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 Flyover on Rajjar Railway Crossing at Sarai Alamgir District Gujrat.
(United Wire)

Reference # CED/TFL **5009** (Dr. M Kashif) Dated: 30-04-2024
Reference of the request letter # 4376/103/KT/01/01 Dated: 25-04-2024

Tension Test Report (Page -1/4)

Date of Test 10-05-2024
Gauge length 600 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	781.0	18000	176.58	19900	195.22	199	>3.50	xx
2	12.70 (1/2")	780.0	782.0	17800	174.62	19800	194.24	198	>3.50	xx
3	12.70 (1/2")	780.0	782.0	18100	177.56	20200	198.16	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only three samples for Test										

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

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
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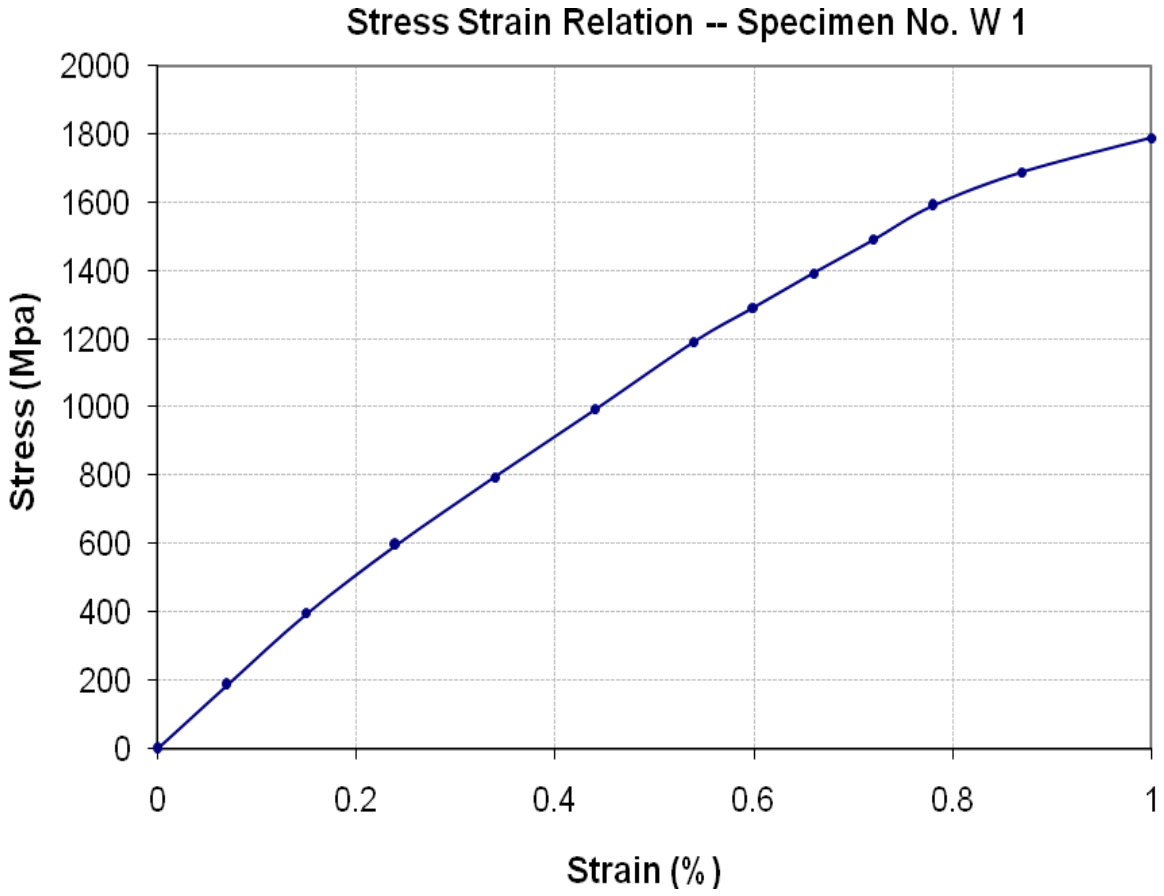
To,

Resident Engineer
NESPAK
Construction of Flyover on Rajjar Railway Crossing at Sarai Alamgir District Gujrat.

Reference # CED/TFL **5009** (Dr. M Kashif) Dated: 30-04-2024
Reference of the request letter # 4376/103/KT/01/01 Dated: 25-04-2024

Graph (Page – 2/4)



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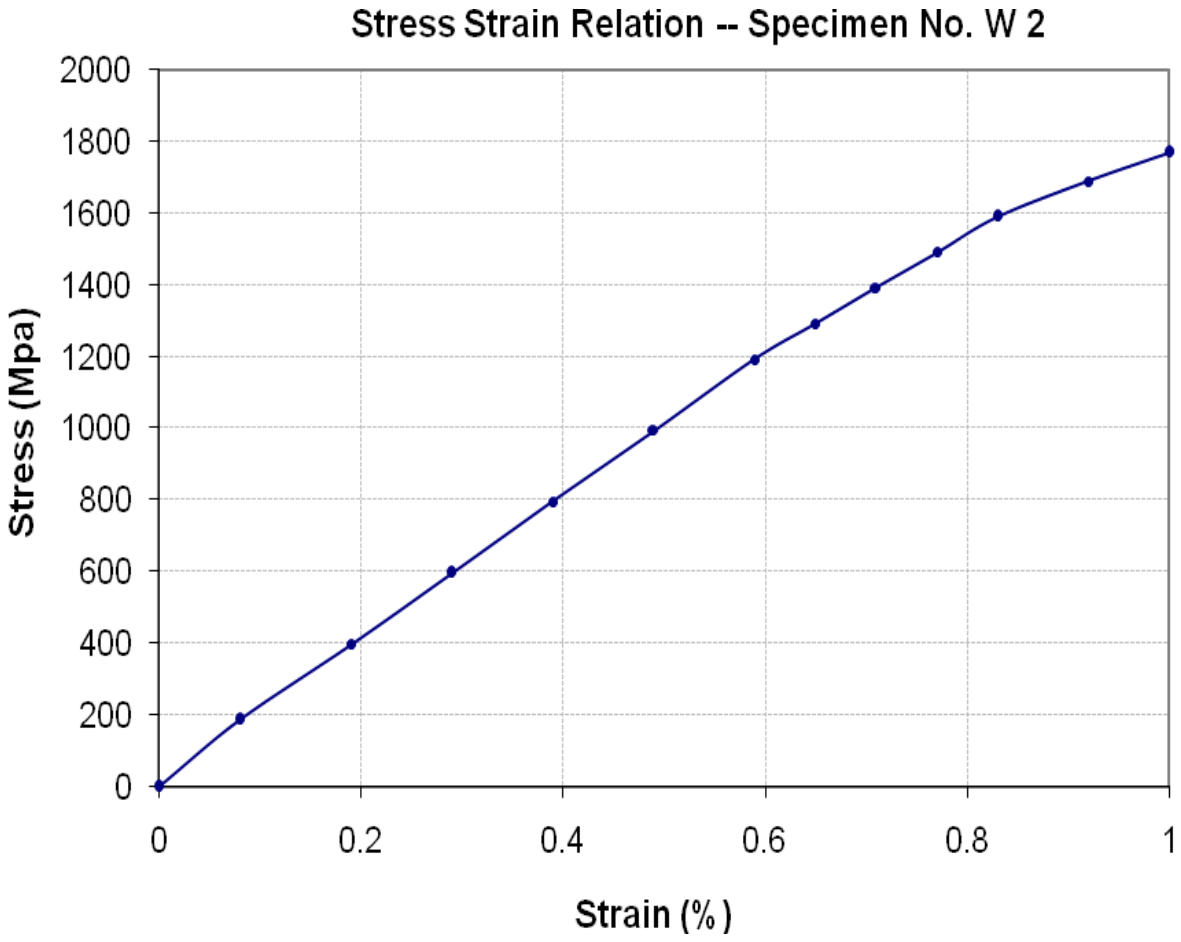
To,

Resident Engineer
NESPAK
Construction of Flyover on Rajjar Railway Crossing at Sarai Alamgir District Gujrat.

Reference # CED/TFL **5009** (Dr. M Kashif) Dated: 30-04-2024
Reference of the request letter # 4376/103/KT/01/01 Dated: 25-04-2024

Graph (Page – 3/4)



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To,

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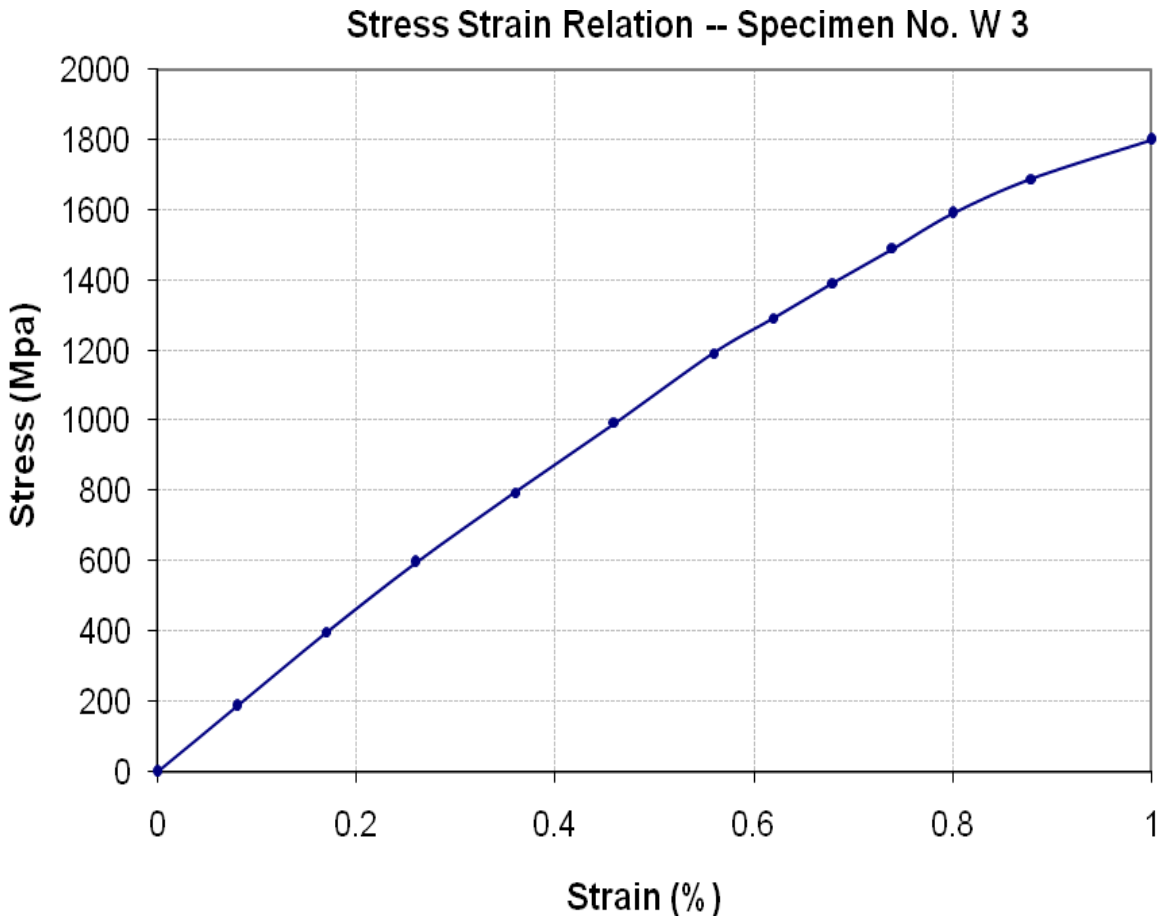
NESPAK
Construction of Flyover on Rajjar Railway Crossing at Sarai Alamgir District Gujrat.

Reference # CED/TFL **5009** (Dr. M Kashif) Dated: 30-04-2024
Reference of the request letter # 4376/103/KT/01/01 Dated: 25-04-2024

Graph (Page – 4/4)



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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,

M/S Banu Mukhtar Product (Pvt) Ltd
Lahore

Reference # CED/TFL **5020** (Dr. M Kashif) Dated: 03-05-2024
Reference of the request letter # Nil Dated: 02-05-2024

Tension Test Report (Page – 1/1)

Date of Test 10-05-2024
Gauge length 600 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**	**445.0**	**9200**	**90.25**	**10800**	**105.95**	**>3.50**	**SAT-2**
2	**9.53 (3/8")**	**430.0**	**448.0**	**7500**	**73.58**	**10800**	**105.95**	**>3.50**	**SAT-3**
3	**9.53 (3/8")**	**430.0**	**438.0**	**8300**	**81.42**	**10800**	**105.95**	**>3.50**	**SAT-4**
4	**9.53 (3/8")**	**430.0**	**444.0**	**9300**	**91.23**	**10800**	**105.95**	**>3.50**	**SAT-5**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only four samples for Test									

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
Dualization & Improvement of Old Bannu Road / Domail – Khurram Road Project (P – 01) (WMI)

Reference # CED/TFL **5034** (Dr. M Kashif) Dated: 07-05-2024
Reference of the request letter # 3968/OBR/P-01/RE/MI/1342 Dated: 06-05-2024

Tension Test Report (Page -1/2)

Date of Test 10-05-2024
Gauge length 600 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**	**790.0**	**17800**	**174.62**	**20000**	**196.20**	**198**	**>3.50**	**25375**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample for Test										

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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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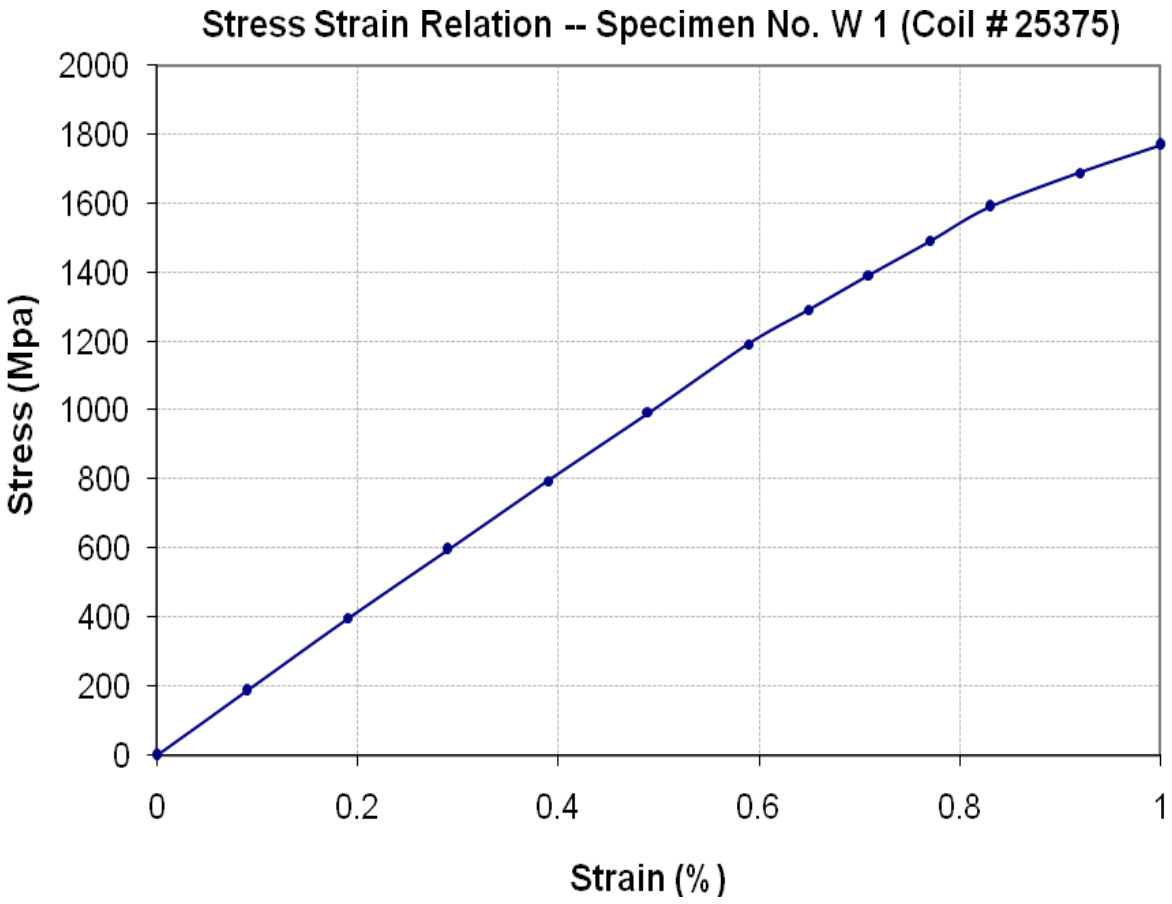
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Dualization & Improvement of Old Bannu Road / Domail – Khurram Road Project (P – 01) (WMI)

Reference # CED/TFL **5034** (Dr. M Kashif) Dated: 07-05-2024
Reference of the request letter # 3968/OBR/P-01/RE/MI/1342 Dated: 06-05-2024

Graph (Page – 2/2)



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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
Dualization & Improvement of Old Bannu Road / Domail – Khurram Road Project (P – 01) (WMI)(Old)

Reference # CED/TFL **5035** (Dr. M Kashif) Dated: 07-05-2024
Reference of the request letter # 3968/OBR/P-01/RE/MI/1341 Dated: 06-05-2024

Tension Test Report (Page -1/2)

Date of Test 10-05-2024
Gauge length 600 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**	**784.0**	**17900**	**175.60**	**19600**	**192.28**	**199**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample for Test										

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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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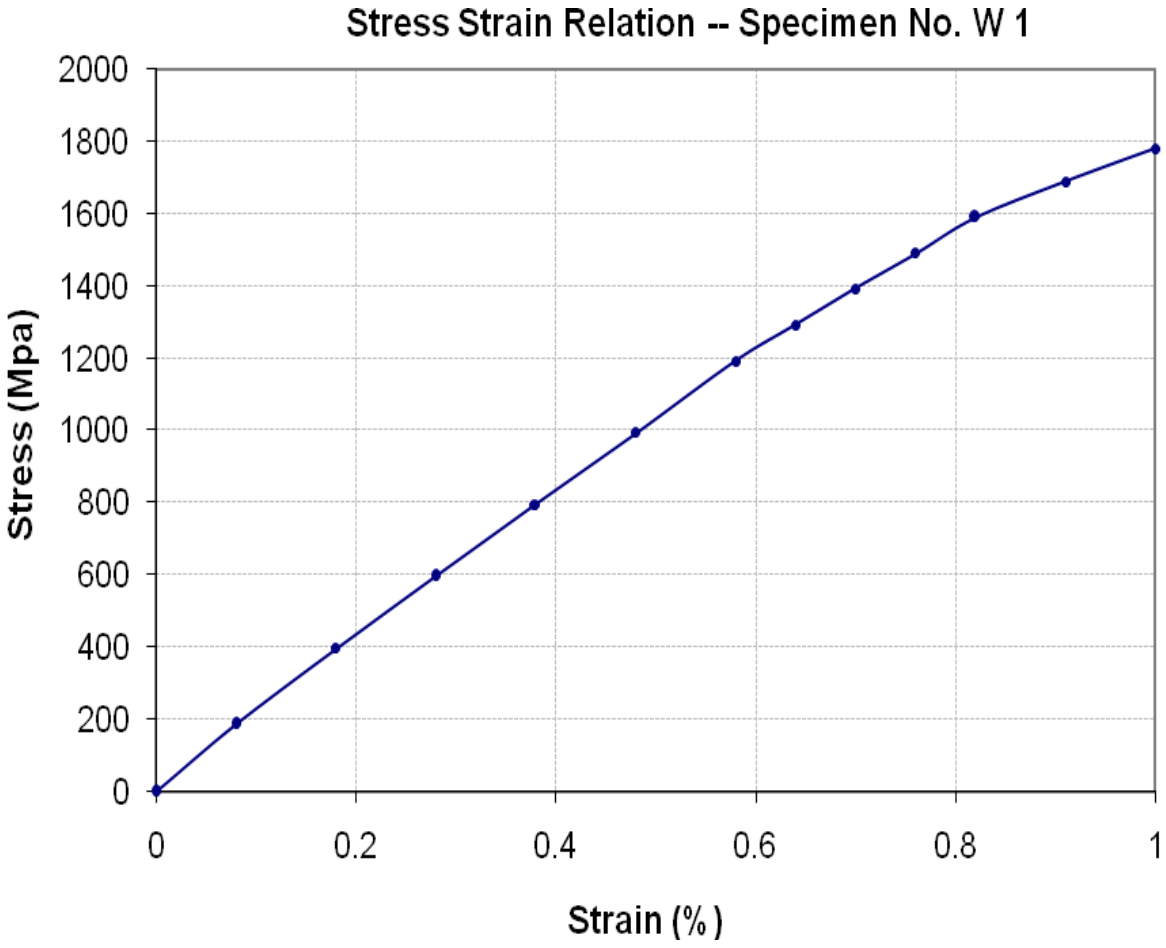
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Dualization & Improvement of Old Bannu Road / Domail – Khurram Road Project (P – 01) (WMI)(Old)

Reference # CED/TFL **5035** (Dr. M Kashif) Dated: 07-05-2024
Reference of the request letter # 3968/OBR/P-01/RE/MI/1341 Dated: 06-05-2024

Graph (Page – 2/2)



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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,

M/S Design & Build
Gulberg-II, Lahore
(Bank Alfalah IBG GC Women University, Faisalabad.)

Reference # CED/TFL **5049** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # Nil Dated: 08-05-2024

Tension Test Report (Page # 1/1)

Date of Test 10-05-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.368	3	0.371	0.11	0.108	3640	4640	73000	74110	93000	94500	1.40	17.5	
-	0.368	3	0.371	0.11	0.108	3720	4690	74600	75740	94000	95500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,

AGM,
Design & Construction Department-HO
City Schools (Pvt) Ltd.
Project: Iqbal Campus Sialkot Phase-II.

Reference # CED/TFL **5050** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # TCS/D&C/HO/001/SKT/2024 Dated: 09-05-2024

Tension Test Report (Page # 1/1)

Date of Test 10-05-2024
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	0.358	3	0.366	0.11	0.105	3410	4510	68400	71450	90400	94500	1.20	15.0	
2	0.356	3	0.365	0.11	0.105	3430	4540	68800	72210	91000	95600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Dualization of Road from Mandi Baha-ud-Din to Sarai Alam Gir Canal Pull Mian GT Road via Village Rasool, Mandi Baha-ud-Din. (Length = 46km.) (WMI).

Reference # CED/TFL **5052** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # 4376-D/103/KT/03/293 Dated: 25-04-2024

Tension Test Report (Page -1/4)

Date of Test 10-05-2024
Gauge length 600 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**	**786.0**	**18700**	**183.45**	**20200**	**198.16**	**199**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**783.0**	**18400**	**180.50**	**20300**	**199.14**	**199**	**>3.50**	**xx**
3	**12.70 (1/2")**	**780.0**	**785.0**	**18600**	**182.47**	**20100**	**197.18**	**198**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only three samples for Test										

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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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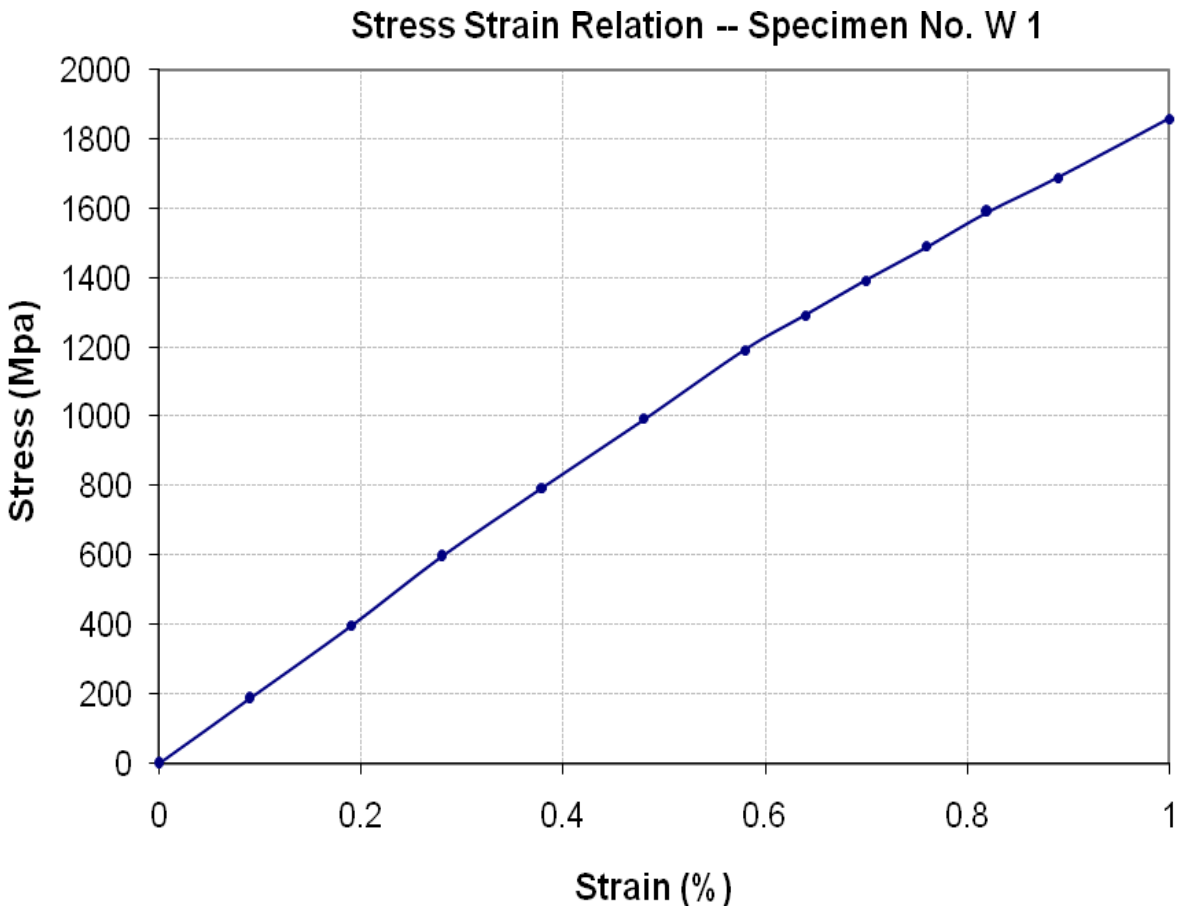
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Dualization of Road from Mandi Baha-ud-Din to Sarai Alam Gir Canal Pull Mian GT Road via Village Rasool, Mandi Baha-ud-Din. (Length = 46km.) (WMI).

Reference # CED/TFL **5052** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # 4376-D/103/KT/03/293 Dated: 25-04-2024

Graph (Page – 2/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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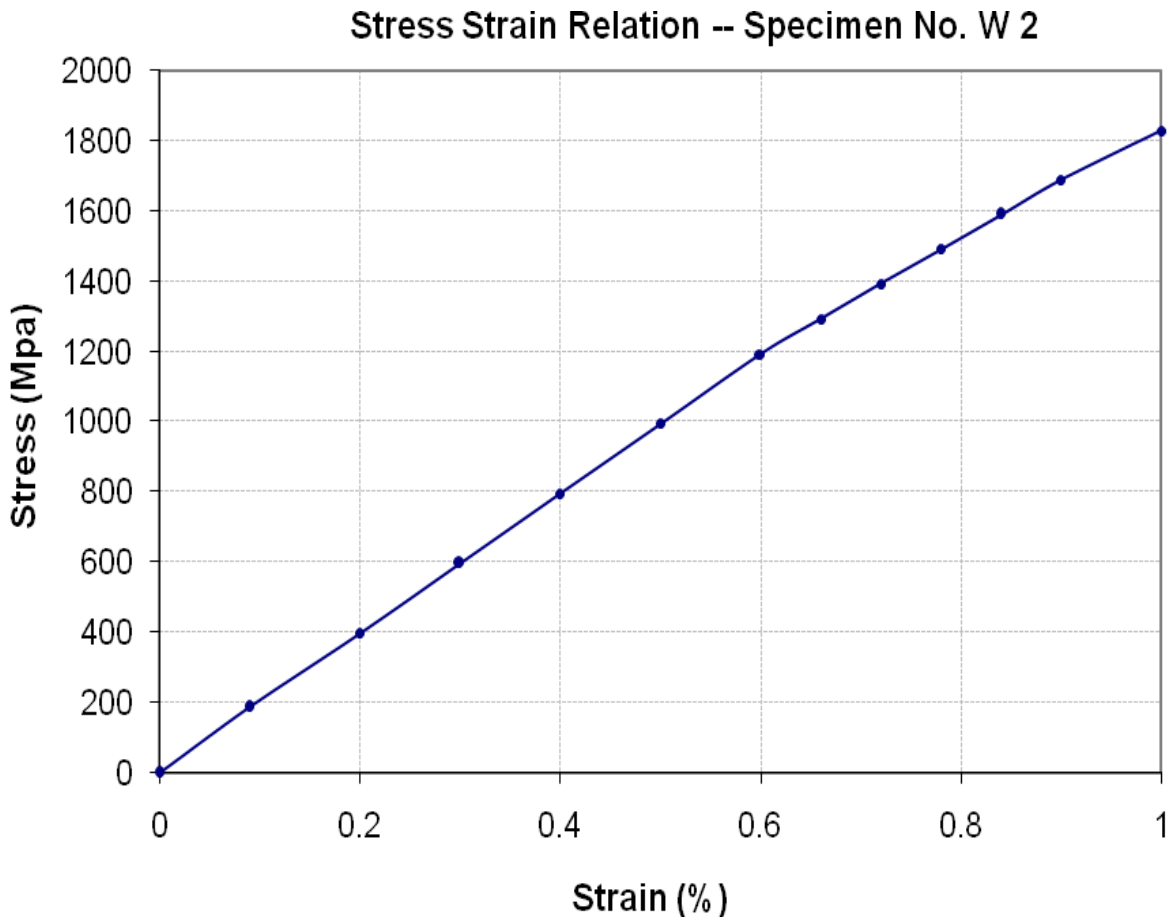
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Dualization of Road from Mandi Baha-ud-Din to Sarai Alam Gir Canal Pull Mian GT Road via Village Rasool, Mandi Baha-ud-Din. (Length = 46km.) (WMI).

Reference # CED/TFL **5052** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # 4376-D/103/KT/03/293 Dated: 25-04-2024

Graph (Page – 3/4)



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UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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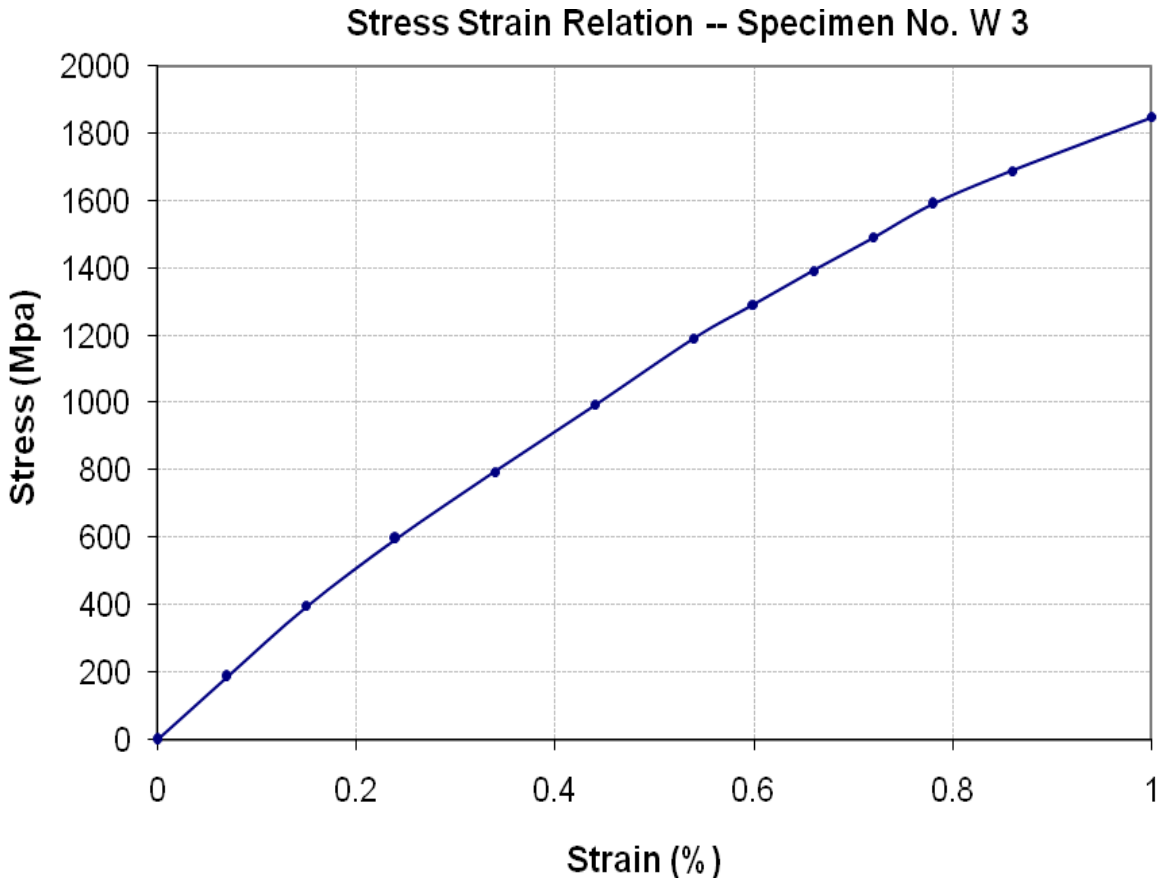
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Dualization of Road from Mandi Baha-ud-Din to Sarai Alam Gir Canal Pull Mian GT Road via Village Rasool, Mandi Baha-ud-Din. (Length = 46km.) (WMI).

Reference # CED/TFL **5052** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # 4376-D/103/KT/03/293 Dated: 25-04-2024

Graph (Page – 4/4)



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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
Storm Water Drainage System from Sham Nagar to Rivrer Ravi, Lahore (Package-II)

Reference # CED/TFL **5056** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # 3882/11/MM/01/370 Dated: 08-05-2024

Tension Test Report (Page # 1/1)

Date of Test 10-05-2024
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	0.370	3	0.372	0.11	0.109	3280	4890	65800	66450	98000	99100	1.20	15.0	
2	0.373	3	0.374	0.11	0.110	3260	4790	65400	65500	96000	96300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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

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 / Project Manager
Master Consulting Engineers (Pvt) Ltd.
Lot-2 Conservation & Rehabilitation of Building / Facade Work on East Side-1.

Reference # CED/TFL **5057** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # MCE/RE/PBG-LHR/SteelTest/2024/22 Dated: 06-05-2024

Tension Test Report (Page # 1/1)

Date of Test 10-05-2024
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	0.359	3	0.367	0.11	0.106	3260	4380	65400	68090	87800	91500	1.10	13.8	
2	0.371	3	0.373	0.11	0.109	3440	4600	69000	69510	92200	93000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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2. The above results pertain to sample /samples supplied to this laboratory.
3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

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
Engineering Consultancy Services Punjab (Pvt) Ltd.
CM-Package WASA, Faisalabad.
(Construction of Disposal Station at Dijkot Faisalabad.)

Reference # CED/TFL **5058** (Dr. M Kashif) Dated: 09-05-2024
Reference of the request letter # ECSP/CM Package-554 Dated: 07-02-2024

Tension Test Report (Page # 1/1)

Date of Test 10-05-2024
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	0.377	3	0.375	0.11	0.111	3490	4890	70000	69470	98000	97400	1.20	15.0	Batala Super.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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

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 Klash Private Limited.
Faisalabad

Reference # CED/TFL **5059** (Dr. Asad Ali) Dated: 10-05-2024
Reference of the request letter # Nil Dated: 09-05-2024

Tension Test Report (Page # 1/1)

Date of Test 10-05-2024
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	0.366	3	0.370	0.11	0.108	3640	4660	73000	74510	93400	95400	1.20	15.0	
2	0.370	3	0.372	0.11	0.109	3720	4710	74600	75480	94400	95600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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