



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

To,
 Executive Director
 Banu Mukhtar Contracting (Pvt) Ltd
 Construction of of Greenfield Manufacturing Plant for Velo, Jhelum

Reference # CED/TFL **34830** (Dr. Usman Akmal)
 Reference of the request letter # BML-00771-Civil-001

Dated: 12-03-2020
 Dated: 11-03-2020

Tension Test Report (Page -1/1)

Date of Test 13-03-2020
 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 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	0.366	3/8	0.370	0.11	0.108	3800	4900	76200	77770	98200	100300	1.00	12.5	Karachi Steel
2	0.365	3/8	0.370	0.11	0.107	3500	4800	70200	71890	96200	98600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" 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
- 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,
 Chief Resident Engineer
 DOLSAR – NESPAK Jv
 Consultancy Services as Assistant to Employer's Representative (AER) for China Pakistan
 Economic Corridor: Havelian – Thakot (120 km) (Pak Iron)

Reference # CED/TFL **34832** (Dr. Usman Akmal)
 Reference of the request letter # DNJV/NHA/OKK/04/05-20

Dated: 12-03-2020
 Dated: 11-03-2020

Tension Test Report (Page -1/2)

Date of Test 13-03-2020
 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 ²)		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	0.416	10	10.02	0.12	0.122	3900	5450	71650	70300	100126	98300	1.00	12.5	205
2	0.408	10	9.93	0.12	0.120	3600	5000	66138	66110	91858	91900	1.20	15.0	
3	0.417	10	10.03	0.12	0.122	3500	5100	64301	62990	93696	91800	1.20	15.0	206
4	0.416	10	10.02	0.12	0.122	3700	5100	67975	66690	93696	92000	1.20	15.0	
5	0.420	10	10.07	0.12	0.123	3800	5000	69812	67910	91858	89400	1.00	12.5	207
6	0.417	10	10.03	0.12	0.122	3600	4900	66138	64780	90021	88200	1.00	12.5	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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Reference # CED/TFL **34832** (Dr. Usman Akmal)
 Reference of the request letter # DNJV/NHA/OKK/04/07-20

Dated: 12-03-2020
 Dated: 11-03-2020

Tension Test Report (Page -2/2)

Date of Test 13-03-2020
 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 ²)		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	0.425	10	10.13	0.12	0.125	3600	5000	66138	63500	91858	88200	1.50	18.8	101
2	0.431	10	10.21	0.12	0.127	3400	5000	62464	59100	91858	87000	1.50	18.8	
3	0.407	10	9.92	0.12	0.120	3300	4800	60627	60760	88184	88400	1.20	15.0	103
4	0.409	10	9.94	0.12	0.120	3300	4800	60627	60460	88184	88000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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