



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

To,
 Project Engineer - Civil
 IIW - Industrial Engineering & Contractors
 Construction of 2 Nos Petroleum Storage Tanks with Allied Works at PSO Machike
 (Pakistan State Oil Limited)

Reference # CED/TFL **35974** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 22-01-2021
 Dated: 22-01-2021

Tension Test Report (Page -1/1)

Date of Test 25-01-2021
 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	0.377	3	0.376	0.11	0.111	3100	5000	62200	61670	100200	99500	1.30	16.3	
2	0.373	3	0.374	0.11	0.110	3200	5000	64200	64350	100200	100600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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.
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To,
 GM
 Ittefaq Construction Associates
 Ittefaq Pre-Cast Services

Reference # CED/TFL **35976** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 22-01-2021
 Dated: 22-01-2021

Tension Test Report (Page -1/1)

Date of Test 25-01-2021
 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	0.368	3	0.371	0.11	0.108	3300	4100	66200	67250	82200	83600	1.10	13.8	
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Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S CM Engineering (Pvt) Ltd
Lahore
(CMPAK Project Site ID: 52846, 52776, 52737)

Reference # CED/TFL **35978** (Dr. Qasim Khan)
Reference of the request letter # CME/Steel/CMPAK/345

Dated: 22-01-2021
Dated: 07-01-2021

Tension Test Report (Page -1/1)

Date of Test 25-01-2021
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 ²)		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	0.368	10	9.43	0.12	0.108	3100	4600	56952	63090	84510	93700	1.20	15.0	
2	0.367	10	9.42	0.12	0.108	3200	4700	58789	65350	86347	96000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 M/S Imperium Hospitality (Pvt) Limited
 Gulberg II, Lahore

Reference # CED/TFL **35980** (Dr. M Rizwan Riaz)
 Reference of the request letter # IHPL/Steel/047

Dated: 22-01-2021
 Dated: 20-01-2021

Tension Test Report (Page -1/1)

Date of Test 25-01-2021
 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	4.044	10	1.230	1.27	1.189	41000	54000	71200	76030	93800	100200	1.30	16.3	PCS Steel
2	4.002	10	1.224	1.27	1.176	41000	54200	71200	76820	94100	101600	1.50	18.8	
3	3.990	10	1.222	1.27	1.173	40800	53800	70900	76670	93400	101100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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To,
M/S S.P. Nizam
Lahore

Reference # CED/TFL **35981** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 22-01-2021
Dated: 22-01-2021

Tension Test Report (Page – 1/1)

Date of Test 25-01-2021
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14	0.662	10100	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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