



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

To,
Deputy CRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project

Reference # CED/TFL **34096** (Engr. Rehan Ashraf)
Reference of the request letter # LSM/RE-II/St/19/680

Dated: 30-10-2019
Dated: 29-10-2019

Tension Test Report (Page – 1/1)

Date of Test 06-10-2019
Gauge length 2 inches
Description W- Beam & 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
	-----	(cm)	(cm ²)	(kg)	(kg)	(kg/cm ²)	(kg/cm ²)	(in)		
1	Steel Beam	2.47x0.27	0.67	2200	2800	3298.85	4198.53	0.50	25.00	S # 1
2		2.46x0.27	0.66	2500	3300	3763.93	4968.38	0.55	27.50	
3	Steel Beam	2.45x0.30	0.74	2600	3400	3537.41	4625.85	0.50	25.00	S # 2
4		2.44x0.30	0.73	2200	3200	3005.46	4371.58	0.60	30.00	
5	Steel Post	2.46x0.72	1.77	5300	7600	2992.32	4290.88	0.70	35.00	S # 1
6		2.46x0.71	1.75	5400	7500	3091.72	4294.06	0.70	35.00	
7	Steel Post	2.44x0.71	1.73	5500	7500	3174.79	4329.25	0.70	35.00	S # 2
8		2.44x0.72	1.76	5300	7400	3016.85	4212.20	0.75	37.50	
Only Eight Samples for Tensile Test										
Bend Test										

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



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Ref: CED/TFL/11/34123

Dated: 04-11-19

Dated of Test: 06-11-19

To
Resident Engineer
Associated Consulting Engineers - ACE (Pvt) Ltd
PGSHP, Rakh Dhamial, Rawalpindi

Subject: TESTING OF PRECAST COLUMN (Page – 1/2)

Reference to your letter No. ACE/RE ?UET/167, dated 30.10.2019 on the subject cited above. One Precast Column as received by us has been tested in Flexure (Two point loading). The results are tabulated as under.

Sr. No.	Length 'L'	Depth 'D'	Flange Width W_f	Flange Thickness ' t_f '	Web Thickness ' t_w '	Load 'P'	
	(ft)	(inch)	(inch)	(inch)	(inch)	Proof Load (kN)	Ultimate Load (kN)
1	11	7.00	3.45	2.11	2.40	6.35	13.00

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Dated of Test: 06-11-19

To
Resident Engineer
Associated Consulting Engineers – ACE (Pvt) Ltd
PGSHP, Rakh Dhamial, Rawalpindi

Subject: TESTING OF RCC Plank (Page – 2/2)

Reference to your letter No. ACE/RE ?UET/167, dated 30.10.2019 on the subject cited above. One RCC Plank as received by us has been tested in Flexure (Two point loading). The results are tabulated as under.

Sr. No.	Length 'L'	Width	Thickness	Load 'P'
	(ft)	(inch)	(inch)	Ultimate Load (kN)
1	11	11.81	1.79	1.05

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/11/34136

Dated: 05-11-19

Dated OF Test: 06-11-19

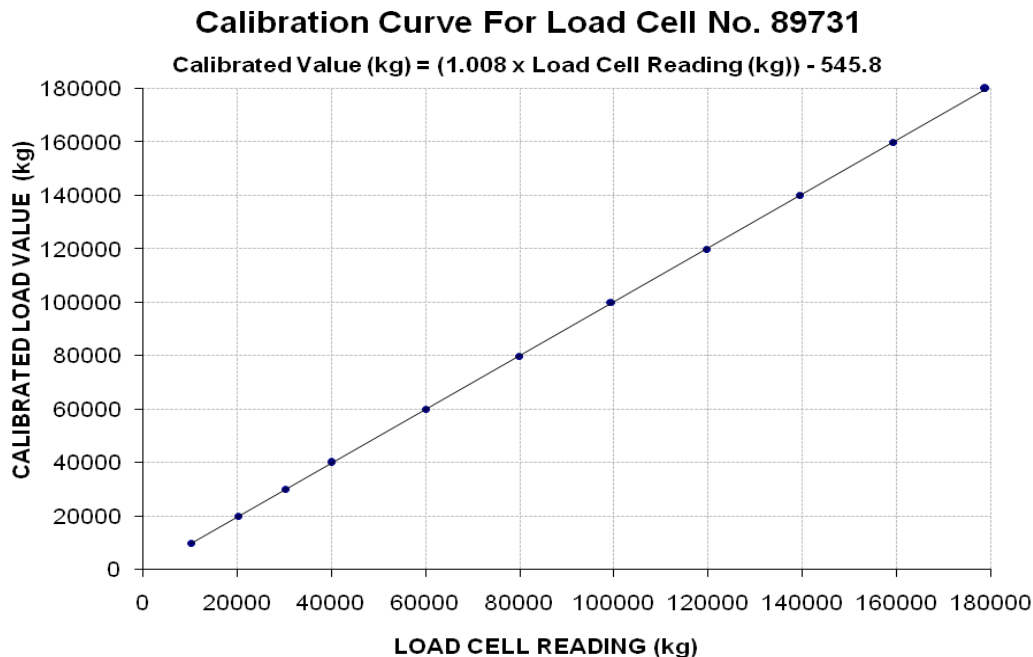
To,
M/S Direct Line Engineering
Lahore

Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/11/34136)

Reference to your Letter No. DLE/M-11/CAL-OS/029, dated: 05/11/2019 on the subject cited above. One Load Cell (Sr. No. 89731)(BLH Electronics USA) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 200000 (kg)
Calibrated Range : Zero - 180000 (kg)

Load Cell Reading (kg)	10365	20300	30355	40165	60225	79940	99550	119660	139410	159270	178905
Calibrated Load (kg)	10000	20000	30000	40000	60000	80000	100000	120000	140000	160000	180000



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