



**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/12/37480  
Dated of Test: 14-12-2021

Dated: 06-12-2021

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/12/37480) (Page -1/2)

Reference to your letter No. CBT/UET/01, dated: 06/12/2021 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)
10000	8206	80000	68086
20000	16658	90000	76595
30000	24901	100000	85312
40000	33342	110000	94271
50000	42329	120000	102814
60000	51028	130000	111098
70000	59519	135000	115704

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

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Ref: CED/TFL/12/37480  
Dated of Test: 14-12-2021

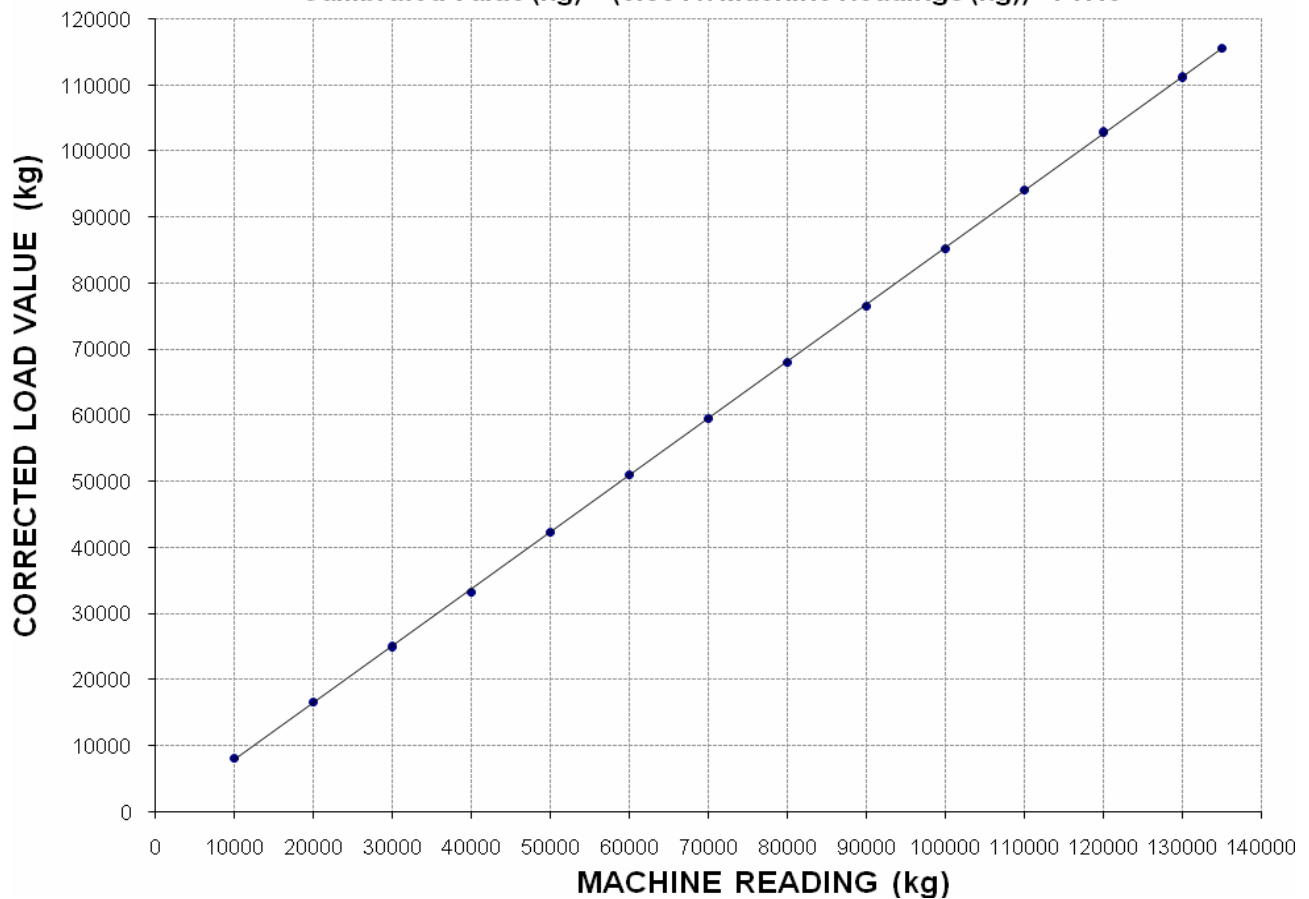
Dated: 06-12-2021

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/12/37480) (Page -2/2)

**CONCRETE COMPRESSIVE TESTING MACHINE (150000 kg)**

$$\text{Calibrated Value (kg)} = (0.861 \times \text{Machine Readings (kg)}) - 747.5$$



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Ref: CED/TFL/12/37501

Dated: 10-12-2021

Dated of Test: 14-12-2021

**To**  
**Resident Engineer**  
**NESPAK**  
**Metropolitan Corporation Lahore (MCL Project)**  
**(Construction of Nallah and PCC Main Road Fared Town Azra Naheed College Arraiyan Lahore)**

**Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -1/2)**

Reference to your letter No. 4084/103/BSAM/104/555, dated 16-11.2021  
on the subject cited above. One R.C.C. Pipe as received by us has been tested. The  
results are tabulated as under.

<b>Sr. No</b>	<b>Nominal Size</b>	<b>Total Length</b>	<b>Loaded Length</b>	<b>External Diameter</b>	<b>Internal Diameter</b>	<b>Wall Thickness</b>	<b>Proof load</b>	<b>Ultimate Load</b>	<b>Proof Stress</b>	<b>Ultimate Stress</b>
	<b>(inch)</b>	<b>(foot)</b>	<b>(foot)</b>	<b>(foot)</b>	<b>(foot)</b>	<b>(inch)</b>	<b>(kg)</b>	<b>(kg)</b>	<b>Pound/Linear foot/foot</b>	<b>Pound/Linear foot/foot</b>
<b>1</b>	<b>18</b>	<b>7.77</b>	<b>7.36</b>	<b>1.90</b>	<b>1.51</b>	<b>2.35</b>	<b>5300</b>	<b>11000</b>	<b>1051</b>	<b>2180</b>

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Ref: CED/TFL/12/37501

Dated: 10-12-2021

Dated of Test: 14-12-2021

**To**  
**Resident Engineer**  
**NESPAK**  
**Metropolitan Corporation Lahore (MCL Project)**  
**(Construction of Nallah and PCC Main Road Fared Town Azra Naheed College Arraiyan Lahore)**

**Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/2)**

Reference to your letter No. 4084/103/BSAM/104/556, dated 16-11.2021

on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	24	7.84	7.18	2.52	2.07	2.69	5920	8830	877	1307

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To,  
 Chief Resident Engineer  
 Project Implementation Consultants (PICs)  
 Jalalpur Irrigation Project (JIP)

Reference # CED/TFL **37506** (Dr. M Rizwan Riaz)  
 Reference of the request letter # JIP/TECH/CRE/P-2/15

Dated: 13-12-2021  
 Dated: 13-12-2021

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

Date of Test 14-12-2021  
 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 <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	0.395	3	0.385	0.11	0.116	3500	4600	70200	66420	92200	87300	1.40	17.5	Pak Steel
2	0.393	3	0.383	0.11	0.116	3700	4800	74200	70610	96200	91600	1.00	12.5	
3	4.275	10	1.265	1.27	1.257	44400	58400	77100	77880	101400	102500	1.20	15.0	
4	4.242	10	1.260	1.27	1.247	43800	58400	76100	77430	101400	103300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Manager Construction – S-II  
 Allied Bank Limited  
 Engineering Cell, Multan  
 (Construction Project Allied Bank Limited Chunian Branch (774), Region Sahiwal)

Reference # CED/TFL **37508** (Dr. M Rizwan Riaz)

Dated: 13-12-2021

Reference of the request letter # GHQ/S2/CRM/MA/2021/424

Dated: 07-12-2021

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

Date of Test 14-12-2021

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	0.391	3/8	0.383	0.11	0.115	3400	4900	68200	65130	98200	93900	1.50	18.8	Ittefaq Steel
2	0.391	3/8	0.382	0.11	0.115	3400	4900	68200	65220	98200	94000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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