



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 ANN Global Private Limited
Lahore
(Manufacturing of PCC Poles at Sahiwal Pole Plant.)

Reference # CED/TFL **3439** (Dr. M Rizwan Riaz)
Reference of the request letter # ANN/WT/UET/2023-10

Dated: 12-06-2023
Dated: 12-06-2023

Tension Test Report (Page – 1/1)

Date of Test 14-06-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	441.0	10000	98.10	10600	103.99	>3.50	xx
2	11.11 (7/16")	582.0	594.0	12800	125.57	14300	140.28	>3.50	xx
3	12.70 (1/2")	775.0	787.0	17700	173.64	19200	188.35	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only three samples for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

M/S Namco Associates (Pvt) Ltd
Lahore
(Manufacturing of PCC Poles at Jahanian Pole Plant.)

Reference # CED/TFL **3440** (Dr. M Rizwan Riaz)
Reference of the request letter # NAMCO/WT/UET/2023-06

Dated: 12-06-2023
Dated: 12-06-2023

Tension Test Report (Page – 1/1)

Date of Test 14-06-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	437	10000	98.10	11000	107.91	>3.50	xx
2	11.11 (7/16")	582.0	592	13500	132.44	14700	144.21	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only two samples for Test									

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Ref: CED/TFL/05/3442

Dated: 12-06-2023

Dated of Test: 14-06-2023

To

Resident Engineer
NESPAK

Construction of Bypass from Royal Hostel (N-5) to Sarwar Chowk via Ada Mai Wali Masjid, Length = 13.70 km. (Phase-II) Dection from Kachi Pakki Road to N-5 (Royal Hotel) Length 3.93 km Including Construction of Flyover Bridge over Railway Track, LBDC and N-5 in District Sahiwal.

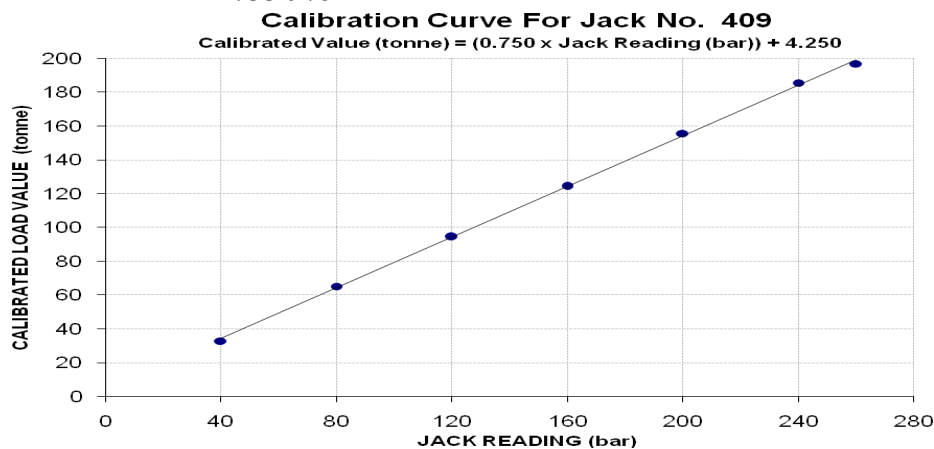
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/3274) (Page -1/2)

Reference to your Letter No. 4267/Sahiwal/ADP/Flyover/JQ/67, dated: 10/06/2023 on the subject cited above. One Hydraulic Jack (Jack No. 409, Gauge No. SF-409) 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)	32800	65200	94500	124400	155600	185600	196800
	(tonne)	32.80	65.20	94.50	124.40	155.60	185.60	196.80
Calibrated Pressure (bar)	43.83	87.12	126.27	166.22	207.90	247.99	262.95	

The Ram Area of Jack = 733.975 cm²



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Ref: CED/TFL/05/3442

Dated: 12-06-2023

Dated of Test: 14-06-2023

To

Resident Engineer
NESPAK

Construction of Bypass from Royal Hostel (N-5) to Sarwar Chowk via Ada Mai Wali Masjid, Length = 13.70 km. (Phase-II) Dection from Kachi Pakki Road to N-5 (Royal Hotel) Length 3.93 km Including Construction of Flyover Bridge over Railway Track, LBDC and N-5 in District Sahiwal.

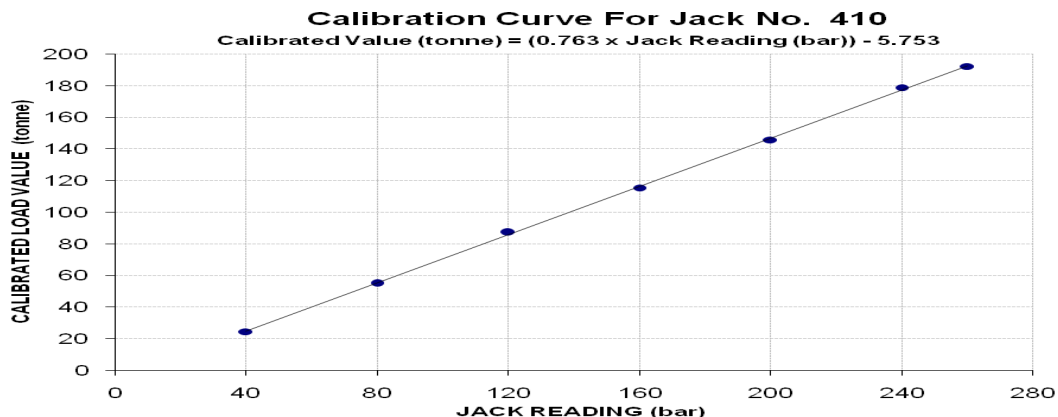
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/3274) (Page -2/2)

Reference to your Letter No. 4267/Sahiwal/ADP/Flyover/JQ/67, dated: 10/06/2023 on the subject cited above. One Hydraulic Jack (Jack No. 410, Gauge No. SF-410) 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)	24600	55000	87400	115600	145800	178800	192250
	(tonne)	24.60	55.00	87.40	115.60	145.80	178.80	192.25
Calibrated Pressure (bar)	32.87	73.49	116.78	154.46	194.81	238.90	256.87	

The Ram Area of Jack = 733.975 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
Project Manager
Imperium Developers
Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL **3450** (Dr. Nauman Khurram)
Reference of the request letter # IMP/66/04/76

Dated: 13-06-2023
Dated: 13-06-2023

Tension Test Report (Page -1/1)

Date of Test 14-06-2023
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	0.370	3	0.372	0.11	0.109	3980	5050	79800	80670	101200	102400	1.00	12.5	
2	0.363	3	0.369	0.11	0.107	3670	4740	73600	75820	95000	98000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Husnain (Site Engr. Imperium Developers)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/06/3455

Dated: 13-06-2023

Dated: 14-06-2023

To

M/S China Gezhouba Group Company Limited
Pakistan

Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures.

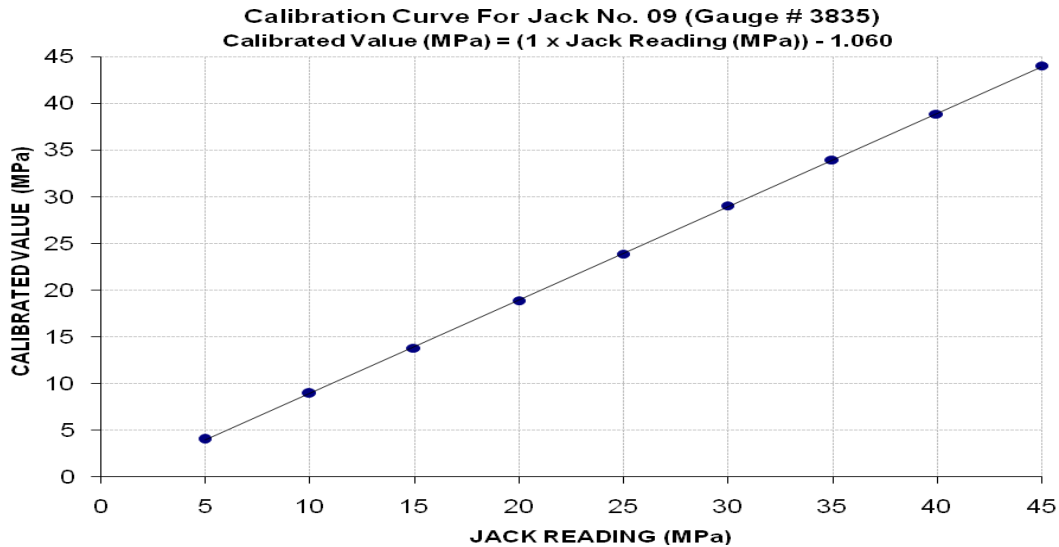
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/2717) (Page -1/4)

Reference to your Letter No. MDSYS-226, dated: 13/06/2023 on the subject cited above.
One Hydraulic Jack (Jack No. HJ-09, Gauge No. 3835) 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)	12300	27200	42000	57400	72600	88200	103200	118000	133800
Calibrated Pressure (Mpa)	4.05	8.95	13.82	18.89	23.89	29.03	33.96	38.83	44.03

The Ram Area of Jack = 298 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/06/3455

Dated: 13-06-2023

Dated: 14-06-2023

To

M/S China Gezhouba Group Company Limited
Pakistan

Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures.

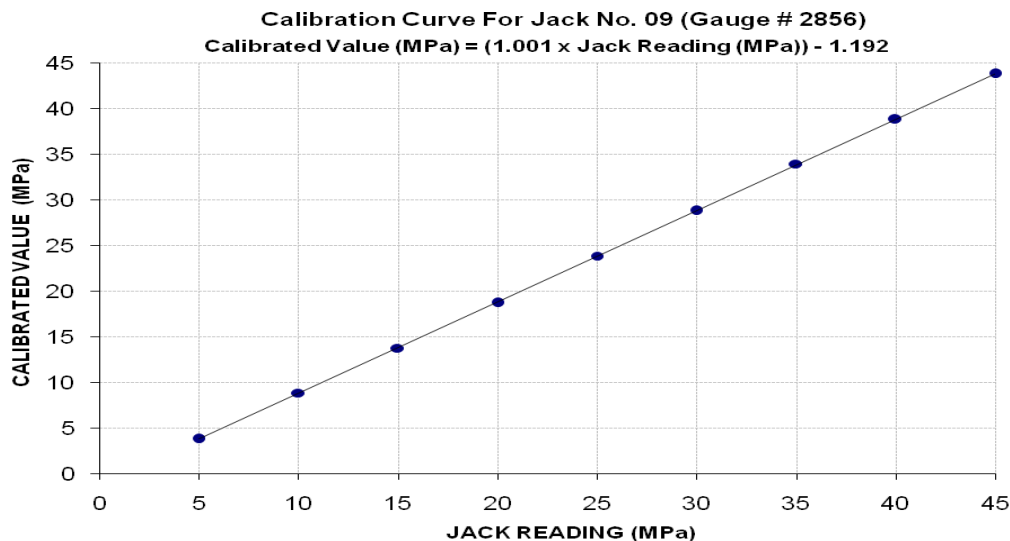
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/2717) (Page -2/4)

Reference to your Letter No. MDSYS-226, dated: 13/06/2023 on the subject cited above.
One Hydraulic Jack (Jack No. HJ-09, Gauge No. 2856) 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)	11600	27000	41800	57000	72600	87600	103200	118000	133200
Calibrated Pressure (Mpa)	3.82	8.89	13.76	18.76	23.89	28.83	33.96	38.83	43.84

The Ram Area of Jack = 298 cm²



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Ref: CED/TFL/06/3455

Dated: 13-06-2023

Dated: 14-06-2023

To

M/S China Gezhouba Group Company Limited
Pakistan

Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures.

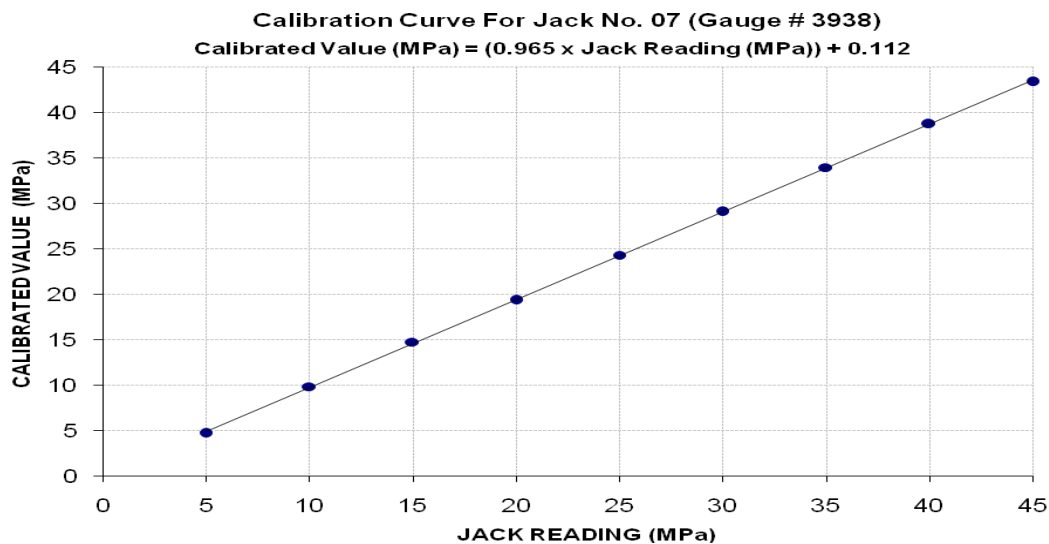
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/2717) (Page -3/4)

Reference to your Letter No. MDSYS-226, dated: 13/06/2023 on the subject cited above.
One Hydraulic Jack (Jack No. HJ-07, Gauge No. 3938) 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)	9300	19400	29100	38200	48000	57400	67000	76400	85600
Calibrated Pressure (Mpa)	4.72	9.84	14.76	19.37	24.34	29.11	33.97	38.74	43.41

The Ram Area of Jack = 193.4 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/06/3455

Dated: 13-06-2023

Dated: 14-06-2023

To

M/S China Gezhouba Group Company Limited
Pakistan

Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical and
Mechanical Works and Hydraulic Steel Structures.

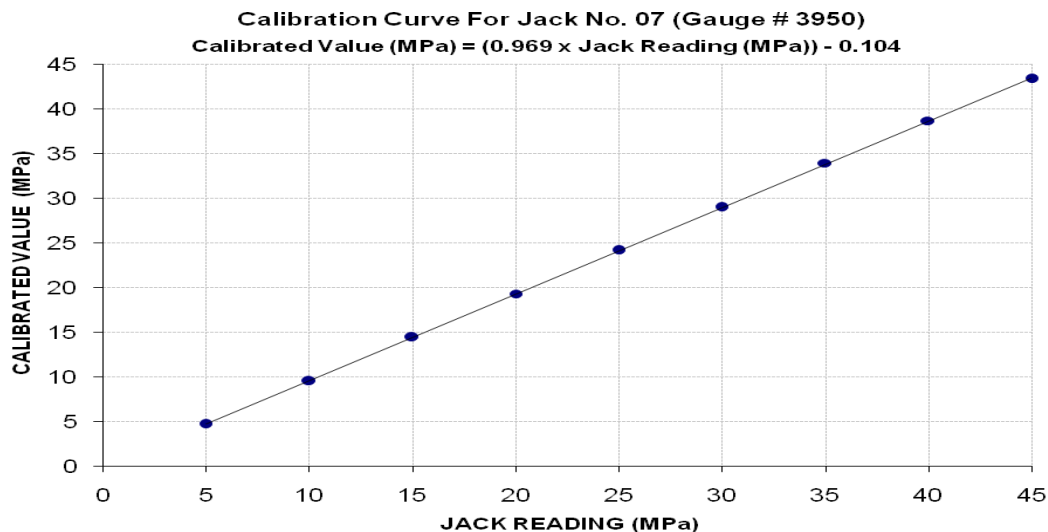
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/2717) (Page -4/4)

Reference to your Letter No. MDSYS-226, dated: 13/06/2023 on the subject cited above.
One Hydraulic Jack (Jack No. HJ-07, Gauge No. 3950) 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)	9300	18800	28500	38100	47700	57200	67000	76300	85600
Calibrated Pressure (Mpa)	4.72	9.53	14.45	19.32	24.19	29.01	33.97	38.69	43.41

The Ram Area of Jack = 193.4 cm²



I/C Testing Laboratoires
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To,

AGM Projects
Izhar Construction (Pvt) Ltd
Construction of Dolmen Shopping Mall DHA Lahore

Reference # CED/TFL **3457** (Dr. Ali Ahmed)

Dated: 14-06-2023

Reference of the request letter # ICPL/CONST-DML/21/388

Dated: 13-06-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.414	10	10.00	0.12	0.122	4100	5600	75324	74190	102881	101400	1.10	13.8	Sheikhoo Steel	
2	0.418	10	10.04	0.12	0.123	4200	5700	77161	75430	104719	102400	1.20	15.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample for bend test															
Bend Test															
10mm Dia Bar Bend Test Through 180° is Satisfactory															

I/C Testing Laboratoires
UET Lahore, Pakistan.

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