



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
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **34965** (Dr. Ali Ahmed)
 Reference of the request letter # ST/UET/20200610

Dated: 10-06-2020
 Dated: 10-06-2020

Tension Test Report (Page -1/1)

Date of Test 10-06-2020
 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 ²)		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	0.388	3	0.381	0.11	0.114	3790	5120	76000	73180	102600	98900	0.90	11.3	Model
2	0.390	3	0.382	0.11	0.115	4150	5420	83200	79850	108600	104300	0.80	10.0	
3	0.391	3	0.382	0.11	0.115	4180	5450	83800	80250	109200	104700	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
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
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
 NETRACON Technologies (Pvt) Ltd
 Design, Manufacture, Supply, Installation, Testing and Commission of Plant for 500 / 220 / 132
 kV Faisalabad West Substation

Reference # CED/TFL **34966** (Dr. Ali Ahmed)
 Reference of the request letter # NTT-HO/FSDW-GS/013

Dated: 10-06-2020
 Dated: 09-06-2020

Tension Test Report (Page -1/1)

Date of Test 10-06-2020
 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 ²)		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	0.376	3	0.375	0.11	0.111	3230	5100	64800	64420	102200	101800	1.20	15.0	
2	0.367	3	0.371	0.11	0.108	3060	4690	61400	62440	94000	95700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
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Reference # CED/TFL **34975** (Dr. Ali Ahmed)
 Reference of the request letter # ST/UET/20200612

Dated: 12-06-2020
 Dated: 12-06-2020

Tension Test Report (Page -1/1)

Date of Test 12-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		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	0.356	3	0.365	0.11	0.105	3740	4790	75000	78740	96000	100900	0.90	11.3	Model
2	0.394	3	0.384	0.11	0.116	3570	4640	71600	67910	93000	88300	0.50	6.3	
3	0.385	3	0.380	0.11	0.113	3940	4890	79000	76720	98000	95300	0.80	10.0	
4	0.388	3	0.381	0.11	0.114	3670	4960	73600	70910	99400	95900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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