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
Imperium Developers
Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL **4605** (Dr. Ali Ahmed) Dated: 02-02-2024
Reference of the request letter # IMP/66/04/122 Dated: 02-02-2024

Tension Test Report (Page -1/1)

Date of Test 15-02-2024
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	0.374	3	0.374	0.11	0.110	3430	5300	68800	68830	106200	106400	1.20	15.0	
2	0.378	3	0.376	0.11	0.111	3540	5270	71000	70190	105600	104500	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														

Witness by M Tahir Ayaz (Site Engr. Imperium Developers)

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,

Sub Divisional Officer
Highway Sub Division
Daska
(Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot.)

Reference # CED/TFL **4616** (Dr. M Rizwan Riaz) Dated: 12-02-2024
Reference of the request letter # 309/D Dated: 05-12-2023

Tension Test Report (Page -1/3)

Date of Test 15-02-2024
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)		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**	**1800**	**17.66**	**20300**	**199.14**	**198**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**782.0**	**18000**	**176.58**	**19800**	**194.24**	**199**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two 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,

Sub Divisional Officer
Highway Sub Division
Daska
(Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot.)

Reference # CED/TFL **4616** (Dr. M Rizwan Riaz) Dated: 12-02-2024
Reference of the request letter # 309/D Dated: 05-12-2023

Graph (Page – 2/3)

To,

I/C Testing Laboratoires
UET Lahore, Pakistan.

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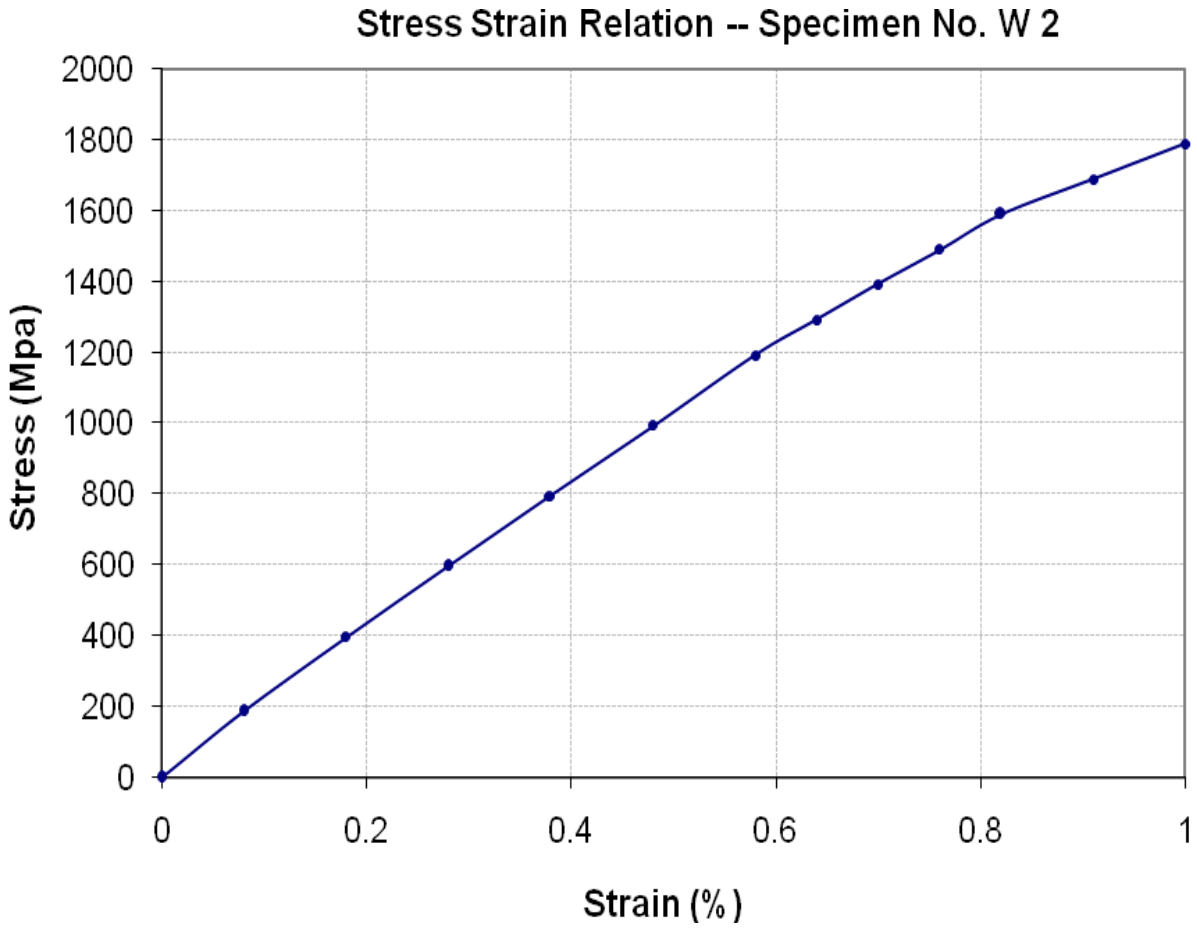
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Sub Divisional Officer
Highway Sub Division
Daska
(Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot.)

Reference # CED/TFL **4616** (Dr. M Rizwan Riaz) Dated: 12-02-2024
Reference of the request letter # 309/D Dated: 05-12-2023

Graph (Page – 3/3)



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

To,

Sub Divisional Officer
Highway Sub Division
Daska
(Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot.)

Reference # CED/TFL **4616** (Dr. M Rizwan Riaz) Dated: 12-02-2024
Reference of the request letter # 309/D Dated: 05-12-2023

Tension Test Report (Page -1/3)

Date of Test 15-02-2024
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)		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**	**1800**	**17.66**	**20300**	**199.14**	**198**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**782.0**	**18000**	**176.58**	**19800**	**194.24**	**199**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two 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,

Sub Divisional Officer
Highway Sub Division
Daska
(Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot.)

Reference # CED/TFL **4616** (Dr. M Rizwan Riaz) Dated: 12-02-2024
Reference of the request letter # 309/D Dated: 05-12-2023

Graph (Page – 2/3)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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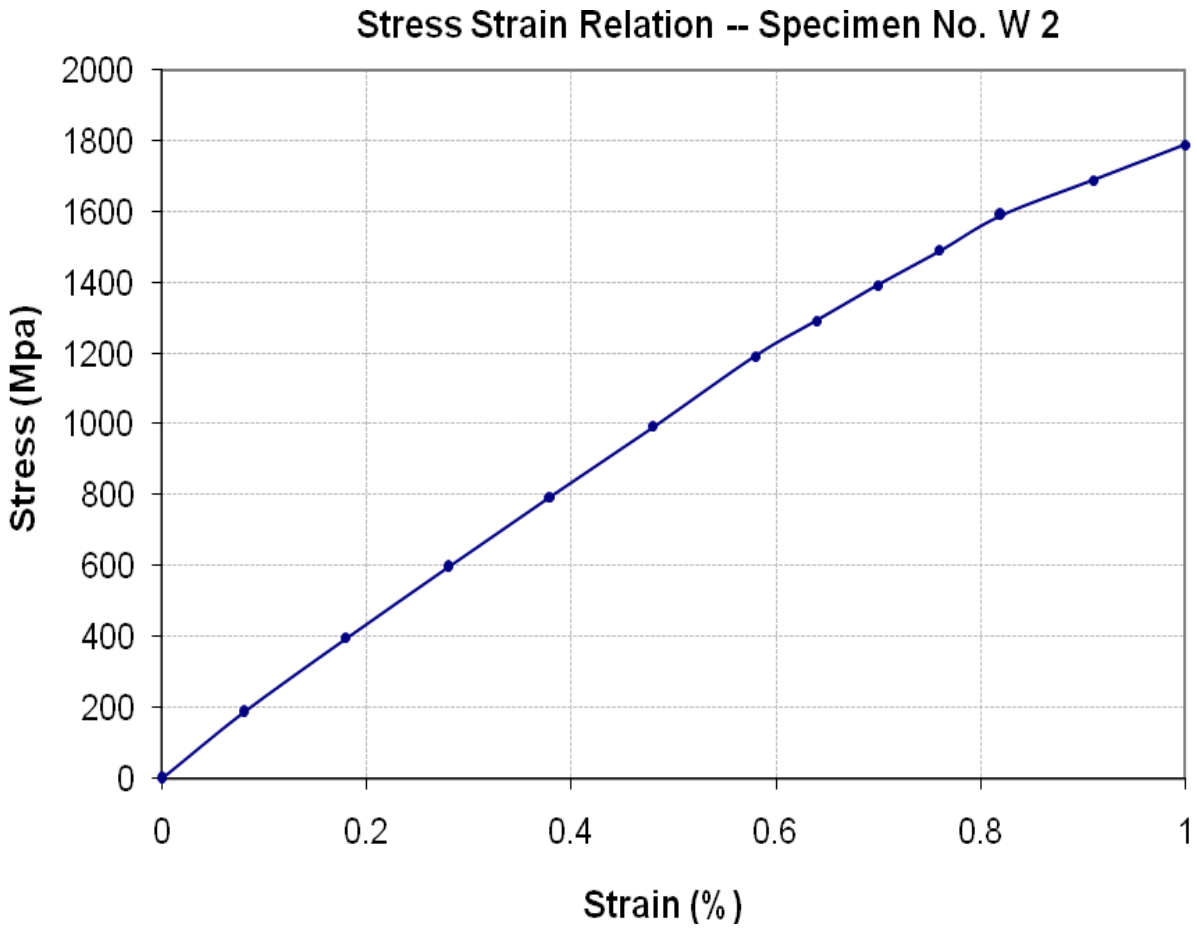
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Sub Divisional Officer
Highway Sub Division
Daska
(Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot.)

Reference # CED/TFL **4616** (Dr. M Rizwan Riaz) Dated: 12-02-2024
Reference of the request letter # 309/D Dated: 05-12-2023

Graph (Page – 3/3)



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,

M/S A.F Steel Re Rolling Mills
Lahore

Reference # CED/TFL **4619** (Dr. Ali Ahmed) Dated: 12-02-2024
Reference of the request letter # AFS/Letter # 020/24 Dated: 12-02-2024

Tension Test Report (Page -1/1)

Date of Test 15-02-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend 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	4.043	32	31.24	1.25	1.188	31000	47200	54674	57500	83246	87600	1.70	21.3	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180º 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
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 **4629, 4630** (Dr. Ali Ahmed) Dated: 13-02-2024
Reference of the request letter # SA-466F/103/GH/ML/Lab/90 Dated: 30-01-2024

Tension Test Report (Page -1/1)

Date of Test 15-02-2024
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	0.384	3	0.379	0.11	0.113	3330	4760	66800	64970	95400	92900	1.40	17.5	
2	0.387	3	0.380	0.11	0.114	3280	4690	65800	63620	94000	91000	1.40	17.5	
3	4.307	10	1.270	1.27	1.266	42200	55000	73300	73480	95500	95800	1.80	22.5	
4	4.358	10	1.277	1.27	1.281	43200	56600	75000	74330	98300	97400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														
#10 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,

Chief Resident Engineer
Zeeruk International (Pvt) Ltd.
Sialkot Kharian Motorway Project.
(Ibrahim Nizami)

Reference # CED/TFL **4633** (Dr. M Rizwan Riaz) Dated: 13-02-2024
Reference of the request letter # SKMP/CRE/2024/0228 Dated: 13-02-2024

Tension Test Report (Page -1/4)

Date of Test 15-02-2024
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)		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**	**782.0**	**18100**	**177.56**	**19900**	**195.22**	**199**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**780.0**	**18000**	**176.58**	**19500**	**191.30**	**198**	**>3.50**	**xx**
3	**12.70 (1/2")**	**780.0**	**790.0**	**18500**	**181.49**	**20100**	**197.18**	**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.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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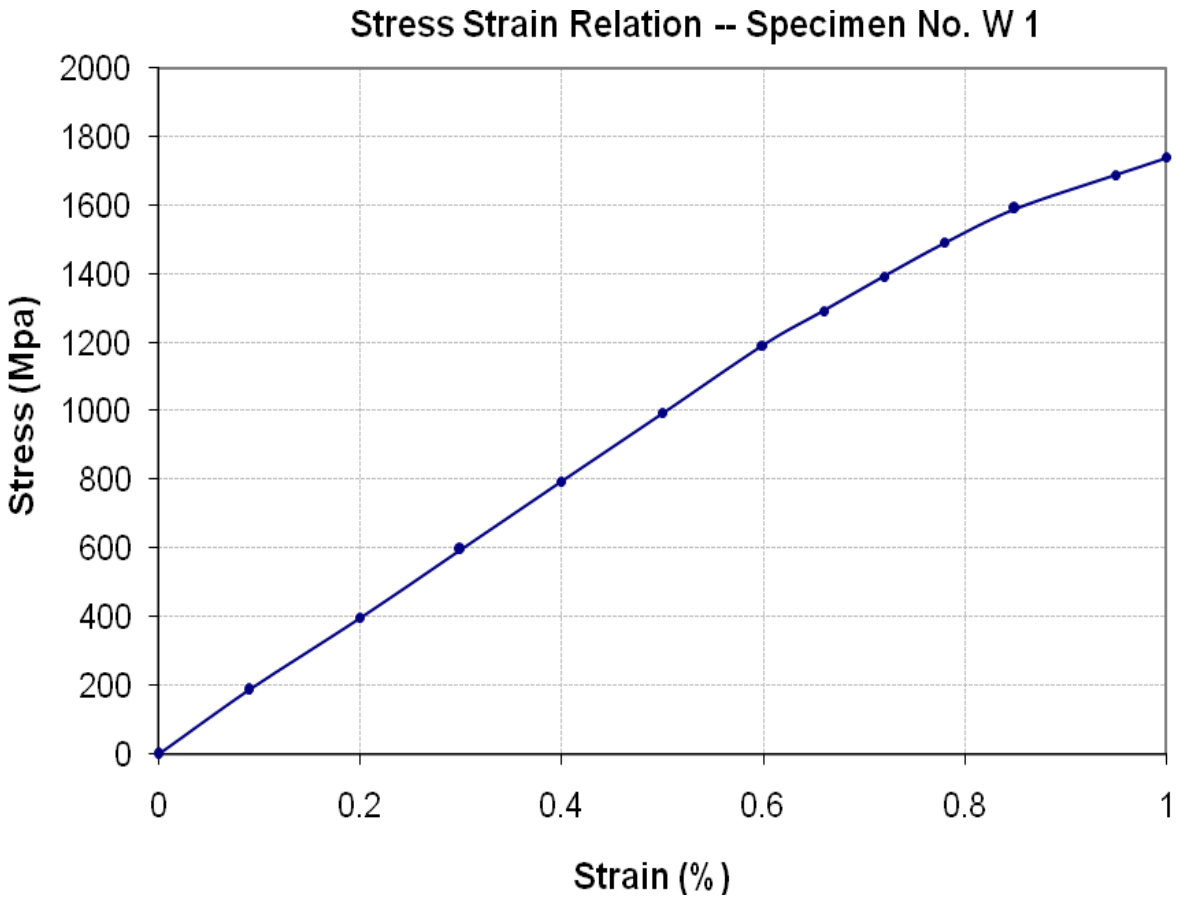
To,

Chief Resident Engineer
Zeeruk International (Pvt) Ltd.
Sialkot Kharian Motorway Project.
(Ibrahim Nizami)

Reference # CED/TFL **4633** (Dr. M Rizwan Riaz) Dated: 13-02-2024
Reference of the request letter # SKMP/CRE/2024/0228 Dated: 13-02-2024

Graph (Page – 2/4)



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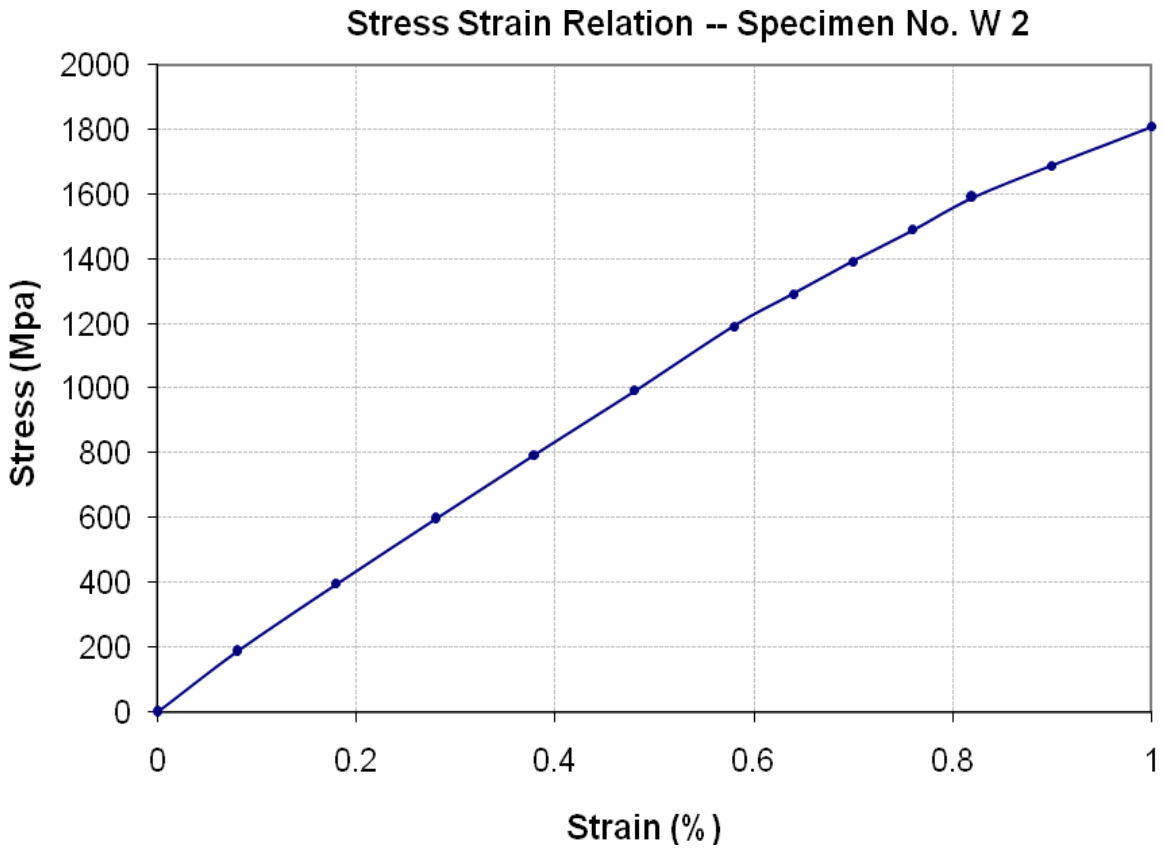
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Chief Resident Engineer
Zeeruk International (Pvt) Ltd.
Sialkot Kharian Motorway Project.
(Ibrahim Nizami)

Reference # CED/TFL **4633** (Dr. M Rizwan Riaz) Dated: 13-02-2024
Reference of the request letter # SKMP/CRE/2024/0228 Dated: 13-02-2024

Graph (Page – 3/4)



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To,

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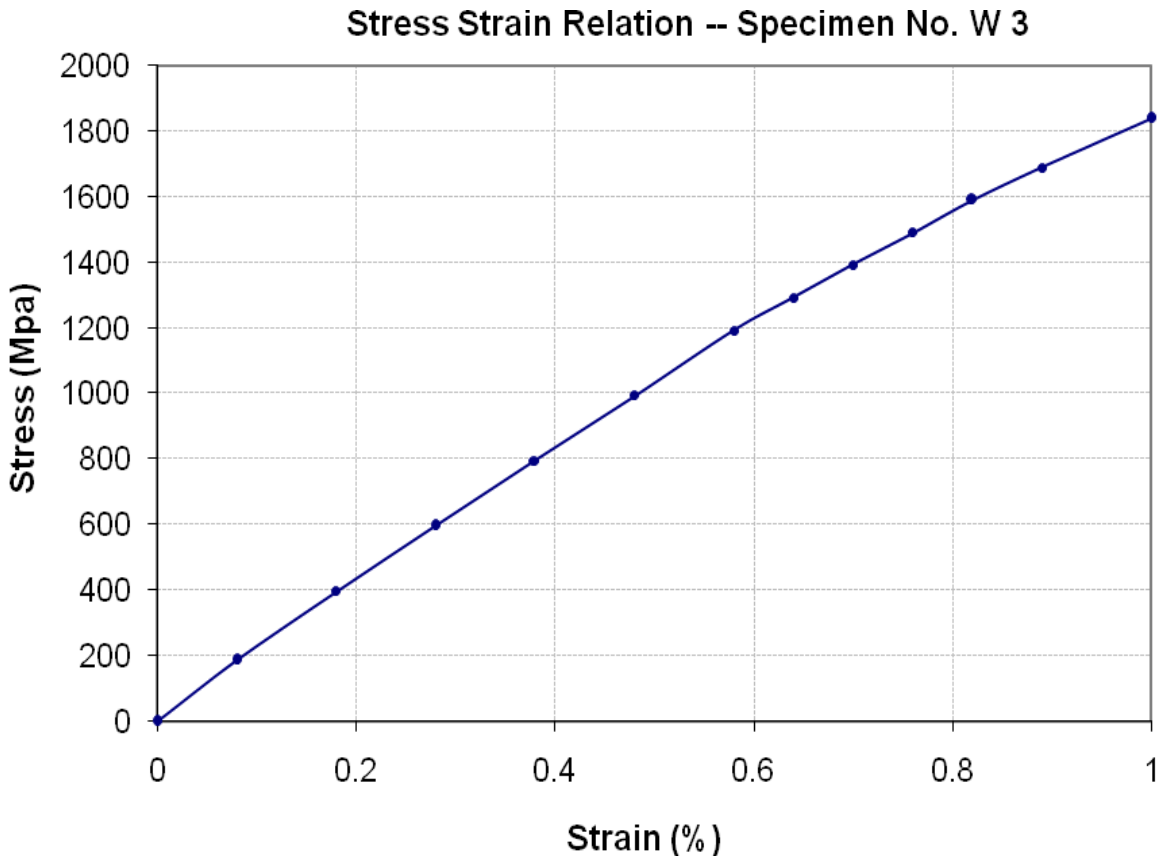
Sialkot Kharian Motorway Project.
(Ibrahim Nizami)

Reference # CED/TFL **4633** (Dr. M Rizwan Riaz) Dated: 13-02-2024
Reference of the request letter # SKMP/CRE/2024/0228 Dated: 13-02-2024

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

Ref: CED/TFL/02/4638, 4642 Dated: 14-02-2024

Dated: 15-02-2024

To

Resident Engineer
Diamer Basha Consultants Group (DBCG)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project.

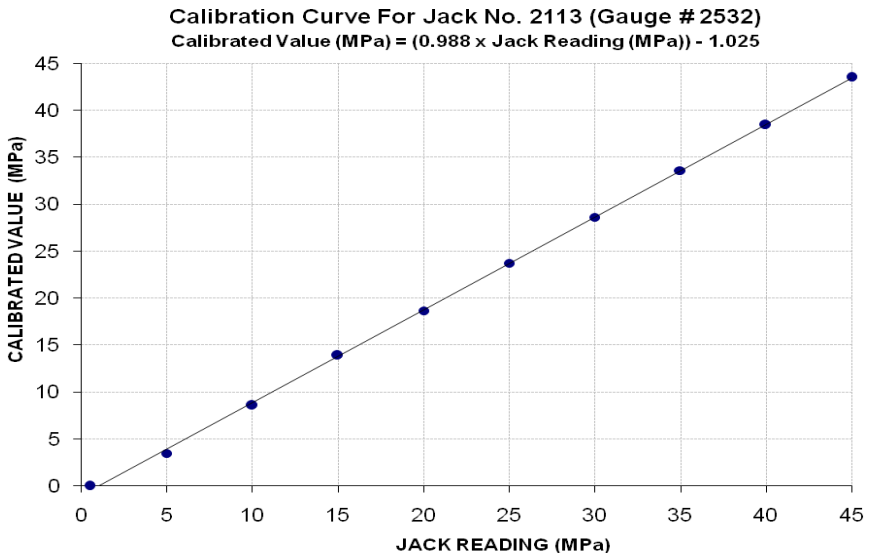
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/02/4638)** (Page -1/2)

Reference to your Letter No. DBCG/Lab/PF JV/2024/004, dated: 31/01/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2113, Gauge No. 2532) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	0.5	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	0	13400	33000	53400	71800	91200	110000	129200	147800	167200
Calibrated Pressure (Mpa)	0	3.49	8.58	13.89	18.68	23.72	28.61	33.61	38.45	43.49

The Ram Area of Jack = 377 cm^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

Ref: CED/TFL/02/4638, 4642 Dated: 14-02-2024

Dated: 15-02-2024

To

Resident Engineer
Diamer Basha Consultants Group (DBCG)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project.

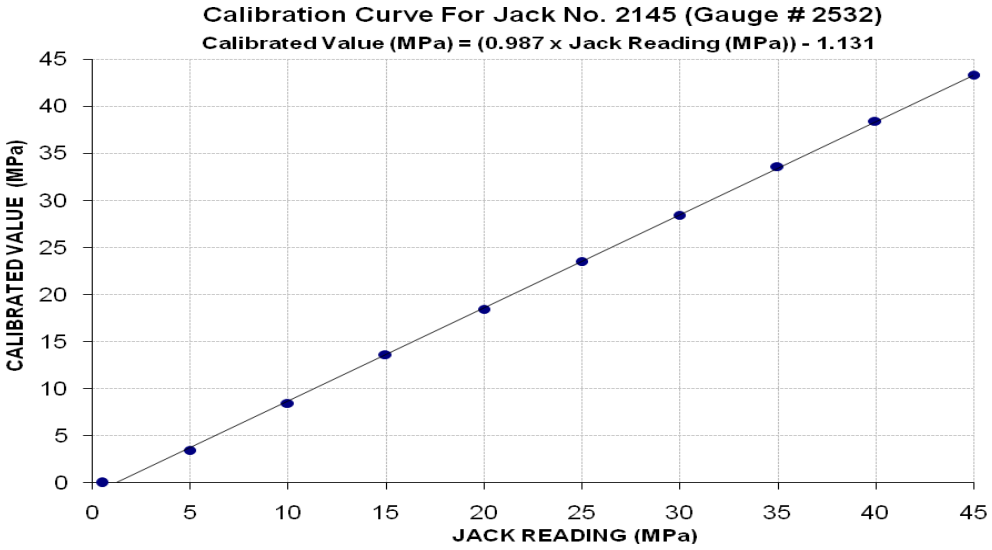
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/02/4638)** (Page -2/2)

Reference to your Letter No. DBCG/Lab/PF JV/2024/004, dated: 31/01/2024 on the subject cited above. One Hydraulic Jack (Jack No. 2145, Gauge No. 2532) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	0.5	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	0	1800	4400	7100	9600	12250	14800	17500	20000	22550
Calibrated Pressure (Mpa)	0	3.46	8.45	13.64	18.44	23.53	28.43	33.62	38.42	43.32

The Ram Area of Jack = 51.05 cm^2



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,

M/S Klash Private Limited.
Faisalabad

Reference # CED/TFL **4641** (Dr. Asad Ali) Dated: 14-02-2024
Reference of the request letter # Nil Dated: 13-02-2024

Tension Test Report (Page # 1/1)

Date of Test 15-02-2024
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	0.375	3	0.374	0.11	0.110	3770	5200	75600	75490	104200	104200	1.40	17.5	
2	0.381	3	0.378	0.11	0.112	3720	5100	74600	73180	102200	100400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

M/S AF Steel
Lahore

Reference # CED/TFL **4646** (Dr. Ali Ahmed) Dated: 14-02-2024
Reference of the request letter # Nil Dated: 14-02-2024

Tension Test Report (Page -1/1)

Date of Test 15-02-2024
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	0.378	3	0.376	0.11	0.111	4430	5500	88800	87940	110200	109200	1.00	12.5	
2	4.156	10	1.247	1.27	1.222	28000	44400	48600	50520	77100	80200	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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