

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

To, Resident Engineer NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route HAkla (On M1) – Yark (D.I.

Khan) Motorway, Package-3 (Tarap to Kot Belian)(Ishtiaq Steel Lahore)

Reference # CED/TFL **32921** (Dr.Usman Akmal) Dated: 25-03-2019

Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/864

Dated: 23-03-2019

Tension Test Report (Page – 1/4)

Date of Test 04-04-2019 Gauge length 2 inches

Description Steel Structure Steel Strip Tensile and Bend Test as per ASTM A36

Sr. No.	(mı		(mm) Size of Strip	X Section Area (mm ²)	(kg)	Breaking (5 Load	(MPa)	Ultimate Stress	(ui) Elongation	% Elongation	Remarks
1		20	25.90x19.60	507.64	17800	24900	343.98	481.19	0.80	40.00	
2	Base Plate	20	26.10x19.60	511.56	17700	24800	339.43	475.58	0.70	35.00	
3	Cross	8	26.30x9.70	255.11	7500	12700	288.41	488.37	0.70	35.00	
4	Cross 8 Plate 8		26.30x9.70	255.11	7800	12800	299.94	492.21	0.70	35.00	
5	Stiffener	10	25.20x12.00	302.40	9000	14600	291.96	473.63	0.80	40.00	
6	Plate	10	25.20x12.00	302.40	9000	14600	291.96	473.63	0.80	40.00	
7	Cll	6.00	26.00x4.80	124.80	4100	7100	322.28	558.10	0.60	30.00	
8	Channel	6.00	26.10x4.80	125.28	4000	6800	313.22	532.47	0.50	25.00	
9	Cross	6.3	13.10x6.25	81.88	3200	4800	383.41	575.12	0.45	22.50	
10	Angle	6.30	13.15x6.25	82.19	3200	4900	381.96	584.87	0.60	30.00	
		Only	Ten Samples	for Tensi	le and Fi	ve Samp	les for B	end Test			·
				R	and Tact						

Bend Test

Strip Taken from Base Plate 20mm Bend Test Through 180° is Satisfactory

Strip Taken from Cross Plate 8mm Bend Test Through 180° is Satisfactory

Strip Taken from Stiffener Plate 10mm Bend Test Through 180° is Satisfactory

Strip Taken from Channel 6mm Bend Test Through 180° is Satisfactory

Strip Taken from Cross Angle 6.3mm Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To, Resident Engineer NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route HAkla (On M1) – Yark (D.I. Khan) Motorway, Package-3 (Tarap to Kot Belian)(Ishtiaq Steel Lahore)

Reference # CED/TFL **32921** (Dr.Usman Akmal) Dated: 25-03-2019 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/864 Dated: 23-03-2019

Weight &Size Test Report (Page – 2/4)

Date of Test 04-04-2019

Gauge length -----

Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(mm)	(mm)	(kg/m^2)	(mm)	
1	Base Plate	20	6980	306.5	150.2	151.62	19.80	
2	Cross Plate	8	4153	305.6	177.6	76.52	9.80	
3	Stiffener Plate	10	3935	315.0	110.6	112.95	12.00	
-			-	-	-	-	-	
-			-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
		On	ly Three S	Samples fo	or Test			

I/C Testing Laboratoires UET Lahore, Pakistan.

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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, Resident Engineer NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route HAkla (On M1) – Yark (D.I. Khan) Motorway, Package-3 (Tarap to Kot Belian)(Ishtiaq Steel Lahore)

Reference # CED/TFL **32921** (Dr.Usman Akmal) Dated: 25-03-2019 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/864 Dated: 23-03-2019

Weight &Size Test Report (Page – 3/4)

Date of Test 04-04-2019

Gauge length -----

Description Channel Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	Remark
	(mm)	(g)	(mm)	(kg/m)	mm	mm	mm	mm	
1	6.0	3251	310.50	10.47	125.20	64.90	11.80	4.50	
-	-	-	-	-	-	-		-	
-	•	-	-	-	1	-		-	
-	•	-	-	-	1	-		-	
-	•	-	-	-	1	-		-	
-	•	-	-	-	1	-		-	
-	•	-	-	-	1	-		-	
-	•	-	-	-	1	-		-	
			(Only One S	Sample fo	r Test			

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To, Resident Engineer NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route HAkla (On M1) – Yark (D.I. Khan) Motorway, Package-3 (Tarap to Kot Belian)(Ishtiaq Steel Lahore)

Reference # CED/TFL **32921** (Dr.Usman Akmal) Dated: 25-03-2019 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/864 Dated: 23-03-2019

Weight &Size Test Report (Page – 4/4)

Date of Test 04-04-2019

Gauge length -----

Description Cross Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(mm)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	6.30	1014	297.0	3.41	38.40	39.60	6.30	
-	-	-	-	-				
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
			Only One	e Sample f	for Test			

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

To, Resident Engineer **NESPAK**

China – Pakistan Economic Corridor (CPEC), Western Route HAkla (On M1) – Yark (D.I. Khan) Motorway, Package-3 (Tarap to Kot Belian)(Shalimar Steel Lahore)

Reference # CED/TFL **32922** (Dr. Qasim Khan) Dated: 25-03-2019 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/865 Dated: 23-03-2019

Tension Test Report (Page - 1/2)

Date of Test 04-04-2019 Gauge length 2 inches

Description Base Plate 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		
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)	%			
1	Dana Diata	25.30x19.85	502.21	14200	23900	277.38	466.86	1.00	50.00			
2	Base Plate	25.30x19.90	503.47	14300	24000	278.63	467.63	1.00	50.00			
-		-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-			
-		-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-			
	Only Two Samples for Tensile and One Sample for Bend Test											
				Bend T	l 'est			<u> </u>				

Strip Taken from Base Plate Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires **UET Lahore, Pakistan.**

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

To, Resident Engineer NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route HAkla (On M1) – Yark (D.I. Khan) Motorway, Package-3 (Tarap to Kot Belian)(Ishtiaq Steel Lahore)

Reference # CED/TFL **32922** (Dr. Qasim Khan)

Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/865

Dated: 25-03-2019

Dated: 23-03-2019

Weight &Size Test Report (Page – 2/2)

Date of Test 04-04-2019

Gauge length -----

Description Base Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(mm)	(mm)	(kg/m^2)	(mm)	
1	Base Plate	6980	306.5	150.2	151.62	19.90	
-	-	-	-		-		
-	-	-	-	-	-		
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
		Only One	Sample f	or Test			

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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 Riaz-ud-Din Engineering Lahore

Reference # CED/TFL **32962** (Dr. Qasim Khan)

Reference of the request letter # Nil

Dated: 29-03-2019

Dated: 29-03-2019

Tension Test Report (Page - 1/3)

Date of Test 04-04-2019 Gauge length 2 inches

Description GI Sheet Steel Strip Tensile 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	2	42.10x2.00	84.20	4000	4600	466.03	535.94	0.40	20.00	
2	2	42.10x2.00	84.20	4200	4800	489.33	559.24	0.40	20.00	
		-	-	-	-	-	-	-	-	
-	-	-	ı	1	-	•	1	-	-	
-		-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
	Γ	Γ	Only T	wo Sampl	es for Ten	sile Test			1	
				Bene	d Test					

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

To, M/S Riaz-ud-Din Engineering Lahore

Reference # CED/TFL **32962** (Dr. Qasim Khan)

Reference of the request letter # Nil

Dated: 29-03-2019

Dated: 29-03-2019

Tension Test Report (Page - 2/3)

Date of Test 04-04-2019 Gauge length 2 inches

Description Steel Strip Tensile 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	4	42.30x3.85	162.86	6800	8100	409.62	487.92	0.60	30.00	
2	•	42.30x3.85	162.86	6800	8200	409.62	493.95	0.60	30.00	
3	5	42.30x4.80	203.04	9900	11500	478.32	555.63	0.50	25.00	
4	3	42.30x4.80	203.04	9800	11300	473.49	545.97	0.50	25.00	
5	6	42.30x6.00	253.80	10200	13100	394.26	506.35	0.70	35.00	
6	U	42.30x6.00	253.80	9900	12800	382.66	494.75	0.70	35.00	
		I	Only S	Six Sample	es for Tens	ile Test			1	
				Bene	d Test				1	
				2011						

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

To, M/S Riaz-ud-Din Engineering Lahore

Reference # CED/TFL **32962** (Dr. Qasim Khan)

Reference of the request letter # Nil

Dated: 29-03-2019

Dated: 29-03-2019

Tension Test Report (Page - 3/3)

Date of Test 04-04-2019 Gauge length 2 inches

Description GI Sheet Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	8	42.30x7.90	334.17	13200	16700	387.50	490.25	0.70	35.00	
2	0	42.30x7.90	334.17	13400	16900	393.37	496.12	0.70	35.00	
3	10	42.30x10.00	423.00	16200	23300	375.70	540.36	0.70	35.00	
4	10	42.30x10.00	423.00	17400	24600	403.53	570.51	0.70	35.00	
5	12	42.40x12.10	513.04	18500	28400	353.74	543.05	0.80	40.00	
6	12	42.40x12.10	513.04	19400	29700	370.95	567.90	0.80	40.00	
	Γ		Only S	Six Sample	es for Tens	ile Test			1	
				Done	d Test				<u> </u>	
				Deno	ı rest					

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

To, Executive Engineer/DOT For Project Director/DOT Pakistan Railways, Lahore

Construction of 04 No. Class-III Staff Quarters (BPS-11) on North Side of Quarter No. 137-A-B

at Sahiwal (Mul End) in Connectiopn with Doubling of Track on KWL-RND Section

Reference # CED/TFL **32984** (Dr. Usman Akmal)

Reference of the request letter # 211-W/301-C/DOT/KWL-RND

Dated: 03-04-2019

Dated: 01-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.349	3/8	0.361	0.11	0.103	2800	4500	56200	60160	90200	96700	1.10	13.8	
2	0.346	3/8	0.360	0.11	0.102	2800	4900	56200	60770	98200	106400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-		
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	'est						
3/8	" Dia Ba	ar Bend	Test Th	nrough	180° is \$	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

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LAHOSE V

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 Riaz Construction Company Lahore (TCF High School, Kot Radha Kishan)

Reference # CED/TFL **32985** (Dr. Usman Akmal)

Reference of the request letter # Nil

Dated: 03-04-2019

Dated: 03-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ize		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.382	3	0.378	0.11	0.112	3600	6000	72200	70690	120300	117900	0.80	10.0	
-	•	•	-	1	-	-	-	•	-	-	-	-	1	
-	•	1	-	1	-	-	-	•	-	-	-	-	1	
-	-	-	-	•	-	-	-	-	-	-	-	-	-	
-	•	•	-	•	-	-	-	•	-	-	-	-	-	
-	•	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	ample fo	or tensile	and one	sample fo	or bend t	est	1		
#3	Rar Ren	d Test '	Through	180° is	Satisfa	ctory	Bend T	est						
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To, M/S Ambition Apparel 20-km Ferozepur Road Glaxo Town, Lahore

Reference # CED/TFL **32987** (Dr. Usman Akmal) Dated: 03-04-2019 Reference of the request letter # Nil Dated: 01-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	0.375	3	0.375	0.11	0.110	3100	4700	62200	62010	94200	94100	1.40	17.5	ASI
2	0.372	3	0.373	0.11	0.109	3600	4900	72200	72480	98200	98700	0.90	11.3	KSR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		I	N	ote: on	ly two s	amples f	or tensile	and two	samples	for bend	test	I		
							Bend 7	<u> </u> Γest						

#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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SUCINEERING FLORING STATES

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 Shengli Trading Company DHA, Lahore ((PKM Multan to Sukkur)(CSCEC)

Reference # CED/TFL **32988** (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 03-04-2019

Dated: 03-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length ------

Description Iron Fence Wire Tensile Test

Sr. No.	Weight		neter/ ize	Ar (mi	rea m²)	Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kN)	(kN)	Actual	Actual	4
1	0.075		3.49		9.6		6.2		646	
2	0.076		3.52		9.7		5.97		615	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
			Not	e: only	two san	ples for t	ensile test	t		
					Beno	d Test				

I/C Testing Laboratoires UET Lahore, Pakistan.

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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 Shengli Trading Company DHA, Lahore ((PKM Multan to Sukkur)(CSCEC)

Reference # CED/TFL **32988** (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 03-04-2019

Dated: 03-04-2019

Diameter Test Report (Page – 2/2)

Date of Test 04-04-2019

Gauge length -----

Description Iron Fence Wire Size Test

Sr. No.	Designation	Diameter	Remark				
		(mm)					
1	Iron Fence Wire	3.40					
-	-	-					
-	-	-					
-	-	-					
-	-	-					
-	-	-					
-	-	-					
	Only One Sample for Test						

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Ref: CED/TFL/04/32989 Dated: 03-04-19

To Chief Resident Engineer Osmani & Company Swat Motorway Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/32989) (Page -1/2)

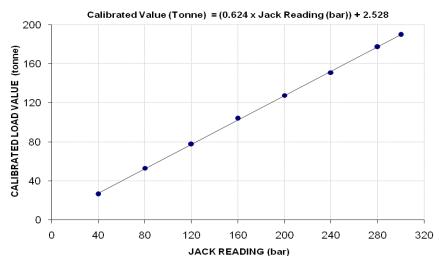
Reference to your Letter No. 277/CRE/QAT/SMP/2019, Dated: 30/03/2019 on the subject cited above. One Hydraulic Jack (Jack No 313, Gauge No. AES-313) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar) Calibrated Range : Zero - 300 (bar)

Hydraulic Jack Rea	40	80	120	160	200	240	280	300	
Callbrate d Land	(Kg)	26400	53000	77600	104000	127800	151200	177400	190000
Calibrated Load	Tonne	26.40	53.00	77.60	104.00	127.80	151.20	177.40	190.00
Calibrated Pressure	43.00	86.33	126.40	169.40	208.16	246.28	288.95	309.48	

1 Tonne = 1000 Kg, The Ram Area of Jack = 602.09 cm^2

Calibration Curve For Jack No. AES 313



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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890

Pakistan, Ph: 92-42-99029202

Ref: CED/TFL/04/32989 Dated: 03-04-19

To **Chief Resident Engineer** Osmani & Company **Swat Motorway Project**

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/32989) (Page -2/2)

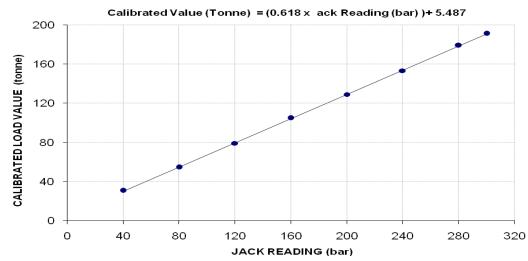
Reference to your Letter No. 277/CRE/QAT/SMP/2019, Dated: 30/03/2019 on the subject cited above. One Hydraulic Jack (Jack No 314, Gauge No. AES-314) as received by us has been calibrated. The results are tabulated as under:

> **Total Range** Zero -1000 (bar) Calibrated Range: Zero -300 (bar)

Hydraulic Jack Rea	40	80	120	160	200	240	280	300	
Callbratadia	(Kg)	30800	54600	79200	105000	129000	153200	179200	191200
Calibrated Load	Tonne	30.80	54.60	79.20	105.00	129.00	153.20	179.20	191.20
Calibrated Pressure	50.17	88.93	129.00	171.03	210.12	249.54	291.89	311.43	

1 Tonne = 1000 Kg, The Ram Area of Jack = 602.09 cm^2

Calibration Curve For Jack No. AES 314



I/C Testing Laboratoires **UET Lahore, Pakistan.**

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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,
General Manager (Projects)
A.S Enterprises
(Style Textile Mills Ltd)(AA Associates)(Afco)

Reference # CED/TFL **32990** (Dr. Usman Akmal)

Reference of the request letter # USD/ASE/01

Dated: 03-04-2019

Dated: 03-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize um)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.421	10	10.08	0.11	0.124	4600	6000	92200	81920	120300	106900	0.90	11.3	
2	0.416	10	10.03	0.11	0.122	5000	6100	100200	90070	122300	109900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
	Bend Test													
10r	nm Dia	Bar Be	nd Test	Throug	h 180° i	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

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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,
General Manager (Projects)
A.S Enterprises
(US Apparel & Textile Mills Ltd)(US & Dynamo(AA Associates)(Afco)

Reference # CED/TFL **32991** (Dr. Usman Akmal) Dated: 03-04-2019 Reference of the request letter # US/ASE/14 Dated: 01-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation % Elongation		Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	Re
1	0.407	10	9.92	0.11	0.120	4200	5500	84200	77320	110200	101300	0.80	10.0	
2	0.401	10	9.84	0.11	0.118	4200	5500	84200	78560	110200	102900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
	Bend Test													
101	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

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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,
Additional Director Development
DHA Phase-XI (Rahbar)
Construction of DHGA Girls School at Block-'B' Sector-I, DHA Phase-XI (Rahbar)

Reference # CED/TFL **32992, 993** (Dr. Usman Akmal) Dated: 03-04-2019 Reference of the request letter # 700/3/Girls School/Ph-XI/Projs/1205 Dated: 03-04-2019

Tension Test Report (Page -1/1)

Date of Test 04-04-2019 Gauge length 8 inches

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

A Elongation Remarks Remarks Rield Stress (isq) (isq) Remarks Remarks									
Nominal Actual Actual (inch) (inch) Re									
62200 63210 96200 97900 1.30 16.3									
62200 62210 97200 97400 1.20 15.0 Solve World State									
le and one sample for bend test									
Bend Test									

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,
Resident Engineer
Al-Imam Enterprises Pvt. Ltd
Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **32994** (Dr. M Rizwan Riaz) Dated: 04-04-2019 Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/827 Dated: 03-04-2019

Weight & Size Test Report (Page – 1/1)

Date of Test 04-04-2019

Gauge length -----

Description G.I Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	25	1403	60.90	2.30	33.7	27.7	3.00	
2	40	2083	60.90	3.42	47.9	41.9	3.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
		C	Only Two	Samples f	for Test			

I/C Testing Laboratoires UET Lahore, Pakistan.

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