



**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

Construction of bypass from Royal Hotel (N-5) to Sarwar Chowk via Ada Mai Masjid,  
 Length = 13.70 km, (Phase-II) Section 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 **3966** (Dr. Rizwan Azam)

Dated: 25-09-2023

Reference of the request letter # 4267/Sahiwal/ADP/Flyover/JQ/80

Dated: 02-08-2023

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

Date of Test 28-09-2023

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	0.374	3	0.374	0.11	0.110	3430	4740	68800	68720	95000	95000	1.30	16.3	Sheikhoo Steel
2	0.368	3	0.371	0.11	0.108	3380	4610	67800	68940	92400	94100	1.50	18.8	
3	4.211	10	1.255	1.27	1.238	36000	53200	62500	64100	92400	94800	1.50	18.8	
4	4.202	10	1.254	1.27	1.235	39400	55200	68400	70310	95800	98500	1.60	20.0	
5	5.348	11	1.415	1.56	1.572	47200	67400	66700	66180	95300	94500	1.60	20.0	
6	5.383	11	1.419	1.56	1.582	56600	74000	80000	78840	104600	103100	1.50	18.8	
<b>Note: only six samples for tensile and three samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#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



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To,  
 Project Engineer  
 Defence Housing Authority, Gujranwala  
 "Construction of Office Complex DHA Gujranwala"

Reference # CED/TFL **3968** (Dr. Rizwan Azam)  
 Reference of the request letter # 111/3/PE Woks Sec/Gen/53

Dated: 25-09-2023  
 Dated: 25-09-2023

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

Date of Test 28-09-2023  
 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	0.390	3	0.382	0.11	0.115	3410	5070	68400	65620	101600	97600	1.40	17.5	Siraj Steel
2	0.378	3	0.376	0.11	0.111	3310	4940	66400	65700	99000	98100	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 Laboratoires**  
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To,  
 Engineer Representative  
 Osmani & Company (Pvt) Ltd  
 Construction of Greenfield Aerodrome for General Aviation Activities at Muridke

Reference # CED/TFL **3969** (Dr. Rizwan Azam) Dated: 25-09-2023  
 Reference of the request letter # OCL/CAA/MAD-ER/09-2K23/50 Dated: 20-09-2023

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

Date of Test 28-09-2023  
 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	2930	4280	58800	58170	85800	85000	1.60	20.0	Prime Supreme Steel
2	0.380	3	0.377	0.11	0.112	2900	4280	58200	57240	85800	84500	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**  
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To,

Campus Engineer  
 GC University, Lahore  
 Construction of New Girls Hostel at Main Campus GCU Lahore.

Reference # CED/TFL **3973** (Dr. Rizwan Azam)  
 Reference of the request letter # GCU/Engr/877/W.O

Dated: 26-09-2023  
 Dated: 22-09-2023

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

Date of Test 28-09-2023  
 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	0.395	3/8	0.384	0.11	0.116	3580	5250	71800	67980	105200	99700	1.50	18.8	
2	0.399	3/8	0.386	0.11	0.117	3640	5350	73000	68480	107200	100700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,

Resident Engineer  
Velosi Integrity & Safety Pakistan (Pvt) Ltd.  
Detailed Design & Resident Supervision of Regional Campus of Allama Iqbal Open  
University Sargodha.

Reference # CED/TFL **3974** (Dr. Rizwan Azam)  
Reference of the request letter # VISP/RC/SRG-016

Dated: 26-09-2023  
Dated: 25-09-2023

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

Date of Test 28-09-2023  
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	0.362	3	0.368	0.11	0.106	3180	4640	63800	65830	93000	96100	1.30	16.3	Ittehad Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,

Construction Manager  
 Barqaab Consulting Services (Pvt) Limited  
 Procurement of Plant, Design, Supply, Installation, Testing and Commissioning of  
 500/220/132kV Lahore North Substation and Extension Works at 500/220/132kV Nokhar  
 Substation Under ADB Loan-3677-Pak Second Power Transmission Enhancement  
 Investment Program Trench-III.

Reference # CED/TFL **3983 (Dr.Yousaf)**

Dated: 28-09-2023

Reference of the request letter # 500kV/SS/N-LHR/BQB/146

Dated: 27-09-2023

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

Date of Test 28-09-2023

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	0.379	3	0.377	0.11	0.111	3490	4660	70000	69040	93400	92200	1.30	16.3	FF Steel
2	0.374	3	0.374	0.11	0.110	3620	4740	72600	72670	95000	95200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Note: only two samples for tensile and one sample for bend test**

**Bend Test**

#3 Bar Bend Test Through 180° is Satisfactory

Witness by Muhammad Farhan (Barqaab) Senior Engineer Civil

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