200	98600	1.40	17.5	Aziz Steel
2	0.374	3	0.374	0.11	0.110	3200	4900	64200	64190	98200	98300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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

To,

Hasnain Sheikh
ES Consulting (Pvt) Ltd.
Construction/ Renovation of Toilet Facilities in 2 Locations in District Bahawalpur
(South Zone).

Reference # CED/TFL **4093** (Dr. Ali Ahmed)
Reference of the request letter # RE/TOL/PTEGP/ESC 02

Dated: 23-10-2023
Dated: 18-09-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023
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	0.380	3	0.377	0.11	0.112	3900	5100	78200	76900	102200	100600	0.90	11.3	
2	0.385	3	0.380	0.11	0.113	3600	5200	72200	70030	104200	101200	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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
 Remodeling and Upgradation of Ada Nullah & Walton Road Lahore.

Reference # CED/TFL **4094** (Dr. Ali Ahmed)
 Reference of the request letter # 4322/13/HSR/09/02

Dated: 23-10-2023
 Dated: 20-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023
 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	0.366	3	0.370	0.11	0.108	3600	4900	72200	73740	98200	100400	1.40	17.5	Mughal Steel
2	0.366	3	0.370	0.11	0.108	3600	4800	72200	73710	96200	98300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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

To,
 Manager Civil
 Nishat Mills Limited
 Dyeing & Finishing Plant, Lahore

Reference # CED/TFL **4096** (Dr. Alif Ahmed)
 Reference of the request letter # NDF/SJST/003

Dated: 24-10-2023
 Dated: 23-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.419	10	10.05	0.12	0.123	3700	5700	67975	66270	104719	102100	1.20	15.0	S-J Steel
2	0.413	10	9.98	0.12	0.121	3700	5500	67975	67200	101044	99900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,

Project Manager
 Techno Consult International (Pvt) Ltd
 PRSWSS Project - North
 Construction of Water Supply and Sewerage System in KLK - 01

Reference # CED/TFL **4100** (Dr. Ali Ahmed)

Dated: 24-10-2023

Reference of the request letter # TCI/PRSWSSP-NORTH.PHASE-I/080

Dated: 24-10-2023

Tension Test Report (Page -1/1)

Date of Test 25-10-2023

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	3200	4700	64200	64000	94200	94000	1.60	20.0	Ittehad Steel
2	0.372	3/8	0.373	0.11	0.109	3300	4700	66200	66510	94200	94800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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