



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
Construction of 8-Lane Overhead Bridge at Imamia Colony Railway Crossing, Shahdara.

Reference # CED/TFL **3807** (Dr. Ali Ahmed)
Reference of the request letter # RE/SA-543/02/MH/49

Dated: 29-08-2023
Dated: 27-07-2023

Weight & Size Test Report (Page – 1/4)

Date of Test 04-09-2023
Description Deformed Steel Bar Deformation / Size Test as per ASTM-A615

Sr. No.	Designation	Weight	Actual Diameter	Average Width of Deformation	Average Height of Deformation	Average Spacing B/W Deformation	Remark
	(#)	(lbs/ft)	inch	(mm)	(mm)	(mm)	
1	10	4.231	1.258	4.59	1.24	15.34	FF Steel
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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



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
Construction of 8-Lane Overhead Bridge at Imamia Colony Railway Crossing, Shahdara.

Reference # CED/TFL **3807** (Dr. Ali Ahmed)
Reference of the request letter # RE/SA-543/02/MH/30

Dated: 29-08-2023
Dated: 22-07-2023

Weight & Size Test Report (Page – 2/4)

Date of Test 04-09-2023
Description Deformed Steel Bar Deformation / Size Test as per ASTM-A615

Sr. No.	Designation	Weight	Actual Diameter	Average Width of Deformation	Average Height of Deformation	Average Spacing B/W Deformation	Remark
	(#)	(lbs/ft)	inch	(mm)	(mm)	(mm)	
1	10	4.232	1.259	4.68	1.55	14.08	Mughal Steel
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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



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
Construction of 8-Lane Overhead Bridge at Imamia Colony Railway Crossing, Shahdara.

Reference # CED/TFL **3807** (Dr. Ali Ahmed)
Reference of the request letter # RE/SA-543/02/MH/39

Dated: 29-08-2023
Dated: 29-07-2023

Weight & Size Test Report (Page – 3/4)

Date of Test 04-09-2023
Description Deformed Steel Bar Deformation / Size Test as per ASTM-A615

Sr. No.	Designation	Weight	Actual Diameter	Average Width of Deformation	Average Height of Deformation	Average Spacing B/W Deformation	Remark
	(#)	(lbs/ft)	inch	(mm)	(mm)	(mm)	
1	10	4.250	1.261	4.61	1.31	14.33	Kanran Steel
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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



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

Construction of 8-Lane Overhead Bridge at Imamia Colony Railway Crossing, Shahdara.

Reference # CED/TFL **3807** (Dr. Ali Ahmed)

Dated: 29-08-2023

Reference of the request letter # RE/SA-543/02/MH/34

Dated: 29-07-2023

Weight & Size Test Report (Page – 4/4)

Date of Test 04-09-2023

Description Deformed Steel Bar Deformation / Size Test as per ASTM-A615

Sr. No.	Designation	Weight	Actual Diameter	Average Width of Deformation	Average Height of Deformation	Average Spacing B/W Deformation	Remark
	(#)	(lbs/ft)	inch	(mm)	(mm)	(mm)	
1	3	0.360	0.367	1.67	0.52	4.18	Mughal Steel
2	10	4.275	1.265	4.98	1.84	13.49.	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only Two Samples for Test							

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



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/08/3812

Dated: 29-08-2023

Dated of Test: 04-09-2023

To

Chief Resident Engineer
NESPAK

Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

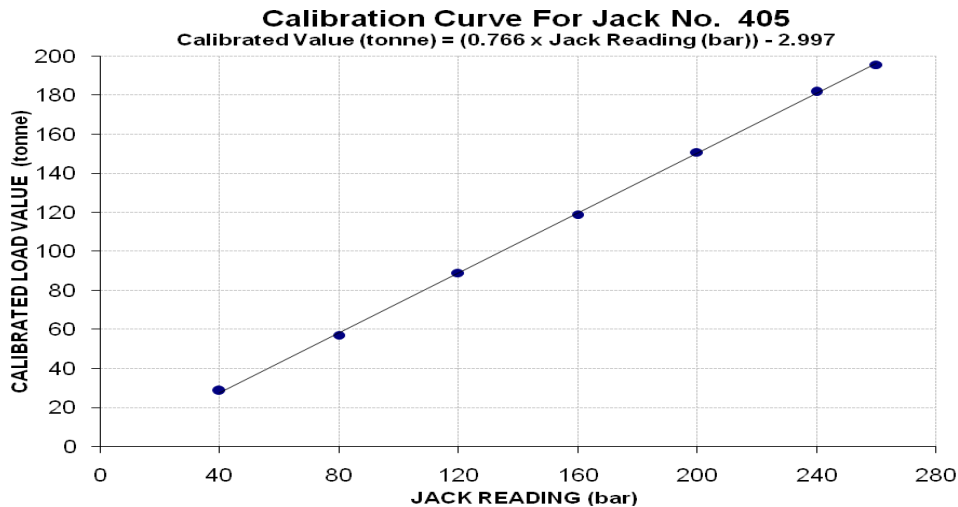
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3812) (Page -1/2)

Reference to your Letter No. 103/EW/GRWML/Lab/19, dated: 23/08/2023 on the subject cited above. One Hydraulic Jack (Jack No. 405, Gauge No. SF-405) 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 Reading (bar)		40	80	120	160	200	240	260
Calibrated Load	(kg)	28600	57200	89000	119000	150800	181800	195600
	(tonne)	28.60	57.20	89.00	119.00	150.80	181.80	195.60
Calibrated Pressure (bar)		38.19	76.39	118.86	158.92	201.39	242.79	261.22

The Ram Area of Jack = 734.35 cm²



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



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/08/3812

Dated: 29-08-2023

Dated of Test: 04-09-2023

To

Chief Resident Engineer
NESPAK

Construction of Dual Carriageway from GT Road (Benzir Chowk) to Lahore - Sialkot Motorway (Wando Interchange) L=1515.20 km, District Gujranwala.

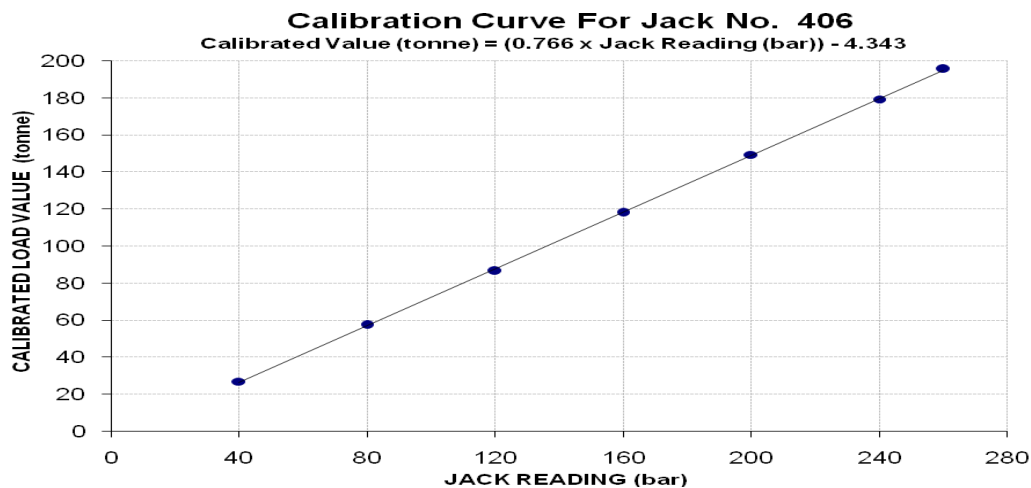
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3812) (Page -2/2)

Reference to your Letter No. 103/EW/GRWML/Lab/19, dated: 23/08/2023 on the subject cited above. One Hydraulic Jack (Jack No. 406, Gauge No. SF-406) 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 Reading (bar)		40	80	120	160	200	240	260
Calibrated Load	(kg)	26800	57400	86600	118000	149400	179400	195600
	(tonne)	26.80	57.40	86.60	118.00	149.40	179.40	195.60
Calibrated Pressure (bar)		35.79	76.66	115.65	157.59	199.52	239.58	261.22

The Ram Area of Jack = 734.35 cm²



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



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/08/3814, 3815

Dated: 29-08-2023

Dated of Test: 04-09-2023

To

Chief Resident Engineer
NESPAK

Construction of Road Connecting Sub-Division Wazir to Banu Corcular Road Banu
Including 2 No. Bridges along with Approaches (5.70 km)

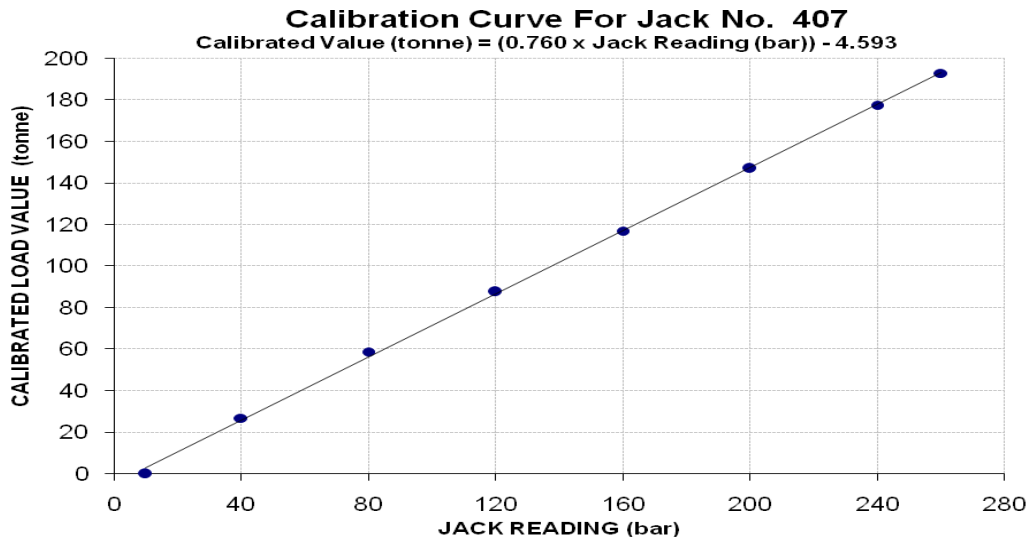
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3814) (Page -1/2)

Reference to your Letter No. 4274/021/SA/297, dated: 28/08/2023 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 Reading (bar)	10	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	26800	58800	87700	117000	147000	177600	192800
	(tonne)	0	26.80	58.80	87.70	117.00	147.00	177.60	192.80
Calibrated Pressure (bar)	0	35.79	78.53	117.12	156.25	196.31	237.18	257.48	

The Ram Area of Jack = 734.35 cm²



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



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/08/3814, 3815

Dated: 29-08-2023

Dated of Test: 04-09-2023

To

Chief Resident Engineer
NESPAK

Construction of Road Connecting Sub-Division Wazir to Banu Corcular Road Banu
Including 2 No. Bridges along with Approaches (5.70 km)

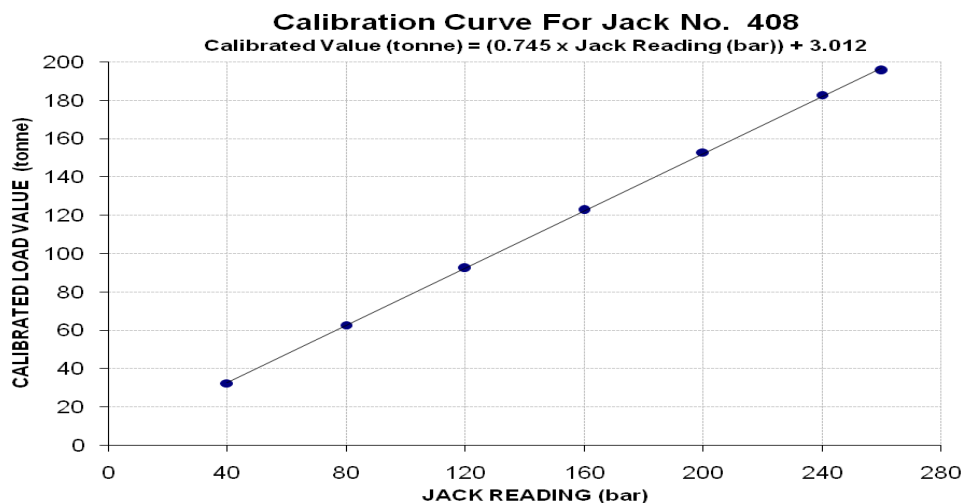
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3814) (Page -2/2)

Reference to your Letter No. 4274/021/SA/297, dated: 28/08/2023 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)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)		40	80	120	160	200	240	260
Calibrated Load	(kg)	32400	62800	92400	122800	152800	182800	195600
	(tonne)	32.40	62.80	92.40	122.80	152.80	182.80	195.60
Calibrated Pressure (bar)		43.27	83.87	123.40	164.00	204.06	244.12	261.22

The Ram Area of Jack = 734.35 cm²



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



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 Civil & Urban Engineers
 Lahore
 (Frieslandcampina Engro Pakistan Limited Sahiwal Planr)

Reference # CED/TFL **3845** (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 04-09-2023
 Dated: 02-09-2023

Tension Test Report (Page -1/1)

Date of Test 04-09-2023
 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	0.374	3	0.374	0.11	0.110	3570	4860	71600	71640	97400	97600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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