



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

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34994** (Dr. Waseem Abbass)
Reference of the request letter # 378/CRE/QAT/SMP/2020

Dated: 17-06-2020
Dated: 09-06-2020

Tension Test Report (Page – 1/1)

Date of Test 19-06-2020
Gauge length -----
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Yield Load	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	(kg)	
1	25	3.79	-----	57200	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
Only one sample for Test					

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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

To,
M/S Mughal Iron & Steel Industries Limited
Lahore

Reference # CED/TFL **35002** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 18-06-2020
Dated: 18-05-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.407	10	9.92	0.12	0.120	3800	5000	69812	69950	91858	92100	0.90	11.3	Mughal Steel
2	4.204	32	31.86	1.25	1.236	38000	55200	67020	67780	97355	98500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 AAA jv ACC,
 TurkPak
 Improvement/Widening of Thokar Niaz Baig – Hudiyara Drain Sectio of N-5

Reference # CED/TFL **35004** (Dr. Waseem Abbas)
 Reference of the request letter # THDP/RE/01/513

Dated: 18-06-2020
 Dated: 11-06-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.419	10	10.06	0.12	0.123	3600	5000	66138	64440	91858	89500	1.30	16.3	F.F Steel
2	0.440	10	10.31	0.12	0.129	3700	5300	67975	63070	97370	90400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,
 Resident Engineer
 NESPAK
 Construction of Under Passes at Kashmir Bridge along Canal Faisalabad

Reference # CED/TFL **35005** (Dr. Waseem Abbas)
 Reference of the request letter # 3994/103/AS/02/233

Dated: 18-06-2020
 Dated: 10-06-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
 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	0.375	3	0.374	0.11	0.110	4300	5200	86200	86090	104200	104200	0.80	10.0	Kisan Steel
2	0.373	3	0.374	0.11	0.110	4000	5000	80200	80430	100200	100600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
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To,
 Resident Engineer
 G3 Engineering Consultants (Pvt) Ltd
 Consultancy Services Establishment of Sub Campus of University of Agriculture Faisalabad at
 Depalpur District Okara

Reference # CED/TFL **35006** (Dr. Waseem Abbas)
 Reference of the request letter # RE/UAF/DEP/43

Dated: 18-06-2020
 Dated: 08-05-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
 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	0.368	3	0.371	0.11	0.108	3600	5700	72200	73390	114300	116300	1.00	12.5	BSM
2	0.373	3	0.374	0.11	0.110	3700	5700	74200	74370	114300	114600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Resident Engineer
 Architectural & Civil Engineering Services
 National Logistic Cell (NLC)
 OIC – Rumanza Golf Course, DHA Multan
 (Mughal Steel)
 Reference # CED/TFL **35007** (Dr. Waseem Abbas)
 Reference of the request letter # ACES-DHAM-GCRR-111

Dated: 18-06-2020
 Dated: 10-06-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.393	10	9.75	0.12	0.116	3800	5100	69812	72450	93696	97300	0.80	10.0	
2	0.401	10	9.84	0.12	0.118	3600	4900	66138	67320	90021	91700	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,
 Chief Resident Engineer
 ProMag Pvt Ltrd
 Sector-D DHA Multan

Reference # CED/TFL **35008** (Dr. Waseem Abbas)
 Reference of the request letter # CRE/NLC/442

Dated: 18-06-2020
 Dated: 10-06-2020

Tension Test Report (Page -1/2)

Date of Test 19-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.162	5	5.12	19.40	20.60	1120	1280	566	533	647	609	Amjad Steel
2	0.165	5	5.18	19.40	21.07	1140	1300	576	531	657	605	
3	0.222	6	6.00	32.30	28.26	1720	1960	522	597	595	680	
4	0.222	6	6.01	32.30	28.33	1720	1960	522	596	595	679	
5	0.375	8	7.80	51.60	47.82	2740	3120	521	562	593	640	
6	0.373	8	7.77	51.60	47.46	2740	3120	521	566	593	645	
Note: only six samples for tensile and three samples for bend test												
Bend Test												
5mm Dia Bar Bend Test Through 180° is Satisfactory												
6mm Dia Bar Bend Test Through 180° is Satisfactory												
8mm Dia Bar Bend Test Through 180° is Satisfactory												

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To,
 Chief Resident Engineer
 ProMag Pvt Ltrd
 Sector-D DHA Multan

Reference # CED/TFL **35008** (Dr. Waseem Abbas)
 Reference of the request letter # CRE/NLC/442

Dated: 18-06-2020
 Dated: 10-06-2020

Tension Test Report (Page -2/2)

Date of Test 19-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.405	10	9.89	0.12	0.119	3800	5000	69812	70280	91858	92500	1.00	12.5	Mughal Steel
2	0.395	10	9.77	0.12	0.116	4000	5000	73487	75860	91858	94900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
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To,
 Project Manager
 Dupak Properties (Pvt) Ltd
 Defence view Apartments at Shanghai Road, Lahore

Reference # CED/TFL **35009** (Dr. Waseem Abbas)
 Reference of the request letter # Dupak/DVA/046

Dated: 19-06-2020
 Dated: 19-06-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
 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	0.367	3	0.371	0.11	0.108	3000	4700	60200	61330	94200	96100	1.30	16.3	
2	0.369	3	0.372	0.11	0.109	3000	4600	60200	60940	92200	93500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 Executive Engineer
 5th Buildings Division
 Lahore
 (Construction of MPA Hostel Phase-II Lahore)

Reference # CED/TFL **35010** (Dr. Waseem Abbas)
 Reference of the request letter # 3338

Dated: 19-06-2020
 Dated: 09-05-2020

Tension Test Report (Page -1/1)

Date of Test 19-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.381	3/8	0.378	0.11	0.112	3200	4700	64200	63010	94200	92600	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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