

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

Ref: <u>CED/TFL/07/3551</u> Dated: <u>03-07-2023</u>

Dated of Test: <u>28-08-2023</u>

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Ali Rehman Punjab RCC Pipe Factory)

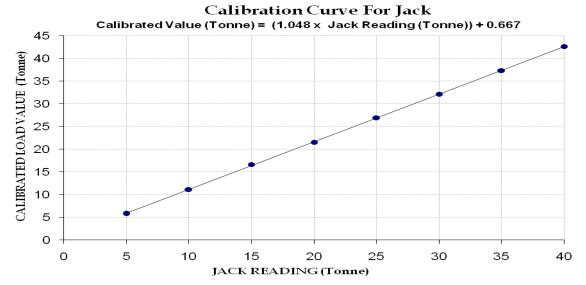
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/07/3551)

Reference to your Letter No. QCD/1135-36, Dated: 15/06/2023 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (Tonne) Calibrated Range : Zero - 40 (Tonne)

Hydraulic Jack Readir (Tonne)	5	10	15	20	25	30	35	40	
Calibrated Load	(kg)	5800	11150	16600	21550	26900	32100	37300	42600
Calibrated Load	(Tonne)	5.80	11.15	16.60	21.55	26.90	32.10	37.30	42.60

1000 kg = 1 Tonne



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/08/3776, 3796 Dated: 22-08-2023

Dated of Test: <u>28-08-2023</u>

To

Resident Engineer

NESPAK

Construction of Flyover / Underpass at Akbar Chowk Lahore.

(Revised: Signal Free Corridor)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3776) (Page -1/2)

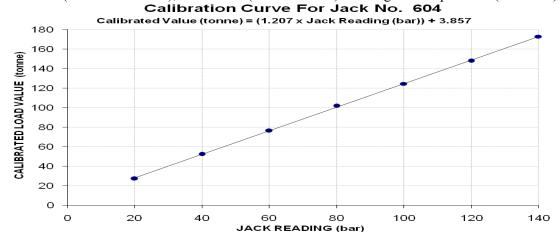
Reference to your Letter No. 3772/103/ACF/SA/188, dated: 19/08/2023 on the subject cited above. One Hydraulic Jack (Jack No. 604, Gauge No. SF-604) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar) Calibrated Range : Zero - 140 (bar)

Hydraulic Jack Ro (bar)	20	40	60	80	100	120	140	
Calibrated Load	(kg)	27200	52400	76400	101800	124400	148000	172800
Cambrated Load	(tonne)	27.20	52.40	76.40	101.80	124.40	148.00	172.80
Calibrated Pressu	22.36	43.07	62.79	83.67	102.25	121.64	142.03	

The Ram Area of Jack = 1193.2 cm^2

Awais Ahmed (A.R.E. NESPAK), M. Saleem (MS NESPAK) and Engr. Ishtiaq Ahmed (ME HCS)



I/C Testing Laboratoires UET Lahore, Pakistan.

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Ref: CED/TFL/08/3776, 3796 Dated: 22-08-2023

Dated of Test: <u>28-08-2023</u>

To

Resident Engineer NESPAK

Construction of Flyover / Underpass at Akbar Chowk Lahore.

(Revised: Signal Free Corridor)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3776) (Page -2/2)

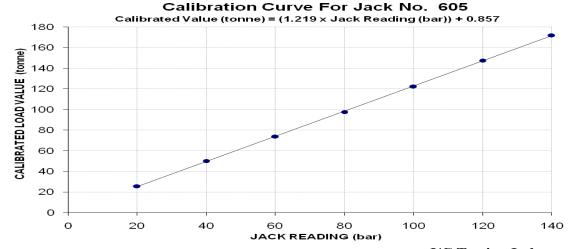
Reference to your Letter No. 3772/103/ACF/SA/188, dated: 19/08/2023 on the subject cited above. One Hydraulic Jack (Jack No. 605, Gauge No. SF-605) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar) Calibrated Range : Zero - 140 (bar)

Hydraulic Jack Ro (bar)	20	40	60	80	100	120	140	
Calibrated Load	(kg)	25600	50000	73800	97600	122400	147600	172000
Cambrated Load	(tonne)	25.60	50.00	73.80	97.60	122.40	147.60	172.00
Calibrated Pressu	21.04	41.10	60.66	80.22	100.60	121.31	141.37	

The Ram Area of Jack = 1193.2 cm^2

Awais Ahmed (A.R.E. NESPAK), M. Saleem (MS NESPAK) and Engr. Ishtiaq Ahmed (ME HCS)



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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

Construction Underpass along Bedian Road at Roundabout near Lahore Ring Road (LRR), Lahore.

Reference # CED/TFL **3783** (Dr. Rizwan Azam)

Dated: 24-08-2023

Reference of the request letter # 3772/103/BU/MHK/04/24

Dated: 22-08-2023

Tension Test Report (Page -1/1)

Date of Test 28-08-2023 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size			Area (in²)		Breaking Load	Yield Stress (psi)			e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	T %	R
1	0.407	3	0.390	0.11	0.120	4100	5400	82200	75570	108200	99600	1.20	15.0	0
2	0.405	3	0.389	0.11	0.119	4000	5400	80200	74000	108200	99900	1.30	16.3	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	She
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	_	-	-	-	
-	-	-	-	-	-	-	_	-	-	_	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								

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,

Senior Manager Projects - Civil Vision Packaging Volka Food International Limited

Reference # CED/TFL <u>3784 (Dr. Rizwan Azam)</u>
Reference of the request letter # VFI/Civil/22

Dated: 24-08-2023

Dated: 23-08-2023

Tension Test Report (Page -1/1)

Date of Test 28-08-2023 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		Area (in²)				Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R		
1	0.399	3/8	0.387	0.11	0.117	4400	5500	88200	82640	110200	103300	0.80	10.0			
2	0.413	3/8	0.393	0.11	0.121	4300	5400	86200	78050	108200	98100	0.90	11.3			
-	-	-	-	-	-	-	-	-	-	_	-	-	-			
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-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	_	-	-	-			
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1				
							Bend T	est								
3/8	" Dia Ba	ır Bend	Test Tl	rough	180° is \$	Satisfacto	ry									

I/C Testing Laboratoires UET Lahore, Pakistan.

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To,

Project Manager / DTL Osmani & Company (Pvt) Ltd. EDCS Project, Pakpattan

Engineering Design & Construction Supervision for Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) Cluster Central II

Reference # CED/TFL <u>3785 (Dr. Rizwan Azam)</u>

Reference of the request letter # PM/OCL/PRSWSSP/EDCS/2023/22

Dated: 24-08-2023

Dated: 23-08-2023

Tension Test Report (Page -1/1)

Date of Test 28-08-2023 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size				Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.365	3	0.369	0.11	0.107	3600	4700	72200	74020	94200	96700	1.20	15.0	
2	0.365	3	0.369	0.11	0.107	3400	4600	68200	69890	92200	94600	1.20	15.0	
-	-	-	-	1	-	ı	-	-	-	-	1	-	-	
-	-	-	-	1	-	ı	-	-	-	-	1	-	-	
-	-	-	-	1	-	ı	-	-	-	-	1	-	-	
-		-	-	-	-	-	-	-	-	-	-	-	-	
		ı	N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							D 17							<u> </u>
112	Dor Don	1 T4 7	P1 1	1000:	. C - 4' - C-	-4	Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

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To,

Principal Architect Z.H. Kazmi & Associates Construction of MC Bank Ltd. Gohadpur Branch Gujranwala Region (0222)

Reference # CED/TFL <u>3802 (Dr. Rizwan Azam)</u>

Reference of the request letter # Nil

Dated: 28-08-2023

Dated: 28-07-2023

Tension Test Report (Page -1/1)

Date of Test 28-08-2023 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load Breaking Load		Yield Stress (psi)		Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.396	3	0.385	0.11	0.117	3200	5300	64200	60530	106200	100300	1.00	12.5	
1	-	1	ı	1	-	1	-	-	-	-	-	-	-	
-		1	ı	ı	-	ı	-	•	-	-	•	-	-	
-	-	1	ı	1	-	1	-	-	-	-	-	-	-	
,		-	1	1	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	1		1
<u> </u>	D D	170 45	F1 1	1000	G 1; C		Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ictory								

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