



**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  
HA Consulting  
Construction of Central Building and Rehabilitation of 1.10 for Rental Space in NASTP  
DELTA.

Reference # CED/TFL **4244** (Dr. Ali Ahmed)

Dated: 23-11-2023

Reference of the request letter # HAC/UE/ Cap/2311/11/108

Dated: 11-11-2023

**Tension Test Report** (Page – 1/3)

Date of Test 03-01-2024

Gauge length 2 inches

Description Steel Structure Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	I-Beam	400x8x13x200	25.60x7.80	199.68	6600	9300	324	457	0.70	35.00	
2	I-Beam	300x7x11x150	25.50x6.10	155.55	5000	7000	315	441	0.70	35.00	
3	H-Beam	200x9x11x200	25.70x11.30	290.41	6700	9100	226	307	1.20	60.00	
4	I-Beam	350x12x13x150	25.50x12.80	326.40	16300	18900	490	568	0.70	35.00	
5	I-Beam	400x15x18x150	25.50x12.80	326.40	14500	16600	436	499	0.80	40.00	
6	Base Plate	320x320x20	25.50x22.70	578.85	23100	32500	391	551	0.90	45.00	
7	Connection Plate	500x200x12	25.60x11.60	296.96	9100	14000	301	462	0.90	45.00	
8	Connection Plate	500x150x12	25.50x11.70	298.35	8600	13500	283	444	0.90	45.00	
9	Connection Plate	300x200x12	25.40x11.70	297.18	8300	13500	274	446	0.80	40.00	
<b>Only Nine Samples for Tensile Test</b>											
<b>Bend Test</b>											

Witness by Usama Atta

**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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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DELTA.

Reference # CED/TFL 4244 (Dr. Ali Ahmed)

Dated: 23-11-2023

Reference of the request letter # HAC/UET/Cap/2311/11/108

Dated: 11-11-2023

**Weight & Size Test Report** (Page – 2/3)

Date of Test 03-01-2024

Description I-Beam & H-Beam Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b <sub>f</sub> )	Flange Thickness (t <sub>f</sub> )	Web Thickness (t <sub>w</sub> )	Remark
	(mm)									
1	I-Beam	400x8x13x200	6281	101.90	61.64	400.00	200.00	12.31	7.70	
2	I-Beam	300x7x11x150	3492	101.40	34.44	299.00	148.70	8.40	6.20	
3	H-Beam	200x9x11x200	5466	101.40	53.91	199.00	195.30	11.85	11.40	
4	I-Beam	350x12x13x150	8080	101.30	79.76	360.00	153.00	20.30	14.90	
5	I-Beam	400x15x18x150	8796	101.90	86.32	402.00	154.65	20.70	14.10	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Five Samples for Test</b>										

Witness by Usama Atta

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

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Resident Engineer  
HA Consulting  
Construction of Central Building and Rehabilitation of 1.10 for Rental Space in NASTP  
DELTA.

Reference # CED/TFL 4244 (Dr. Ali Ahmed)

Dated: 23-11-2023

Reference of the request letter # HAC/UET/Cap/2311/11/108

Dated: 11-11-2023

**Weight & Size Test Report** (Page – 3/3)

Date of Test 03-01-2024

Description Steel Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)		(g)	(mm)	(mm)	(kg/m <sup>2</sup> )	(mm)	
1	Base Plate	320x320x20	1820	101.70	101.00	177.19	22.60	
2	Connection Plate	500x200x12	954	101.30	101.60	92.69	11.70	
3	Connection Plate	500x150x12	961	101.30	101.20	93.74	11.70	
4	Connection Plate	300x200x12	956	101.70	101.00	93.07	12.00	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
<b>Only Four Sample for Test</b>								

Witness by Usama Atta

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

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,

Resident Engineer  
ACE-ARTS (Consultant)  
UAEET, Sambrial, Sialkot

Reference # CED/TFL **4428** (Dr. Ali Ahmed)

Dated: 29-12-2023

Reference of the request letter # ER/UAEET/ACE/ME/2023/56

Dated: 29-12-2023

**Tension Test Report** (Page – 1/2)

Date of Test 03-01-2024

Gauge length -----

Description Chain Link Mesh Wire and Tension Wire Tensile Test

Sr. No.	Measure Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	4.40	2600	25.51	Tension Wire
2	3.10	300	2.94	Chain Link Mesh Wire
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
<b>Only Two Samples for Test</b>				

**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**  
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To,

Resident Engineer  
ACE-ARTS (Consultant)  
UAEET, Sambrial, Sialkot

Reference # CED/TFL **4428** (Dr. Ali Ahmed)

Dated: 29-12-2023

Reference of the request letter # ER/UAEET/ACE/ME/2023/56

Dated: 29-12-2023

**Size Test Report** (Page – 2/2)

Date of Test 03-01-2024

Gauge length -----

Description Chain Link Mesh Wire Size Test

Sr. No.	Measure Diameter of Single Wire	Size (mm)		Remarks
	(mm)	X	Y	
1	3.10	52.20	51.40	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
<b>Only Two Samples for Test</b>				

**I/C Testing Laboratories**  
**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**

To,

Resident Engineer  
Jers Consultancy (Pvt) Ltd.  
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)  
Pilot Phase Cluster South II Package - 4, 5 Tehsil Ali Pur.

Reference # CED/TFL **4436** (Dr. Ali Ahmed)  
Reference of the request letter # 490-jo2-CO-

Dated: 01-01-2024  
Dated: 26-12-2023

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

Date of Test 03-01-2024  
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 <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	0.365	3	0.370	0.11	0.107	3410	4790	68400	70050	96000	98400	1.50	18.8	Moiz Steel
2	0.369	3	0.371	0.11	0.108	3410	4840	68400	69390	97000	98500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,

Project Manager  
Netracon Technologies (Pvt) Ltd  
Procurement of Plant-Design, Supply, Installation, Testing and Commission of 220 kV  
D/C T/B OHTL from Sheikhpura G/S to Bund Road G/S (28 km on Rail Conductor).

Reference # CED/TFL **4437** (Dr. Ali Ahmed)

Dated: 01-01-2024

Reference of the request letter # NTT-HO/ADB301C-R/SI-011

Dated: 01-01-2024

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

Date of Test 03-01-2024

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 <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	0.365	3	0.370	0.11	0.107	3590	4740	72000	73670	95000	97300	1.00	12.5	Fazal Steel	
2	4.294	10	1.268	1.27	1.262	41000	55600	71200	71610	96500	97100	1.40	17.5		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Note: only two samples for tensile and two samples for bend test</b>															
Bend Test															
#3 Bar Bend Test Through 180° is Satisfactory															
#10 Bar Bend Test Through 180° is Satisfactory															

Witness by Sohaib Ali (Sub-Engr. NESPAK)

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

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**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/01/4440

Dated: 02-01-2024

Dated of Test: 03-01-2024

To

**M/S National Heritage Contractors**  
**Lahore**

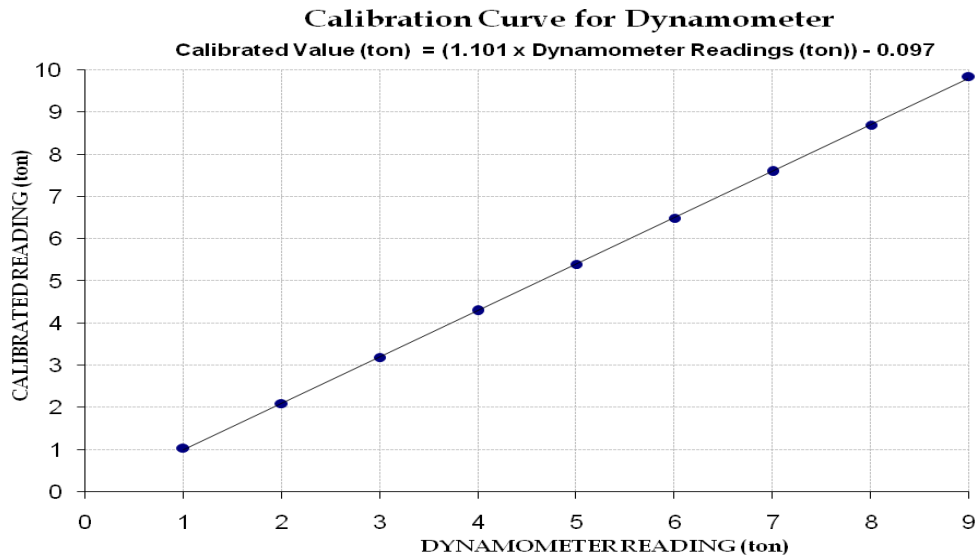
Subject: - **CALIBRATION OF DYNAMOMETER (MARK: TFL/01/4440)** (Page -1/1)

Ref: Your letter No. NHC/W-170/10326, dated: 26/12/2023 on the subject cited above. One Dynamometer (Brand PIAB, Model No. WS-1348) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 10 (ton)**  
**Calibrated Range : Zero - 9 (ton)**

Dynamometer Readings (ton)	1	2	3	4	5	6	7	8	9	
Calibrated Readings	(kg)	950	1900	2900	3900	4900	5900	6900	7900	8950
	(ton)	1.05	2.09	3.19	4.29	5.40	6.50	7.60	8.70	9.85

1000 kg = 1.1011 Ton



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

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**STRUCTURAL ENGINEERING DIVISION**  
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**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 4442 (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 02-01-2024  
Dated: 01-01-2024

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

Date of Test 03-01-2024  
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 <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	0.377	3	0.376	0.11	0.111	3790	4960	76000	75310	99400	98600	1.30	16.3	
2	0.373	3	0.374	0.11	0.110	3490	4710	70000	70100	94400	94700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
**UET Lahore, Pakistan.**

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

To,

Lab Manager  
China Gezhouba Group Co., Ltd.  
CGGC Dasu Hydropower Project Management in Pakistan.  
Dasu Hydropower Project  
FF Steel

Reference # CED/TFL **4444** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 02-01-2024  
Dated: 01-01-2024

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

Date of Test 03-01-2024  
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 <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.407	10	9.92	0.12	0.120	4080	5220	74956	75140	95900	96200	1.30	16.3	630
2	4.227	32	31.95	1.25	1.242	40200	54400	70900	71320	95944	96600	1.60	20.0	1265
3	4.134	32	31.60	1.25	1.215	40200	54200	70900	72910	95591	98300	1.60	20.0	1200
4	4.228	32	31.95	1.25	1.243	40600	54200	71605	72010	95591	96200	1.40	17.5	154
5	4.231	32	31.96	1.25	1.244	40200	53800	70900	71240	94886	95400	1.20	15.0	150
6	4.105	32	31.48	1.25	1.207	40000	53800	70547	73060	94886	98300	1.60	20.0	3045
7	5.234	36	35.55	1.58	1.539	47800	68800	66696	68480	95998	98600	1.30	16.3	102

**Note: only seven samples for tensile and seven samples for bend test**

**Bend Test**

10mm Bar Bend Test Through 180° is Satisfactory

32mm Bar Bend Test Through 180° is Satisfactory

32mm Bar Bend Test Through 180° is Satisfactory

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

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32mm Bar Bend Test Through 180° is Satisfactory

32mm Bar Bend Test Through 180° is Satisfactory

32mm Bar Bend Test Through 180° is Satisfactory

36mm Bar Bend Test Through 180° is Satisfactory

Witness by Tariq Javed (Senior Engr. DHC) and Fawad Ali Abbasi (WAPDA).

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

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To,  
 CEO  
 ZECO Building Systems  
 Sufa International School (Jehlam) Project.

Reference # CED/TFL **4445** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 02-01-2024  
 Dated: 02-01-2024

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

Date of Test 03-01-2024  
 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 <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	0.372	0.11	0.109	3310	4860	66400	67220	97400	98700	1.50	18.8	Ittehad Steel
2	0.369	3	0.372	0.11	0.108	3330	4860	66800	67680	97400	98800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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**University of Engineering and Technology Lahore, 54890**  
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To,

Sub Divisional Officer  
Buildings Sub Division No. 15  
Lahore  
(Construction of New Court Block at The Site of Old Administration Block at Lahore.)

Reference # CED/TFL **4447** (Dr. Ali Ahmed)  
Reference of the request letter #4193

Dated: 03-01-2024  
Dated: 29-12-2023

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

Date of Test 03-01-2024  
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 <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	0.378	3	0.376	0.11	0.111	4100	5400	82200	81310	108200	107100	1.10	13.8	
2	0.384	3	0.379	0.11	0.113	4100	5400	82200	80090	108200	105500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
**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



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**Pakistan. Ph: 92-42-99029202**

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

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