Ref: CED/TFL/10/7652 **Dated: 16-10-2025**
Dated of Test: 20-10-2025 (Dr. M. Kashif)

To,

Mr. Mobashir A. Zia (Chief Executive)
Strong Force (Pvt.) Ltd.
Mount Khalid-04 Tower, Gulberg Green, Islamabad.

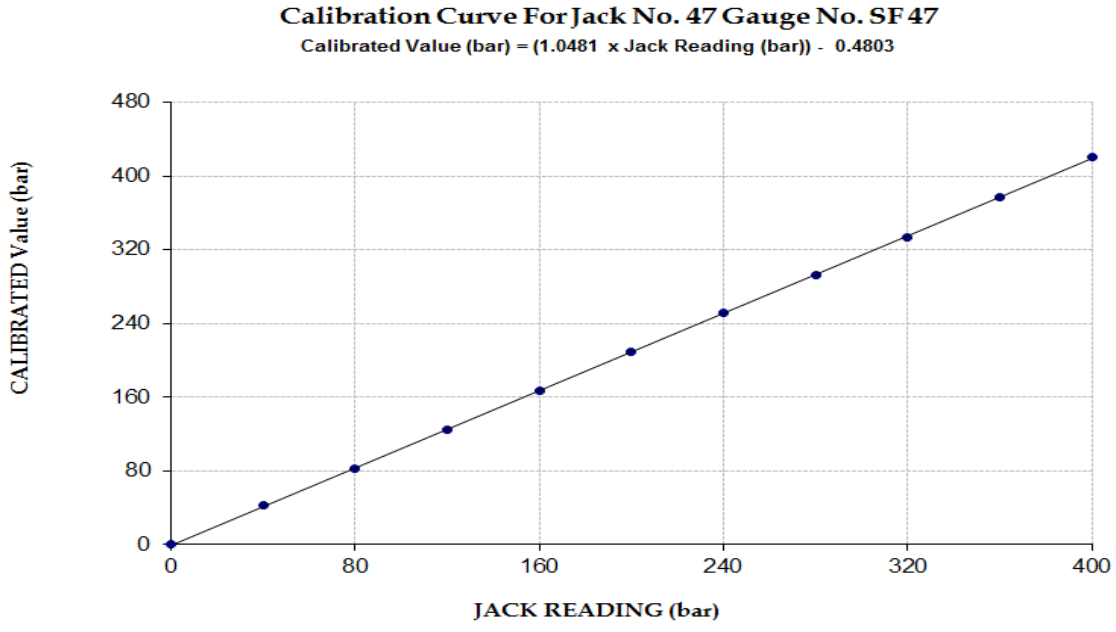
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/7652)** (Page -1/2)

Reference to your Letter No. L2025-10-11781, Dated: 15/10/2025 on the subject cited above. One Hydraulic Jack No. 47 with Gauge No. SF47 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 400 (bar)

Hydraulic Jack Reading (bar)	**0**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**	**400**
Calibrated Load (kg)	**0**	**2200**	**4300**	**6500**	**8700**	**10900**	**13100**	**15200**	**17350**	**19600**	**21900**
Calibrated Pressure (bar)	**0**	**42**	**83**	**125**	**167**	**209**	**252**	**292**	**333**	**377**	**421**

The Ram Area use for Calibration = 51.05 cm^2



Test Performed and Verified by:

Ref: CED/TFL/10/7652 **Dated: 16-10-2025**
Dated of Test: 20-10-2025 (Dr. M. Kashif)

To,

Mr. Mobashir A. Zia (Chief Executive)
Strong Force (Pvt.) Ltd.
Mount Khalid-04 Tower, Gulberg Green, Islamabad.

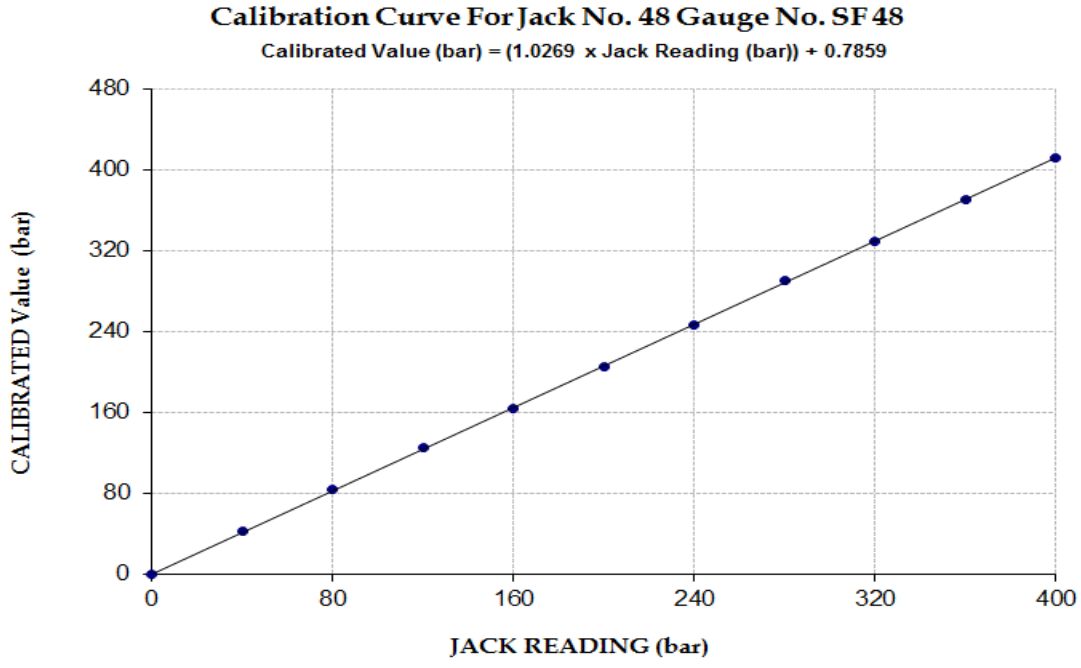
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/7652)** (Page -2/2)

Reference to your Letter No. L2025-10-11781, Dated: 15/10/2025 on the subject cited above. One Hydraulic Jack No. 48 with Gauge No. SF48 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 400 (bar)

Hydraulic Jack Reading (bar)	**0**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**	**400**
Calibrated Load (kg)	**0**	**2250**	**4350**	**6500**	**8500**	**10700**	**12800**	**15100**	**17150**	**19300**	**21450**
Calibrated Pressure (bar)	**0**	**43**	**84**	**125**	**163**	**206**	**246**	**290**	**329**	**371**	**412**

The Ram Area use for Calibration = 51.05 cm^2



Test Performed and Verified by:

To,

Engr. Abdul Hayee (Project Manager)
HS Ideal Town
Construction of HS Ideal Tower Bahria Town Lahore
First Floor Slab (Left Side) P-2

Reference # CED/TFL **7655** (Dr. Rizwan Riaz) Dated: 16-10-2025
Reference of the request letter # HSIT/18 Dated: 16-10-2025

Tension Test Report (Page-1/1)

Date of Test 20-10-2025
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	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**	**41.20**	**56.20**	**84168**	**78345**	**114811**	**106869**	**1.0**	**12.5**	-
2	**0.402**	**3**	**0.388**	**0.110**	**0.118**	**44.70**	**57.20**	**91318**	**85045**	**116854**	**108827**	**1.0**	**12.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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,
Sinaco Engineers (Pvt.) Ltd.
Construction of Storage Area & Shredder Building of Ittehad Chemical Industries
-

Reference # CED/TFL **7640** (Dr. Ali Ahmad) Dated: 15-10-2025
Reference of the request letter # 00527-2025 Dated: 07-10-2025

Tension Test Report (Page-1/1)

Date of Test 16-10-2025
Gauge Length 2 inches
Description MS Plate Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	MS Plate	29.70 x 4.70	139.59	4990	6850	350.7	481.4	0.6	30.0	5mm
2	MS Plate	29.40 x 8.00	235.20	10140	13830	422.9	576.8	0.7	35.0	8mm
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,
Mr. Muhammad Jamil Alam (Head Quality Assurance)
FF Steel Ltd.
12 MW Solar Project Lahore

Reference # CED/TFL **7657** (Dr. Rizwan Riaz) Dated: 16-10-2025
Reference of the request letter # Nil Dated: 16-10-2025

Tension Test Report

Date of Test 20-10-2025
Gauge Length 2 inches
Description Steel Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
7	Section 36x36 (1)	26.10 x 1.80	46.98	1910	2570	398.8	536.6	0.5	25.0	-
8	Section 36x36 (2)	22.10 x 2.00	44.20	1680	2190	372.9	486.1	0.4	20.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,
Engr. Mirza Rizwan Shabbir (Executive Engineer PWD)
PHE Division Kotli
Water Supply Scheme THQ Sehnsa District Kotli

Reference # CED/TFL **7658** (Dr. Rizwan Riaz) Dated: 16-10-2025
Reference of the request letter # 1102-05/XEN/PWD/PHED Dated: 26-06-2025

Tension Test Report

Date of Test 20-10-2025
Gauge Length 2 inches
Description G.I Pipes Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	G.I Pipe	35.10 x 4.50	157.95	5610	6650	348.4	413.0	0.8	40.0	6"
2	G.I Pipe	34.00 x 4.50	153.00	5320	6290	341.1	403.3	1.1	55.0	6"
3	G.I Pipe	33.20 x 4.30	142.76	5220	6170	358.7	424.0	1.1	55.0	6"
4	G.I Pipe	33.20 x 4.30	142.76	5170	6220	355.3	427.4	1	50.0	6"
5	G.I Pipe	33.30 x 4.30	143.19	5170	6240	354.2	427.5	1.1	55.0	6"
6	G.I Pipe	32.90 x 4.30	141.47	5120	6140	355.0	425.8	1	50.0	6"
Note: Only 6 Samples for Tensile and 3 Samples for Bend test										

Bend Test
G.I Pipe Strip Bend Test Through 180 Degree is Satisfactory
G.I Pipe Strip Bend Test Through 180 Degree is Satisfactory
G.I Pipe Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Engr. Mirza Rizwan Shabbir (Executive Engineer PWD)
PHE Division Kotli
Water Supply Scheme THQ Sehnsa District Kotli

Reference # CED/TFL **7658** (Dr. Rizwan Riaz) Dated: 16-10-2025
Reference of the request letter # 1102-05/XEN/PWD/PHED Dated: 26-06-2025

Tension Test Report

Date of Test 20-10-2025
Gauge Length 2 inches
Description G.I Pipes Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
7	G.I Pipe	30.90 x 5.70	176.13	6880	8740	383.2	486.8	1.1	55.0	8"
8	G.I Pipe	30.90 x 5.70	176.13	6880	8660	383.2	482.3	0.7	35.0	8"
9	G.I Pipe	30.70 x 5.70	174.99	7000	8770	392.4	491.6	0.6	30.0	8"
10	G.I Pipe	31.10 x 5.70	177.27	7440	9120	411.7	504.7	0.6	30.0	8"
11	G.I Pipe	33.00 x 5.70	188.10	7610	9500	396.9	495.5	0.9	45.0	8"
12	G.I Pipe	33.00 x 5.70	188.10	7920	9600	413.1	500.7	0.8	40.0	8"
Note: Only 6 Samples for Tensile and 3 Samples for Bend test										

Bend Test
G.I Pipe Strip Bend Test Through 180 Degree is Satisfactory
G.I Pipe Strip Bend Test Through 180 Degree is Satisfactory
G.I Pipe Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Engr. Mirza Rizwan Shabbir (Executive Engineer PWD)
PHE Division Kotli
Water Supply Scheme THQ Sehnsa District Kotli

Reference # CED/TFL **7658** (Dr. Rizwan Riaz) Dated: 16-10-2025
Reference of the request letter # 1102-05/XEN/PWD/PHED Dated: 26-06-2025

Weight &Size Test Report (Page – 3/4)

Date of Test 20-10-2025
Description Unit Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Dia	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	
1	**G.I Pipe 6”**	**1191**	**65.8**	**18.10**	**164.0**	**4.5**	**-**
2	**G.I Pipe 6”**	**1199**	**66.3**	**18.08**	**163.2**	**4.5**	**-**
3	**G.I Pipe 6”**	**1192**	**66.4**	**17.95**	**164.1**	**4.3**	**-**
4	**G.I Pipe 12”**	**2023**	**64.9**	**31.17**	**218.4**	**5.7**	**-**
5	**G.I Pipe 12”**	**2016**	**64.6**	**31.21**	**218.6**	**5.7**	**-**
6	**G.I Pipe 12”**	**1961**	**63.6**	**30.83**	**218.2**	**5.7**	**-**
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Only six samples for test							
-	-	-	-	-	-	-	-

Test Performed and Verified by:

To,
Engr. Mirza Rizwan Shabbir (Executive Engineer PWD)
PHE Division Kotli
Water Supply Scheme THQ Sehnsa District Kotli

Reference # CED/TFL **7658** (Dr. Rizwan Riaz) Dated: 16-10-2025
Reference of the request letter # 1102-05/XEN/PWD/PHED Dated: 26-06-2025

Seamless/Flattening Test Report (Page – 4/4)

Date of Test 20-10-2025
Description Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	G.I Pipe "6"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	G.I Pipe "6"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
3	G.I Pipe "6"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
4	G.I Pipe "8"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
5	G.I Pipe "8"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
6	G.I Pipe "8"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
	Only six samples for test		

Test Performed and Verified by:

To,

Director
The Oasis Golf & Aqua Resort (Pvt.) Ltd.
(Witness by: Mr. Nabeel, Accounts Executive Oasis Packing)

Reference # CED/TFL **7659** (Dr. Asif Hameed) Dated: 20-10-2025
Reference of the request letter # HO/25/8183 Dated: 20-10-2025

Tension Test Report (Page-1/1)

Date of Test 20-10-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3	0.377	0.110	0.1117	39.70	49.70	81103	79883	101532	100005	1.0	12.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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: