



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Material Engineer
Associates Consultancy Centre Pvt. Ltd.
Toll Plaza Canopy for kot Pindi Dass Interchange Motorway (M-2) Sheikhpura.

Reference # CED/TFL **6190** (Dr. M Kashif)
Reference of the request letter # ME/ACC/NHA/11

Dated: 19-12-2024
Dated: 19-12-2024

Tension Test Report (Page – 1/1)

Date of Test 24-12-2024
Gauge length 2 inches
Description MS Steel Sheet Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Steel Sheet	24.80x20.30	503.44	162.50	229.20	323	455	0.85	42.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one Sample for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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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/12/6208

Dated: 20-12-2024

Dated of Test: 24-12-2024

To

Resident Engineer

NESPAK

**PCC / Drainage Scheme / Sewerage Scheme UC No. 254, DEO Khurd / Kalan,
Lahore.**

Subject: **TESTING OF R.C.C. PIPE As per ASTM C-76**

Reference to your letter No. 3772/103/SA/ADP/ Deo Khurd Kalan/21,
dated 16.12.2024 on the subject cited above. One R.C.C. Pipe as received by us has been
tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.78	7.38	23.20	18.54	2.33	9500	12000	1838	2322

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/6210

Dated: 23-12-2024

Dated of Test: 24-12-2024

To

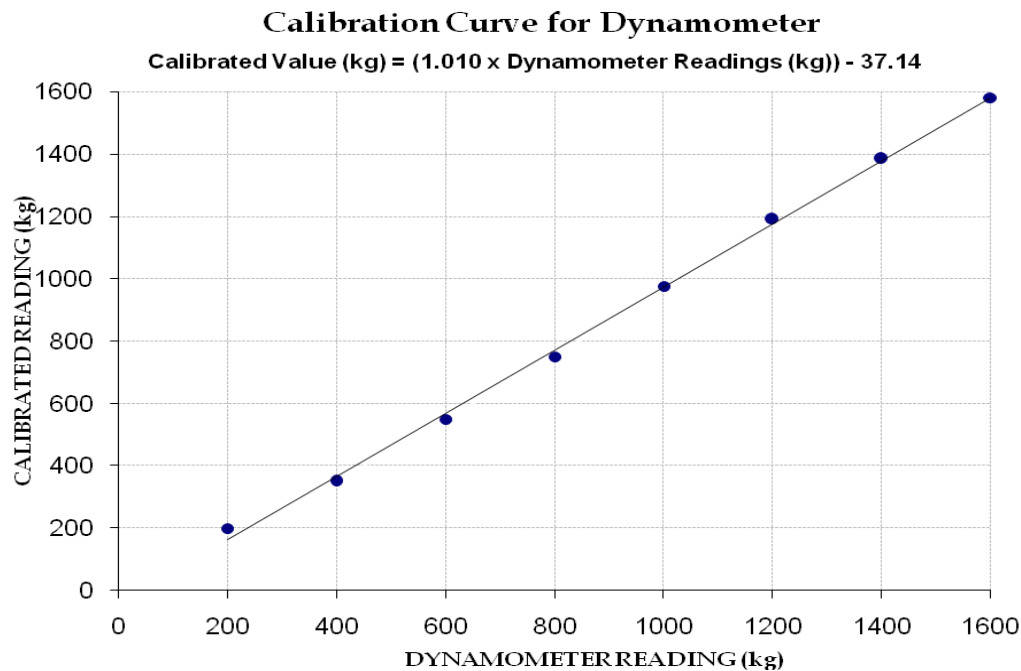
M/S Farooq Khan & Brothers (Pvt) Ltd.
Sibbi

Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/12/6210) (Page -1/1)

Ref: Your letter No. Dy 2000, dated: 23/12/2024 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 2000 (kg)
Calibrated Range : Zero - 1600 (kg)

Dynamometer Readings (kg)	200	400	600	800	1000	1200	1400	1600
Calibrated Readings (kg)	200	350	550	750	975	1190	1385	1580



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To

General Manager Factory
Procon Engineering (Pvt) Ltd.
Master Procon Factory Lahore.

Reference # CED/TFL **6211** (Dr. M Kashif)
Reference of the request letter # PEMH05-006

Dated: 23-12-2024
Dated: 13-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3640	4350	73000	73550	87200	87900	1.40	17.5	
2	0.369	3	0.372	0.11	0.109	3620	4280	72600	73540	85800	87000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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:

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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 – TurkPak JV
Reconstruction of Lady Willingdon Hospital, Lahore.

Reference # CED/TFL **6212** (Dr. M Rizwan Riaz)
Reference of the request letter # 4729/13/MA/04/156

Dated: 23-12-2024
Dated: 20-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	3	0.372	0.11	0.109	3400	5000	68200	68870	100200	101300	1.30	16.3	AF Steel
2	0.372	3	0.373	0.11	0.109	3400	5000	68200	68480	100200	100700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To

Resident Engineer
Indus Associate Consultant – Cameos – New Vision (Jv)
Dualization of Kuchlak -Zhob Section of N-50 Khanozai - Kuchlak

Reference # CED/TFL **6213** (Dr. M Rizwan Riaz)

Dated: 23-12-2024

Reference of the request letter # RE/Pkg-V/N-50/IAC/2024/-778

Dated: 17-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.353	32	32.42	1.25	1.279	37000	60200	65256	63740	106174	103700	1.40	17.5	
2	4.410	32	32.63	1.25	1.296	40000	55400	70547	68020	97708	94200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To

Assistant Resident Engineer
MM Pakistan (Pvt) Ltd.
Construction of Kala Gujran Park in Jhelum City.

Reference # CED/TFL **6214** (Dr. M Kashif)
Reference of the request letter # ARE/JHE-KGP/MC-13

Dated: 23-12-2024
Dated: 04-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.365	3	0.370	0.11	0.107	3030	4540	60800	62180	91000	93200	1.40	17.5	
2	0.363	3	0.369	0.11	0.107	2980	4540	59800	61520	91000	93800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
AAA Partnership Pvt. Ltd.
JDW Tower Lahore.

Reference # CED/TFL **6218** (Dr. M K Ashif)

Dated: 23-12-2024

Reference of the request letter # AAA/SO/AF 110/2024/110/2024

Dated: 23-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.108	3470	4760	69600	71110	95400	97600	1.60	20.0	
2	0.360	3	0.367	0.11	0.106	3330	4610	66800	69390	92400	96100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Ehtisham Ul Haq (Site Supervisor AAA)

I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/12/6219

Dated: 23-12-2024

Dated of Test: 24-12-2024

To

Laboratory Manager
China Gezhouba Group Company Limited
300 MW Balakot Hydro Power Project.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/6219) (Page -1/4)

Reference to your Letter No. Nil, dated: 23/12/2024 on the subject cited above.
One Hydraulic Jack (Jack No. BHPP 300, Gauge No. 2653) as received by us has been calibrated. The results are tabulated as under:

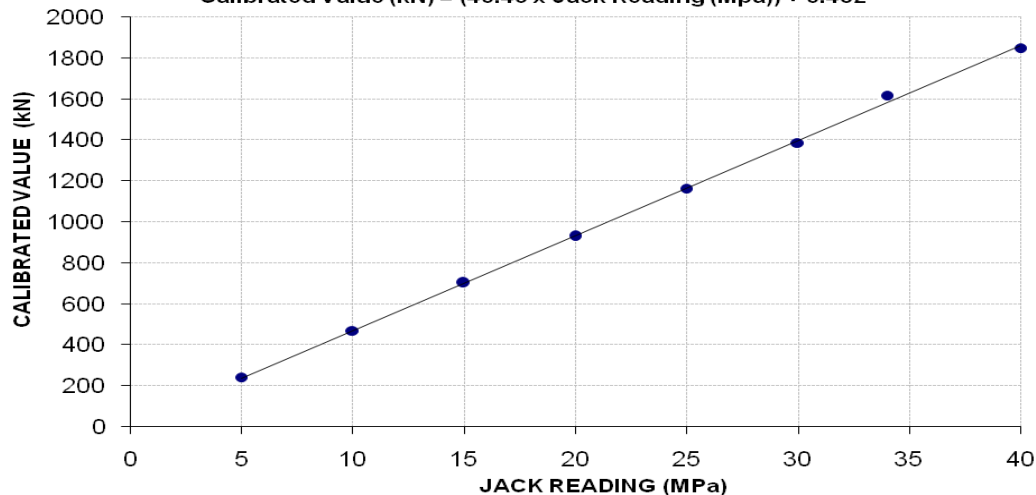
Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40
Calibrated Load	(kg)	24800	47800	71600	94800	118600	141400	165000	188600
	(kN)	243	469	702	930	1163	1387	1619	1850
Calibrated Pressure (Mpa)		5.3	10.2	15.3	20.3	25.3	30.2	35.3	40.3

The Ram Area of Jack = 459 cm²

Calibration Curve For Jack No. BHPP 300 (Gauge # 2653)

Calibrated Value (kN) = (46.43 × Jack Reading (Mpa)) + 6.482



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/6219

Dated: 23-12-2024

Dated of Test: 24-12-2024

To

Laboratory Manager
China Gezhouba Group Company Limited
300 MW BALakot Hydro Power Project.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/6219) (Page -2/4)

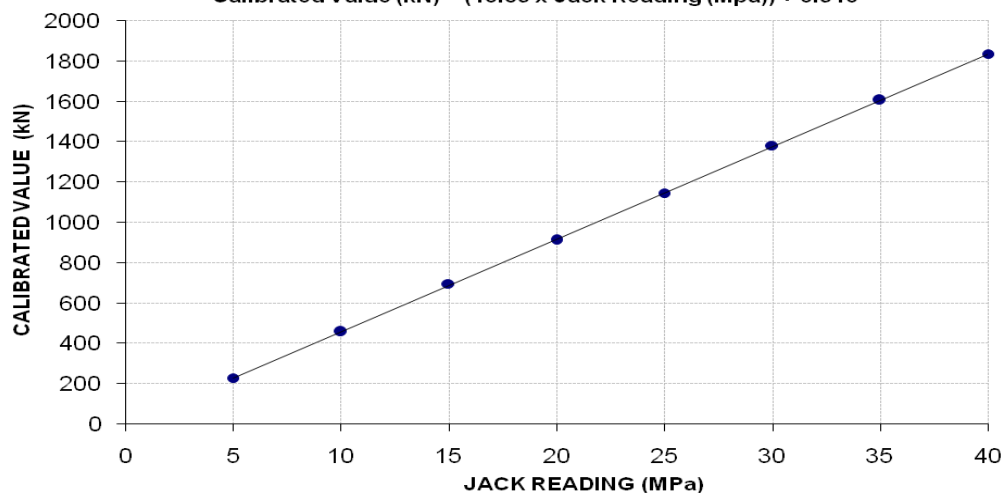
Reference to your Letter No. Nil, dated: 23/12/2024 on the subject cited above.
One Hydraulic Jack (Jack No. BHPP 300, Gauge No. 2354) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40
Calibrated Load	(kg)	23400	46800	71000	93000	116800	140800	163800	187200
	(kN)	230	459	697	912	1146	1381	1607	1836
Calibrated Pressure (Mpa)		5.0	10.0	15.2	19.9	25.0	30.1	35.0	40.0

The Ram Area of Jack = 459 cm²

Calibration Curve For Jack No. BHPP 300 (Gauge # 2354)
Calibrated Value (kN) = (45.89 x Jack Reading (Mpa)) + 0.910



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/6219

Dated: 23-12-2024

Dated of Test: 24-12-2024

To

Laboratory Manager
China Gezhouba Group Company Limited
300 MW BALakot Hydro Power Project.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/6219) (Page -3/4)

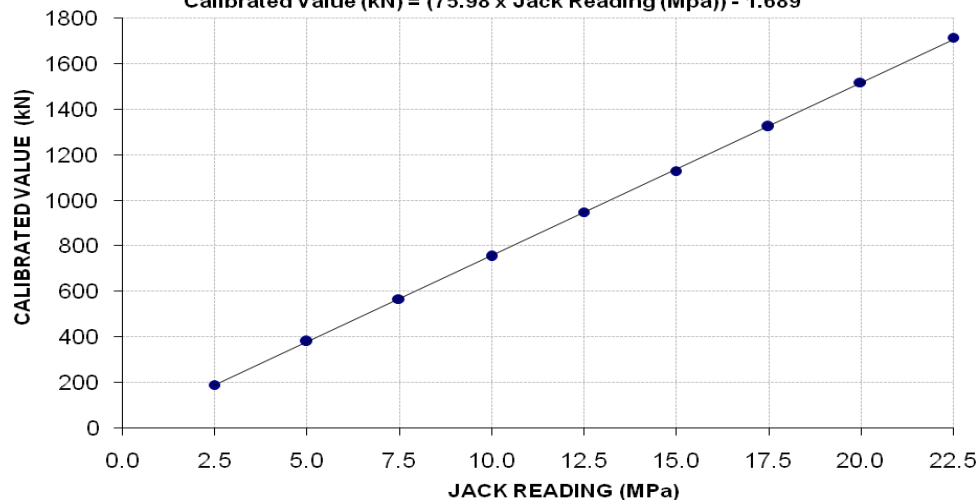
Reference to your Letter No. Nil, dated: 23/12/2024 on the subject cited above.
One Hydraulic Jack (Jack No. YCW 400 B-18, Gauge No. 2354) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 22.5 (MPa)

Hydraulic Jack Reading (MPa)		2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
Calibrated Load	(kg)	19400	38800	58000	77000	96800	115200	135000	154800	174800
	(kN)	190	381	569	755	950	1130	1324	1519	1715
Calibrated Pressure (Mpa)		2.5	5.0	7.5	9.9	12.5	14.8	17.4	19.9	22.5

The Ram Area of Jack = 761 cm²

Calibration Curve For Jack No. YCW 400 B-18 (Gauge # 2354)
Calibrated Value (kN) = (75.98 x Jack Reading (Mpa)) - 1.689



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/6219

Dated: 23-12-2024

Dated of Test: 24-12-2024

To

Laboratory Manager
China Gezhouba Group Company Limited
300 MW Balakot Hydro Power Project.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/6219) (Page -4/4)

Reference to your Letter No. Nil, dated: 23/12/2024 on the subject cited above.
One Hydraulic Jack (Jack No. YCW 400 B-18, Gauge No. 2653) as received by us has been calibrated. The results are tabulated as under:

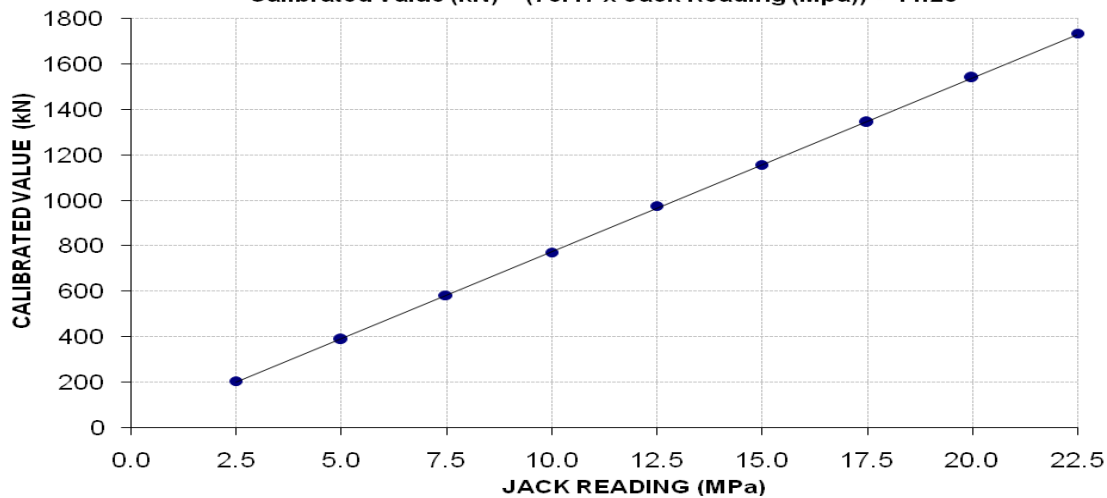
Total Range : Zero - 50 (MPa)
Calibrated Range : Zero - 22.5 (MPa)

Hydraulic Jack Reading (MPa)		2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
Calibrated Load	(kg)	21000	39600	59600	78800	99600	118000	137000	157000	176800
	(kN)	206	388	585	773	977	1158	1344	1540	1734
Calibrated Pressure (Mpa)		2.7	5.1	7.7	10.2	12.8	15.2	17.7	20.2	22.8

The Ram Area of Jack = 761 cm²

Calibration Curve For Jack No. YCW 400 B-18 (Gauge # 2653)

Calibrated Value (kN) = (76.47 x Jack Reading (Mpa)) + 11.28



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 Army Unmanned Aerial Vehical
 Training School
 Mangla Cantonment

Reference # CED/TFL **6220** (Dr. M Kashif)
 Reference of the request letter # UAV/251/Gen/TS

Dated: 24-12-2024
 Dated: 24-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.364	3	0.369	0.11	0.107	3360	5200	67400	69210	104200	107200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Zes Zain Engineering Solutions
Lahore
(Ramada)

Reference # CED/TFL **6222 (Dr. Asad Ali)**
Reference of the request letter # Nil

Dated: 24-12-2024
Dated: 24-12-2024

Tension Test Report (Page – 1/1)

Date of Test 24-12-2024
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	12x50	25.00x11.75	293.75	89.00	134.00	303	456	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one Sample for Tensile Test										
Bend 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,

Sub Engineer
 SUPARCO, Lahore
 Construction of Vehicle RCC Parking Sheds at SRDC-L.

Reference # CED/TFL **6223** (Dr. Asad Ali)

Dated: 24-12-2024

Reference of the request letter # 63301(4102) Works/Div/SRDC-L

Dated: 20-12-2024

Tension Test Report (Page -1/1)

Date of Test 24-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.368	3	0.371	0.11	0.108	3840	4810	77000	78310	96400	98100	1.00	12.5	
2	0.368	3	0.371	0.11	0.108	4000	4960	80200	81480	99400	101100	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														

I/C Testing Laboratories
UET Lahore, Pakistan.

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