

Ref: CED/TFL/10/7621

Dated: 08-10-2025

Dated of Test: 23-10-2025 (Dr. Ali Ahmed)

To

Mr. Azam Nafees (Construction Manager)
Etihad Town Premium Enclave Raiwind Road Lahore

Subject: - TESTING OF MS GULLY GRATING COVER

Reference to your letter no. Nil, Dated: 03/10/2025 on the above mentioned subject. Two MS Gully Grating Manhole Covers as received by us has been tested and results are given below.

Test Standard: Non-standard test performed as per requirement of the Client

Sample 1: Application of load at the center of the sample of the MS Gully Grating through thick plate of 5 Inch diameter.

Sample 2: Application of load at the center of the sample of the MS Gully Grating through thick plate of 9 Inch diameter.

Sr. No.	Description	Total Width	Effective Width	Total Length	Effective Length	Applied Load	Remarks
	MS Gully Grating Manhole Cover	(cm)	(cm)	(cm)	(cm)	(Tons)	
1	Sample 1	39.1	34.4	37.4	34.8	15.0	No breakage & No Crack
2	Sample 2	69.5	66.0	63.5	60.2	15.0	No breakage & No Crack
-	-	-	-	-	-	-	-
Only two samples for test							

Test Performed and Verified by:

Ref: CED/TFL/10/7661

Dated: 20-10-2025

Dated of Test: 23-10-2025 (Dr. Ali Ahmed)

To

Engr. Habib Ullah (Resident Engineer)

NESPAK (Pvt.) Ltd.

Construction of of Flyover at The Junction of GT Road & Islamabad Expressway
Islamabad

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/010/7661) (Page -1/2)

Reference to your Letter No. 4982/103/HU/031, dated: 17/10/2025 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:

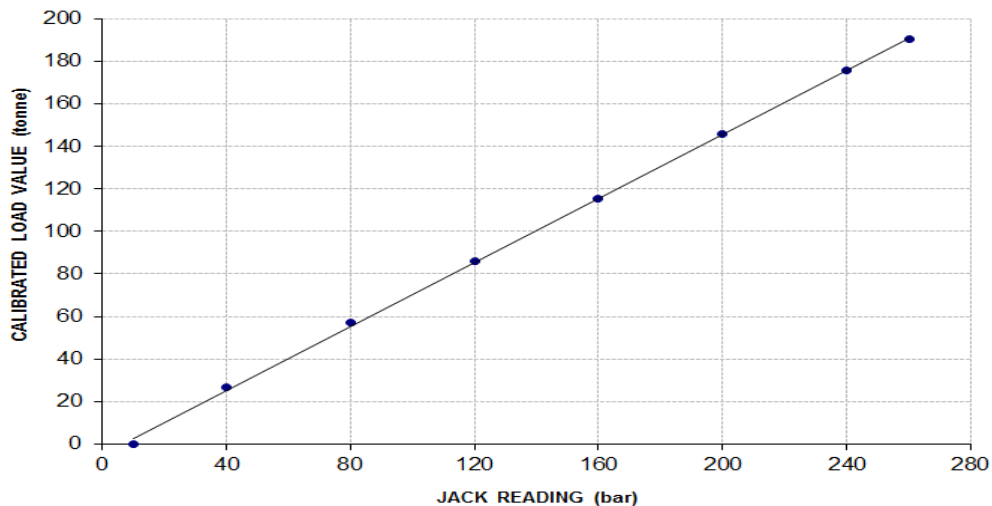
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	10	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	26800	57200	86000	115400	145800	175800	190400
	(tonne)	0	26.80	57.20	86.00	115.40	145.80	175.80	190.40
Calibrated Pressure (bar)	0	35.79	76.39	114.85	154.11	194.71	234.78	254.27	

The Ram Area of Jack = 734.35 cm²

Calibration Curve For Jack No. 407 Gauge No. SF407

Calibrated Value (tonne) = 0.7531 x Jack Reading (bar) - 4.8161



Test Performed and Verified by:

Ref: CED/TFL/10/7661

Dated: 20-10-2025

Dated of Test: 23-10-2025 (Dr. Ali Ahmed)

To

Engr. Habib Ullah (Resident Engineer)
NESPAK (Pvt.) Ltd.
Construction of of Flyover at The Junction of GT Road & Islamabad Expressway
Islamabad

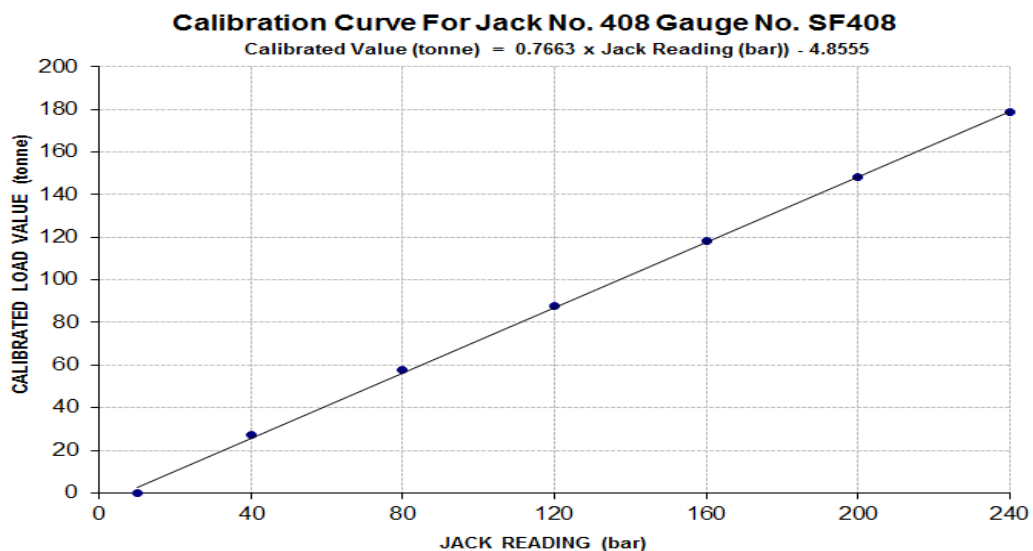
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/010/7661) (Page -2/2)

Reference to your Letter No. 4982/103/HU/031, dated: 17/10/2025 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)	10	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	27400	57800	87800	118200	148000	178600	194000
	(tonne)	0	27.40	57.80	87.80	118.20	148.00	178.60	194.00
Calibrated Pressure (bar)	0	36.59	77.19	117.25	157.85	197.65	238.51	259.08	

The Ram Area of Jack = 734.35 cm²



Test Performed and Verified by:

To,

Mr. Abdul Basset (Material Engineer)
Banu Mukhtar Contracting (Pvt.) Ltd.
Burj-1 by Ajwa Builders

Reference # CED/TFL 7673 (Dr. Ali Ahmad)
Reference of the request letter # DOC-BMC/AJWA/164

Dated: 21-10-2025
Dated: 21-10-2025

Tension Test Report (Page-1/1)

Date of Test 23-10-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.381	3	0.377	0.110	0.1119	3600	4900	72131	70895	98178	96496	1.4	17.5	-
2	0.377	3	0.376	0.110	0.1108	3600	4900	72131	71605	98178	97462	1.5	18.8	-
3	0.378	3	0.376	0.110	0.1109	3600	4900	72131	71513	98178	97338	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 3 Samples for Tensile and 1 Samples for Bend test

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,

M R Builders
Construction of Allied Bank Ltd, Paragon City, Lahore Cantt. (Br. Code 1021)
(Mughal Steel)

Reference # CED/TFL 7674 (Dr. Ali Ahmad)
Reference of the request letter # Nil

Dated: 21-10-2025
Dated: 21-10-2025

Tension Test Report (Page-1/1)

Date of Test 23-10-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.369	3	0.371	0.110	0.1083	3800	4600	76138	77343	92167	93626	1.3	16.3	-
2	0.367	3	0.370	0.110	0.1077	3600	4600	72131	73667	92167	94131	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,

Mr. Liu Zhe (Senior Commercial Manager)
China Machinery Engineering Corporation
Extension of Water Resources Project for Faisalabad City, Phase-II
(FF Steel)

Reference # CED/TFL 7679 (Dr. Ali Ahmad)
Reference of the request letter # CMEC/LAB/25/0053

Dated: 22-10-2025
Dated: 22-10-2025

Tension Test Report (Page-1/1)

Date of Test 23-10-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (mm)	Actual Diameter (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			
1	0.398	10	0.386	0.120	0.117	4000	5400	73467	75370	99180	101749	1.2	15.0	-
2	0.403	10	0.388	0.120	0.1184	4000	5400	73467	74439	99180	100493	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test	
10mm Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,

Engr. M. Bilawal Mehmood (Resident Engineer ECSP)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Development of Model Cattle Market, Jhang

Reference # CED/TFL **7680** (Dr. Ali Ahmed)
Reference of the request letter # ECSP/CMJ/RE/87

Dated: 22-10-2025
Dated: 10-04-2025

Tension Test Report (Page – 1/1)

Date of Test 23-10-2025
Description Bracing Wire Tensile Test

Sr. No.	Nominal Diameter	Weight	Length	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(mm)	(cm)	(kg/m)	(kg)	
1	12	536	99.5	0.54	6700	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for Test						
-	-	-	-	-	-	-

Test Performed and Verified by:

To,

Mr. Farooq Memon (General Manager Engineering)
SUFU City
Construction of Afsheen & Negin Commercial Plaza (4+4 Nos) at Sufi City Hosing Society,
Mandi Bahauddin

Reference # CED/TFL 7681 (Dr. Ali Ahmad)
Reference of the request letter # SUFI/20251022/AFSHEEN-BLD/02

Dated: 23-10-2025
Dated: 22-10-2025

Tension Test Report (Page-1/1)

Date of Test 23-10-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.375	3	0.374	0.110	0.1101	3500	4900	70127	70043	98178	98061	1.7	21.3	-
2	0.375	3	0.374	0.110	0.1101	3400	4900	68124	68089	98178	98128	1.7	21.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

Ref: CED/TFL/10/7621

Dated: 08-10-2025

Dated of Test: 23-10-2025 (Dr. Ali Ahmed)

To

**Mr. Azam Nafees (Construction Manager)
Etihad Town Premium Enclave Raiwind Road Lahore**

Subject: - TESTING OF MS GULLY GRATING COVER

Reference to your letter no. Nil, Dated: 03/10/2025 on the above mentioned subject. Two MS Gully Grating Manhole Covers as received by us has been tested and results are given below.

Sample No. 1 (PTCL (Mark-1))

Width of Sample = 39.1 cm

Length of Sample = 37.4 cm

Proof Load = 18000 Kg

Breaking Load = 19000 Kg

Sample No. 2 (BLT (Mark-13))

Dia of Sample = 81.20 cm

Thickness of Sample = 16.70 cm

Breaking Load = 20400 Kg