



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

To,

Team Leader
HA Consulting
Construction of Central Building in I.T Park at Paf Air Base, Lahore

Reference # CED/TFL **4099** (Dr. M Rizwan Riaz)
Reference of the request letter # 23/HAC/NASTP/0721

Dated: 24-10-2023
Dated: 12-10-2023

Tension Test Report (Page – 1/2)

Date of Test 06-11-2023
Gauge length 2 inches
Description H-Beam & I-Beam Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	H-Beam	250x250x10x11	27.20x15.30	416.16	13800	22400	325	528	0.80	40.00	
2	I-Beam	500x200x10x16	27.20x9.90	269.28	7800	12500	284	455	0.90	45.00	
3	I-Beam	610x229x12x20	27.20x13.60	369.92	11300	17200	300	456	0.80	40.00	
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-	-		-	-	-	-	-	-	-	-	
Only Three Samples for Tensile Test											
Bend Test											

Witness by Usman Atta

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Construction of Central Building in I.T Park at Paf Air Base, Lahore

Reference # CED/TFL **4099** (Dr. M Rizwan Riaz)

Dated: 24-10-2023

Reference of the request letter # 23/HAC/NASTP/0721

Dated: 12-10-2023

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

Date of Test 06-11-2024

Description H-Beam & I-Beam Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (bf)	Flange Thickness (tf)	Web Thickness (tw)	Remark
	(mm)									
1	H-Beam	250x250x10x11	9221	101.30	91.03	256.00	253.00	15.97	15.30	
2	I-Beam	500x200x10x16	8495	102.00	83.28	498.00	198.90	14.70	10.00	
-	I-Beam	610x229x12x20	14306	101.10	141.50	620.00	229.20	22.00	13.60	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Test										

Witness by Usman Atta

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Deputy Director (Maint)
NHA, Waziraba

“Provision of Motorcyclist Ramp with Existing Steel Overhead Bridge at km 1340-1341
(Rahwali Cantt) on N-5”

Reference # CED/TFL **4112** (Dr. M Rizwan Riaz)

Dated: 26-10-2023

Reference of the request letter # Gen/DD(Maint)/WZD/NHA/2023/1134

Dated: 16-10-2023

Tension Test Report (Page – 1/2)

Date of Test 06-11-2023

Gauge length 2 inches

Description Structural Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)									
1	H-Section	150x150	29.90x9.95	297.51	11500	14900	379	491	0.80	40.00	
2	Angle	75x75	25.70x6.20	159.34	5700	8900	351	548	0.70	35.00	
3	Channel	150x75	25.40x6.40	162.56	6100	9000	368	543	0.70	35.00	
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-	-		-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	-	
Only Three Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,

Deputy Director (Maint)
NHA, Waziraba

“Construction of Additional Motorcycle Ramp at km 1346-1347 (Mandi Stop) at Ghakhar Urban Area on GT Road, N-5”

Reference # CED/TFL **4112** (Dr. M Rizwan Riaz)

Dated: 26-10-2023

Reference of the request letter # Gen/DD(Maint)/WZD/NHA/2023/1135

Dated: 16-10-2023

Tension Test Report (Page – 2/2)

Date of Test 06-11-2023

Gauge length 2 inches

Description Structural Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)			
1	H-Section	150x150	29.90x9.80	293.02	11000	15000	368	502	0.80	40.00	
2	Angle	75x75	29.70x5.90	175.23	6400	9300	358	521	0.70	35.00	
3	Channel	150x75	26.40x6.10	161.04	5600	8900	341	542	0.80	40.00	
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-	-		-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	-	
Only Three Samples for Tensile Test											
Bend 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

Ref: CED/TFL/10/4114
Dated of Test: 06-11-2023

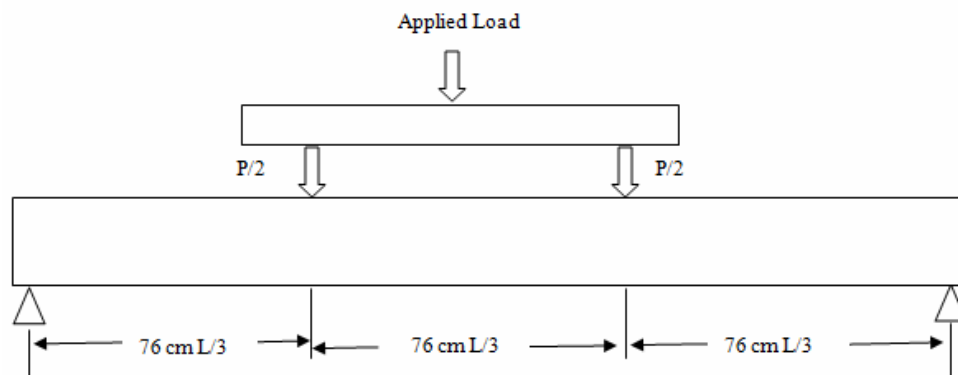
Dated: 26-10-2023

To
M/S Al Muhandes Engineering Solution
Karachi
(Unilever Food Lahore)

Subject: **TESTING OF RCC SLAB** (Page – 1/2)

Reference to your letter No. Nil, dated 26.10.2023 on the subject cited above. One Precast Slab (8' x 1' x 2") as received by us has been tested in Flexure (Four point loading). The results are tabulated as under.

Total Length	:	242.50 cm
Effective Length	:	228.00 cm
Width	:	29.50 cm
Thickness	:	4.51 cm
Ultimate Load	:	1 kN
Ultimate Moment	:	0.38 kN-m



I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
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Ref: CED/TFL/10/4114
Dated of Test: 06-11-2023

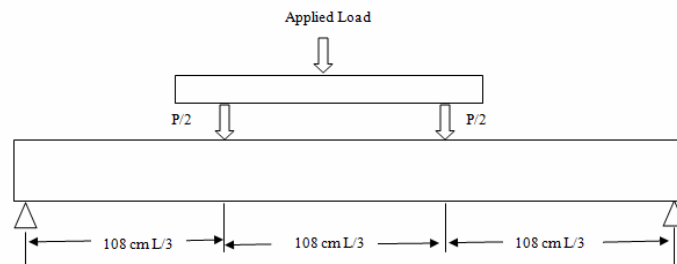
Dated: 26-10-2023

To
M/S Al Muhandes Engineering Solution
Karachi
(Unilever Food Lahore)

Subject: **TESTING OF RCC SLAB** (Page – 2/2)

Reference to your letter No. Nil, dated 26.10.2023 on the subject cited above. One Precast Girder (9' x 7" x 2") as received by us has been tested in Flexure (Four point loading). The results are tabulated as under.

Total Length	:	335.40 cm
Effective Length	:	224.00 cm
Depth	:	16.50 cm
Flange Width	:	15.40 cm
Flange Thickness	:	5.44 cm
Web Thickness	:	5.43 cm
Ultimate Load	:	15 kN
Ultimate Moment	:	8.10 kN/m



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Chief Resident Engineer
 UMDS Consultants
 JV (Mincinsult, CEC and Jers)
 Punjab Intermediated Cities Improvement Investment Program (PICIP)
 NCB-Works / PICIP-04: Road Upgradation , Lot-94: Construction of Flyover in Sialkot.

Reference # CED/TFL **4153** (Dr. Rizwan Azam)

Dated: 03-11-2023

Reference of the request letter # CRE/UMDS-JV/LOT-4/SKT/115

Dated: 31-10-2023

Tension Test Report (Page -1/1)

Date of Test 06-11-2023

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	4.221	10	1.257	1.27	1.241	34900	56200	60600	62000	97600	99900	1.50	18.8	Aziz Steel
2	4.215	10	1.256	1.27	1.239	34600	54800	60100	61560	95200	97500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Iqbal Majid (M.E UMDS Consultants)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Assistant Resident Engineer
 NESPAK – EPCM-PICIIP
 Punjab Intermediated Cities Improvement Investment Program (PICIIP)
 Consultancy Services for Engineering, Procurement and Construction Management
 Parking Sheds in Sahiwal & Sialkot (NCB-WORKS/PICIIP-27)

Reference # CED/TFL **4154** (Dr. M Rizwan Riaz)

Dated: 03-11-2023

Reference of the request letter # 3976/11/FA/SWL/Sheds/01/427

Dated: 02-11-2023

Tension Test Report (Page -1/1)

Date of Test 06-11-2023

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	0.376	3	0.375	0.11	0.111	4100	5300	82200	81740	106200	105700	1.20	15.0	Sheikhoo Steel
2	0.374	3	0.374	0.11	0.110	4100	5200	82200	82270	104200	104400	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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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Paidar Builders (Pvt) Ltd.
 Lahore
 (Construction of TCF Primary School Unit – I Kot Addu Muzaffargarh.)

Reference # CED/TFL **4159** (Dr. M Rizwan Riaz)
 Reference of the request letter # PBL/UET/2023-497

Dated: 06-11-2023
 Dated: 04-11-2023

Tension Test Report (Page -1/1)

Date of Test 06-11-2023
 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	0.369	3/8	0.372	0.11	0.109	3500	4900	70200	71060	98200	99500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 M/S Four Star Naru Construction Company
 (Rehabilitation of 36" RCC Pipe Line , Stadium Road Daska.)

Reference # CED/TFL **4164** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 06-11-2023
 Dated: 06-11-2023

Tension Test Report (Page -1/1)

Date of Test 06-11-2023
 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	0.365	3	0.370	0.11	0.107	3000	4600	60200	61660	92200	94600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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