

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

Ref: CED/TFL/03/4740

Dated: 05-03-2024

Dated of Test: 07-03-2024

То

Resident Engineer NESPAK Construction of Flyover at Shahdara Morr & Consyttruction of Bridge over River Ravi. Lahore.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/03/4740) (Page -1/2)

Reference to your Letter No. 4537/03/MSA/09/207, dated: 05/03/2024 on the subject cited above. One Hydraulic Jack (Jack No. 407, Gauge No. SF-407) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	1000 (bar)
Calibrated Range :	Zero -	260 (bar)

Hydraulic Jack Re (bar)	20	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	18800	49800	79800	108800	140000	169200	185000
Calibrated Load	(tonne)	0	18.80	49.80	79.80	108.80	140.00	169.20	185.00
Calibrated Pressu	0	25.11	66.51	106.57	145.30	186.97	225.96	247.06	

The Ram Area of Jack =  $734.35 \text{ cm}^2$ 





I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

- 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
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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**Resident Engineer** 

NESPAK

Construction of Flyover at Shahdara Morr & Consyttruction of Bridge over River Ravi. Lahore.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/03/4740) (Page -2/2)

Reference to your Letter No. 4537/03/MSA/09/207, dated: 05/03/2024 on the subject cited above. One Hydraulic Jack (Jack No. 408, Gauge No. SF-408) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	1000 (bar)
<b>Calibrated Range :</b>	Zero -	260 (bar)

Hydraulic Jack Re (bar)	20	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	13400	43000	72200	101400	131800	161400	192200
Calibrated Load	(tonne)	0	13.40	43.00	72.20	101.40	131.80	161.40	192.20
Calibrated Pressu	0	17.90	57.43	96.42	135.42	176.01	215.54	256.68	

The Ram Area of Jack =  $734.35 \text{ cm}^2$ 



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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, Pvt. Ltd. Construction of Flyovers at Shadara Morr & Construction of Bridge Over Ravi, Lahore.

Reference # CED/TFL <u>4747 Dr. Ali Ahmad</u>) Reference of the request letter # 4537/03/MSA/09/210 2024 Dated: 07-03-2024 Dated: 06-03-

# Tension Test Report(Page -1/1)Date of Test07-03-2024Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615 (AzizSteel)Steel

r. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield (p	Stress si)	Ultimat (p	e Stress si)	Elongation	longation	emarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	Ro
1	5.122	11	1.385	1.56	1.506	43800	75600	61900	64120	106900	110700	1.10	13.8	H#158
2	5.173	11	1.391	1.56	1.520	44000	76200	62200	63790	107700	110500	1.10	13.8	H#536
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	I	-	-	-	-	-	-	I	-	-	
			No	te: onl	y two sa	amples fo	or tensile	and two	samples	for bend	test	T	1	-
						_	Bend T	est						
#11	Bar Be	nd Test	Throug	gh 180°	is Satis	factory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

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To,

PE HEAD CIVIL KCI

Reference # CED/TFL <u>4758 (Dr. Asad Gillani)</u> Reference of the request letter # LPO(24/395)-122.12/1517.23

Dated: 07-03-2024 Dated: 07-03-2024

<b>Tension Test Rep</b>	<b>Dort</b> (Page -1/1)
Date of Test	07-03-2024
Gauge length	8 inches
Description	Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

ir. No.	Weight	Diameter/ Size		Aı (iı	Area (in <sup>2</sup> )		Breaking Load	Yield (p	Stress si)	Ultimat (p	e Stress si)	Elongation	longation	emarks
	(ll/sdl)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.376	3	0.375	0.11	0.111	3920	5300	78600	78100	106200	105600	1.00	12.5	
2	0.373	3	0.374	0.11	0.110	4040	5320	81000	81200	106600	107000	1.20	15.0	Stee
3	0.377	3	0.376	0.11	0.111	3900	5220	78200	77550	104600	103800	1.00	12.5	FF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		6	No	te: only	y three	samples	for tensil	e and on	e sample	for bend	test	T		1
<u> </u>							Bend T	`est						
#3	Bar Ben	d Test [	Througł	n 180° i	s Satisfa	actory								
W	itness by	v: Sami	Ilyas (H	Iead De	efence &	2 Chinese	Projects)	)						

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