



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

Ref: CED/TFL/07/3103

Dated: 09-07-2020

Dated of Test: 10-07-2020

To
Resident Engineer
NESPAK

Dualization & Improvement of Indus Highway Road Project Package - 01 (Sara Gambila – Karak)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/35103) (Page -1/2)

Reference to your Letter No. 36267/103/TH/01/344, dated: 08/07/2020 on the subject cited above. One Hydraulic Jack (Jack No 254, Gauge No. SF 254) as received by us has been calibrated. The results are tabulated as under:

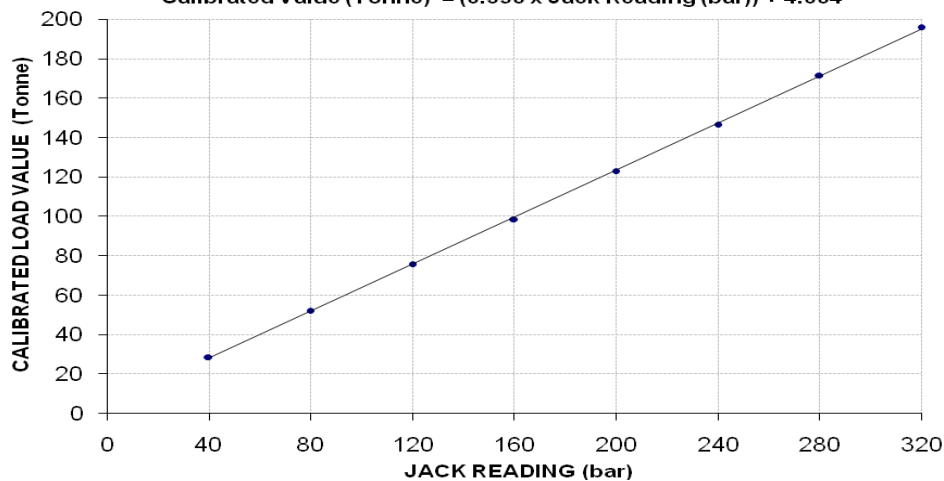
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 320 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	28600	52200	75800	98400	122800	146400	171600	196000
	(Tonne)	28.60	52.20	75.80	98.40	122.80	146.40	171.60	196.00
Calibrated Pressure (bar)	51	94	136	177	221	263	309	353	

The Ram Area of Jack = 545 cm²

Calibration Curve For Jack No. 254

Calibrated Value (Tonne) = (0.596 x Jack Reading (bar)) + 4.064



I/C Testing Laboratories
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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To
Resident Engineer
NESPAK
Dualization & Improvement of Indus Highway Road Project Package - 01 (Sara Gambila – Karak)

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/35103)** (Page -2/2)

Reference to your Letter No. 36267/103/TH/01/344, dated: 08/07/2020 on the subject cited above. One Hydraulic Jack (Jack No 255, Gauge No. SF 255) as received by us has been calibrated. The results are tabulated as under:

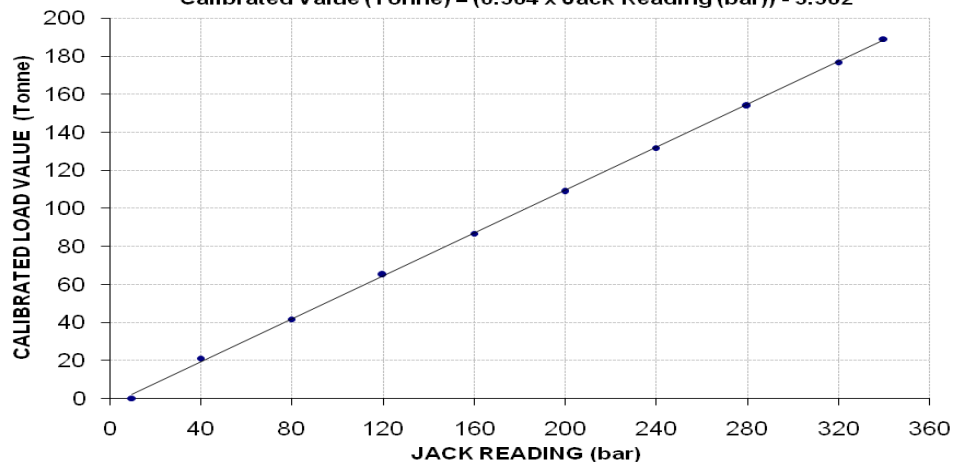
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 340 (bar)

Hydraulic Jack Reading (bar)	10	40	80	120	160	200	240	280	320	340	
Calibrated Load	(kg)	0	21000	41800	65000	86600	108800	131800	153800	176800	189000
	(Tonne)	0	21.00	41.80	65.00	86.60	108.80	131.80	153.80	176.80	189.00
Calibrated Pressure (bar)	0	38	75	117	156	196	237	277	318	340	

The Ram Area of Jack = 545 cm²

Calibration Curve For Jack No. 255

Calibrated Value (Tonne) = (0.564 x Jack Reading (bar)) - 3.562



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To,
 Resident Engineer
 NESPAK
 Establishment of U.E.T Lahore Sub Campus at Narowal (Construction of Boys Hostel (Balance Works))
 Reference # CED/TFL **35107** (Dr. Safer Abbas) Dated: 10-07-2020
 Reference of the request letter # 3863/13/SYA/Labtesting/17 Dated: 09-07-2020

Tension Test Report (Page -1/1)

Date of Test 10-07-2020
 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	0.367	3	0.371	0.11	0.108	3100	4900	62200	63340	98200	100200	1.10	13.8	Mahboob Steel	
2	0.383	3	0.378	0.11	0.112	3200	5100	64200	62710	102200	100000	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															

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Reference # CED/TFL **35109** (Dr. Asad Ali) Dated: 10-07-2020
 Reference of the request letter # 700/3/Girls School/Ph-XI/Projs/ Dated: 06-07-2020

Tension Test Report (Page -1/1)

Date of Test 10-07-2020
 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	0.362	3/8	0.368	0.11	0.106	3790	5200	76000	78570	104200	107800	1.10	13.8	FF Steel
2	0.376	3/8	0.375	0.11	0.111	3920	5370	78600	78150	107600	107100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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