



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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **4702** (Dr. M Rizwan Riaz)
Reference of the request letter # VECO/26022024/01/9288/

Dated: 27-02-2024
Dated: 26-02-2024

Tension Test Report (Page – 1/1)

Date of Test 04-03-2024
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	435.0	9700	95.16	10600	103.99	>3.50	1
2	9.53 (3/8")	430.0	435.0	9300	91.23	10900	106.93	>3.50	2
3	9.53 (3/8")	430.0	437.0	10200	100.06	11200	109.87	>3.50	3
4	9.53 (3/8")	430.0	437.0	-----	-----	7400	72.59	<3.50 Not ok	4
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	

Only four samples for Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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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
Kotla Mosa Khan to Kachi Mor Ans Flyover at Firdus Cineme Phatak, District
Bahawalpur.

Reference # CED/TFL **4709** (Dr. M Rizwan Riaz)
Reference of the request letter # RE/MSA/BWP/31

Dated: 28-02-2024
Dated: 19-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	0.379	3	0.377	0.11	0.111	3770	4810	75600	74620	96400	95300	1.20	15.0	FF Steel
2	0.381	3	0.377	0.11	0.112	3770	4860	75600	74260	97400	95800	1.30	16.3	
3	4.328	10	1.273	1.27	1.272	41200	56400	71500	71380	97900	97800	1.40	17.5	
4	4.321	10	1.272	1.27	1.270	41600	56800	72200	72190	98600	98600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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,
Unicon Consulting Services (Pvt) Ltd.
Arts, Culture & Humanities Building at University of Agriculture, Faisalabad.

Reference # CED/TFL **4710** (Dr. M Kashif)
Reference of the request letter # Unicon/UAF/T.B

Dated: 28-02-2024
Dated: 16-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	0.376	3	0.375	0.11	0.111	4100	5150	82200	81760	103200	102700	0.90	11.3	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Prime Engineering & Testing Consultants (Pvt) Ltd.
 Construction of Link Highway (4 Lane) Connecting LSM at Umerkot to Narowal via
 Narag Mandi (73 km).
 Package-III (from km 48+000 to km 62+330) including Narowal Eastern Bypass (10.30
 km), Length (24.60 km).

Reference # CED/TFL **4711** (Dr. M Rizwan Riaz)

Dated: 28-02-2024

Reference of the request letter # PE-ACE-P/LSM-NMN/2024/042

Dated: 28-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024

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	4.131	32	31.58	1.25	1.214	37400	51400	65962	67900	90653	93400	1.70	21.3	Mughal Steel
2	4.131	32	31.58	1.25	1.214	37200	51400	65609	67530	90653	93400	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Bar Bend Test Through 180° is Satisfactory														

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,

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

Reference # CED/TFL **4713** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 29-02-2024
Dated: 27-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	0.367	3	0.370	0.11	0.108	3690	4660	74000	75500	93400	95400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratories
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 Engineer
Defence Housing Authority, Gujranwala
"Construction of Office Complex DHA Gujranwala"

Reference # CED/TFL **4715** (Dr. M Kashif)

Dated: 29-02-2024

Reference of the request letter # 111/3/PE Works Sec/Gen/67

Dated: 29-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024

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	0.369	3	0.372	0.11	0.108	3230	4810	64800	65670	96400	97800	1.20	15.0	Siraj Steel
2	0.375	3	0.375	0.11	0.110	3430	4840	68800	68560	97000	96800	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.

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
 ACE - ARTS (Consultants)
 Establishment of University of Applied Engineering and Emerging Technologies
 (UAEET) Sambrial, Sialkot

Reference # CED/TFL **4716** (Dr. M Kashif)
 Reference of the request letter # ER/UAEET/ACE/ME/03

Dated: 29-02-2023
 Dated: 29-02-2023

Tension Test Report (Page -1/2)

Date of Test 04-03-2024
 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	0.371	3	0.372	0.11	0.109	3540	4640	71000	71630	93000	93900	1.20	15.0	Sheikhoo Steel
2	0.369	3	0.371	0.11	0.108	3540	4690	71000	71990	94000	95400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 ACE - ARTS (Consultants)
 Establishment of University of Applied Engineering and Emerging Technologies
 (UAEET) Sambrial, Sialkot

Reference # CED/TFL **4716** (Dr. M Kashif)
 Reference of the request letter # ER/UAEET/ACE/ME/02

Dated: 29-02-2023
 Dated: 29-02-2023

Tension Test Report (Page -2/2)

Date of Test 04-03-2024
 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	0.374	3	0.374	0.11	0.110	3410	4710	68400	68320	94400	94400	1.30	16.3	SJ Steel Heat # 517-P
2	0.374	3	0.374	0.11	0.110	3470	4740	69600	69560	95000	95100	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,

Resident Engineer,
 NESPAK – TurkPak
 Construction of Green Building for EMC, EPD and Allied New Entities Established
 under PGDP (DLI-2, PGDP) Lahore.

Reference # CED/TFL **4717** (Dr. M Kashif)

Dated: 29-02-2024

Reference of the request letter # NESPAK-TURKPAK JV/RE/GBL/2024/02 Dated: 29-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024

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	0.379	3	0.377	0.11	0.111	3260	4890	65400	64500	98000	96800	1.10	13.8	Markhor Steel
2	0.375	3	0.374	0.11	0.110	3210	4890	64400	64270	98000	98000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

HQ 495 Engr Group
National Hockey Stadium
C/O Sigcen Lahore

Reference # CED/TFL **4718** (Dr. M Kashif)
Reference of the request letter # PC 920 Testing/Steel/Ord

Dated: 29-02-2024
Dated: 29-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	0.383	3	0.379	0.11	0.113	3570	5450	71600	69910	109200	106800	1.10	13.8	Aziz Steel
2	0.379	3	0.377	0.11	0.112	3360	4690	67400	66410	94000	92700	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,

Resident Engineer, 4376-E
 NESPAK
 Dualization of Sargodha, Khushab, Mainwali Road (Group-IV from km 244.81 to 267.37
 = 22.56 km)

Reference # CED/TFL **4720** (Dr. M Kashif)
 Reference of the request letter # RE/4376-E/JQK/4d/414

Dated: 01-03-2024
 Dated: 15-02-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
 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	0.380	3	0.377	0.11	0.112	3640	4400	73000	71800	88200	86800	1.50	18.8	SupremeSteel
2	0.383	3	0.378	0.11	0.113	3620	4400	72600	70920	88200	86200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

Ref: CED/TFL/03/4727

Dated: 04-03-2024

Dated of Test: 04-03-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG No. MK-59 (NTS with Harding)
(Page # 1/2)

Reference to your Letter No. NTS/DC-Lug 59/DC/24, dated: 04/03/2024, on the subject cited above. One Lug No. Sr. 1 (dia 44.0 mm, Length 66.50mm) with assembly as received by us have been tested. The results are shown below:

Sample No. : 1
Breaking Load : 13700 kg
Remarks : Hook Break

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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

Ref: CED/TFL/03/4727

Dated: 04-03-2024

Dated of Test: 04-03-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG) (MK-2) No. - 43A (ATR) (NTS with
Harding) (Page # 2/2)

Reference to your Letter No. NTS/DC-Lug 43A/DC/24, dated: 04/03/2024, on the subject cited above. One Lug No. Sr. 2 (dia 44 mm, Length 59mm) with assembly as received by us has been tested. The results are shown below:

Sample No. : 1
Breaking Load : 12700 kg
Remarks : Hook Break

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
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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,
Muhammad Irfan
M.I.C
Construction of Coca Cola Factory Lahore.

Reference # CED/TFL **4732** (Dr. Kashif Ali)
Reference of the request letter # ST/UET/01032024/3000

Dated: 04-03-2024
Dated: 01-03-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	0.374	3	0.374	0.11	0.110	3740	4740	75000	75000	95000	95100	1.40	17.5	
2	0.374	3	0.374	0.11	0.110	3720	4740	74600	74600	95000	95100	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 Laboratories
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 New 4-Lane Ravi Bridge Over River Ravi, Lahore.
(WMI)

Reference # CED/TFL **4734** (Dr. Ubaid Ahmed)
Reference of the request letter # 4537/03/MSA/09/205

Dated: 04-03-2024
Dated: 04-03-2024

Tension Test Report (Page -1/3)

Date of Test 05-03-2024
Gauge length 640 mm
Description Steel S
trand 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	780.0	17700	173.64	19800	194.24	198	>3.50	25249
2	12.70 (1/2")	780.0	784.0	18000	176.58	20200	198.16	199	>3.50	25250
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only two samples for Test

Witness by Habib (Lab. Tech. 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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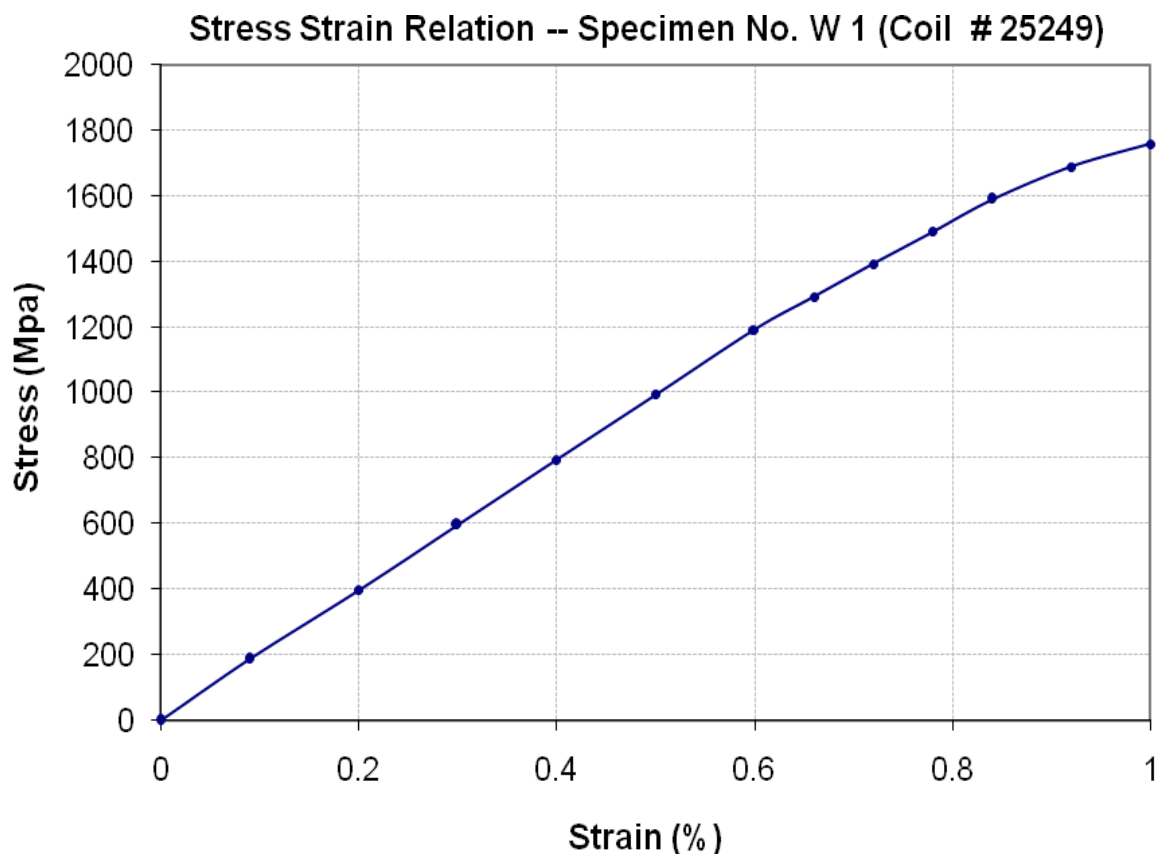
To,

Resident Engineer
NESPAK
Construction of New 4-Lane Ravi Bridge Over River Ravi, Lahore.
(WMI)

Reference # CED/TFL **4734** (Dr. Ubaid Ahmed)
Reference of the request letter # 4537/03/MSA/09/205

Dated: 04-03-2024
Dated: 04-03-2024

Graph (Page – 2/3)



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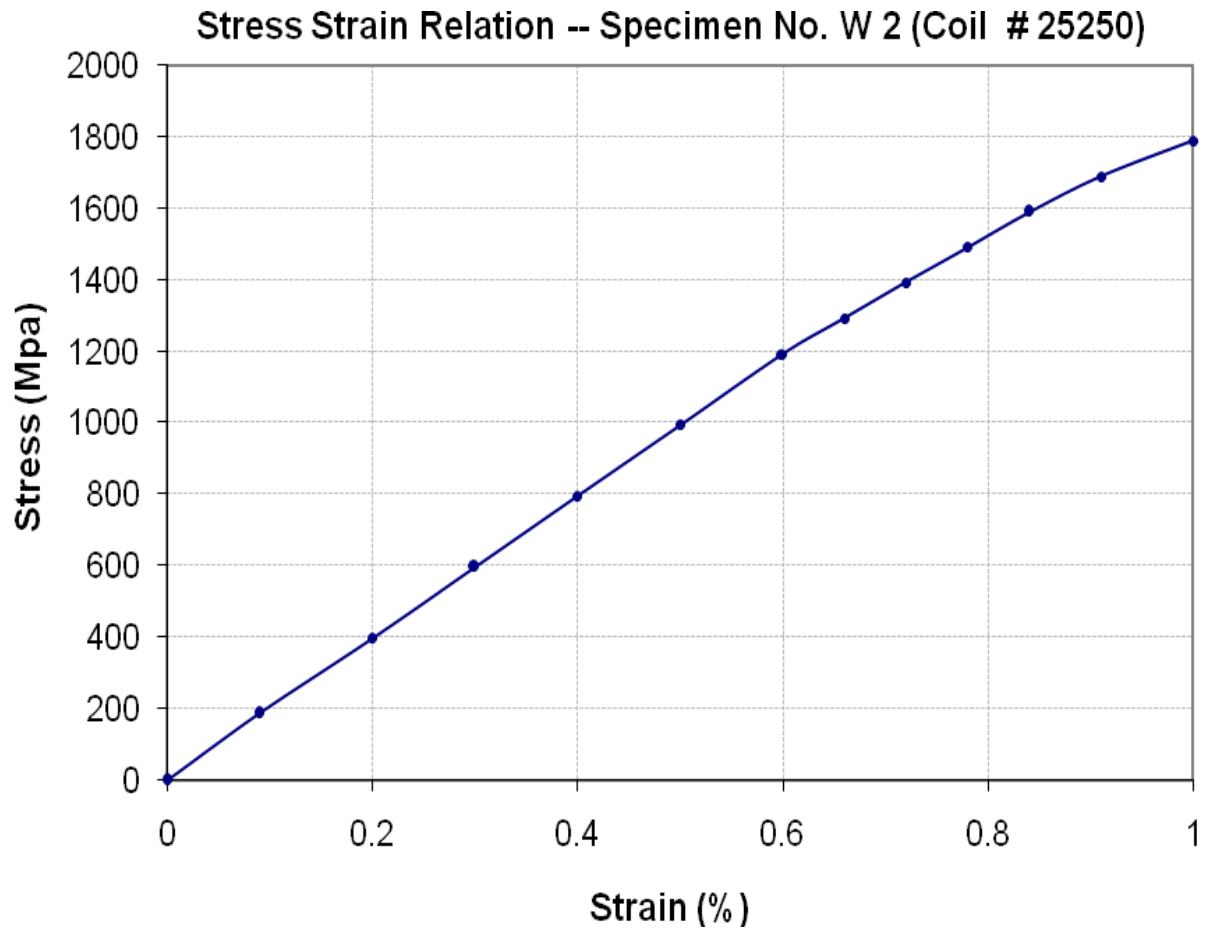
To,

Resident Engineer
NESPAK
Construction of New 4-Lane Ravi Bridge Over River Ravi, Lahore.
(WMI)

Reference # CED/TFL **4734** (Dr. Ubaid Ahmed)
Reference of the request letter # 4537/03/MSA/09/205

Dated: 04-03-2024
Dated: 04-03-2024

Graph (Page – 3/3)



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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,

Site Engineer
OZ Developers
RISINGBEYOND
Pvt. Ltd.
Constructing a high-rise building “Bahria Sky” at Bahria Orchard Phase 4, Lahore.

Reference # CED/TFL **4735** (Dr. Rizwan Riaz)
Reference of the request letter # NIL

Dated: 04-03-2024
Dated: 04-03-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	0.372	3	0.373	0.11	0.109	3820	4920	76600	77040	98600	99300	1.10	13.8	FF Steel
2	0.369	3	0.371	0.11	0.108	3800	4800	76200	77320	96200	97700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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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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
HMB Developers Pvt. Ltd.
Commercial Tower, FTC Lahore
(DC # 755)

Reference # CED/TFL **4736** (Dr. M Rizwan Riaz)
Reference of the request letter # HMBDPL/S.O/03/24/91 (LHR)

Dated: 04-03-2024
Dated: 04-03-2024

Tension Test Report (Page -1/1)

Date of Test 04-03-2024
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	4.192	10	1.253	1.27	1.232	41800	54800	72600	74780	95200	98100	1.60	20.0	
2	4.167	10	1.249	1.27	1.225	41000	54400	71200	73770	94500	97900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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