STRUCTURAL ENGINEERING DIVISION

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

To,

Lab Manager
China Gezhouba Group C., Ltd.
CGGC Dasu Hydropower Project Management in Pakistan
Dasu Hydropower Project

Reference # CED/TFL **5467** (Dr. Safeer Abbass) Dated: 06-08-2024
Reference of the request letter # CGGC/MW-1/MW-2/MI/AFI/2024-103 Dated: 04-08-2024

Tension Test Report (Page – 1/6)

Date of Test 19-08-2024
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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	**15.24 (0.6")**	**1100.0**	**1126.0**	**23900**	**234.46**	**27000**	**264.87**	**199**	**>3.50**	**xx**
2	**15.24 (0.6")**	**1100.0**	**1126.0**	**24500**	**240.35**	**27300**	**267.81**	**198**	**>3.50**	**xx**
3	**15.24 (0.6")**	**1100.0**	**1125.0**	**25800**	**253.10**	**27300**	**267.81**	**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:
1- You can See your reports On Internet in the following web site
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To,

Lab Manager
China Gezhouba Group C., Ltd.
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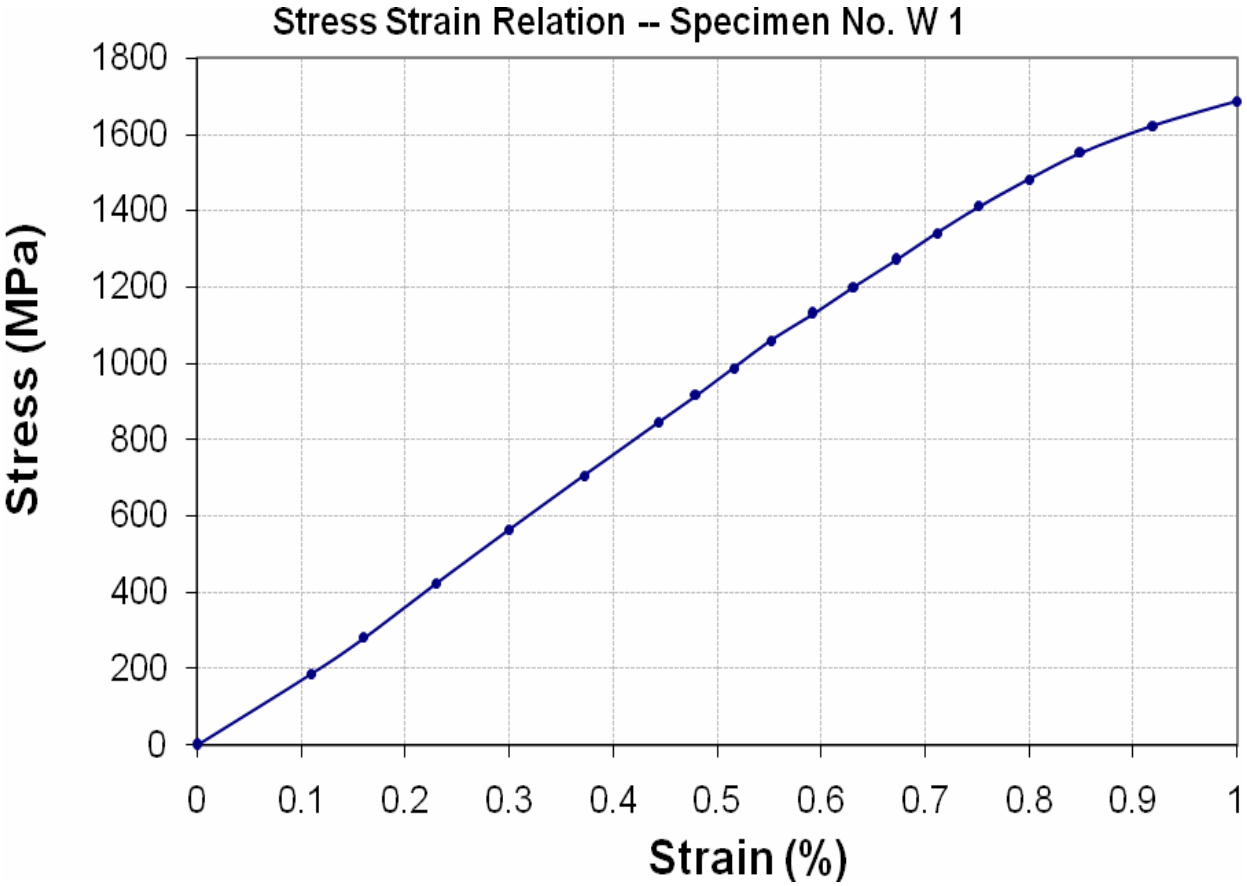
Dasu Hydropower Project

Reference # CED/TFL **5467** (Dr. Safeer Abbass) Dated: 06-08-2024
Reference of the request letter # CGGC/MW-1/MW-2/MI/AFI/2024-103 Dated: 04-08-2024

Graph (Page – 2/6)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Lab Manager
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CGGC Dasu Hydropower Project Management in Pakistan
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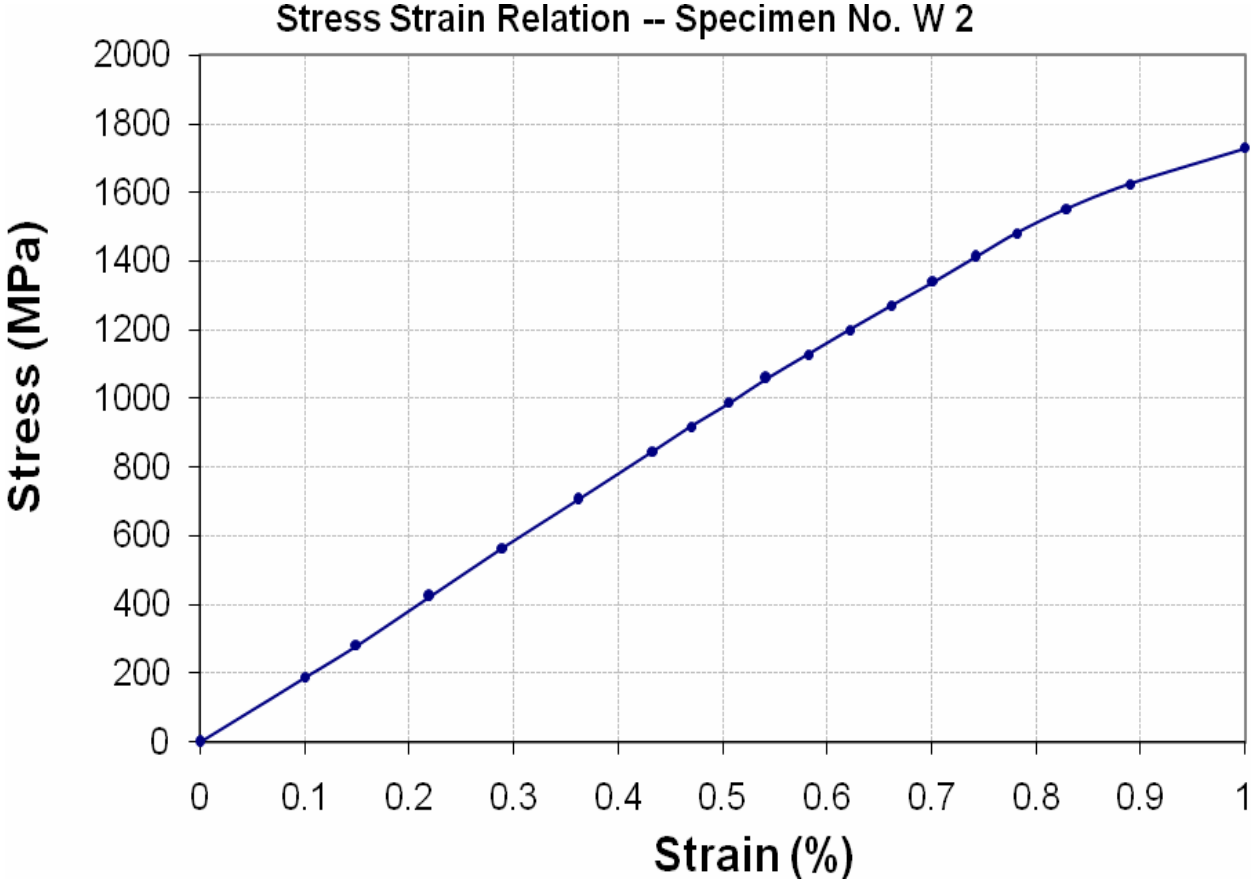
Reference # CED/TFL **5467** (Dr. Safeer Abbass) Dated: 06-08-2024
Reference of the request letter # CGGC/MW-1/MW-2/MI/AFI/2024-103 Dated: 04-08-2024

Graph (Page – 3/6)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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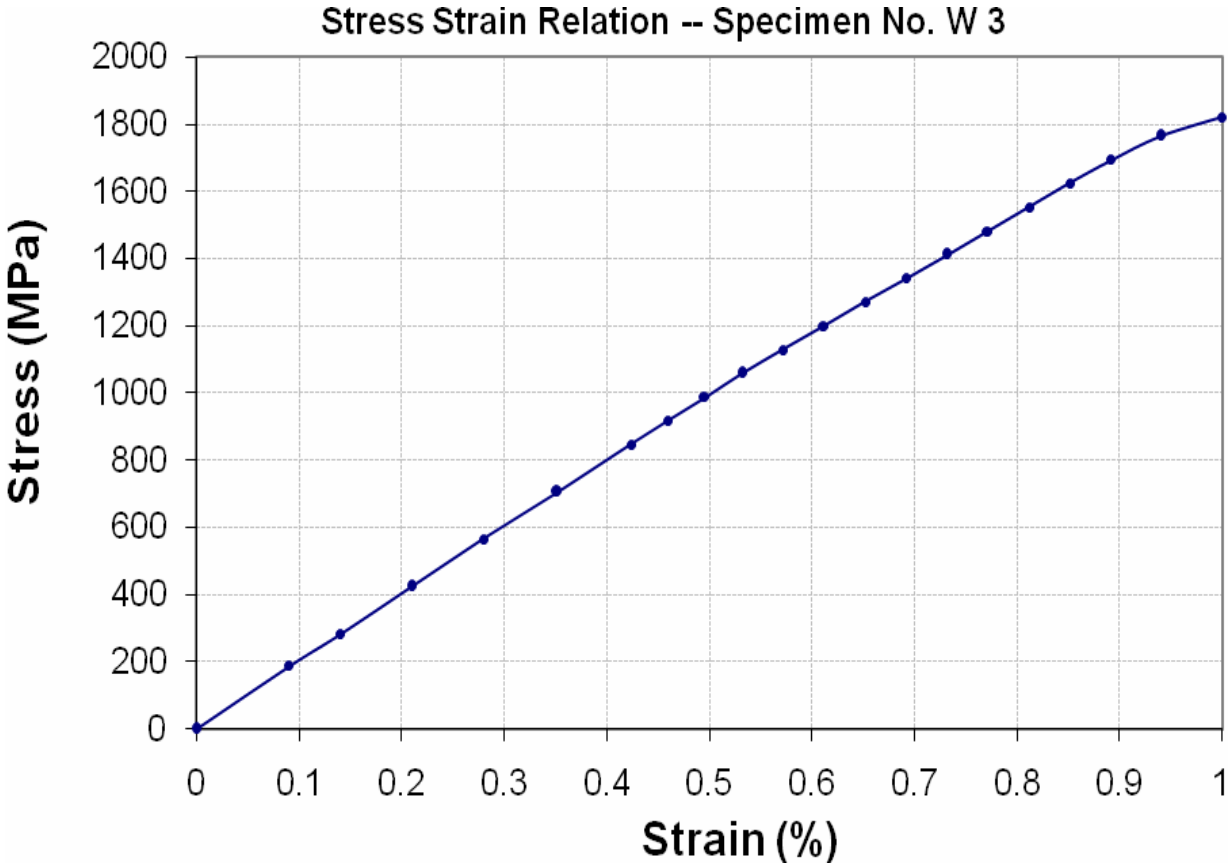
To,

Lab Manager
China Gezhouba Group C., Ltd.
CGGC Dasu Hydropower Project Management in Pakistan
Dasu Hydropower Project

Reference # CED/TFL **5467** (Dr. Safeer Abbass) Dated: 06-08-2024
Reference of the request letter # CGGC/MW-1/MW-2/MI/AFI/2024-103 Dated: 04-08-2024

Graph (Page – 4/6)



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,

Lab Manager
China Gezhouba Group C., Ltd.
CGGC Dasu Hydropower Project Management in Pakistan
Dasu Hydropower Project

Reference # CED/TFL **5467** (Dr. Safeer Abbass) Dated: 06-08-2024
Reference of the request letter # CGGC/MW-1/MW-2/MI/AFI/2024-39 Dated: 04-08-2024

Tension Test Report (Page – 1/6)

Date of Test 19-08-2024
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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	**15.24 (0.6")**	**1100.0**	**1123.0**	**24500**	**240.35**	**27400**	**268.79**	**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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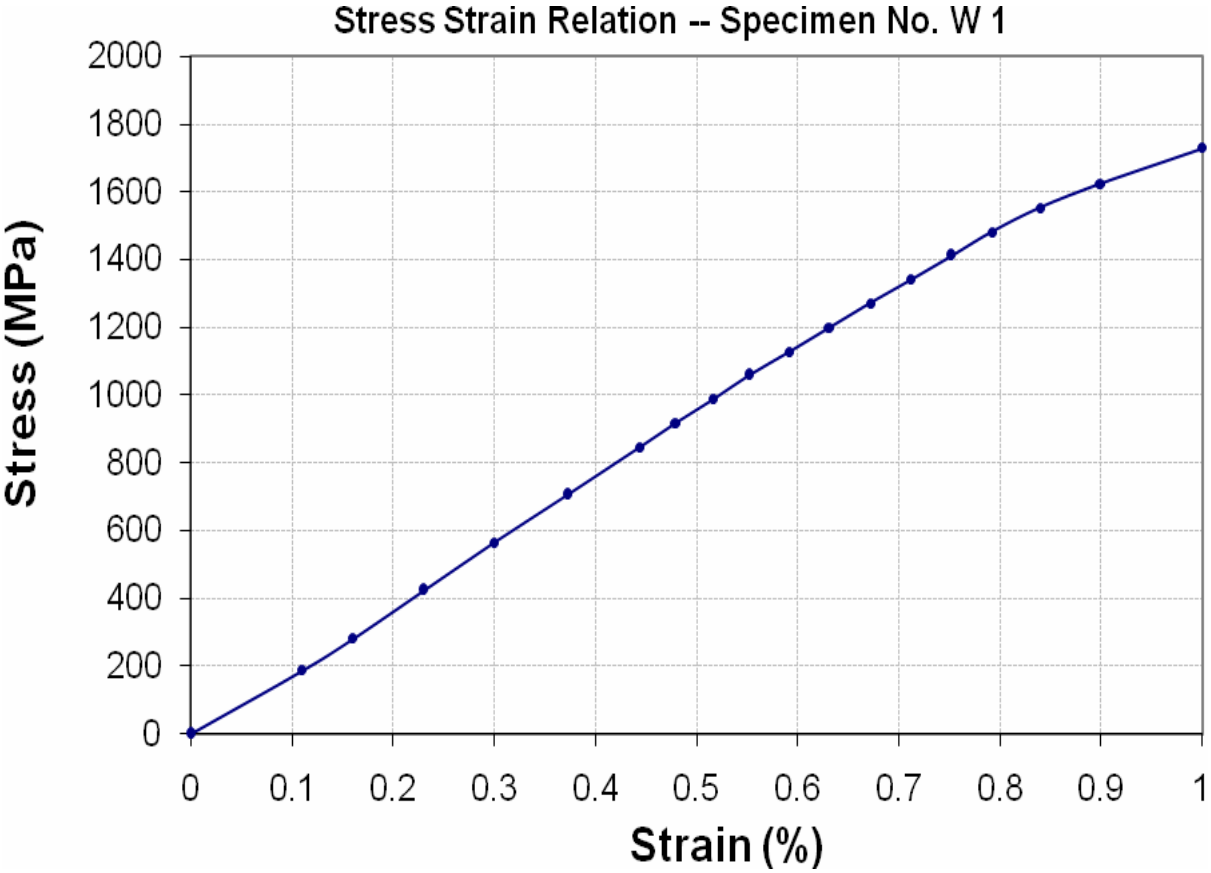
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Lab Manager
China Gezhouba Group C., Ltd.
CGGC Dasu Hydropower Project Management in Pakistan
Dasu Hydropower Project

Reference # CED/TFL **5467** (Dr. Safeer Abbass) Dated: 06-08-2024
Reference of the request letter # CGGC/MW-1/MW-2/MI/AFI/2024-39 Dated: 04-08-2024

Graph (Page – 6/6)



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,

Garrison Engineer (Army)
Multan Cantt
(CA No. ENC-A-46/2024 - Const of BDE Office Block for HQ SC at Multan)

Reference # CED/TFL **5505** (Dr. M Rizwan Riaz) Dated: 13-08-2024
Reference of the request letter # 6331/17/E-6 Dated: 02-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		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	0.375	3/8	0.375	0.11	0.110	3470	5100	69600	69410	102200	102100	1.10	13.8	
2	0.377	3/8	0.376	0.11	0.111	3430	5220	68800	68140	104600	103700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only twone samples for tensile and one sample for bend test														
Bend Test														
3/8" 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,

Project Manager,
HIGH-Q
Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **5510** (Dr. Rizwan Azam) Dated: 15-08-2024
Reference of the request letter # QC/HQ/CIVIL/228 Dated: 15-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.407	10	9.92	0.12	0.120	3980	5300	73119	73290	97370	97600	1.10	13.8	
2	0.401	10	9.84	0.12	0.118	3980	5250	73119	74370	96451	98100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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
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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,

Assistant Resident Engineer
MM Pakistan (Pvt) Ltd.
Package-03 (PCP) Gojra.
"Upgradation of Sewerage System and Construction of Waste Water Treatment Plant (WWTP) Gojra City., Package 01 – Sewerage System"

Reference # CED/TFL **5511-12** (Dr. Usman Akmal) Dated: 15-08-2024
Reference of the request letter # MMP/1095/Gojra/SEW/54/2024 Dated: 08-08-2024

Tension Test Report

Date of Test 19-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		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	0.103	3/16	0.196	------	0.030	1330	1400	------	97200	------	102400	1.10	13.8	Supreme Steel
2	0.213	1/4	0.282	------	0.063	1730	2190	------	60970	------	77200	1.60	20.0	
3	0.344	3/8	0.359	0.11	0.101	2520	3890	50500	54930	78000	84800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only three samples for tensile and three samples for bend test

Bend Test

3/16" Dia Bar Bend Test Through 180º is Satisfactory

1/4" Dia Bar Bend Test Through 180º is Satisfactory

3/8" 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
PRSWSSP, Taunsa
Punjab Rural Municipal Services Company
Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP). Tehsil Taunsa (Package-I).

Reference # CED/TFL **5513** (Dr. Usman Akmal) Dated: 15-08-2024
Reference of the request letter # NESPAK/PRSWSSP/TAUSA/ME/329 Dated: 10-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.404	3	0.389	0.11	0.119	4030	5350	80800	74730	107200	99300	1.30	16.3	FF Steel
2	0.405	3	0.389	0.11	0.119	4030	5220	80800	74570	104600	96600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:
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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 ARG Construction (SMC-Private) Limited.
Sahiwal
(Construction of P5 Warehouse Building, Phillipe Morris Qadirabad.)

Reference # CED/TFL **5514** (Dr. Usman Akmal) Dated: 16-08-2024
Reference of the request letter # 87 Dated: 10-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		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	0.382	3/8	0.378	0.11	0.112	3640	5170	73000	71470	103600	101600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Project Manager
DSG Energy
Construction of Office Building at 29-M QIE, Lahore.

Reference # CED/TFL **5515** (Dr. Usman Akmal) Dated: 16-08-2024
Reference of the request letter # Nil Dated: 16-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.362	3	0.368	0.11	0.106	3330	4840	66800	68940	97000	100200	1.20	15.0	Hunza Steel
2	0.363	3	0.368	0.11	0.107	3310	4840	66400	68430	97000	100100	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:
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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 Jaffar Builders
Lahore
(Coca Cola Sunder Green Lahore.)

Reference # CED/TFL **5519** (Dr. Usman Akmal) Dated: 16-08-2024
Reference of the request letter # Nil Dated: 16-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.367	3	0.371	0.11	0.108	3110	4430	62400	63500	88800	90500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3Bar 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
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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,

Assistant Executive Engineer
Assistant Garrison Engineer (Army) Pattoki
(CA No. ENC-A-41/2024 - Const of 8 x Sldr Flats (G+3) Block No. 04 at Ammo Dep Pattoki)

Reference # CED/TFL **5520** (Dr. Usman Akmal) Dated: 16-08-2024
Reference of the request letter # 600-TR/40/E6 Dated: 29-07-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		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	0.371	3/8	0.373	0.11	0.109	2520	3430	50500	50920	68800	69300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Note: only one samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia 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
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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,

Sub Divisional Officer
Buildings Sub Division No. 3
Lahore.
(Strengthing of Specialized Health Care & Medical Education Department Lahore.)

Reference # CED/TFL **5522** (Dr. Usman Akmal) Dated: 16-08-2024
Reference of the request letter # 1106-08/III Dated: 01-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.394	3	0.384	0.11	0.116	4000	5250	80200	76210	105200	100100	0.90	11.3	
2	0.378	3	0.376	0.11	0.111	4230	5350	84800	83930	107200	106200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:
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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
Master Consulting Engineers (Pvt) Ltd.
Construction of 07-Storey Residential Block Having Minimum 100 Rooms with Attached Bathroom Facilities at Gurdwara Janamsthan Nankana Sahib.

Reference # CED/TFL **5523** (Dr. Usman Akmal) Dated: 19-08-2024
Reference of the request letter # NKB/RE/MCE/Steel/08 Dated: 19-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		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	0.375	3/8	0.374	0.11	0.110	3330	5150	66800	66650	103200	103100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
3/8" 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,

Cost Control Engineer
Sufi City
Construction of Sufi City Housing Society, Mandi Bahaud Din.

Reference # CED/TFL **5524** (Dr. Usman Akmal) Dated: 19-08-2024
Reference of the request letter # SUFI /2024/CE/11 Dated: 16-08-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.388	3	0.381	0.11	0.114	3310	5170	66400	63960	103600	99900	1.10	13.8	
2	0.378	3	0.376	0.11	0.111	3130	5010	62800	62020	100400	99300	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:
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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,

Program Manager
Punjab Human Capital Investment Project (PHCIP)
Burial Pit Construction.

Reference # CED/TFL **5526** (Dr. Usman Akmal) Dated: 19-08-2024
Reference of the request letter # PIU-H/PHCIP/PM/685/2024 Dated: 30-07-2024

Tension Test Report (Page -1/1)

Date of Test 19-08-2024
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	0.382	3	0.378	0.11	0.112	3770	5300	75600	74030	106200	104100	1.10	13.8	
2	0.384	3	0.379	0.11	0.113	3470	5450	69600	67760	109200	106500	0.80	10.0	
3	0.380	3	0.377	0.11	0.112	3110	4810	62400	61440	96400	95100	1.10	13.8	
4	0.378	3	0.376	0.11	0.111	3360	4840	67400	66680	97000	96100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														
#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