



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
Pakistan
Construction of Mohmand Dam Hydropower Project – Contract No. ICB MDHP-01, Construction of Civil Works Including Design, Supply and Installation of Electrical and Mechanical Works and Hydraulic Steel Structures.

Reference # CED/TFL **1545** (Dr. M Rizwan Riaz)
Reference of the request letter # MDSYS-161

Dated: 14-06-2022
Dated: 13-06-2022

Tension Test Report (Page – 1/1)

Date of Test 28-06-2022
Gauge length 2 inches
Description GI Pipe Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)										
1	GI Pipe	8	24.50x4.70	115.15	2700	3800	230	324	1.00	50.00	
2	GI Pipe	8	24.60x4.60	113.16	2600	3600	225	312	1.10	55.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
Resident Engineer
NESPAK
University of Kotli, AJ&K
Construction of Academic Block (Faculty of Administrative & Social Sciences and Faculty of Natural Sciences), Boundary Wall and Main Gate – Package 01

Reference # CED/TFL **1574** (Dr. M Rizwan Riaz)
Reference of the request letter # 3996/3310/TI/Uok/68

Dated: 20-06-2022
Dated: 19-06-2022

Tension Test Report (Page – 1/1)

Date of Test 28-06-2022
Gauge length 2 inches
Description Aluminum Section Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	AA	27.20x1.70	46.24	10.06	10.90	218	236	0.10	5.00	
2	BB	27.30x1.60	43.68	9.36	10.40	214	238	0.10	5.00	
3	CC	27.20x1.60	43.52	7.75	9.25	178	213	0.15	7.50	
4	DD	27.30x1.60	43.68	6.98	7.75	160	177	0.15	7.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

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UET Lahore, Pakistan.

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To,
Resident Engineer
NESPAK
University of Kotli, AJ&K
Construction of Academic Block (Faculty of Administrative & Social Sciences and Faculty of
Ntural Sciences), Boundary Wall and Main Gate – Package 01

Reference # CED/TFL **1574** (Dr. M Rizwan Riaz)
Reference of the request letter # 3996/3310/TI/Uok/68

Dated: 20-06-2022
Dated: 19-06-2022

Size Test Report (Page – 2/2)
Date of Test 28-06-2022
Description Aluminum Section thickness Test

Sr. No.	Designation	Thickness	Remark
1	AA	1.70	
2	BB	1.60	
3	CC	1.60	
4	DD	1.60	
-	-	-	
-	-	-	
-	-	-	
Only Four Samples for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Dr. Qasim Shoukat Khan
 Associate Professor
 Civil Engineering Department
 UET, Lahore
 (Construction of 324-D, Bounkers Avenue, Lahore)

Reference # CED/TFL **1610** (Dr. M Rizwan Riaz)
 Reference of the request letter # 004

Dated: 27-06-2022
 Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-06-2022
 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	0.356	3	0.365	0.11	0.105	3800	4600	76200	80140	92200	97100	0.80	10.0	
2	0.369	3	0.372	0.11	0.109	3900	4800	78200	79220	96200	97500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Material Engineer
 Defence Housing Authority
 Bahawalpur Cantonment

Reference # CED/TFL **1611** (Dr. M Rizwan Riaz)
 Reference of the request letter # 530/QC/MTL

Dated: 27-06-2022
 Dated: 24-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-06-2022
 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	0.364	3	0.369	0.11	0.107	3400	5100	68200	69950	102200	105000	1.20	15.0	SJ Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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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To,
 Site Engineer
 Wings Consultants
 Renovation and Upgradation COE GTTI Mughalpura Lahore

Reference # CED/TFL **1612** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 27-06-2022
 Dated: 23-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-06-2022
 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 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	0.378	3/8	0.376	0.11	0.111	3800	4800	76200	75340	96200	95200	1.20	15.0	
2	0.378	3/8	0.376	0.11	0.111	3600	4800	72200	71410	96200	95300	1.10	13.8	
3	0.376	3/8	0.375	0.11	0.111	3600	4800	72200	71750	96200	95700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S ASM Steel Buildings
Lahore

Reference # CED/TFL **1613** (Dr. M Rizwan Riizas)
Reference of the request letter # Nil

Dated: 27-06-2022

Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-06-2022
Gauge length 8 inches
Description L Type Road (L Bolt) Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	5.553	30	30.01	----	707.4	17200	25200	239	349	3.00	37.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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To,
 The Engineer
 Infrastructure Development Authority of The Punjab
 Establishment of University of Applied Engineering and Emerging Technologies (UAEET)
 Sambrial, Sialkot

Reference # CED/TFL **1614** (Dr. M Rizwan Riaz)

Dated: 27-06-2022

Reference of the request letter # TE/UAEET/ADAP/SO/2022/019

Dated: 20-06-2022

Tension Test Report (Page -1/1)

Date of Test

28-06-2022

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	0.397	3	0.385	0.11	0.117	4100	5100	82200	77440	102200	96400	0.90	11.3	A.F Steel
2	0.399	3	0.386	0.11	0.117	3900	5000	78200	73300	100200	94000	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 Quantity Surveyor
 Linker
 Construction of Hassan & Huma Residence, DHA Phase VIII, Sector-A, Lahore

Reference # CED/TFL **1617** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 27-06-2022
 Dated: 25-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-06-2022
 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	3700	4900	74200	74270	98200	98400	1.00	12.5	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 Defence Housing Authority,
 Gujranwala.
 (Sector C) (FF Steel)

Reference # CED/TFL **1619** (|Dr. Asif |Hameed)
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/446

Dated: 28-06-2022
 Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-06-2022
 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	Marks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.147	10	1.246	1.27	1.219	36600	50400	63600	66180	87500	91200	1.70	21.3	10A
2	4.173	10	1.250	1.27	1.227	36000	50000	62500	64680	86800	89900	1.80	22.5	10B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile and one sample for bend test														
Bend Test														
# 10 Bar Bend Test Through 180° is Satisfactory (10 C)														

Witness by Abdul Rahman (Lab. Tech)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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