Ref: CED/TFL/08/7330 & 7349 Dated: 06-08-2025

Dated: 08-08-2025 (Dr. M. Kashif)

To

Amjad Engineering Services

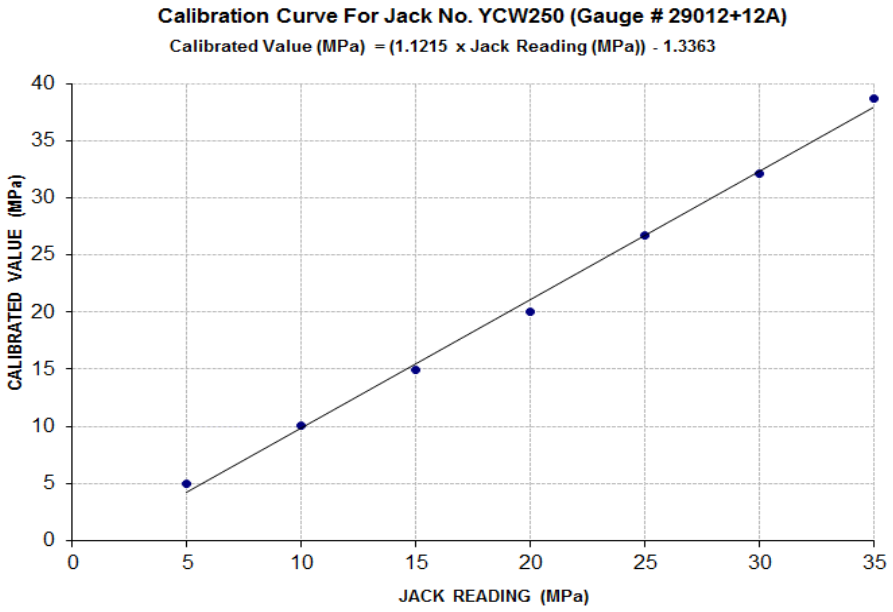
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/7330&7349)** (Page -1/2)

Reference to your Letter No. Nil, dated: 06/08/2025 on the subject cited above. One Hydraulic Jack (Jack No. YCW250, Gauge No. 29012+12A) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 35 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35
Calibrated Load (kg)	23400	47200	70000	94000	125200	150200	181400
Calibrated Pressure (Mpa)	5.00	10.08	14.95	20.08	26.74	32.08	38.74

The Ram Area of Jack = 459.2 cm^2



Test Performed and Verified by:

Ref: CED/TFL/08/7330 & 7349 Dated: 06-08-2025

Dated: 08-08-2025 (Dr. M. Kashif)

To

Amjad Engineering Services

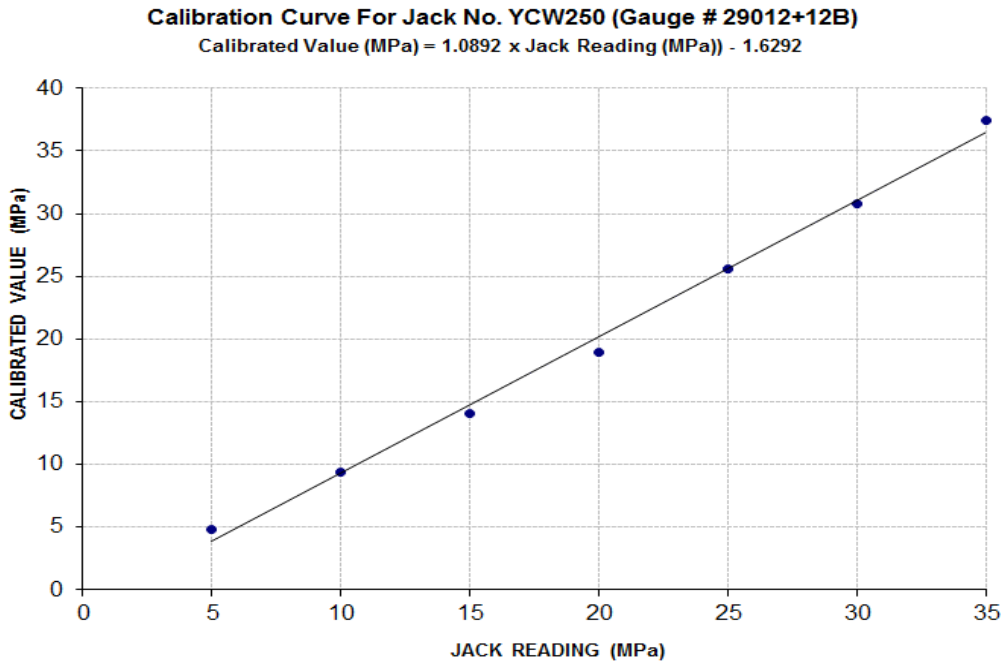
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/7330&7349)** (Page -2/2)

Reference to your Letter No. Nil, dated: 06/08/2025 on the subject cited above. One Hydraulic Jack (Jack No. YCW250, Gauge No. 29012+12B) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 35 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35
Calibrated Load (kg)	22400	43800	66000	88800	119800	144400	175400
Calibrated Pressure (Mpa)	4.78	9.35	14.10	18.96	25.59	30.84	37.46

The Ram Area of Jack = 459.2 cm^2



Test Performed and Verified by:

Ref: CED/TFL/08/7336 Dated: 06-08-2025

Dated of Test: 08-08-2025 (Dr. M. Kashif)

To

Mr. Riaz Ahmed (General Manager)
M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG No. MK-1 No.59 (NTS with Harding)**
(Page # 1/2)

Reference to your Letter No. NTS/DC-Lug59/DC/25-7, dated: 06/08/2025, on the subject cited above. Two Lugs with assembly as received by us have been tested. The results are tabulated as shown below:

Sr. No.	Diameter	Length	Breaking Load	Remarks
	(mm)	(mm)	(kg)	
1	44	66.50	17500	Lug Hook Failure
2	44	66.50	17100	Lug Hook Failure
-	-	-	-	-
Only two samples for test				

Witness by: Muhammad Umar (Examiner Mech., Pakistan Navy)

Test Performed and Verified by:

Ref: CED/TFL/08/7336 Dated: 06-08-2025

Dated of Test: 08-08-2025 (Dr. M. Kashif)

To

Mr. Riaz Ahmed (General Manager)
M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG) No. MK-2 No. 43A (ATR) (NTS with Harding)**
(Page # 2/2)

Reference to your Letter No. NTS/DC-Lug 43A/DC/25-8, dated: 06/08/2025, on the subject cited above. Two Lug with assembly as received by us has been tested. The results are tabulated as shown below:

Sr. No.	Nominal Diameter	Length	Breaking Load	Remarks
	(mm)	(mm)	(kg)	
1	44	59.00	18900	Lug Hook Failure
2	44	59.00	19000	Lug Hook Failure
-	-	-	-	-
Only two samples for test				

Witness by: Muhammad Umar (Examiner Mech., Pakistan Navy)

Test Performed and Verified by:

To,

Mr. Javeed Aslam (Material Engineer)
Banu Mukhtar Contracting (Pvt.) Ltd.
Construction of Hyundai Nishat Extension-Fsd
(Ittehad Steel)

Reference # CED/TFL **7341** (Dr. M Kashif) Dated: 07-08-2025
Reference of the request letter # HNM/BMC/10/2025 Dated: 04-08-2025

Tension Test Report (Page-1/1)

Date of Test 08-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.421**	**10**	**0.397**	**0.120**	**0.124**	**33.70**	**49.00**	**63109**	**61146**	**91760**	**88907**	**1.4**	**17.5**	-
2	**0.422**	**10**	**0.397**	**0.120**	**0.124**	**33.50**	**49.20**	**62734**	**60743**	**92135**	**89211**	**1.5**	**18.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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,

Mr. Khalid Bashir
Ittefaq Building Solution (Pvt.) Ltd.
Colorbug 49-M-1, Kot Lakhpat, Lahore

Reference # CED/TFL **7343** (Dr. M Kashif) Dated: 07-08-2025
Reference of the request letter # IBS/CGB/ST001 Dated: 07-08-2025

Tension Test Report (Page-1/1)

Date of Test 08-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.402**	**3**	**0.388**	**0.110**	**0.118**	**38.20**	**53.50**	**78039**	**72602**	**109295**	**101681**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 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/08/7344 Dated: 07-08-2025

Dated: 08-08-2025 (Dr. M. Kashif)

To

Executive Project Manager
China Civil Engineering Construction Corporation
Pakistan Branch Office
ICB No: DASU KKH-01

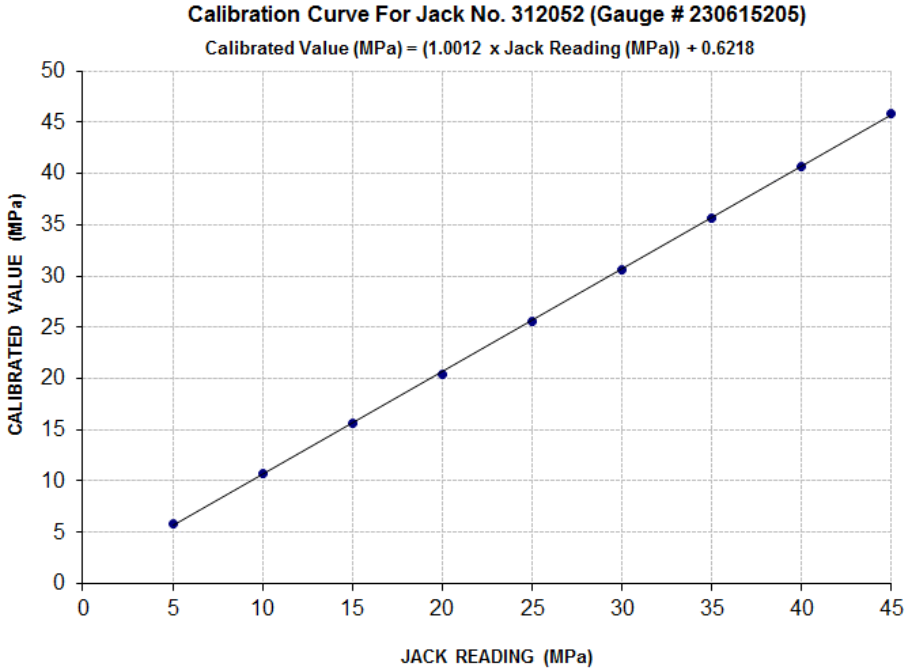
Subject: **- CALIBRATION OF HYDRAULIC JACK (YDC2000/53-200)**
(MARK: TFL/08/7344) (Page -1/1)

Reference to your Letter No. CCECC/PAK/DASUFIELD/KKH-01/25-250, dated: 03/08/2025 on the subject cited above. One Hydraulic Jack (Jack No. 312052, Gauge No. 230615205) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	22200	41200	59800	78600	98400	117400	137000	156400	176000
Calibrated Pressure (Mpa)	5.78	10.72	15.56	20.46	25.61	30.56	35.66	40.71	45.81

The Ram Area of Jack = 376.8 cm^2



Test Performed and Verified by:

To,

Mr. Manzoor Hussain Tahir (Deputy General Manager)
M/s Linker Developers
Construction of Marketing Office, Dream Garden Phase 2 Intern City Housing Scheme, Multan

Reference # CED/TFL **7346** (Dr. M Kashif) Dated: 07-08-2025
Reference of the request letter # Nil Dated: 05-08-2025

Tension Test Report (Page-1/1)

Date of Test 08-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.382**	**3**	**0.378**	**0.110**	**0.112**	**34.80**	**48.70**	**71093**	**69643**	**99489**	**97460**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 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,

Assistant Manager (Civil)
National Grid Company of Pakistan Ltd (NGC)
Reconstruction of Boundary Wall at 220KV Grid Station NGC Samundari Road Faisalabad
(Sheikhoo Steel)

Reference # CED/TFL **7347** (Dr. M Kashif) Dated: 07-08-2025
Reference of the request letter # 211-13 Dated: 31-07-2025

Tension Test Report (Page-1/1)

Date of Test 08-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.414**	**3**	**0.394**	**0.110**	**0.122**	**41.00**	**54.50**	**83759**	**75666**	**111338**	**100581**	**1.3**	**16.3**	-
2	**0.405**	**3**	**0.389**	**0.110**	**0.119**	**41.00**	**54.20**	**83759**	**77416**	**110725**	**102340**	**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,

Assistant Manager (Civil)
National Grid Company of Pakistan Ltd (NGC)
Reconstruction of Boundary Wall at 220KV Grid Station NGC Samundari Road Faisalabad
(Sheikhoo Steel)

Reference # CED/TFL **7347** (Dr. M Kashif) Dated: 07-08-2025
Reference of the request letter # 211-13 Dated: 31-07-2025

Tension Test Report (Page-1/1)

Date of Test 08-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.414**	**3**	**0.394**	**0.110**	**0.122**	**41.00**	**54.50**	**83759**	**75666**	**111338**	**100581**	**1.3**	**16.3**	-
2	**0.405**	**3**	**0.389**	**0.110**	**0.119**	**41.00**	**54.20**	**83759**	**77416**	**110725**	**102340**	**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: