



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

To,  
RE,  
NESPAK

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

Reference # CED/TFL **35866** (Dr. Usman Akmal)

Dated: 04-01-2021

Reference of the request letter # 3968/OBR/P-01/RE/GRD/892

Dated: 02-01-2021

**Tension Test Report** (Page – 1/2)

Date of Test 07-01-2021

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")	775.0	788.0	17600	172.66	19600	192.28	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only one sample for Test</b>										

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  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](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,  
RE,  
NESPAK

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

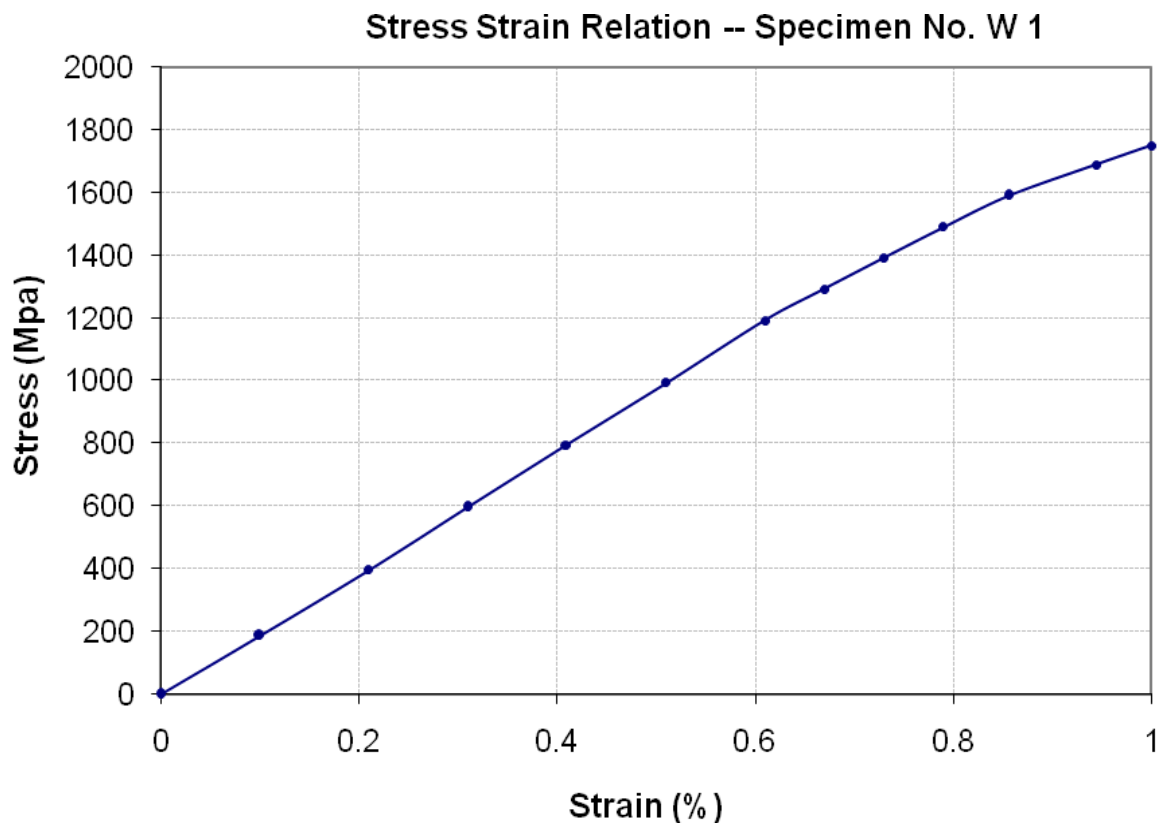
Reference # CED/TFL **35866** (Dr. Usman Akmal)

Dated: 04-01-2021

Reference of the request letter # 3968/OBR/P-01/RE/GRD/892

Dated: 02-01-2021

**Graph** (Page – 2/2)



**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,  
Resident Engineer / Team Leader  
Prime Engineering Consultancy  
Kallurkot Bridge Project  
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35872** (Dr. Usman Akmal)  
Reference of the request letter # KK-DIK-BR-PJ/2021/223

Dated: 05-01-2021  
Dated: 05-01-2021

**Tension Test Report** (Page – 1/3)

Date of Test 07-01-2021  
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")	775.0	785	18000	176.58	20000	196.20	198	>3.50	xx
2	12.70 (1/2")	775.0	783	18300	179.52	20000	196.20	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only two samples for Test</b>										

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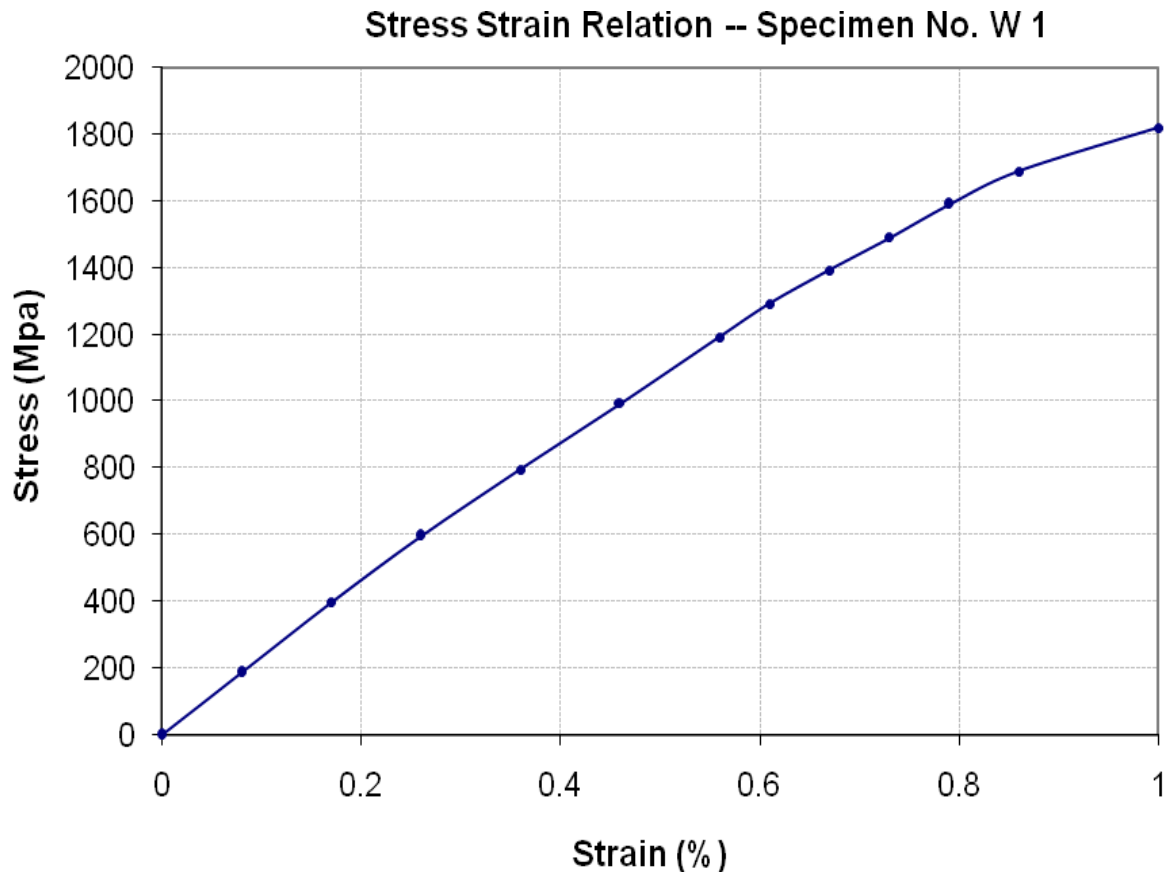
**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer / Team Leader  
Prime Engineering Consultancy  
Kallurkot Bridge Project  
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35872** (Dr. Usman Akmal)  
Reference of the request letter # KK-DIK-BR-PJ/2021/223

Dated: 05-01-2021  
Dated: 05-01-2021

**Graph** (Page – 2/3)



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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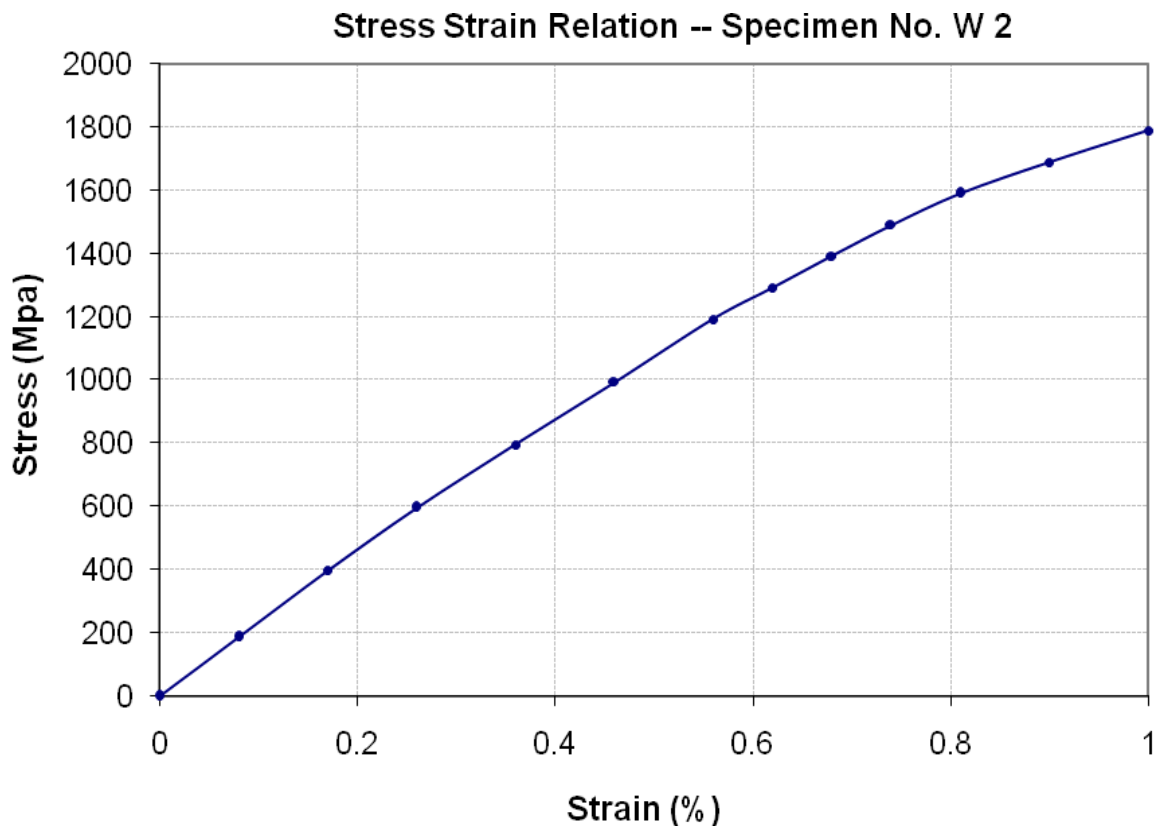
**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer / Team Leader  
Prime Engineering Consultancy  
Kallurkot Bridge Project  
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35872** (Dr. Usman Akmal)  
Reference of the request letter # KK-DIK-BR-PJ/2021/223

Dated: 05-01-2021  
Dated: 05-01-2021

**Graph** (Page – 3/3)



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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- 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,  
M/S China Gezhouba Group Company Limited  
DESCON  
Construction of Mohmand Dam Hydropower Project

Reference # CED/TFL **35878** (Dr. Usman Akmal)  
Reference of the request letter # MDSYS-109

Dated: 06-01-2021  
Dated: 05-01-2021

**Tension Test Report** (Page – 1/4)

Date of Test 07-01-2021  
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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1122.0	24300	238.38	27500	269.78	198	>3.50	xx
2	15.24 (0.6")	1102.0	1132.0	24400	239.36	27600	270.76	199	>3.50	xx
3	15.24 (0.6")	1102.0	1130.0	24100	236.42	27600	270.76	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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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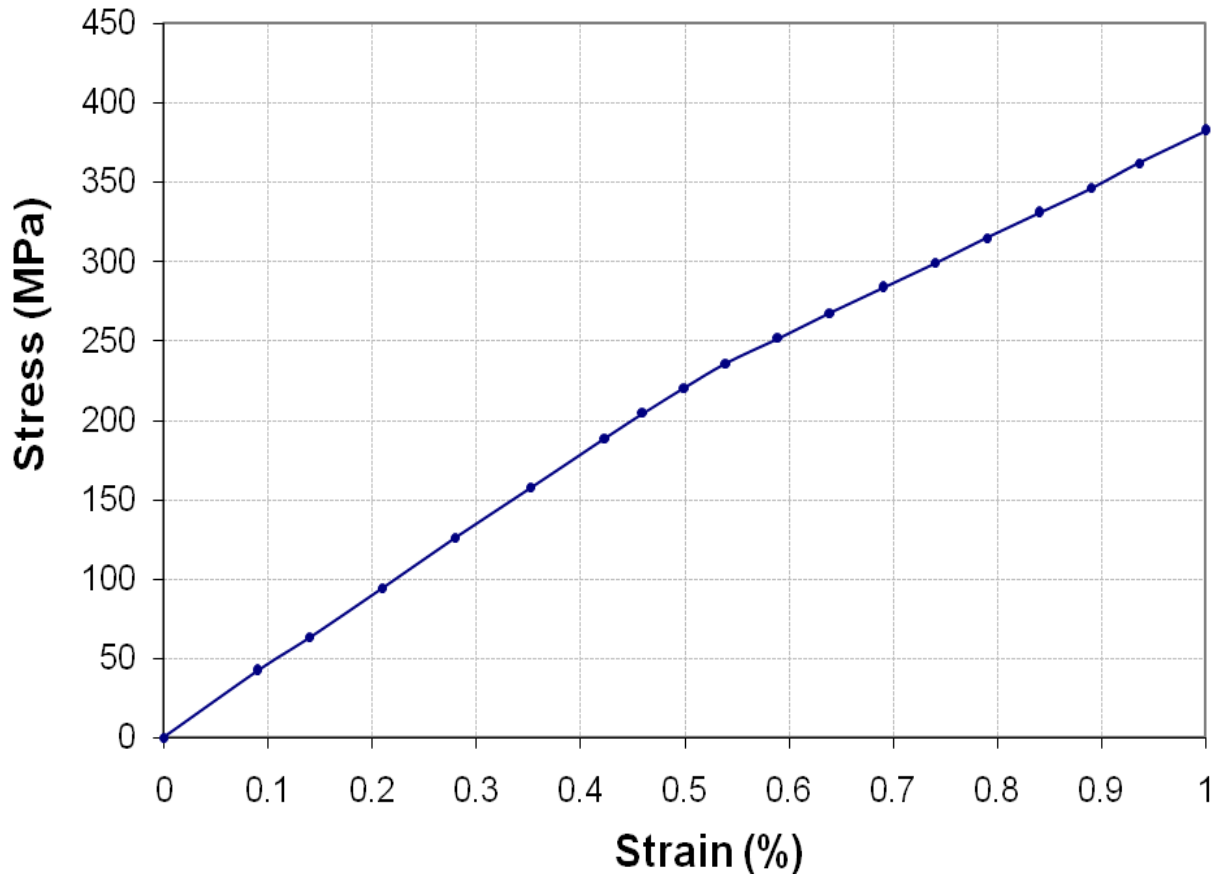
To,  
M/S China Gezhouba Group Company Limited  
DESCON  
Construction of Mohmand Dam Hydropower Project

Reference # CED/TFL **35878** (Dr. Usman Akmal)  
Reference of the request letter # MDSYS-109

Dated: 06-01-2021  
Dated: 05-01-2021

**Graph** (Page – 2/4)

**Stress Strain Relation -- Specimen No. W 1**



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**STRUCTURAL ENGINEERING DIVISION**  
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**University of Engineering and Technology Lahore, 54890**  
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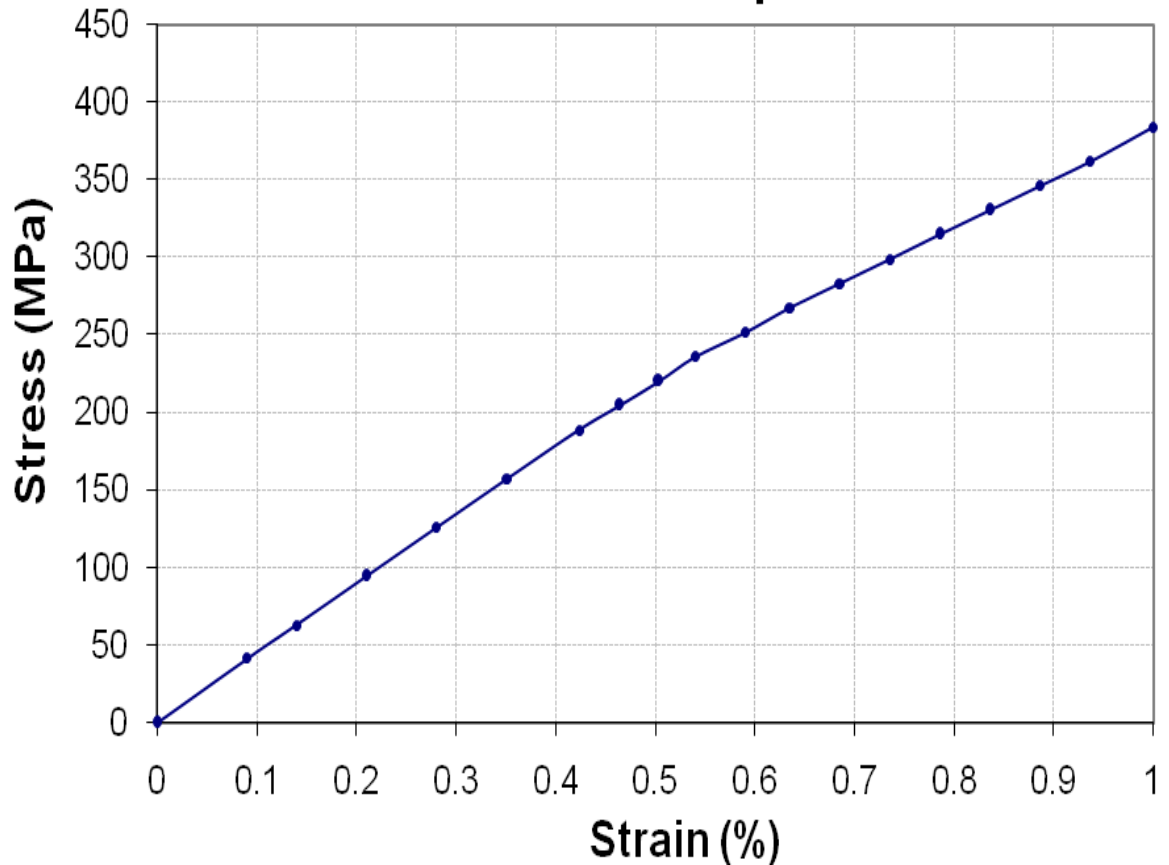
To,  
M/S China Gezhouba Group Company Limited  
DESCON  
Construction of Mohmand Dam Hydropower Project

Reference # CED/TFL **35878** (Dr. Usman Akmal)  
Reference of the request letter # MDSYS-109

Dated: 06-01-2021  
Dated: 05-01-2021

**Graph** (Page – 3/4)

**Stress Strain Relation -- Specimen No. W 2**



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

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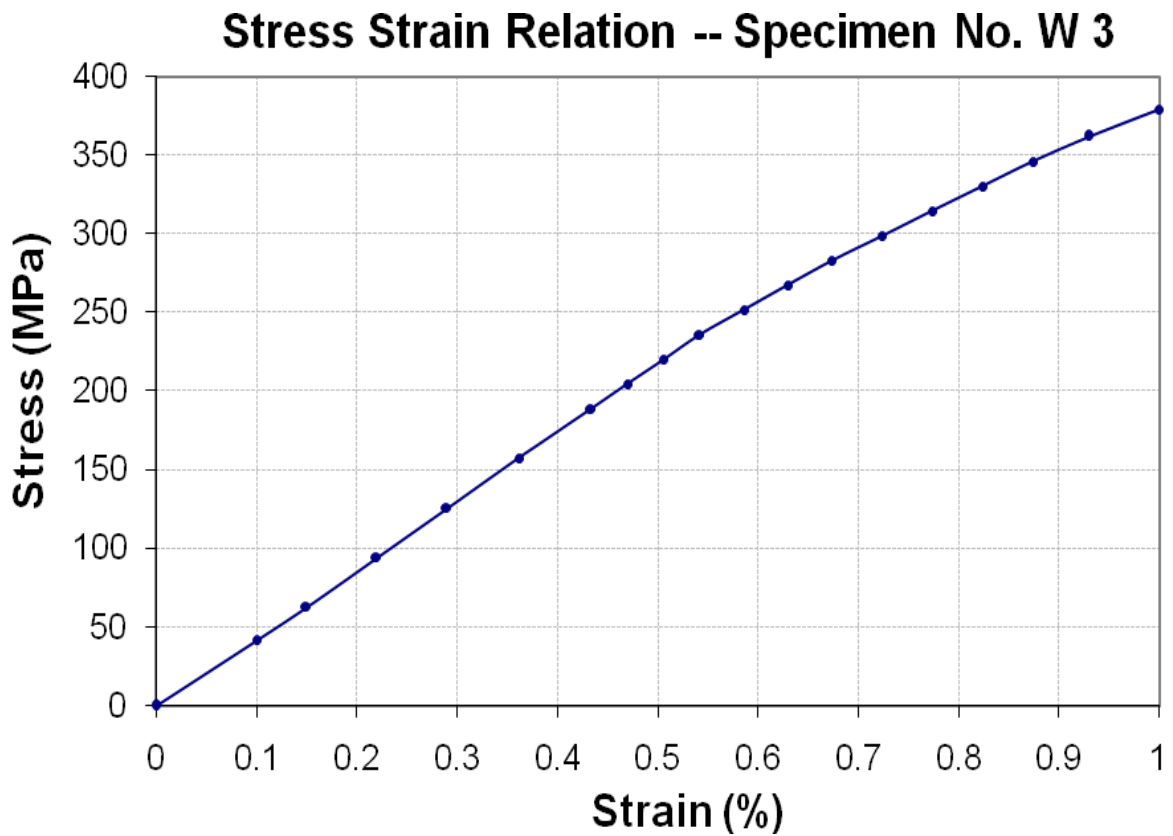
**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S China Gezhouba Group Company Limited  
DESCON  
Construction of Mohmand Dam Hydropower Project

Reference # CED/TFL **35878** (Dr. Usman Akmal)  
Reference of the request letter # MDSYS-109

Dated: 06-01-2021  
Dated: 05-01-2021

**Graph** (Page – 4/4)



**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,  
 CEO  
 Ittefaq Building Solution (Pvt) Ltd  
 U.S Apparel Canteen

Reference # CED/TFL **35879** (Dr. Usman Akmal)  
 Reference of the request letter # IBS/USAP/ST-01

Dated: 06-01-2021  
 Dated: 19-12-2020

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	0.374	3/8	0.374	0.11	0.110	3600	4900	72200	72120	98200	98200	1.10	13.8	
2	0.372	3/8	0.373	0.11	0.109	3500	4800	70200	70600	96200	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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,  
 Assistant Engineer (Civil)  
 GC University Faisalabad  
 Construction of Security Guard Room along with Bath Room and all Electrical Works at New  
 Campus Government College University Faisalabad

Reference # CED/TFL **35881** (Dr. Usman Akmal)  
 Reference of the request letter # GCUF/EC/2640

Dated: 06-01-2021  
 Dated: 21-08-2020

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	0.378	3/8	0.376	0.11	0.111	3600	4800	72200	71470	96200	95300	1.20	15.0	
2	0.377	3/8	0.376	0.11	0.111	3200	4500	64200	63690	90200	89600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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,  
 Lt Commander PN  
 GE (Navy) Lahore  
 (CA No. CEN-176/2020 - Construction of 01 X 'B' Type House at SRE Land Lahore)

Reference # CED/TFL **35882** (Dr. Usman Akmal)  
 Reference of the request letter # 6021/151/42/E-6

Dated: 06-01-2021  
 Dated: 05-01-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	0.367	3/8	0.370	0.11	0.108	3600	5200	72200	73610	104200	106400	1.30	16.3	
2	0.373	3/8	0.374	0.11	0.110	3300	4100	66200	66270	82200	82400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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,  
 Project Engineer  
 HMS Enterprises  
 Construction of Gate and Supply & Commissioning of 4 Nos of Rain Guns at Multan Cricket Stadium  
 Reference # CED/TFL **35883** (Dr. Usman Akmal) Dated: 06-01-2021  
 Reference of the request letter # PCB/MCS/HMS/2 Dated: 04-01-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	0.371	0.11	0.108	3100	4700	62200	63060	94200	95700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
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,  
 Sr. Project Manager  
 Izhar Group of Companies  
 Construction of Structural Works of Dolmen Shopping Mall DHA Lahore

Reference # CED/TFL **35885** (Dr. Usman Akmal)  
 Reference of the request letter # ICPL/CONST-DML/20/33

Dated: 06-01-2021  
 Dated: 06-01-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	10.06	0.12	0.123	3800	4900	69812	68000	90021	87700	1.20	15.0	Amreli Steel
2	0.412	10	9.97	0.12	0.121	3900	4800	71650	71030	88184	87500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° 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](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,  
 Project Manager  
 MEK Multistory Offices,  
 P-156, Gulberg II, Lahore

Reference # CED/TFL **35886** (Dr. Usman Akmal)  
 Reference of the request letter # P-156-189

Dated: 06-01-2021  
 Dated: 06-01-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	0.370	3	0.372	0.11	0.109	3600	4500	72200	73060	90200	91400	0.90	11.3	Afco Steel
2	0.371	3	0.372	0.11	0.109	3500	4500	70200	70840	90200	91100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<b>Note: only two samples for tensile and one sample for bend test</b>														
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,  
 Construction Manager  
 Mughals Pakistan (Private) Limited  
 Construction of EOBI Hotel & Mixed Use Development, Lahore

Reference # CED/TFL **35887** (Dr. Usman Akmal)  
 Reference of the request letter # 786/MPL-0064/060101/2021

Dated: 06-01-2021  
 Dated: 06-01-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
 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 <sup>2</sup> )		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	0.408	10	9.93	0.12	0.120	3400	5000	62464	62420	91858	91800	1.30	16.3	
2	0.405	10	9.89	0.12	0.119	3600	5100	66138	66650	93696	94500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia 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,  
M/S GHS Construction Co  
Township, Lahore  
(DFID Project Narowal)

Reference # CED/TFL **35890** (Dr. Asad Ali)  
Reference of the request letter # Nil

Dated: 07-01-2021  
Dated: 07-01-2021

**Tension Test Report** (Page -1/1)

Date of Test 07-01-2021  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.394	3/8	0.384	0.11	0.116	4000	5270	80200	76160	105600	100400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<b>Note: only one sample for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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