



**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  
 Engineering Consultancy Services Punjab (Pvt.) Ltd.  
 Provision of Safe Drinking Water in District Faisalabad by Utilizing 66 Existing  
 Boreholes of Punjab Saaf Pani Company (North Zone) Chak Jhumra Lot-3. (Cluster 6 &  
 7)

Reference # CED/TFL **3326** (Dr. Usman Akmal)

Dated: 31-05-2023

Reference of the request letter # ECSP/PAPA/NZ-CJ-Lot3-04

Dated: 23-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023

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 <sup>2</sup> )		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	0.376	3	0.375	0.11	0.111	3470	4910	69600	69140	98400	97900	1.40	17.5	Sheikho Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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,

GM  
Professional Construction Services (Pvt) Ltd.  
TCF Secondary School Gelewal Khanewal / Bahawalpur.

Reference # CED/TFL **3327** (Dr. Usman Akmal)  
Reference of the request letter # PCS/23/Eng-47

Dated: 31-05-2023  
Dated: 31-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
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 <sup>2</sup> )		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	0.369	3	0.371	0.11	0.108	3970	4860	79600	80760	97400	98900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**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](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,

Project Manager  
Aujla & Associates  
Masjid Ali H-Block Overhead No. 5 Royal Palm City Housing Scheme Gujranwala

Reference # CED/TFL **3328** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 31-05-2023  
Dated: 31-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
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 <sup>2</sup> )		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	0.375	3	0.375	0.11	0.110	4150	5050	83200	82910	101200	100900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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,

M/S AMCORP Engineering & Construction (Pvt) Ltd  
 Lahore  
 Construction of Upper Mall Lahore Plot No. 199 & 200-B.

Reference # CED/TFL **3330** (Dr. Usman Akmal)  
 Reference of the request letter # ABL-LHR-AMC-12

Dated: 31-05-2023  
 Dated: 31-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
 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 <sup>2</sup> )		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	0.383	3	0.379	0.11	0.113	4000	4890	80200	78300	98000	95800	1.00	12.5	Amreli Steel
2	0.383	3	0.379	0.11	0.113	4030	4860	80800	78860	97400	95100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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,  
 Project Engineer (Bldg Sec)  
 Defence Housing Authority  
 Construction of Office Complex DHA Gujranwala.

Reference # CED/TFL **3331** (Dr. Usman Akmal)  
 Reference of the request letter # 111/3/PE Bldgs/Gen/30

Dated: 31-05-2023  
 Dated: 31-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
 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 <sup>2</sup> )		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	0.376	3	0.375	0.11	0.111	3360	5120	67400	66980	102600	102100	1.30	16.3	Siraj Steel
2	0.377	3	0.376	0.11	0.111	3380	5200	67800	67270	104200	103500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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,  
M/S Quality Construction Company  
Lahore  
(Sunridge Foods SR III at Sharqpur Road Lahore.)

Reference # CED/TFL **3332** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 31-05-2023  
Dated: 31-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
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 <sup>2</sup> )		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	0.369	3	0.372	0.11	0.108	3360	4610	67400	68280	92400	93700	1.40	17.5	
2	0.373	3	0.374	0.11	0.110	3210	4510	64400	64540	90400	90700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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,

General Manager (Projects)  
M/S Development Consultancy Services (Pvt) Ltd  
Development of University of Sahiwal, District Sahiwal.

Reference # CED/TFL **3333** (Dr. Usman Akmal)

Dated: 31-05-2023

Reference of the request letter # DCS/GM/UOS/2023/0529 Dated: 29-05-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023

Gauge length 8 inches

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

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.369	3/8	0.372	0.11	0.108	3360	4610	67400	68280	92400	93700	1.40	17.5	Kamran Steel
2	0.373	3/8	0.374	0.11	0.110	3210	4510	64400	64540	90400	90700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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**

Ref: CED/TFL/05/3335

Dated: 31-05-2023

Dated of Test: 01-06-2023

To

**Site Manager**  
**Descon Engineering Limited**  
**Mohmand Dam Hydro-Power Project**

**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/3335) (Page -1/5)**

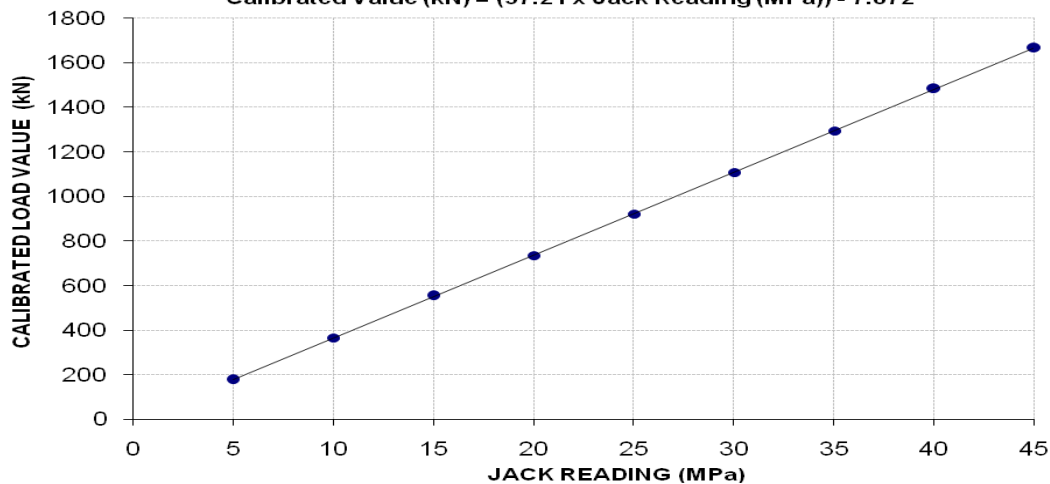
Reference to your Letter No. MDHP-DEL-LABT-171A, dated: 26/05/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2302161528, Gauge No. 4145) as received by us has been calibrated. The results are tabulated as under:

**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)	18000	37200	56400	75000	94000	112900	132000	151200	169800
	(kN)	177	365	553	736	922	1107	1295	1483	1665
Calibrated Pressure (MPa)	4.75	9.83	14.90	19.81	24.83	29.82	34.86	39.94	44.85	

The Ram Area of Jack = 371.305 cm<sup>2</sup>

**Calibration Curve For Jack No. 2302161528, Gauge No. 4145**  
**Calibrated Value (kN) = (37.21 x Jack Reading (MPa)) - 7.872**



**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](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**

Ref: CED/TFL/05/3335

Dated: 31-05-2023

Dated of Test: 01-06-2023

To

**Site Manager**  
**Descon Engineering Limited**  
**Mohmand Dam Hydro-Power Project**

**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/3335) (Page -2/5)**

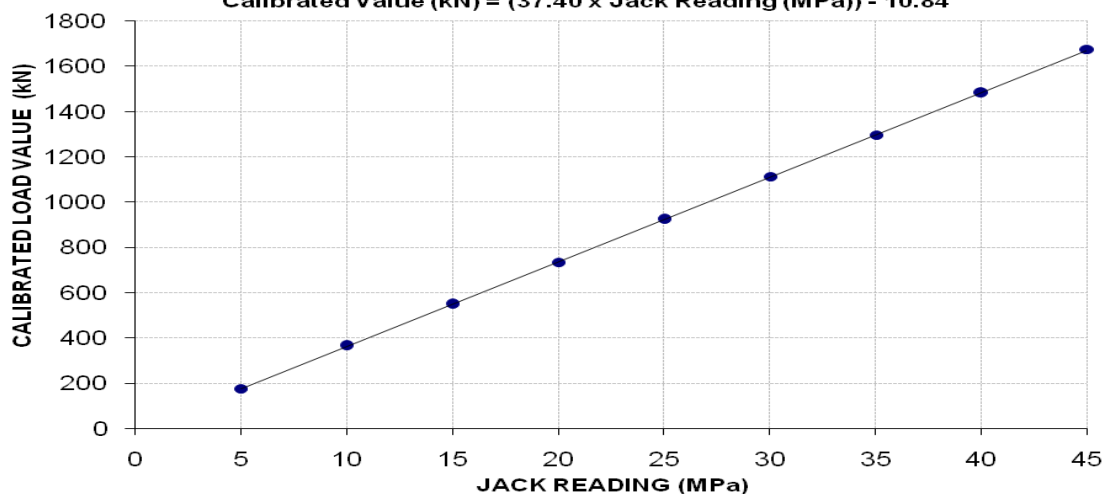
Reference to your Letter No. MDHP-DEL-LABT-171A, dated: 26/05/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2302161529, Gauge No. 4159) as received by us has been calibrated. The results are tabulated as under:

**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)	18000	37200	56000	75000	94200	113600	132200	151200	170800
	(kN)	177	365	549	736	924	1114	1296	1483	1675
Calibrated Pressure (MPa)	4.75	9.83	14.79	19.81	24.88	30.00	34.92	39.94	45.11	

The Ram Area of Jack = 371.305 cm<sup>2</sup>

**Calibration Curve For Jack No. 2302161529, Gauge No. 4159**  
**Calibrated Value (kN) = (37.40 x Jack Reading (MPa)) - 10.84**



**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](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**

Ref: CED/TFL/05/3335

Dated: 31-05-2023

Dated of Test: 01-06-2023

To

**Site Manager**  
**Descon Engineering Limited**  
**Mohmand Dam Hydro-Power Project**

**Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/3335) (Page -3/5)**

Reference to your Letter No. MDHP-DEL-LABT-171A, dated: 26/05/2023 on the subject cited above. One Pressure Gauge No. 4168 as received by us has been calibrated. The results are tabulated as under:

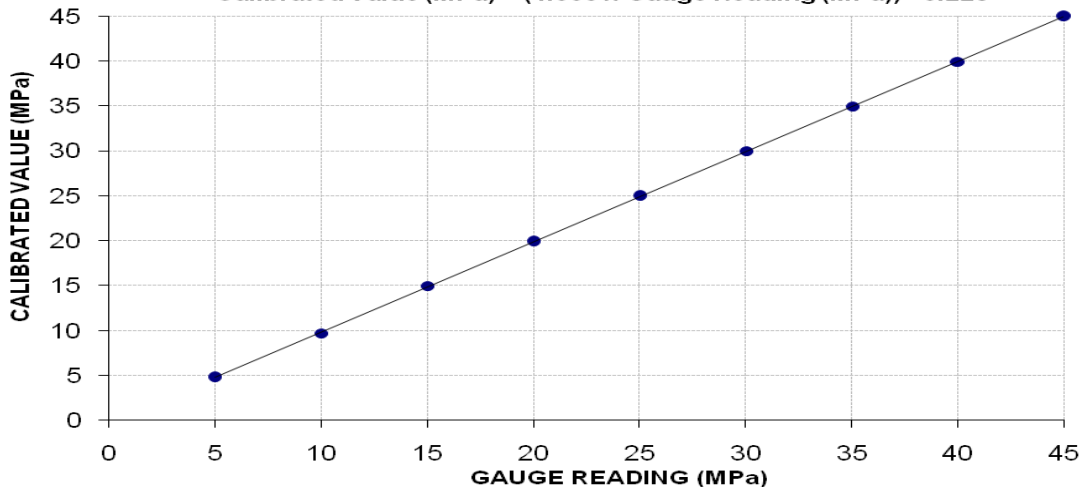
**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 45 (MPa)**

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40	45
Calibrated Load	(kg)	9600	19600	30200	40200	50400	60600	70600	80600	90800
	(kN)	94	192	296	394	494	594	693	791	891
Calibrated Pressure (MPa)		4.75	9.71	14.96	19.91	24.96	30.02	34.97	39.92	44.97

The Ram Area of use for Calibration = 198 cm<sup>2</sup>

**Calibration Curve For Gauge No. 4168**

**Calibrated Value (MPa) = (1.005 x Gauge Reading (MPa)) - 0.228**



**I/C Testing Laboratoires**  
**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](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**

Ref: CED/TFL/05/3335

Dated: 31-05-2023

Dated of Test: 01-06-2023

To

**Site Manager**  
**Descon Engineering Limited**  
**Mohmand Dam Hydro-Power Project**

**Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/3335) (Page -4/5)**

Reference to your Letter No. MDHP-DEL-LABT-171A, dated: 26/05/2023 on the subject cited above. One Pressure Gauge No. 2606 as received by us has been calibrated. The results are tabulated as under:

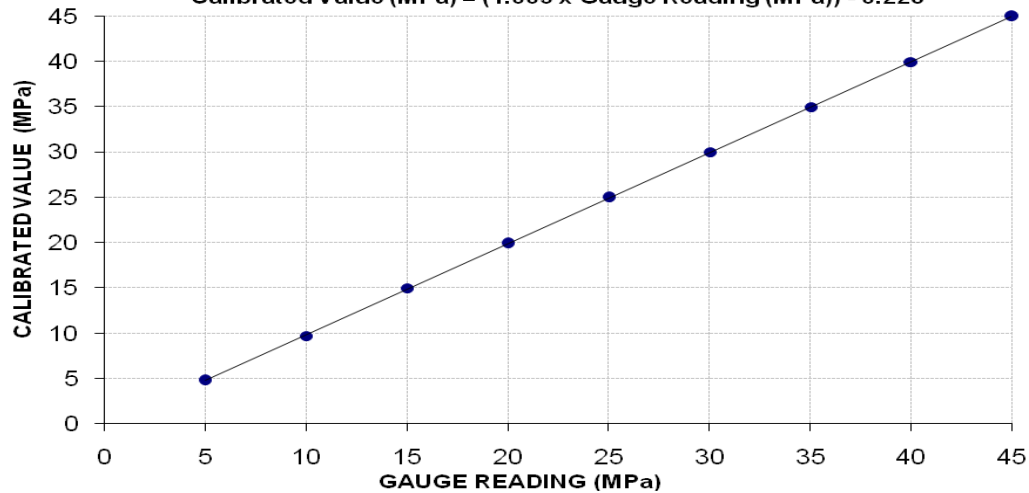
**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 45 (MPa)**

Hydraulic Jack Reading (MPa)		5	10	15	20	25	30	35	40	45
Calibrated Load	(kg)	9600	19600	30000	40000	50000	60000	70000	80200	90600
	(kN)	94	192	294	392	491	589	687	787	889
Calibrated Pressure (MPa)		4.75	9.71	14.86	19.81	24.77	29.72	34.67	39.72	44.87

The Ram Area of use for Calibration = 198 cm<sup>2</sup>

**Calibration Curve For Gauge No. 2606**

Calibrated Value (MPa) = (1.005 x Gauge Reading (MPa)) - 0.228



**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](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**

Ref: CED/TFL/05/3335

Dated: 31-05-2023

Dated of Test: 01-06-2023

To

**Site Manager**  
**Descon Engineering Limited**  
**Mohmand Dam Hydro-Power Project**

**Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/05/3335) (Page # 5/5)**

Reference to your Letter No. MDHP-DEL-LABT-171A, dated: 26/05/2023 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

**Total Range : Zero - 100 (mm)**  
**Calibrated Range : Zero - 50 (mm)**

<b>Standard Reading (mm)</b>	<b>Dial Gauge Readings</b>	
	<b>Dial Gauge No. I (6614780)</b>	<b>Dial Gauge No. II (8115861)</b>
<b>400</b>	<b>394</b>	<b>393</b>
<b>800</b>	<b>793</b>	<b>793</b>
<b>1200</b>	<b>1193</b>	<b>1192</b>
<b>1600</b>	<b>1592</b>	<b>1593</b>
<b>2000</b>	<b>1993</b>	<b>1992</b>
<b>2400</b>	<b>2392</b>	<b>2392</b>
<b>2800</b>	<b>2792</b>	<b>2792</b>
<b>3200</b>	<b>3192</b>	<b>3192</b>
<b>3600</b>	<b>3593</b>	<b>3591</b>
<b>4000</b>	<b>3992</b>	<b>3991</b>
<b>4400</b>	<b>4392</b>	<b>4391</b>
<b>4800</b>	<b>4792</b>	<b>4790</b>
<b>5000</b>	<b>4992</b>	<b>4990</b>

**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](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,  
M/S Ahmed Traders and Steel Store.  
Lahore

Reference # CED/TFL **3341** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 01-06-2023  
Dated: 01-06-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.372	3/8	0.373	0.11	0.109	3380	4690	67800	68070	94000	94500	1.40	17.5	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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,  
M/S Faisal Sharif Building Material Store.  
Sialkot

Reference # CED/TFL **3342** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 01-06-2023  
Dated: 01-06-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.374	3/8	0.374	0.11	0.110	3430	4790	68800	68810	96000	96100	1.30	16.3	Sheikhoo Steel	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Note: only one sample for tensile and one sample for bend test</b>															
Bend Test															
3/8" Dia Bar Bend Test Through 180° is Satisfactory															

**I/C Testing Laboratoires**  
**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](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,  
 M/S Amjad Steel Traders  
 Multan

Reference # CED/TFL **3343** (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 01-06-2023  
 Dated: 01-06-2023

**Tension Test Report** (Page -1/1)

Date of Test 01-06-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.374	3/8	0.374	0.11	0.110	3410	4740	68400	68450	95000	95200	1.40	17.5	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](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