



**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  
ZEERUK – LOYA – MIHA Jv  
Development of Islamabad Expressway PWD Underpass to GT - Road Including Bhander  
Bridge, Japan Road Underpass & Soan Bridge.

Reference # CED/TFL **3302** (Dr. M Kashif)  
Reference of the request letter # ZI/FWO/P-N-5/23/110

Dated: 01-06-2023  
Dated: 23-05-2023

**Tension Test Report** (Page – 1/2)

Date of Test 06-06-2023  
Gauge length 2 inches  
Description MS Plate 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)	(mm)									
1	MS Plate	32	29.90x32.00	956.80	30200	39900	310	409	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>											
<b>Bend Test</b>											

**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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Reference of the request letter # ZI/FWO/P-N-5/23/110

Dated: 01-06-2023  
Dated: 23-05-2023

**Size Test Report** (Page – 2/2)

Date of Test

06-06-2023

Description

MS Plate (Trumpet Cone) Size Test

Sr. No.	Designation	Length	Width	Thickness	Remark
		(cm)	(cm)	(mm)	
1	MS Plate	24.00	24.00	32.70	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
<b>Only One Sample for Test</b>					

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**UET Lahore, Pakistan.**

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To,  
M/S Novatex Limited  
Karachi

Reference # CED/TFL **3313** (Dr. M Kashif)  
Reference of the request letter # Nil

Dated: 30-05-2023  
Dated: 30-05-2023

**Tension Test Report** (Page – 1/1)  
Date of Test 06-06-2023  
Gauge length 2 inches  
Description CS Plate 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)	(mm)									
1	CS Pipe	6	27.65x6.40	176.96	7700	8700	427	482	0.60	30.00	
2			27.60x6.40	176.64	8100	8700	450	483	0.70	35.00	
3	CS Pipe	10	28.90x9.65	278.89	12700	13500	447	475	0.60	30.00	
4			27.70x8.60	238.22	11800	12300	486	507	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile Test</b>											
<b>Bend Test</b>											

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

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To,  
M/S Amjad Engineering Services  
Lahore

Reference # CED/TFL **3348** (Dr. M Kashif)  
Reference of the request letter # S-078078

Dated: 01-06-2023  
Dated: 01-06-2023

**Tension Test Report** (Page – 1/1)

Date of Test 06-06-2023  
Gauge length 2 inches  
Description Steel Plate 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)	(mm)									
1	Steel Plate	32	30.00x31.60	948.00	-----	82000	-----	849	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>											
<b>Bend Test</b>											

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

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To,

Asst Dir Infra  
Defence Housing Authority  
OHWT Executive Block.

Reference # CED/TFL **3357** (Dr. M Kashif)

Dated: 02-06-2023

Reference of the request letter # 111/15/AD/RS/Lab/OHWT-EB/01

Dated: 01-06-2023

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

Date of Test 06-06-2023

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	4.305	10	1.269	1.27	1.265	34800	54000	60400	60620	93800	94100	1.60	20.0	Siraj Steel
2	4.314	10	1.271	1.27	1.268	36200	59800	62900	62920	103800	104000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
M/S Ittefaq Iron Industries Ltd.  
Gulberg-III, Lahore

Reference # CED/TFL **3366** (Dr. M Kashif)  
Reference of the request letter # QC/Lab/23

Dated: 05-06-2023  
Dated: 03-06-2023

**Tension Test Report** (Page -1/3)

Date of Test 06-06-2023  
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	0.372	3	0.373	0.11	0.109	3400	4900	68200	68470	98200	98700	1.20	15.0	Ittefaq Steel
2	0.371	3	0.372	0.11	0.109	3400	4900	68200	68810	98200	99200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,  
M/S Ittefaq Iron Industries Ltd.  
Gulberg-III, Lahore

Reference # CED/TFL **3366** (Dr. M Kashif)  
Reference of the request letter # QC/Lab/28

Dated: 05-06-2023

Dated: 03-06-2023

**Tension Test Report** (Page -2/3)

Date of Test 06-06-2023  
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	4.240	10	1.260	1.27	1.246	41200	55200	71500	72860	95800	97700	1.50	18.8	Ittefaq Steel
2	4.279	10	1.266	1.27	1.258	43800	56400	76100	76750	97900	98900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 M/S Ittefaq Iron Industries Ltd.  
 Gulberg-III, Lahore

Reference # CED/TFL **3366** (Dr. M Kashif)  
 Reference of the request letter # QC/Lab/29

Dated: 05-06-2023

Dated: 03-06-2023

**Tension Test Report** (Page -3/3)

Date of Test 06-06-2023  
 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	5.285	11	1.406	1.56	1.553	47200	70400	66700	66980	99500	99900	1.40	17.5	Ittefaq Steel
2	5.276	11	1.405	1.56	1.551	47000	70200	66500	66800	99200	99800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

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

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To,

Sr. Engineer (Civi) KCP (W&S)  
Pakistan Atomic Energy Commission  
Jauharabad

Reference # CED/TFL **3367** (Dr. M Kashif)

Dated: 05-06-2023

Reference of the request letter # KCP(W&S)-Hosp-(B-Wall-F)/2022

Dated: 02-06-2023

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

Date of Test 06-06-2023

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	0.359	3	0.367	0.11	0.106	3100	4700	62200	64730	94200	98200	1.30	16.3	
2	0.359	3	0.367	0.11	0.106	3200	4600	64200	66790	92200	96100	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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**Pakistan. Ph: 92-42-99029202**

To,

Material Engineer  
AZ Engineering Associates  
Rehabilitation of Road from Qila Dedar Singh to Sheikhpura Road Ghumman Wala  
Gujranwala.

Reference # CED/TFL **3368** (Dr. M Kashif)  
Reference of the request letter # RE AZEA/GDA-13

Dated: 05-06-2023  
Dated: 24-05-2023

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

Date of Test 06-06-2023  
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	3200	5000	64200	63480	100200	99200	1.30	16.3	Islamabad Supreme	
2	0.376	3	0.375	0.11	0.110	3200	4600	64200	63860	92200	91800	1.60	20.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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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To,

Resident Engineer  
 NESPAK

Construction of Bypass from Royal Hostel (N-5) to Sarwar Chowk via Ada Mai Wali Masjid, Length = 13.70 km. (Phase-II) Dection from Kachi Pakki Road to N-5 (Royal Hotel) Length 3.93 km Including Construction of Flyover Bridge over Railway Track, LBDC and N-5 in District Sahiwal.

Reference # CED/TFL **3369** (Dr. M Kashif)

Dated: 05-06-2023

Reference of the request letter # 4267/Sahiwal/ADP/Flyover/JQ/5 3

Dated: 15-05-2023

**Tension Test Report** (Page -1/2)

Date of Test 06-06-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		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	4.191	10	1.252	1.27	1.232	37800	52800	65600	67630	91700	94500	1.70	21.3	Sheikho Steel
2	4.180	10	1.251	1.27	1.229	37200	52600	64600	66740	91300	94400	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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To,

Resident Engineer  
 NESPAK

Construction of Bypass from Royal Hostel (N-5) to Sarwar Chowk via Ada Mai Wali Masjid, Length = 13.70 km. (Phase-II) Dection from Kachi Pakki Road to N-5 (Royal Hotel) Length 3.93 km Including Construction of Flyover Bridge over Railway Track, LBDC and N-5 in District Sahiwal.

Reference # CED/TFL **3369** (Dr. M Kashif)

Dated: 05-06-2023

Reference of the request letter # 4267/Sahiwal/ADP/Flyover/JQ/54

Dated: 19-05-2023

**Tension Test Report** (Page -2/2)

Date of Test 06-06-2023

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	5.339	11	1.414	1.56	1.569	42400	66200	60000	59550	93600	93000	1.40	17.5	Sheikho Steel
2	5.386	11	1.420	1.56	1.583	45000	66400	63600	62650	93900	92500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#11 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,  
M/S Meezan Developers  
Lahore  
(Construction of Jamia tur Rasheed Lahore Campus)

Reference # CED/TFL **3370** (Dr. M Kashif)  
Reference of the request letter # Nil

Dated: 05-06-2023  
Dated: 05-06-2023

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

Date of Test 06-06-2023  
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	0.373	3	0.373	0.11	0.110	3900	4800	78200	78490	96200	96700	0.90	11.3	
2	0.373	3	0.374	0.11	0.110	3900	4800	78200	78440	96200	96600	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 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,

Project Manager  
Mecons (Pvt.) Ltd.  
Construction and Completion of Civil Works, Erection, Stringing, Testing &  
Commissioning of 220 kV D/C Twin Bundle T/Line from 500/220kV Faisalabad Grid  
Station to 220 kV Lalian Grid Station (Approx. 55km)

Reference # CED/TFL **3373** (Dr. M Kashif)

Dated: 05-06-2023

Reference of the request letter # MECONS/TLC-17/505

Dated: 05-06-2023

**Tension Test Report** (Page -1/2)

Date of Test 06-06-2023

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	0.368	3	0.371	0.11	0.108	3400	4700	68200	69320	94200	95900	1.40	17.5	
2	0.366	3	0.370	0.11	0.108	3300	4700	66200	67590	94200	96300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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



**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  
Mecons (Pvt.) Ltd.  
Construction and Completion of Civil Works, Erection, Stringing, Testing &  
Commissioning of 220 kV D/C Twin Bundle T/Line from 500/220kV Faisalabad Grid  
Station to 220 kV Lalian Grid Station (Approx. 55km)

Reference # CED/TFL **3373** (Dr. M Kashif)

Dated: 05-06-2023

Reference of the request letter # MECONS/TLC-17/505

Dated: 05-06-2023

**Tension Test Report** (Page -2/2)

Date of Test 06-06-2023

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	4.219	32	31.92	1.25	1.240	36400	53400	64198	64690	94181	95000	1.60	20.0	
2	4.220	32	31.92	1.25	1.241	37000	53600	65256	65740	94533	95300	1.50	18.8	
3	4.208	32	31.88	1.25	1.237	36600	53200	64551	65220	93828	94800	1.50	18.8	
4	4.222	32	31.93	1.25	1.241	37000	53600	65256	65710	94533	95200	1.70	19.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														
32mm Dia 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  
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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  
 Velosi Integrity & Safety Pakistan (Pvt) Ltd.  
 Construction of AIOU Regional Campus Sahiwal

Reference # CED/TFL **3374** (Dr. M Kashif) Dated: 05-06-2023  
 Reference of the request letter # VISP/135/AIOU/SWL/014 Dated: 30-05-2023

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

Date of Test 06-06-2023  
 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	0.367	3	0.370	0.11	0.108	3200	4600	64200	65450	92200	94100	1.20	15.0	Ittehad Steel
2	0.368	3	0.371	0.11	0.108	3100	4700	62200	63220	94200	95900	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.**

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,  
ASM Steel Buildings  
Lahore

Reference # CED/TFL **3375** (Dr. M Kashif)  
Reference of the request letter # Nil

Dated: 05-06-2023  
Dated: 05-06-2023

**Tension Test Report** (Page – 1/1)  
Date of Test 06-06-2023  
Gauge length 2 inches  
Description HR Plate 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)	(mm)									
1	HR Plate	4	29.40x3.90	114.66	3900	5500	334	471	0.80	40.00	
2	HR Plate	6	29.40x5.80	170.52	5100	7400	293	426	0.90	45.00	
3	HR Plate	8	29.30x7.90	231.47	6700	10500	284	445	0.90	45.00	
4	HR Plate	10	29.20x9.80	286.16	10400	14900	357	511	0.70	35.00	
5	HR Plate	12	29.30x11.70	342.81	10200	15700	292	449	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Five Samples for Tensile Test</b>											
<b>Bend Test</b>											

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

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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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  
 ACE Architectural & Town Planning Services Limited, Sambrial Sialkot  
 Establishment of University of Applied Engineering and Emerging Technologies  
 (UAEET) Sambrial, Sialkot  
 (FF Steel)

Reference # CED/TFL **3400 (Dr. Asad Ali)**

Dated: 06-06-2023

Reference of the request letter # ER/UAEET/ACE/ME/2023/10

Dated: 06-06-2023

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

Date of Test 06-06-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test 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	0.367	3	0.371	0.11	0.108	3620	4590	72600	73940	92000	93800	1.30	16.3	2900
2	0.388	3	0.381	0.11	0.114	3820	4890	76600	73750	98000	94500	1.40	17.5	
3	0.371	3	0.373	0.11	0.109	3590	4540	72000	72560	91000	91800	1.00	12.5	2901
4	0.371	3	0.373	0.11	0.109	3620	4690	72600	73210	94000	94900	1.20	15.0	
5	0.368	3	0.371	0.11	0.108	3770	4840	75600	76800	97000	98600	1.00	12.5	2903
6	0.386	3	0.380	0.11	0.114	3840	5020	77000	74560	100600	97500	1.00	12.5	

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

**Bend Test**

#3 Bar Bend Test Through 180° is Satisfactory

#3 Bar Bend Test Through 180° is Satisfactory

#3 Bar Bend Test Through 180° is Satisfactory

Witness by M Umiaz (Material Engineer ACE)

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

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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