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/07/35092 Dated: 07-07-2020
Dated of Test: 09-07-2020

To
M/S Baig Construction Co.
Lahore
(Construction of Zee Avenue Ramada Hotel 17-A Cooper Road, Lahore

Subject:- **CALIBRATION OF COMPRESSION TESTING MACHINE**
(MARK: CED/TFL/07/35092) (Page -1/2)

Reference to your letter No. Nil, dated: 07/07/2020 on the subject cited above. One Concrete Compressive Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero – 150000 (kg)
Calibrated Range : Zero – 135000 (kg)

Machine Reading (kg)	Corrected Load Value (kg)	Machine Reading (kg)	Corrected Load Value (kg)	Machine Reading (kg)	Corrected Load Value (kg)
5000	4990	50000	49086	95000	92796
10000	10084	55000	53986	100000	97685
15000	15124	60000	58588	105000	102265
20000	19822	65000	63736	110000	106944
25000	24767	70000	68143	115000	111524
30000	29960	75000	73242	120000	116703
`35000	34826	80000	78097	125000	121451
40000	39544	85000	82853	130000	126200
45000	44389	90000	87807	135000	130898

I/C Testing Laboratoires
UET Lahore, Pakistan.

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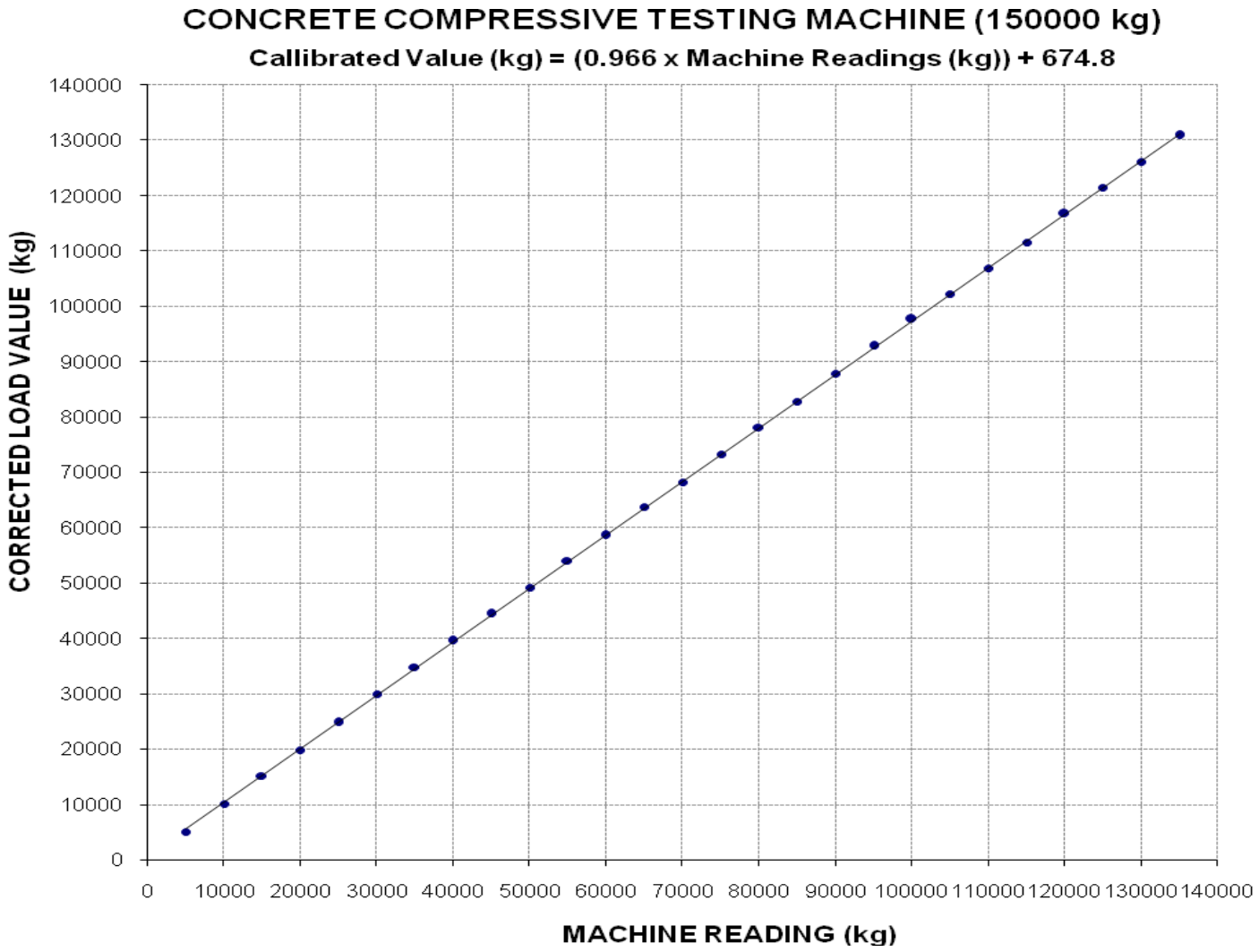
Ref: CED/TFL/07/35092 Dated: 07-07-2020
Dated of Test: 09-07-2020

To
M/S Baig Construction Co.
Lahore
(Construction of Zee Avenue Ramada Hotel 17-A Cooper Road, Lahore

Subject:- **CALIBRATION OF COMPRESSION TESTING MACHINE**
(MARK: CED/TFL/07/35092) (Page -2/2)



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STRUCTURAL ENGINEERING DIVISION

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

To,
Project Director
Banu Mukhtar Contracting (Pvt) Ltd
Construction of Greenfield Manufacturing Plant for Velo, Jhelum

Reference # CED/TFL **35093** (Dr. M Rizwan Riaz) Dated: 07-07-2020
Reference of the request letter # BML-001-Civil-001 Dated: 07-07-2020

Tension Test Report (Page -1/1)

Date of Test 09-07-2020
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	0.374	3	0.374	0.11	0.110	3200	4900	64200	64160	98200	98300	0.80	10.0	Moiz Steel
2	0.373	3	0.374	0.11	0.110	3200	4900	64200	64280	98200	98500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

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

To,
Director Execution (South)
PAEC, Chashma
Construction of Officer Hostel at PNPFC, Wan Bhachran

Reference # CED/TFL **35095** (Dr. M Rizwan Riaz) Dated: 08-07-2020
Reference of the request letter # PD(CH)/WASO/PNPFC/11/19/1336 Dated: 01-07-2020

Tension Test Report (Page -1/1)

Date of Test 09-07-2020
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.373	3/8	0.374	0.11	0.110	3400	5000	68200	68290	100200	100500	1.30	16.3	Al-Moiz Steel (H. No. 1489)
2	0.375	3/8	0.375	0.11	0.110	3500	5100	70200	69910	102200	101900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

3/8" Dia Bar Bend Test Through 180º is Satisfactory

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

To,
Senior Sub Engineer
Town Committee
Mitha Tiwana
(Rehabilitation of Sanitation System at Najmi Chowk Mitha Tiwana District Khushab)

Reference # CED/TFL **35097** (Dr. M Rizwan Riaz) Dated: 08-07-2020
Reference of the request letter # 73/ Dated: 30-05-2020

Tension Test Report (Page -1/1)

Date of Test 09-07-2020
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.329	3/8	0.351	0.11	0.097	2800	4000	56200	63780	80200	91200	1.20	15.0	
2	0.332	3/8	0.353	0.11	0.098	2800	4100	56200	63180	82200	92600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Engineering Associated Precast (Pvt) Ltd
Lahore
(SE/Manager Civil LESCO H/Q Lahore)

Reference # CED/TFL **35098** (Dr. M Rizwan Riaz) Dated: 08-07-2020
Reference of the request letter # EAP/UET/2019-20/2171 Dated: 08-07-2020

Tension Test Report (Page -1/2)

Date of Test 09-07-2020
Gauge length 8 inches
Description Spiral Wire Tensile Test

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	0.148	5`	4.90	--------	18.8	1000	1500	521	781	0.20	2.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
M/S Engineering Associated Precast (Pvt) Ltd
Lahore
(SE/Manager Civil LESCO H/Q Lahore)

Reference # CED/TFL **35098** (Dr. M Rizwan Riaz) Dated: 08-07-2020
Reference of the request letter # EAP/UET/2019-20/2171 Dated: 08-07-2020

Tension Test Report (Page -2/2)

Date of Test 09-07-2020
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**432.0**	**440.0**	**--------**	**-------**	**6500**	**63.77**	**<3.50 Not ok**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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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

To,
The Engineer (SFMKBIC-D. G Khan)
Infrastructure Development Authority of The Punjab
Establishment of SFMKB Institute of Cardiology D.G. Khan

Reference # CED/TFL **35100** (Dr. Safeer Abbas) Dated: 08-07-2020
Reference of the request letter # PD(DGKIC)/IDAP/2020/10302 Dated: 03-07-2020

Tension Test Report (Page -1/1)

Date of Test 09-07-2020
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	0.377	3	0.376	0.11	0.111	3800	4900	76200	75490	98200	97400	1.00	12.5	Pak Steel
2	0.381	3	0.378	0.11	0.112	3800	5000	76200	74830	100200	98500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

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

To,
M/S Izhar Concrete (Pvt) Ltd
New Garden Town, Lahore

Reference # CED/TFL **35102** (Dr. M Rizwan Riaz) Dated: 08-07-2020
Reference of the request letter # Nil Dated: 08-07-2020

Tension Test Report (Page -1/1)

Date of Test 09-07-2020
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.365	3/8	0.369	0.11	0.107	3800	4800	76200	78170	96200	98800	1.00	12.5	
2	0.371	3/8	0.373	0.11	0.109	4100	5200	82200	82870	104200	105100	0.80	10.0	
3	0.374	3/8	0.374	0.11	0.110	3800	4900	76200	76200	98200	98300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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