



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

To,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **34861** (Dr. Qasim Khan)
 Reference of the request letter # DB-78/DAR/RE/ME/2020/0217

Dated: 24-04-2020
 Dated: 20-04-2020

Tension Test Report (Page – 1/3)

Date of Test 04-05-2020
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	MS Angle	5"x5"x1/2"	24.30x12.70	308.61	9900	16400	314.70	521.32	0.70	35.00	
2		5"x5"x1/2"	24.30x12.70	308.61	10600	16700	336.95	530.85	0.70	35.00	
3	MS I-Beam	8"x4"	26.40x7.90	208.56	7200	11500	338.67	540.92	0.70	35.00	
4		8"x4"	26.40x7.90	208.56	7300	11600	343.37	545.63	0.65	32.50	
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-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Reference of the request letter # DB-78/DAR/RE/ME/2020/0217

Dated: 24-04-2020
Dated: 20-04-2020

Weight & Size Test Report (Page – 2/3)

Date of Test 04-05-2020
Gauge length -----
Description MS Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	5x5x1/2	14711	61.00	24.12	129.00	128.00	12.70	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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Dated: 24-04-2020
Dated: 20-04-2020

Weight & Size Test Report (Page – 3/3)

Date of Test 04-05-2020
Gauge length -----
Description MS I-Beam Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (br)	Flange Thickness (tr)	Web Thickness (tw)	Remark
	(inch)	(g)	(cm)	(kg/m)	mm	mm	mm	mm	
1	8x4	16730	61.00	27.43	206.00	102.50	10.50	7.90	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One Sample for Test									

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,
M/S Rajput Concrete Pvt Ltd
Lahore

Reference # CED/TFL **34873** (Dr. Qasim Khan)
Reference of the request letter # RC/UET/18-3

Dated: 28-04-2020
Dated: 18-03-2020

Tension Test Report (Page -1/3)

Date of Test 29-04-2020
Gauge length 8 inches
Description MS Plain 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	0.152	5	4.97	-----	19.4	1000	1160	506	587	0.20	2.5	
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Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,
M/S Rajput Concrete Pvt Ltd
Lahore

Reference # CED/TFL **34873** (Dr. Qasim Khan)
Reference of the request letter # RC/UET/18-3

Dated: 28-04-2020
Dated: 18-03-2020

Tension Test Report (Page -2/3)

Date of Test 29-04-2020
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	435.0	9900	97.12	10900	106.93	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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Ref: CED/TFL/04/34873

Dated: 28-04-2020

Dated of Test: 04-05-2020

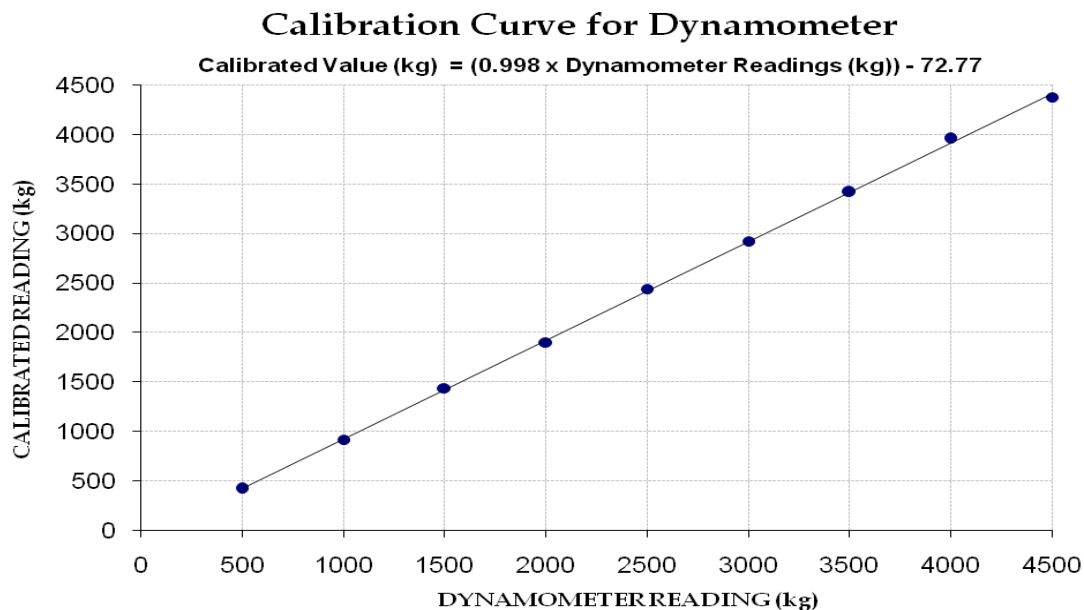
To
M/S Rajput Concrete Pvt Ltd
Lahore

Subject: - **CALIBRATION OF DYNAMOMETER (MARK: TFL/04/34873)** (Page -3/3)

Ref: Your letter No. RC/UET/Dyn/18-3, dated: 18/03/2020 on the subject cited above. One Dynamometer (DILLON U.S.A) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 5000 (kg)
Calibrated Range : Zero - 4500 (kg)

Dynamometer Readings (kg)	500	1000	1500	2000	2500	3000	3500	4000	4500
Calibrated Readings (kg)	420	920	1440	1900	2440	2920	3420	3960	4380



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UET Lahore, Pakistan.

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Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
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To,
 Assistant Engineer/SDO (Civil)
 University of Okara
 (Construction of Academic Block-II at University of Okara)

Reference # CED/TFL **34874** (Dr. Waseem Abbass)
 Reference of the request letter # UO/Engg.Cell/2020/795

Dated: 29-04-2020
 Dated: 29-04-2020

Tension Test Report (Page -1/1)

Date of Test 04-05-2020

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	0.391	3	0.383	0.11	0.115	3700	4900	74200	70890	98200	93900	1.20	15.0	FF Steel
2	0.389	3	0.382	0.11	0.114	3600	4800	72200	69340	96200	92500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Assistant Engineer/SDO (Civil)
 University of Okara
 (Finishing of Ground Floor and Construction of First Floor at Service, University of Okara)

Reference # CED/TFL **34875** (Dr. Waseem Abbass)
 Reference of the request letter # UO/Engg.Cell/2020/801-C

Dated: 29-04-2020
 Dated: 29-04-2020

Tension Test Report (Page -1/1)

Date of Test 04-05-2020

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	0.110	3700	5200	74200	73860	104200	103800	0.90	11.3	FF Steel
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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 Laboratories
UET Lahore, Pakistan.

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To,
 Assistant Engineer/SDO (Civil)
 University of Okara
 (Construction of Academic Block Part B, University of Okara)

Reference # CED/TFL **34878** (Dr. Qasim Khan)
 Reference of the request letter # UO/Engg.Cell/2020/707

Dated: 29-04-2020
 Dated: 02-03-2020

Tension Test Report (Page -1/1)

Date of Test 04-05-2020

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	0.374	3	0.374	0.11	0.110	3700	5200	74200	74270	104200	104400	1.10	13.8	FF Steel
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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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To,
 Director General
 Pakistan Rangers (Punjab)
 (Construction of Troops Married Accommodation at Headquarters Pakistan Rangers (Punjab)
 Lahore)

Reference # CED/TFL **34879** (Dr. Qasim Khan)
 Reference of the request letter # 2289/Works/Misc/581/2020

Dated: 30-04-2020
 Dated: 28-04-2020

Tension Test Report (Page -1/1)

Date of Test 04-05-2020

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	0.392	3/8	0.383	0.11	0.115	-----	7800	-----	-----	156300	149100	0.50	6.3	
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Note: only one sample for tensile test														
Bend Test														

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To,
 Project Manager
 Dupak Properties (Pvt) Ltd
 Defence view Apartments at Shanghai Road, Lahore

Reference # CED/TFL **34880** (Dr. Waseem Abbass)
 Reference of the request letter # Dupak/DVA/045

Dated: 04-05-2020
 Dated: 30-04-2020

Tension Test Report (Page -1/1)

Date of Test 04-05-2020
 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	0.375	3	0.375	0.11	0.110	3100	5000	62200	61920	100200	99900	1.20	15.0	
2	0.379	3	0.377	0.11	0.111	3200	5000	64200	63270	100200	98900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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