



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

To,
 DCRE/RE-1
 Zeeruk International (Pvt) Ltd
 Lahore Sialkot Motorway Project
 Reference # CED/TFL **33467** (Dr. M Rizwan Riaz)
 Reference of the request letter # LSM/RE-II/St/19/326

Dated: 01-07-2019

Dated: 01-07-2019

Tension Test Report (Page – 1/1)

Date of Test 08-07-2019

Gauge length 2 inches

Description Galvanized Corrugated Steel Beam & Galvanized Steel Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Corrugated Steel Beam	2.34x0.275	0.64	3600	4200	5594.41	6526.81	0.50	25.00	
2		2.34x0.280	0.66	3600	4300	5494.51	6562.88	0.45	22.50	
3	Corrugated Steel Beam	2.34x0.280	0.66	3400	4000	5189.26	6105.01	0.50	25.00	
4		2.34x0.275	0.64	3500	4300	5439.01	6682.21	0.50	25.00	
5	Corrugated Steel Beam	2.35x0.275	0.65	3400	4300	5261.12	6653.77	0.50	25.00	
6		2.34x0.275	0.64	3700	4400	5749.81	6837.61	0.50	25.00	
7	Steel Post	2.35x0.710	1.67	5700	8000	3416.24	4794.73	0.80	40.00	
8		2.35x0.710	1.67	7000	9000	4195.39	5394.07	0.70	35.00	
9	Steel Post	2.34x0.710	1.66	5700	8000	3430.84	4815.22	0.80	40.00	
10		2.34x0.710	1.66	6100	8200	3671.60	4935.60	0.80	40.00	
11	Steel Post	2.36x0.710	1.68	6200	8100	3700.17	4834.09	0.80	40.00	
12		2.34x0.710	1.66	7000	9000	4213.31	5417.12	0.70	35.00	
Only Twelve Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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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,
 Sub Divisional Officer
 Rukanpur Canal Sub Division
 Rukanpur

(Construction of Canal Rest House Building Pallushah for the Work of “Construction of Flood Embankments and Protection Work along with Left and Right Bank of River Indus for Bridge Near Miranpur Linkage N-5 at Arbi Tibba with Rahim Yar Khan Iqbalabad)

Reference # CED/TFL **33494** (Dr. M Rizwan Riaz)

Dated: 05-07-2019

Reference of the request letter # 218/

Dated: 02-06-2019

Tension Test Report (Page -1/1)

Date of Test 08-07-2019

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	0.387	3	0.381	0.11	0.114	3200	4400	64200	62020	88200	85300	1.30	16.3	
2	0.384	3	0.379	0.11	0.113	3100	4400	62200	60590	88200	86000	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 Laboratoires
UET Lahore, Pakistan.

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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,
 Chief Resident Engineer, SMP
 Osmani & Company (Pvt) Ltd
 Swat Motorway Project

Reference # CED/TFL **33497** (Dr. M Rizwan Riaz)
 Reference of the request letter # 306/CRE/QATSMP/2019

Dated: 05-07-2019
 Dated: 29-06-2019

Tension Test Report (Page – 1/2)

Date of Test 08-07-2019
 Gauge length 2 inches
 Description W-Section & Guard Rail Post Strip Tensile and Bend Test as per ASHTOO

M-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Section	1.81x0.28	0.51	1900	2600	3749.01	5130.23	0.70	35.00	
2		1.81x0.28	0.51	2100	2600	4143.65	5130.23	0.65	32.50	
3	Post	2.26x0.71	1.60	6200	8600	3863.89	5359.59	0.65	32.50	
4		2.26x0.71	1.60	5900	8700	3676.93	5421.91	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from Post 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer, SMP
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **33497** (Dr. M Rizwan Riaz)
Reference of the request letter # 306/CRE/QATSMP/2019

Dated: 05-07-2019
Dated: 29-06-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 08-07-2019
Gauge length -----
Description W-Section & Guard Rail Post Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Thickness	Remark
		(g)	(mm)	(kg/m)	(mm)	
1	W-Section	1146	104.00	11.02	2.80	
2	Post	1449	106.00	13.67	7.10	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
Only Two Samples for Test						

I/C Testing Laboratories
UET Lahore, Pakistan.

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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,
 Chief Resident Engineer, SMP
 Osmani & Company (Pvt) Ltd
 Swat Motorway Project

Reference # CED/TFL **33498** (Dr. M Rizwan Riaz)
 Reference of the request letter # 307/CRE/QATSMP/2019

Dated: 05-07-2019
 Dated: 29-06-2019

Tension Test Report (Page – 1/2)

Date of Test 08-07-2019
 Gauge length 2 inches
 Description Guard Rail End Section Strip Tensile and Bend Test as per ASHTOO
 M-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	End Section	2.24x0.28	0.63	2500	3200	3985.97	5102.04	0.55	27.50	
2		2.24x0.28	0.63	2600	3250	4145.41	5181.76	0.55	27.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from End Section 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer, SMP
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **33498** (Dr. M Rizwan Riaz)
Reference of the request letter # 307/CRE/QATSMP/2019

Dated: 05-07-2019
Dated: 29-06-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 08-07-2019
Gauge length -----
Description Guard Rail End Section Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Thickness	Remark
		(g)	(cm)	(kg/m)	(mm)	
1	End Section	3414	30.60	11.16	2.80	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
Only One Sample for Test						

I/C Testing Laboratories
UET Lahore, Pakistan.

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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,
 Chief Executive
 KS & Associates
 Setting up New Branch of MCB Bank & Regional Office at Muzaffargarh

Reference # CED/TFL **33499** (Dr. M Rizwan Riaz)

Dated: 05-07-2019

Reference of the request letter # KSA/MCB-MZFG/18/JU-20

Dated: 27-06-2019

Tension Test Report (Page -1/1)

Date of Test 08-07-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.407	3	0.390	0.11	0.120	4000	5100	80200	73770	102200	94100	0.80	10.0	
2	0.409	3	0.391	0.11	0.120	3600	5200	72200	66010	104200	95400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
 DCRE/RE-1
 Zeeruk International (Pvt) Ltd
 Lahore Sialkot Motorway Project
 Reference # CED/TFL **33500** (Dr. M Rizwan Riaz)
 Reference of the request letter # LSM/RE-II/St/19/327

Dated: 05-07-2019

Dated: 01-07-2019

Tension Test Report (Page – 1/1)

Date of Test 08-07-2019

Gauge length 2 inches

Description Galvanized Corrugated Steel Beam & Galvanized Steel Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Corrugated Steel Beam	2.71x0.28	0.76	3200	3800	4217.19	5007.91	0.50	25.00	
2		2.11x0.28	0.59	2500	3000	4231.55	5077.86	0.60	30.00	
3	Corrugated Steel Beam	2.71x0.28	0.76	3300	4100	4348.97	5403.27	0.50	25.00	
4		2.11x0.28	0.59	2500	3000	4231.55	5077.86	0.60	30.00	
5	Corrugated Steel Beam	2.12x0.28	0.59	2300	3100	3874.66	5222.37	0.60	30.00	
6		2.16x0.28	0.60	2600	3100	4298.94	5125.66	0.60	30.00	
7	Steel Post	2.60x0.71	1.85	7300	9600	3954.50	5200.43	0.60	30.00	
8		2.60x0.71	1.85	7300	9400	3954.50	5092.09	0.60	30.00	
9	Steel Post	2.61x0.71	1.85	7100	9400	3831.42	5072.58	0.60	30.00	
10		2.61x0.71	1.85	7200	9400	3885.38	5072.58	0.65	32.50	
11	Steel Post	2.60x0.71	1.85	7300	9500	3954.50	5146.26	0.65	32.50	
12		2.61x0.71	1.85	7400	9700	3993.31	5234.47	0.65	32.50	
Only Twelve Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
 Project Engineer
 Deeva Developers Pvt. Ltd
 Construction of Zaman Opal, Plot No. 16, Sector-A, Land Breeze Housing Society, Raiwind Road, Lahore

Reference # CED/TFL **33501** (Dr. M Rizwan Riaz)
 Reference of the request letter # ZD/ZO/L/005

Dated: 05-07-2019
 Dated: 04-07-2019

Tension Test Report (Page -1/1)

Date of Test 08-07-2019
 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	0.378	3	0.376	0.11	0.111	3100	4900	62200	61530	98200	97300	1.10	13.8	
2	0.364	3	0.369	0.11	0.107	3100	5100	62200	63900	102200	105200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Chief Resident Engineer, Package-1
 NESPAK
 Construction/ Improvement & Rehabilitation of at Grade Works along Lahore Orange Line
 Metro Train Corridor Construction of Steel Impact Gantries for Stations of Package-1

Reference # CED/TFL **33502** (Dr. M Rizwan Riaz)
 Reference of the request letter # 4042/13/FAM/steel-038

Dated: 05-07-2019
 Dated: 04-07-2019

Tension Test Report (Page -1/1)

Date of Test 08-07-2019
 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	0.413	3	0.393	0.11	0.121	4600	5300	92200	83510	106200	96300	0.90	11.3	Amreli Steel
2	0.418	3	0.395	0.11	0.123	4900	6000	98200	87930	120300	107700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Executive Engineer
 GE (Navy) Lahore
 Construction of 08 X Cpos Flats (G+3) at SRE Land Lahore

Reference # CED/TFL **33504** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6021/138/16/E-6

Dated: 05-07-2019
 Dated: 01-07-2019

Tension Test Report (Page -1/1)

Date of Test 08-07-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.372	3/8	0.373	0.11	0.109	2800	3800	56200	56380	76200	76600	1.70	21.3	
2	0.371	3/8	0.373	0.11	0.109	2700	3800	54100	54510	76200	76800	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue Project, 17-A, Cooper Road, Lahore

Reference # CED/TFL **33505** (Dr. M Rizwan Riaz)
 Reference of the request letter # CONC-20190706

Dated: 08-07-2019
 Dated: 06-07-2019

Tension Test Report (Page -1/1)

Date of Test 08-07-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.367	3	0.371	0.11	0.108	3100	4600	62200	63320	92200	94000	0.90	11.3	
2	0.368	3	0.371	0.11	0.108	2900	4600	58200	59160	92200	93900	1.20	15.0	
3	0.365	3	0.370	0.11	0.107	3200	4700	64200	65720	94200	96600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/07/33507

Dated: 08-07-19

To
M/S Unze Trading (Pvt) Limited
Lahore
(Leasing out MEPCO PC Pole Plant Lodhran)

Subject:- CALIBRATION OF CONCRETE CYLINDER TESTING MACHINE OF 300000 Lbs
(MARK: CED/TFL/07/33507)

Reference to your letter No. UNZE/356/2019, dated: 08/07/2019 on the subject cited above. One Concrete Cylinder Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

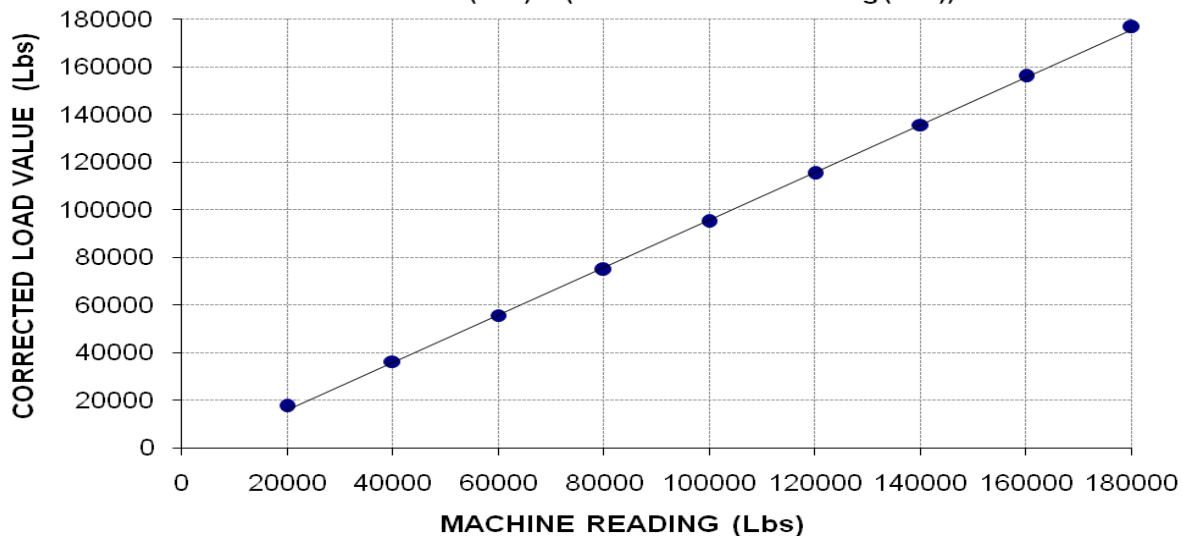
Total Range : Zero - 300000 (Lbs)

Calibrated Rang : Zero - 180000 (Lbs)

Machine Reading (Lbs)	20000	40000	60000	80000	100000	120000	140000	160000	180000
Corrected Load Value (Lbs)	17436	36180	55661	74817	95071	115127	135717	156141	176660

CONCRETE CYLINDER TESTING MACHINE (0-300000 Lbs)

Calibrated Value (Lbs) = (0.997 x Machine Reading (Lbs)) - 3898



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