



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Planning and Monitoring Engineer  
 Matrix Management (Pvt) Ltd  
 Ibrahim Industries., Lahore

Reference # CED/TFL **33052-53** (Dr. Ali Ahmed)  
 Reference of the request letter # MW/MMPL-2/2019/01

Dated: 11-04-2019  
 Dated: 11-04-2019

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

Date of Test 12-04-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	4000	5300	80200	79500	106200	105400	0.90	11.3	
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<b>Note: only one sample for tensile test</b>														
Bend Test														

**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,  
M/S Transtech Engineering Company  
NESPAK-CMEC  
PTPL  
Construction of 1263 MW Punjab Power Plant, Jhang (Ittefaq Steel)

Reference # CED/TFL **33058** (Dr. Ali Ahmed)  
Reference of the request letter # TEC/UET/19042101

Dated: 12-04-2019  
Dated: 12-04-2019

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

Date of Test 12-04-2019  
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	0.410	10	9.95	0.11	0.121	3200	5300	64200	58500	106200	96900	1.20	15.0	7075
2	0.409	10	9.94	0.11	0.120	3300	5200	66200	60490	104200	95400	1.20	15.0	
3	0.408	10	9.92	0.11	0.120	3400	5300	68200	62490	106200	97500	1.30	16.3	1754
4	0.409	10	9.94	0.11	0.120	3400	5300	68200	62350	106200	97200	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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2. The above results pertain to sample /samples supplied to this laboratory.
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