



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

To,
 Assistant Director-II
 Building Research Station
 Lahore
 (Ittefaq Steel)

Reference # CED/TFL **34233** (Dr. Qasim Khan)
 Reference of the request letter # 154-R/3364

Dated: 29-11-2019
 Dated: 29-11-2019

Tension Test Report (Page -1/1)

Date of Test 06-12-2019
 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	Grade
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3	0.375	0.11	0.110	3100	4400	62200	61860	88200	87800	1.40	17.5	40
2	0.377	3	0.375	0.11	0.111	3400	5250	68200	67710	105200	104600	1.30	16.3	60
3	4.290	10	1.267	1.27	1.261	45000	58000	78100	78660	100700	101400	1.50	18.8	60
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: only three samples for tensile and three samples for bend test

Bend Test

#3 Bar Bend Test Through 180° is Satisfactory

#3 Bar Bend Test Through 180° is Satisfactory

#10 Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 New Vision Engineering Consultant
 Construction of Product Development Center (PDC) for Composites Based Sports Goods,
 Sialkot

Reference # CED/TFL **34247** (Dr. Qasim Khan) Dated: 02-12-2019
 Reference of the request letter # NVEC/2019/R.E./PDC/Sialkot/020 Dated: 21-11-2019

Tension Test Report (Page – 1/2)

Date of Test 06-12-2019
 Gauge length 2 inches
 Description MS Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	5	22.00x4.95	108.90	5300	6750	477.44	608.06	0.50	25.00	
2		22.00x4.95	108.90	5400	6750	486.45	608.06	0.60	30.00	
3	16	22.00x16.00	352.00	13600	19400	379.02	540.66	0.80	40.00	
4		22.00x16.00	352.00	13900	19600	387.38	546.24	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from MS Plate 5mm Bend Test Through 180° is Satisfactory										
Strip Taken from MS Plate 16mm Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
New Vision Engineering Consultant
Construction of Product Development Center (PDC) for Composites Based Sports Goods,
Sialkot

Reference # CED/TFL **34247** (Dr. Qasim Khan)
Reference of the request letter # NVEC/2019/R.E./PDC/Sialkot/020

Dated: 02-12-2019
Dated: 21-11-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 06-12-2019
Gauge length -----
Description MS Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(cm)	(cm)	(kg/m ²)	(mm)	
1	5	7564	61.80	30.80	39.74	4.95	
2	16	23000	61.80	30.80	120.83	16.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only Two Samples for Test							

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Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer
NESPAK
Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **34262** (Dr. Waseem Abbass)
Reference of the request letter # 3772/AMP/103/MWA/04/54

Dated: 04-12-2018
Dated: 18-11-2018

Tension Test Report (Page – 1/1)

Date of Test 06-12-2018
Gauge length 2 inches
Description Rivet Bar Tensile Test

Sr. No.	Diameter / size	Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Marks
	(mm)								
1	19.10	286.521	7400	12600	253.36	431.40	0.80	40.00	
2	19.40	295.592	7700	13200	255.54	438.08	0.80	40.00	

Only Two Samples for Tensile Test

Witness by Javaid Masood (M.E. NESPAK)

I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
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To,
M/S RTCC Factory
Lahore

Reference # CED/TFL **34263** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 04-12-2019
Dated: 04-12-2019

Tension Test Report (Page – 1/1)

Date of Test 06-12-2019
Gauge length 2 inches
Description Steel Angle Steel Strip Tensile and Bend 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
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	1 ³ / ₄ x3/16	21.90x4.50	98.55	4900	7000	487.76	696.80	0.20	10.00	
2		21.90x4.50	98.55	4700	6800	467.85	676.89	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One sample for Bend Test										
Bend Test										
Strip Taken from Angle Iron (1 ³ / ₄ "x3/16") Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Operation Manager
 Amer Adnan Associates
 Hotel Building at 24-A Block E /2 at Gulberg III Lahore

Reference # CED/TFL **34265** (Dr. Qasim Khan)
 Reference of the request letter # AAA/24 A/0001

Dated: 04-12-2019
 Dated: 04-12-2019

Tension Test Report (Page -1/1)

Date of Test 06-12-2019
 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	0.377	3	0.376	0.11	0.111	4200	5200	84200	83590	104200	103500	1.00	12.5	
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Note: only one sample for tensile test														
Bend Test														

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To,
M/S A RCO Engineering
Islamabad

Reference # CED/TFL **34267** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 04-12-2019

Dated: 04-12-2019

Tension Test Report (Page – 1/1)

Date of Test 06-12-2019
Description Steel Wire Rope Tensile Test

Sr. No.	Diameter	Measured weight	Breaking Load		Remarks / Coil No.
	(mm)	(kg/km)	(kg)	(kN)	
1	12	491	6300	61.80	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
Only one sample for Test					

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To,
 Project Manager
 Maypole Lime Light (Front Building)

Reference # CED/TFL **34270** (Dr. Qasim Khan)
 Reference of the request letter # MML-15

Dated: 05-12-2019

Dated: 04-12-2019

Tension Test Report (Page -1/1)

Date of Test 06-12-2019
 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	0.375	3	0.374	0.11	0.110	3300	5000	66200	66050	100200	100100	1.30	16.3	
2	0.368	3	0.371	0.11	0.108	3200	4950	64200	65220	99200	100900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Ref: CED/TFL/12/34271

Dated: 05-12-19

Date of Test: 06-12-19

To,
Resident Engineer
REC-LOYA-TECHNIA-Jv
Construction of 4-Lane Bridge Across River Indus Linking Layyah with Taunsa including 2 Lane Approach Roads and Training Works, Package I: Major Bridge on River Indus

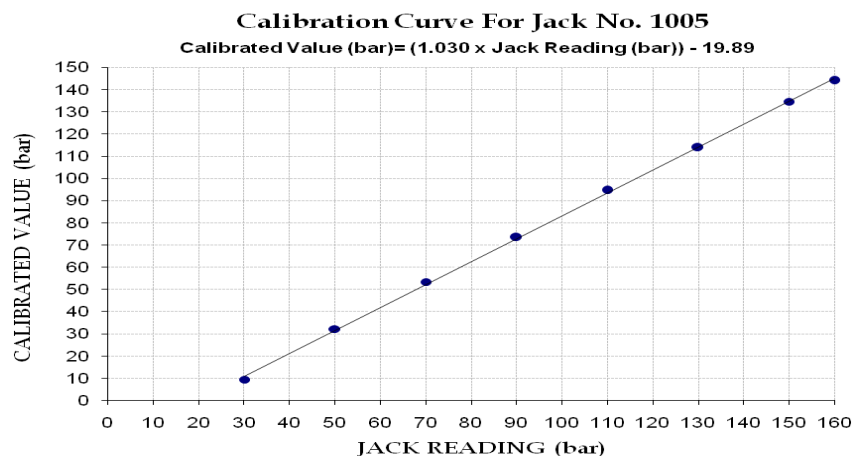
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/34271)(Page # 1/2)**

Reference to your Letter No. REC-LOYA-TECHNIA/Coord/181, Dated: 29/11/2019 on the subject cited above. One Hydraulic Jack No. 1005 with Pressure Gauge No. 1005 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar)
Calibrated Range : Zero - 160 (bar)

Hydraulic Jack Reading (bar)	30	50	70	90	110	130	150	160
Calibrated Load (k g)	12100	41800	69600	95600	123300	148400	175400	187800
Calibrated Pressure (bar)	9.28	32.06	53.38	73.33	94.57	113.82	134.53	144.04

The Ram Area of Jack = 1278.6 cm²



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Ref: CED/TFL/12/34271

Dated: 05-12-19

Date of Test: 06-12-19

To,
Resident Engineer
REC-LOYA-TECHNIA-Jv
Construction of 4-Lane Bridge Across River Indus Linking Layyah with Taunsa including 2 Lane Approach Roads and Training Works, Package I: Major Bridge on River Indus

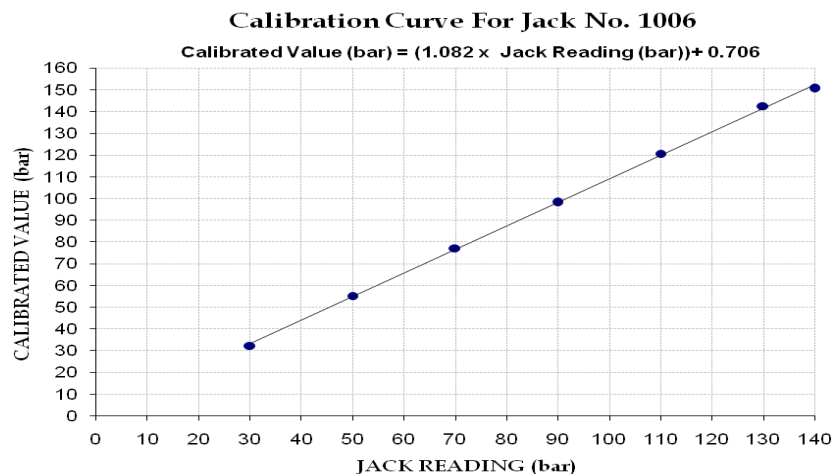
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/34271)(Page # 2/2)**

Reference to your Letter No. REC-LOYA-TECHNIA/Coord/181, Dated: 29/11/2019 on the subject cited above. One Hydraulic Jack No. 1006 with Pressure Gauge No. 1006 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar)
Calibrated Range : Zero - 140 (bar)

Hydraulic Jack Reading (bar)	30	50	70	90	110	130	140
Calibrated Load (k g)	42000	71800	100600	128000	157200	185600	196200
Calibrated Pressure (bar)	32.21	55.07	77.16	98.18	120.57	142.36	150.49

The Ram Area of Jack = 1278.6 cm²



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To,
 CEO
 N.A. Associates
 Pepsi Co International

Reference # CED/TFL **34279** (Dr. Qasim Khan)
 Reference of the request letter # NA-240-Con test-01

Dated: 06-12-2019
 Dated: 05-12-2019

Tension Test Report (Page -1/1)

Date of Test 06-12-2019
 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	0.357	10	9.29	0.12	0.105	3700	4800	67975	77690	88184	100800	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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