# CHORE RIME

### 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 MS Civool Steel Pvt. Ltd. Lahore

Reference # CED/TFL <u>1780 (Dr. Usman Akmal)</u>

Reference of the request letter # Nil

**Tension Test Report** (Page – 1/1)

Date of Test 17-08-2022 Gauge length 2 inches

Description Steel Strip Tensile Test

Sr. No.	(mm) Designation	(mm) Size of Strip	X Section Area	(kg)	(gay)  Breaking  Load	(MPa)	Ultimate Stress	(ui)	% Elongation	Remarks
1	1.5	27.50x1.50	41.25	1200	2400	285	571	0.35	17.50	
2	2	27.50x1.95	53.63	2000	3000	366	549	0.40	20.00	
3	4	27.50x3.80	104.50	4000	5000	376	469	0.60	30.00	
4	5	27.50x5.00	137.50	5500	7700	392	549	0.60	30.00	
5	6	27.60x5.85	161.46	6600	9200	401	559	0.60	30.00	
6	8	27.40x7.90	216.46	8100	11800	367	535	0.70	35.00	
7	10	27.40x9.90	271.26	11500	15900	416	575	0.60	30.00	
		10	ıly Seven	Samples	for Tensil	e Test				
				Bend T	est					

To,

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 15-08-2022

Dated: 15-08-2022

- 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



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

Project Engineer Defence Housing Authority Gujranwala

Reference # CED/TFL 1790 (Dr. Usman Akmal)

Reference of the request letter # 111/15/PE/RS/Pkg-1/564

Dated: 16-08-2022

Dated: 05-08-2022

**Tension Test Report** (Page -1/2)

Date of Test 17-08-2022 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(1J/sqI)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	<b>3</b> %	Re
1	0.371	3	0.372	0.11	0.109	4000	5200	80200	80950	104200	105300	0.80	10.0	FF Steel
2	0.375	3	0.375	0.11	0.110	3900	5100	78200	78010	102200	102100	0.90	11.3	F
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, Project Engineer Defence Housing Authority Gujranwala

Reference # CED/TFL 1790 (Dr. Usman Akmal)

Reference of the request letter # 111/15/PE/RS/Pkg-32A/527

Dated: 16-08-2022

Dated: 15-08-2022

**Tension Test Report** (Page -2/2)

Date of Test 17-08-2022 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si			Area (in²)		Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.378	3	0.376	0.11	0.111	4000	5000	80200	79370	100200	99300	1.00	12.5	FF Steel
2	0.378	3	0.376	0.11	0.111	4000	5000	80200	79270	100200	99100	0.90	11.3	F
3	4.153	10	1.247	1.27	1.221	39800	55000	69100	71870	95500	99400	1.60	20.0	
4	4.149	10	1.246	1.27	1.220	40000	55200	69500	72290	95800	99800	1.50	18.8	
5	5.042	11	1.374	1.56	1.482	35200	48000	49800	52350	67900	71400	1.40	17.5	
6	5.264	11	1.404	1.56	1.547	47000	65600	66500	66950	92700	93500	1.60	20.0	
			No	te: only	y six saı	mples for	tensile a	nd three	samples	for bend	test			
							Bend T	est						
#3	Bar Ben	d Test 7	Γhrough	180° is	s Satisfa	ctory								
#10	) Bar Be	nd Test	Throug	gh 180°	is Satis	factory								
#11	Bar Be	nd Test	Throug	gh 180°	is Satist	factory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

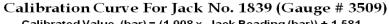
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/1791) (Page -1/12)

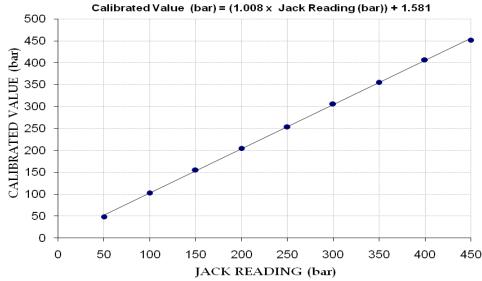
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Hydraulic Jack (Jack No. 1839, Gauge No. 3509) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar) Calibrated Range : Zero - 450 (bar)

Hydraulic Jack Reading (bar)	50	100	150	200	250	300	350	400	450
Calibrated Load (kg)	14600	31300	47200	62200	77000	93000	108000	123600	137200
Calibrated Pressure (bar)	48	103	155	205	253	306	355	407	452

The Ram Area of Jack =  $298 \text{ cm}^2$ 





I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

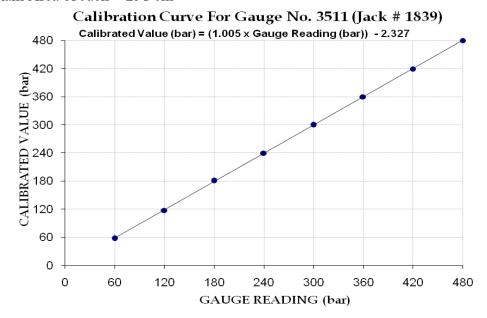
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -2/12)

Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3511, Jack No. 1839) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (MPa)	60	120	180	240	300	360	420	480
Calibrated Load (Kg)	17400	35600	54800	72800	91000	109200	127400	145800
Calibrated Pressure (Mpa)	57	117	180	240	299	359	419	480

The Ram Area of Jack =  $298 \text{ cm}^2$ 



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

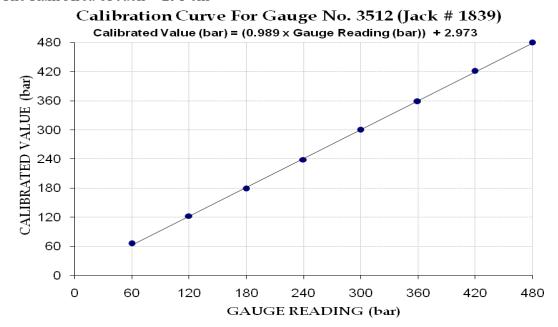
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -3/12)

Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3512, Jack No. 1839) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	19800	37200	54200	72500	91000	108800	127800	145600
Calibrated Pressure (bar)	65	122	178	239	299	358	421	479

The Ram Area of Jack =  $298 \text{ cm}^2$ 



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -4/12)

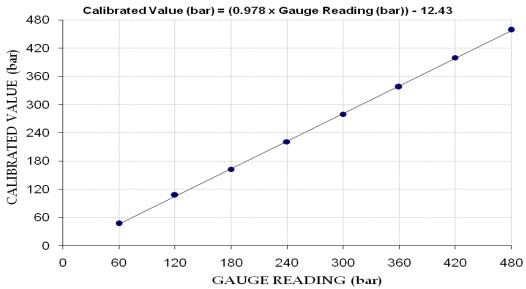
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3514, Jack No. 1839) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (Kg)	14200	32600	49400	67200	85000	102600	121500	139400
Calibrated Pressure (bar)	47	107	163	221	280	338	400	459

The Ram Area of Jack =  $298 \text{ cm}^2$ 

### Calibration Curve For Gauge No. 3514 (Jack # 1839)



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/1791) (Page -5/12)

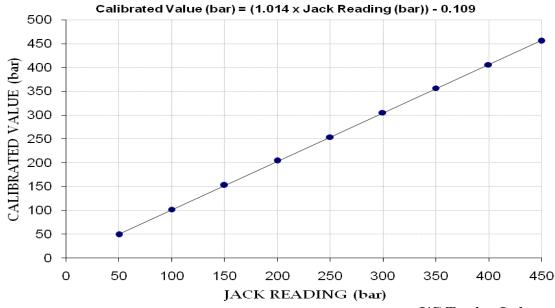
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Hydraulic Jack (Jack No. 1801, Gauge No. 3510) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar) Calibrated Range : Zero - 450 (bar)

Hydraulic Jack Reading (bar)	50	100	150	200	250	300	350	400	450
Calibrated Load (Kg)	14800	31000	46400	62000	77000	92600	108200	123200	138400
Calibrated Pressure (bar)	49	102	153	204	253	305	356	405	455

The Ram Area of Jack =  $298 \text{ cm}^2$ 

### Calibration Curve For Jack No. 1801 (Gauge # 3510)



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -6/12)

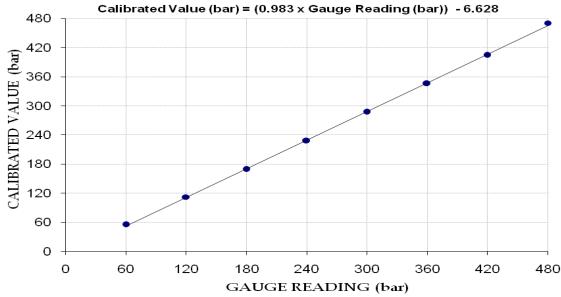
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3517, Jack No. 1801) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (Kg)	16800	34000	51400	69200	87200	105000	122800	143000
Calibrated Pressure (bar)	55	112	169	228	287	346	404	471

The Ram Area of Jack =  $298 \text{ cm}^2$ 

### Calibration Curve For Gauge No. 3517 (Jack # 1801)



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 12-05-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -7/12)

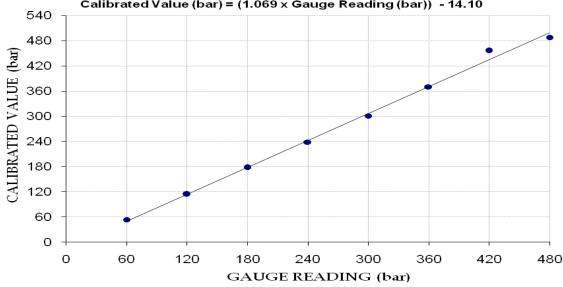
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3518, Jack No. 1801) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	16200	34600	54000	72400	91400	112400	138600	148200
Calibrated Pressure (bar)	53	114	178	238	301	370	456	488

The Ram Area of Jack =  $298 \text{ cm}^2$ 

### Calibration Curve For Gauge No. 3518 (Jack # 1801) Calibrated Value (bar) = (1.069 x Gauge Reading (bar)) - 14.10



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 12-05-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

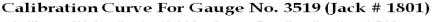
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -8/12)

Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3519, Jack No. 1801) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	19600	37800	54600	73400	92000	109500	126950	146000
Calibrated Pressure (bar)	65	124	180	242	303	360	418	480

The Ram Area of Jack =  $298 \text{ cm}^2$ 





I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/1791) (Page -9/12)

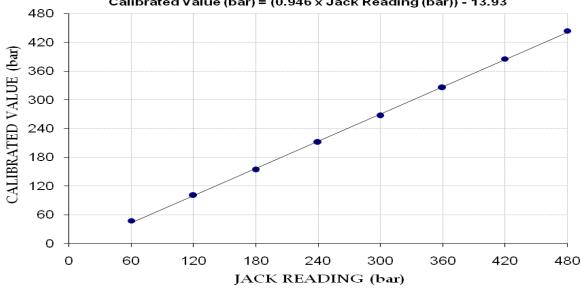
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Hydraulic Jack (Jack No. 2006, Gauge No. 3515) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Hydraulic Jack Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	9200	19500	29900	41100	51900	63300	74900	86400
Calibrated Pressure (bar)	47	100	154	211	267	325	385	444

The Ram Area of Jack =  $190.8 \text{ cm}^2$ 

### Calibration Curve For Jack No. 2006 (Gauge # 3515) Calibrated Value (bar) = (0.946 x Jack Reading (bar)) - 13.93



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 12-05-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

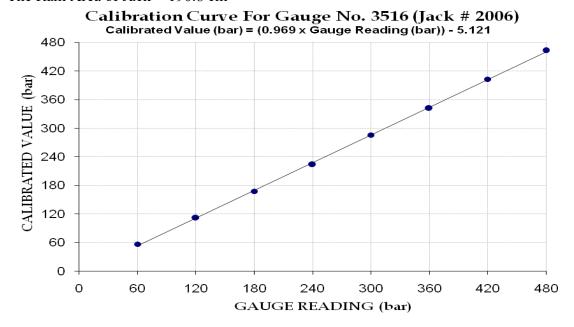
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -9/12)

Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3516, Jack No. 2006) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	11000	21700	32600	43500	55600	66500	78400	90000
Calibrated Pressure (bar)	57	112	168	224	286	342	403	463

The Ram Area of Jack =  $190.8 \text{ cm}^2$ 



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 17-08-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -11/12)

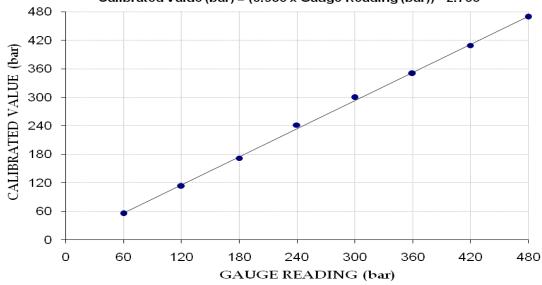
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 3513, Jack No. 2006) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 600 (bar) Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	60	120	180	240	300	360	420	480
Calibrated Load (kg)	10700	21900	33400	47000	58300	68100	79500	91200
Calibrated Pressure (bar)	55	113	172	242	300	350	409	469

The Ram Area of Jack =  $190.8 \text{ cm}^2$ 

### Calibration Curve For Gauge No. 3513 (Jack # 2006) Calibrated Value (bar) = (0.986 x Gauge Reading (bar)) - 2.753



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: CED/TFL/08/1791, 1795 Dated: 16-08-2022

Dated: 12-05-2022

To

M/S China Gezhouba Group Co., Ltd CGGC Dasu Hydropower Project Management in Pakistan

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/1791) (Page -2/12)

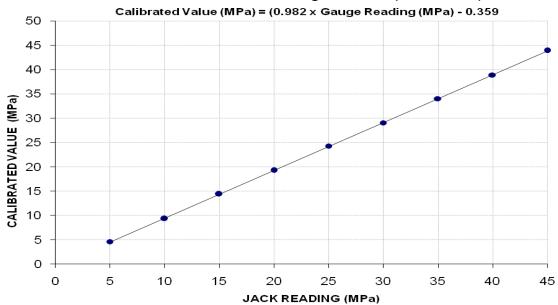
Reference to your Letter No. Nil, dated: 14/08/2022 on the subject cited above. One Pressure Gauge (Gauge No. 1218, Jack No. 2006) as received by us has been calibrated. The results are tabulated as under:

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

Pressure Gauge Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	9000	18200	28000	37500	47200	56500	66200	75600	85400
Calibrated Pressure (Mpa)	4.63	9.35	14.39	19.27	24.26	29.04	34.03	38.86	43.90

The Ram Area of Jack =  $190.8 \text{ cm}^2$ 

Calibration Curve For Gauge No. 1218 (Jack # 2006)



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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

## CONSERVICE CONSTRUCTION OF THE PROPERTY OF THE

### STRUCTURAL ENGINEERING DIVISION

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

<u>Ref: CED/TFL/08/1793</u> Dated: <u>17-08-2022</u>

Dated of Test: 17-08-2022

To

M/S National Heritage Contractors Lahore

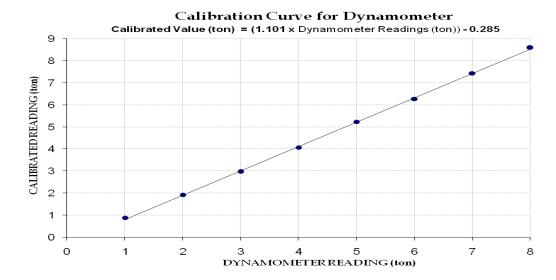
Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/08/1793) (Page -1/1)

Ref: Your letter No. NHC/W-170/9846, dated: 17/08/2022 on the subject cited above. One Dynamometer (Brand PIAB, Model No. WS-1348) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10 (ton) Calibrated Range : Zero - 8 (ton)

Dynamometer Readings (ton)		1	2	3	4	5	6	7	8
Calibrated Readings	(kg)	800	1750	2700	3700	4750	5700	6750	7800
	(ton)	0.88	1.93	2.97	4.07	5.23	6.28	7.43	8.59

1000 kg = 1.1011 Ton



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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