

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

To, **Resident Engineer** NESPAK Lahore Knowledge Park

Reference # CED/TFL **34165** (Dr. M Rizwan Riaz) Reference of the request letter # 3957/13/MS/10/234 Dated: 11-11-2019 Dated: 11-11-2019

Tension Test Report (Page - 1/2)

Date of Test Gauge length Description

18-11-2019 2 inches Angle Iron Strip Tensile Test as per ASTM A36

Sr. No.	(mm) Designation	(mm) Size of Strip	X Section Area	(kg)	(fall) Breaking Load	(MPa)	Ultimate Stress	(ui)	% Elongation	Remarks
1		25.40x6.65	168.91	6000	8900	348.47	516.90	0.65	32.50	
2	75x75x6	25.40x6.60	167.64	5700	8700	333.55	509.11	0.70	35.00	
3	75-75-0	25.50x9.60	244.80	9500	13300	380.70	532.98	0.70	35.00	
4	/5x/5x9	25.50x9.70	247.35	9000	12900	356.94	511.62	0.70	35.00	
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		(Only Four	Sample	s for Tens	ile Test			1	
Bend Test										

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

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3-Sealed sample / Unsealed sample / Marked sample/Signed Samples



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Reference # CED/TFL **34165** (Dr. M Rizwan Riaz) Reference of the request letter # 3957/13/MS/10/234 Dated: 11-11-2019 Dated: 11-11-2019

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

Date of Test18-11-2019Gauge length------DescriptionAngle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	75x75x6	7160	99.9	7.17	77.30	75.20	6.75	
2	75x75x9	10799	100.0	10.80	77.70	76.90	9.60	
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-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
		(Only Two	Sample fo	r Test			

To,

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Acting Project Director Air University Multan Campus Construction of Boys Hostel I, Air University Multan Campus (Ittefaq Steel)

Reference # CED/TFL 34185 (Dr. M Rizwan Riaz)	Dated: 14-11-2019
Reference of the request letter # MUX/AUMC/BH1/2019/017	Dated: 07-11-2019

Tension Test Report (Page -1/1)

Date of Test Gauge length Description 18-11-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

r. No.	Weight	Dian Si	neter/ ize	Aı (iı	rea n²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimat (p	Iltimate Stress (psi)		longation	emarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.366	3	0.370	0.11	0.108	2900	4400	58200	59380	88200	90100	1.60	20.0	
2	0.372	3	0.373	0.11	0.109	3000	4500	60200	60520	90200	90800	1.60	20.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		6	N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	T		1
													<u> </u>	
							Bend T	'est						
#3	Bar Ben	d Test '	Through	n 180° i	s Satisfa	actory								

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Ref: <u>CED/TFL/11/34186</u>

Dated: 15-11-19

Dated of Test: 18-11-19

To, Deputy CRE Zeeruk International (Pvt) Ltd Lahore – Sialkot Motorway Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/34186) (Page -1/2)

Reference to your Letter No. LSMP/DCRE/2019/1206, Dated: 15/11/2019 on the subject cited above. One Hydraulic Jack (Jack No 3401, Gauge No. AES-3401) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	700 (bar)
Calibrated Range :	Zero -	320 (bar)

Hydraulic Jack Rea	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	26800	49200	73400	97000	122000	145800	170800	196000
Calibrateu Loau	Tonne	26.80	49.20	73.40	97.00	122.00	145.80	170.80	196.00
Calibrated Pressure	43.65	80.14	119.56	158.00	198.72	237.48	278.20	319.25	

1 Tonne = 1000 Kg, The Ram Area of Jack = 602.09 cm²



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Ref: <u>CED/TFL/11/34186</u>

Dated: 15-11-19

Dated of Test: 18-11-19

To, Deputy CRE Zeeruk International (Pvt) Ltd Lahore – Sialkot Motorway Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/34186) (Page -2/2)

Reference to your Letter No. LSMP/DCRE/2019/1206, Dated: 15/11/2019 on the subject cited above. One Hydraulic Jack (Jack No 3402, Gauge No. AES-3402) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	700 (bar)
Calibrated Range :	Zero -	320 (bar)

Hydraulic Jack Rea	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	23000	47200	71200	95800	120000	145200	168800	193800
Calibrateu Loau	Tonne	23.00	47.20	71.20	95.80	120.00	145.20	168.80	193.80
Calibrated Pressure	37.46	76.88	115.97	156.04	195.46	236.51	274.95	315.67	

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



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To, Resident Engineer NESPAK Construction of Entry Gate of Lahore at Thokatr Niaz Baig Multan Road, Lahore

Reference # CED/TFL 34192 (Dr. M Rizwan Riaz)	Dated: 18-11-2019
Reference of the request letter # 4047-R/13/SNH/07/AHC/119	Dated: 12-11-2019

Tension Test Report (Page -1/1)

Date of Test Gauge length Description 18-11-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

r. No.	Weight	Dian si	neter/ ze	Aı (iı	rea n²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.367	3	0.371	0.11	0.108	3100	4800	62200	63360	96200	98100	1.40	17.5	
2	0.360	3	0.367	0.11	0.106	3100	4800	62200	64550	96200	100000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		
							Bend T	`est						
#3	Bar Ben	d Test	Through	n 180° is	s Satisfa	actory								

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