



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/10/37248

Dated: 25-10-2021

Dated of Test: 05-11-2021

To
Project Manager
RTCC Pvt Ltd

Construction of 220kV D/C T/Line on Twin Bundled Rail Conductor from KSK to Lahore North G/S (Lot-1) 220 kV D/C T/Line on Twin Bundled Rail Conductor from Lahore North G/S to Ravi-Ghazi G/S (Lot-2) 220kV D/C T/Line on Twin Bundled Rail for Looping in/out of Lahore -Ravi Single Circuit T/Line at Lahore North (Lot-3)

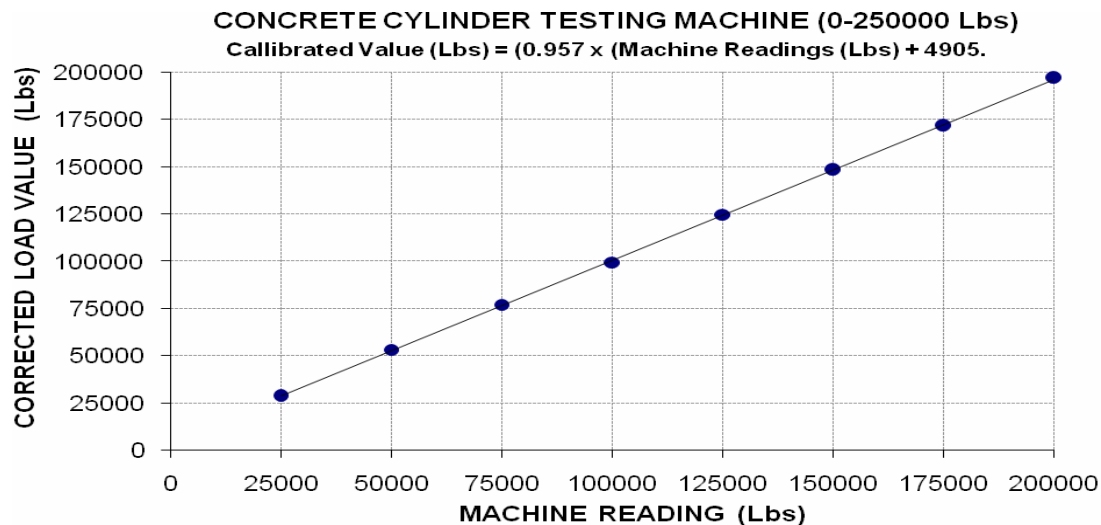
Subject:- CALIBRATION OF CONCRETE CYLINDER TESTING MACHINE OF 250000 (Lbs) (MARK: CED/TFL/10/37248)

Reference to your letter No. NRTCC/ADB/0069, dated: 21/10/2021 on the subject cited above. One Concrete Cylinder Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 250000 (Lbs)

Calibrated Rang : Zero - 200000 (Lbs)

Machine Reading (Lbs)	25000	50000	75000	100000	125000	150000	175000	200000
Corrected Load Value (Lbs)	28697	53292	77223	99452	124775	148528	171880	197024



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
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 Munir Industry (Private) Limited
Lahore

Reference # CED/TFL **37299** (Engr. Amina Rajput)
Reference of the request letter # M.I/PVC/01

Dated: 02-11-2021
Dated: 02-11-2021

Tension Test Report (Page -1/2)

Date of Test 05-11-2021
Gauge length 8 inches
Description PVC Wire Tensile Test (Wire Without Coating)

Sr. No.	Weight	Diameter/ size		Area (mm ²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	0.061	3.20	3.14	-----	7.7	-----	300	-----	380	1.60	20.0	
.	
.	
.	
.	
.	
Note: 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,
M/S Munir Industry (Private) Limited
Lahore

Reference # CED/TFL 37299 (Engr. Amina Rajput)
Reference of the request letter # M.I/PVC/01

Dated: 02-11-2021
Dated: 02-11-2021

Tension Test Report (Page – 2/2)

Date of Test 05-11-2021
Description PVC Wire Breaking Load Test (Wire With Coating)

Sr. No.	Nominal Diameter	Measured Diameter	Breaking Load	Remark
	(mm)	(mm)	(kg)	
1	4.70	4.70	540	
-	-	-		
-	-	-		
-	-	-		-
-	-	-		-
-	-	-		-
-	-	-		
Only One Sample for 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

Ref: CED/TFL/11/37304

Dated: 03-11-2021

Dated: 04-11-2021

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/37304) (Page -1/6)

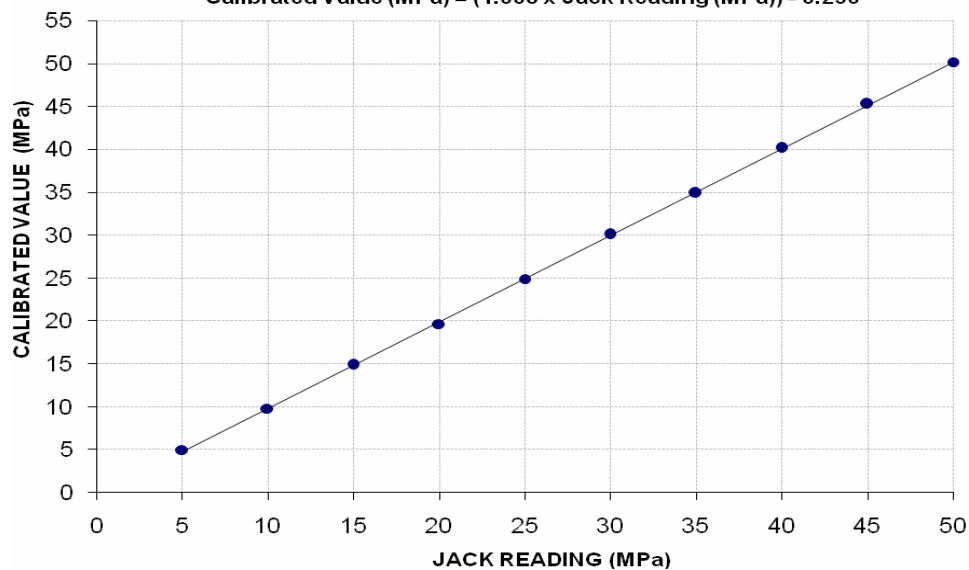
Reference to your Letter No. Nil, dated: 02/11/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1826, Gauge No. 3397) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	15200	29800	45200	59800	75600	91400	106000	122000	137600	152400
Calibrated Pressure (Mpa)	5.00	9.81	14.88	19.68	24.88	30.08	34.88	40.15	45.28	50.15

The Ram Area of Jack = 298 cm²

Calibration Curve For Jack No. 1826 (Gauge # 3397)
Calibrated Value (MPa) = (1.008 x Jack Reading (MPa)) - 0.250



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

Ref: CED/TFL/11/37304

Dated: 03-11-2021

Dated: 04-11-2021

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/37304) (Page -2/6)

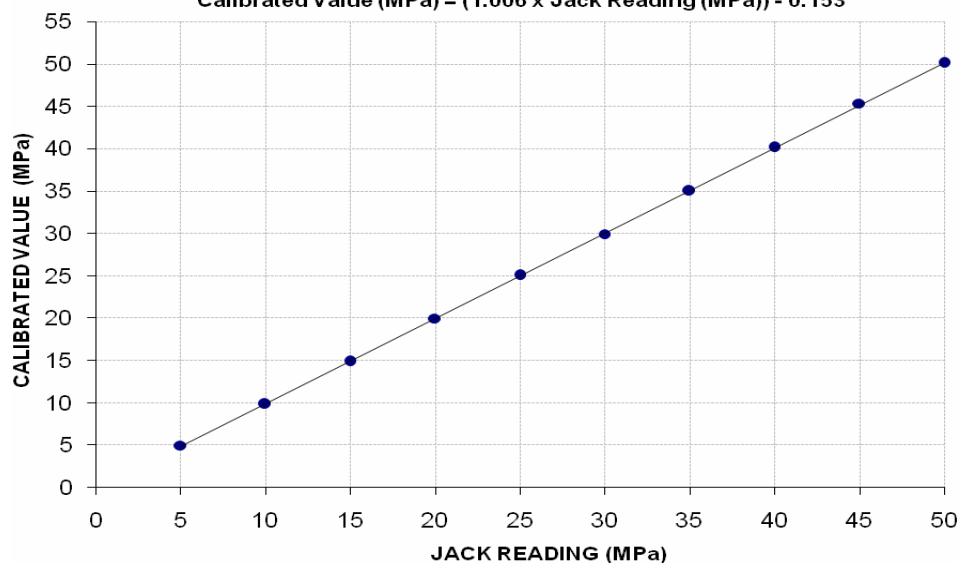
Reference to your Letter No. Nil, dated: 02/11/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1839, Gauge No. 1218) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	15200	30000	45200	60600	76200	91000	106400	122000	137800	152200
Calibrated Pressure (Mpa)	5.00	9.87	14.88	19.94	25.08	29.95	35.02	40.15	45.35	50.09

The Ram Area of Jack = 298 cm²

Calibration Curve For Jack No. 1839 (Gauge # 1218)
Calibrated Value (MPa) = (1.006 x Jack Reading (MPa)) - 0.153



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
- 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/11/37304

Dated: 03-11-2021

Dated: 04-11-2021

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/37304) (Page -3/6)

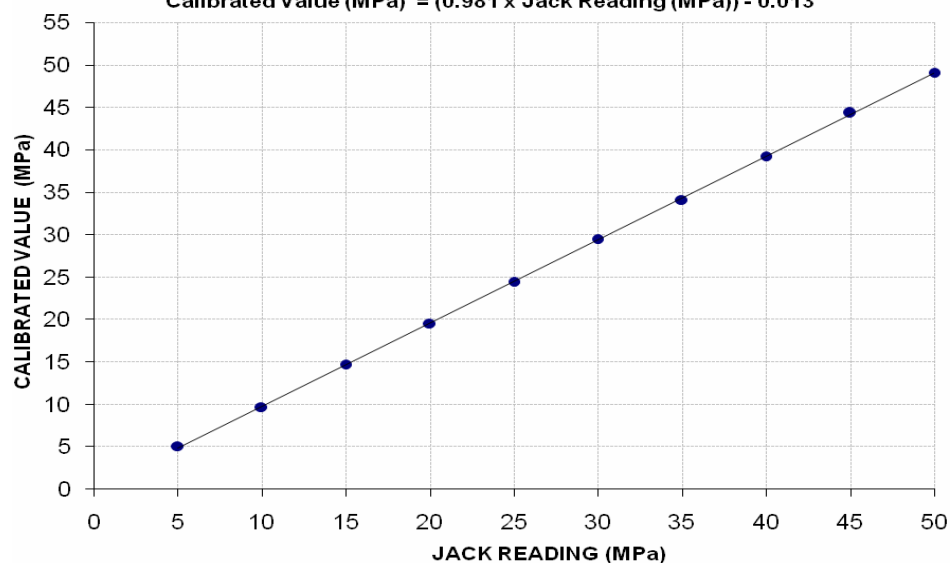
Reference to your Letter No. Nil, dated: 02/11/2021 on the subject cited above. One Hydraulic Jack (Jack No. 2007, Gauge No. 3397) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	9900	18900	28600	38000	47600	57400	66400	76400	86200	95500
Calibrated Pressure (Mpa)	5.09	9.71	14.70	19.53	24.47	29.50	34.13	39.27	44.31	49.09

The Ram Area of Jack = 190.80 cm²

Calibration Curve For Jack No. 2007 (Gauge # 3397)
Calibrated Value (MPa) = (0.981 x Jack Reading (MPa)) - 0.013



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

Ref: CED/TFL/11/37304

Dated: 03-11-2021

Dated: 04-11-2021

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/37304) (Page -4/6)

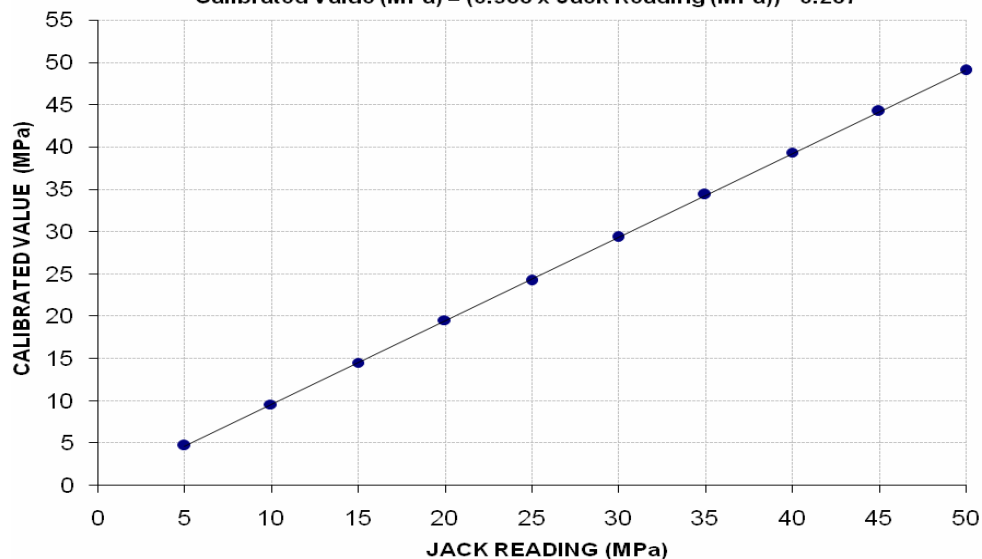
Reference to your Letter No. Nil, dated: 02/11/2021 on the subject cited above. One Hydraulic Jack (Jack No. 2006, Gauge No. 1218) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	9200	18600	28200	38000	47100	57100	66900	76500	86000	95400
Calibrated Pressure (Mpa)	4.73	9.56	14.49	19.53	24.21	29.35	34.39	39.32	44.20	49.04

The Ram Area of Jack = 190.80 cm²

Calibration Curve For Jack No. 2006 (Gauge # 1218)
Calibrated Value (MPa) = (0.988 x Jack Reading (MPa)) - 0.287



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
- 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/11/37304

Dated: 03-11-2021

Dated: 04-11-2021

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

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/37304)** (Page -1/6)

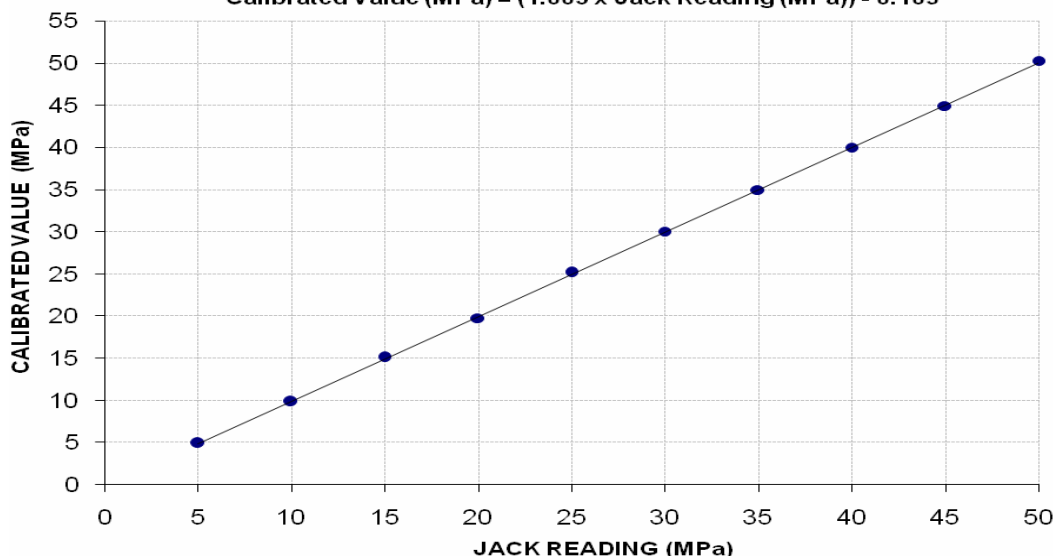
Reference to your Letter No. Nil, dated: 02/11/2021 on the subject cited above. One Hydraulic Jack (Jack No. 19220, Gauge No. 3397) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	2400	4800	7350	9600	12250	14600	17000	19450	21850	24450
Calibrated Pressure (Mpa)	4.93	9.87	15.11	19.73	25.18	30.01	34.94	39.98	44.91	50.26

The Ram Area of Jack = 47.71 cm²

Calibration Curve For Jack No. 19220 (Gauge # 3397)
Calibrated Value (MPa) = (1.003 x Jack Reading (MPa)) - 0.109



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
- 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/11/37304

Dated: 03-11-2021

Dated: 04-11-2021

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/37304) (Page -6/6)

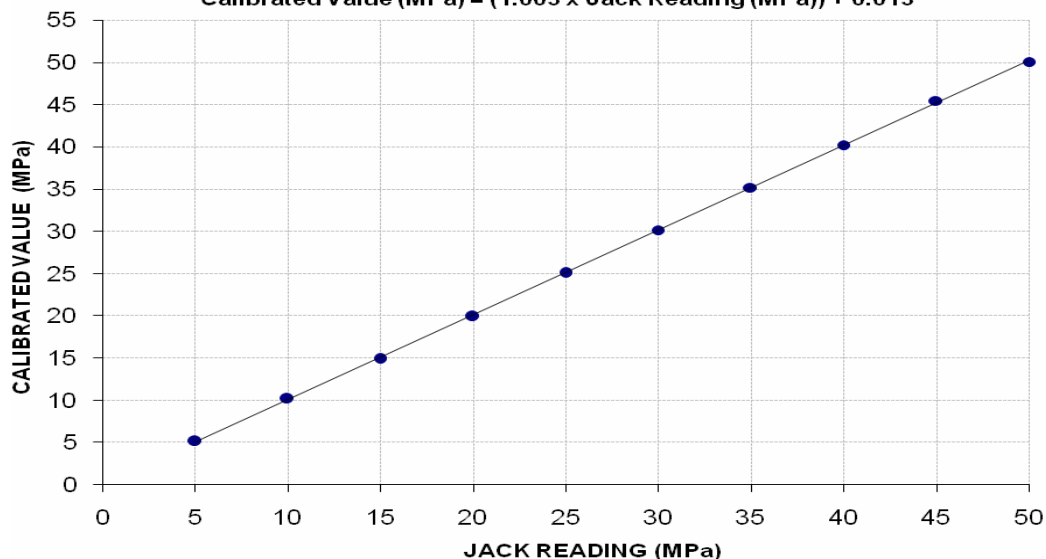
Reference to your Letter No. Nil, dated: 02/11/2021 on the subject cited above. One Hydraulic Jack (Jack No. 19247, Gauge No. 1218) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	2500	4950	7250	9700	12200	14650	17100	19550	22100	24350
Calibrated Pressure (Mpa)	5.14	10.17	14.90	19.94	25.08	30.11	35.15	40.19	45.43	50.05

The Ram Area of Jack = 47.71 cm²

Calibration Curve For Jack No. 19247 (Gauge # 1218)
Calibrated Value (MPa) = (1.003 × Jack Reading (MPa)) + 0.013



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
- 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
 CCECC-MATRACON-HABIB Joint Venture
 Re-Construction & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
 Airport (AIIAP), Lahore
 (Batala Steel)

Reference # CED/TFL **37306** (Engr. Amina Rajput) Dated: 03-11-2021
 Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/742

Dated: 02-11-2021

Tension Test Report (Page -1/1)

Date of Test 05-11-2021
 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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.418	10	10.05	0.12	0.123	3200	5800	58789	57400	106556	104100	1.10	13.8	46
2	0.432	10	10.21	0.12	0.127	4100	6200	75324	71170	113904	107700	1.00	12.5	47
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm 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
- 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 Fluck Builders
Lahore

Reference # CED/TFL **37307** (Engr. Amina Rajput)
Reference of the request letter # 21-fb-13

Dated: 03-11-2021
Dated: 03-11-2021

Tension Test Report (Page -1/1)

Date of Test 05-11-2021
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	0.375	3	0.375	0.11	0.110	4000	5100	80200	79930	102200	102000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Project Engineer
 Great City
 Faisalabad Bypass Road Sheikhpura

Reference # CED/TFL **37309** (Engr. Amina Rajput)
 Reference of the request letter # MLD/GC/004/2021

Dated: 03-11-2021
 Dated: 02-11-2021

Tension Test Report (Page -1/1)

Date of Test 05-11-2021
 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	0.371	3	0.373	0.11	0.109	3200	4850	64200	64700	97200	98100	1.20	15.0	Moiz steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Resident Engineer - 2
 ACES
 Sector- H,
 Civil Infrastructure Development Works DHA Multan

Reference # CED/TFL **37310** (Engr. Amina Rajput)
 Reference of the request letter # ACES-DHAM-NLC-019

Dated: 04-11-2021
 Dated: 03-11-2021

Tension Test Report (Page -1/1)

Date of Test 05-11-2021
 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	0.403	10	9.86	0.12	0.118	2800	4050	51441	52120	74405	75400	1.50	18.8	Mughal steel
2	0.407	10	9.92	0.12	0.120	2800	4100	51441	51550	75324	75500	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Dy. Director (Maint) M-4
 NHA, Khanewal

Reference # CED/TFL **37311** (Engr. Amina Rajput)

Dated: 04-11-2021

Reference of the request letter # ()/DD (Maint)/M-4/NHA/2021/735

Dated: 26-10-2021

Tension Test Report (Page -1/1)

Date of Test 05-11-2021

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	0.394	10	9.75	0.12	0.116	4100	5200	75324	78080	95533	99100	1.00	12.5	Karachi steel	
2	0.394	10	9.75	0.12	0.116	4100	5150	75324	78110	94614	98200	1.00	12.5		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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.

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,
 Material Engineer
 Soil & Foundation Engineering Services, Lahore
 Central Asia Regional Economic Cooperation (CAREC), Regional Improvement Border
 Services (RIBS)

Reference # CED/TFL **37313** (Engr. Amina Rajput)
 Reference of the request letter # SS/Letter/2325/21

Dated: 04-11-2021
 Dated: 04-11-2021

Tension Test Report (Page -1/1)

Date of Test 05-11-2021
 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	4050	4900	74405	73290	90021	88700	1.20	15.0	Faizan Steel
2	4.165	32	31.71	1.25	1.224	35800	50500	63140	64450	89066	91000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and two samples for bend test

Bend Test

10mm Dia Bar Bend Test Through 180° is Satisfactory

32mm 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
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples