



**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 Construction (Pvt) Ltd  
 Construction of Structural Works of Dolmen Shopping Mall, Lahore

Reference # CED/TFL **35608** (Dr. Ali Ahmed)  
 Reference of the request letter # ICPL/CONST-DML/20/28

Dated: 10-11-2020  
 Dated: 09-11-2020

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

Date of Test 11-11-2020  
 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	0.407	10	9.91	0.12	0.120	3800	4800	69812	70080	88184	88600	1.30	16.3	
2	0.407	10	9.92	0.12	0.120	3800	4900	69812	69930	90021	90200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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



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To,  
 Maj. Farooq Ali  
 Lahore

Reference # CED/TFL **35611** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 10-11-2020  
 Dated: 10-11-2020

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

Date of Test 11-11-2020  
 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	0.376	3/8	0.375	0.11	0.110	3700	5100	74200	73880	102200	101900	1.00	12.5	
2	0.373	3/8	0.374	0.11	0.110	3700	5100	74200	74350	102200	102500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

To,

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

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M/S SA-RA Group  
 Lahore

(Procurement of Plant, Design, Supply, Installation, Testing and Commissioning of 220 kV Double Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)

Reference # CED/TFL **35612** (Dr. Ali Ahmed)  
 Reference of the request letter # MIG/2020/1238

Dated: 10-11-2020  
 Dated: 10-11-2020

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

Date of Test 11-11-2020  
 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	0.366	3	0.370	0.11	0.108	3700	4600	74200	75740	92200	94200	0.80	10.0	Batala Steel
2	0.370	3	0.372	0.11	0.109	3700	4600	74200	74920	92200	93200	1.00	12.5	
3	0.362	3	0.368	0.11	0.107	3700	4700	74200	76560	94200	97300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and three samples for bend test</b>														
<b>Bend Test</b>														
#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 Sohaib Ali (Sub-Engineer NESPAK)

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