



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

To,
Resident Engineer
NESPAK
M. Garh – D.G Khan Road
(PSC)

Reference # CED/TFL **33110** (Dr. Ali Ahmed)
Reference of the request letter # 3949/HA/01/239

Dated: 19-04-2019
Dated: 06-04-2019

Tension Test Report (Page -1/1)

Date of Test 24-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.373	3	0.374	0.11	0.110	2700	4300	54100	54250	86200	86400	1.30	16.3	
2	0.376	3	0.375	0.11	0.110	2700	4200	54100	53890	84200	83900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 Chief Resident Engineer (Civil) Panjad Barrage
 Trimmu Panjnad Barrages Consultants
 Trimmu and Panjnad Barrages Improvement Project (TPBIP)
 (Ittefaq Steel)

Reference # CED/TFL **33123** (Dr. Ali Ahmed)
 Reference of the request letter # TPBC/CRE/TECH/88

Dated: 22-04-2019
 Dated: 16-04-2019

Tension Test Report (Page -1/1)

Date of Test 24-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		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	5.188	11	1.393	1.56	1.525	51200	66400	72400	74000	93900	96000	1.20	15.0	
2	5.271	11	1.405	1.56	1.549	54400	68000	76900	77390	96100	96800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Lead QA & QC (PCL Project)
Descon Engineering Ltd
7700 TPD-Pioneer Cement Project (CP10055)(WMI)

Reference # CED/TFL **33126** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 23-04-2019
Dated: 19-04-2019

Tension Test Report (Page – 1/1)

Date of Test 24-04-2019
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	15.24 (0.6")	1102.0	1113.0	24000	235.44	26900	263.89	>3.50	xx
2	15.24 (0.6")	1102.0	1111.0	25500	250.16	27400	268.79	>3.50	xx
-	15.24 (0.6")	1102.0	1113.0	24400	239.36	27000	264.87	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only three samples for Test									

I/C Testing Laboratoires
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Test Floor Laboratory
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To,
 Maintenance Engineer-II
 University of the Punjab
 Construction of Madrasa for Jamia Masjid at QAC

Reference # CED/TFL **33127** (Dr. Ali Ahmed)
 Reference of the request letter # D-799-MEII

Dated: 23-04-2019
 Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 24-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3/8	0.376	0.11	0.111	2800	4000	56200	55450	80200	79300	1.40	17.5	
2	0.396	3/8	0.385	0.11	0.116	2900	4300	58200	54920	86200	81500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
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To,
 General Manager Projects
 A.S Enterprises
 (Style Textile Mills Near Manga Mandi Lahore)(AA Associates)(Afco)

Reference # CED/TFL **33128** (Dr. Ali Ahmed)
 Reference of the request letter # LTR#ASL/STM/002

Dated: 23-04-2019
 Dated: 23-04-2019

Tension Test Report (Page -1/1)

Date of Test 24-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.259	10	7.91	0.11	0.076	2600	3800	52100	75310	76200	110100	1.00	12.5	
2	0.267	10	8.02	0.11	0.078	2500	3800	50100	70340	76200	107000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Resident Engineer
 Al-Imam Enterprises Pvt Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore
 (Pak Steel)

Reference # CED/TFL **33129** (Dr. Ali Ahmed)

Dated: 23-04-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/837

Dated: 16-04-2019

Tension Test Report (Page -1/1)

Date of Test 24-04-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.406	10	9.90	0.11	0.119	3500	5100	70200	64620	102200	94200	1.10	13.8	
2	0.405	10	9.89	0.11	0.119	3700	5200	74200	68480	104200	96300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,
M/S Unique Engineering Consultants
Gulberg III, Lahore

Reference # CED/TFL **33130** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 23-04-2019

Dated: 20-04-2019

Tension Test Report (Page -1/1)

Date of Test 24-04-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.385	3/8	0.379	0.11	0.113	4400	5100	88200	85780	102200	99500	1.00	12.5	
2	0.380	3/8	0.377	0.11	0.112	4300	5000	86200	84880	100200	98700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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Ref: CED/TFL/04/33132

Dated: 23-04-19

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

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/33132)** (Page # 1/1)

Reference to your Letter No. 3994/103/AS/01/92, dated: 22/04/2019 on the subject cited above. One Hydraulic No. XJ999150 as received by us has been calibrated. The results are tabulated as under:

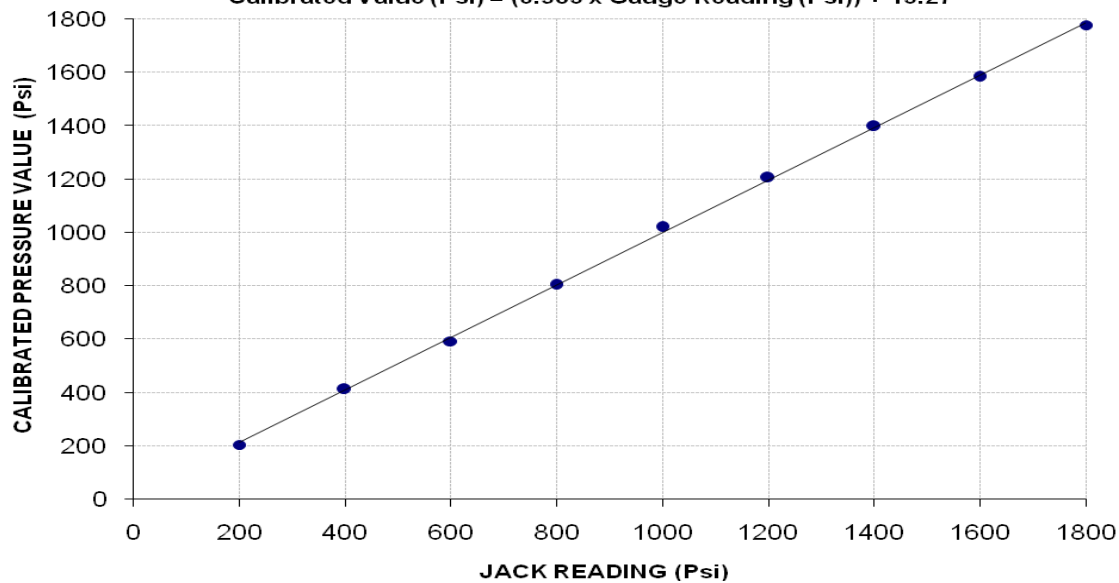
Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 1800 (Psi)

Hydraulic Jack Reading (Psi)	200	400	600	800	1000	1200	1400	1600	1800
Calibrated Load (kg)	22400	45000	64600	87800	111400	131600	152600	172800	194000
Calibrated Pressure (Psi)	205.31	412.45	592.10	804.74	1021.05	1206.19	1398.67	1583.81	1778.12

The Ram Area of Jack = 240.53 in²

Calibration Curve for Jack No. XJ999150

Calibrated Value (Psi) = (0.985 x Gauge Reading (Psi)) + 15.27



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To,
 Manager Quality Control
 Ravi Green Engineering (Pvt) Ltd
 Construction of Flag Poles at DHA Bahawalpur 20 meter & 45meter
 (CTE (Pvt) Ltd)(P-643)

Reference # CED/TFL **33135** (Dr. Usman Akmal)
 Reference of the request letter # RG/MT/UET/2630

Dated: 24-04-2019
 Dated: 24-04-2019

Tension Test Report (Page – 1/1)

Date of Test 24-04-2019
 Gauge length 8 inches
 Description Carbon Steel Plate Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	P643-T12-1	12	39.70x12.00	476.40	11800	20600	242.98	424.19	1.80	22.50	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

Witness by Muhammad Hinan Ch (Site Engineer, CTE Pvt Ltd)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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