

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

To, Chief Material Engineer MM Pakistan (Pvt) Ltd Pachawar Sustanable Bus

Peshawar Sustanable Bus Rapid Transit Corridor Project Reach-III

(Alcon)

Reference # CED/TFL **32348** (Dr. Usman Akmal) Dated: 02-01-2019 Reference of the request letter # MMP/BRT/PSH/17 Dated: 29-12-2018

Tension Test Report (Page - 1/1)

Date of Test 08-01-2019 Gauge length 2 inches

Description Aluminium Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	(X) Yield load	Breaking C Load	(MPa)	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(111111)	(KIV)	(KIV)	(MFa)	(MFa)	(in)		
1	Aluminium	25.80x2.00	51.60	10.06	11.37	194.96	220.35	0.25	12.50	
2	Aluminium	25.80x2.00	51.60	10.05	11.37	194.77	220.35	0.25	12.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
			Only Tv	vo Sample	es for Ten	sile Test			•	
				Bend	Test					

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,
Chief Material Engineer
MM Pakistan (Pvt) Ltd
Peshawar Sustanable Bus Rapid Transit Project Reach-III
(Ittehad Aluminium Industries)
Reference # CED/TFL 32349 (Dr. Usman Akmal)

Reference # CED/TFL **32349** (Dr. Usman Akmal) Dated: 02-01-2019 Reference of the request letter # RE/MMP/RH-03/BRTPDA/21 Dated: 30-12-2018

Tension Test Report (Page – 1/1)

Date of Test 08-01-2019 Gauge length 2 inches

Description Louver (Aluminium) 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)	(kN)	(kN)	(MPa)	(MPa)	(in)	o`	
1	Louver	19.70x1.50	29.55	4.08	4.60	138.07	155.67	0.20	10.00	
2	(Aluminium)	20.00x1.50	30.00	4.17	5.20	139.00	173.33	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
	<u> </u>		Only Tv	vo Sample	es for Ten	sile Test				
				Bend	Test					

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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,
Resident Engineer
G3 Engineering Consultants (Pvt) Ltd
Construction of RCC Bridge Kotli Tattapani Road AJK (By-Pass Slide Intervention) Package #
AK-CW-11

Reference # CED/TFL **32372** (Dr. Waseem Abbas)

Reference of the request letter # FERRP/G3/RE/40

Dated: 04-01-2019

Dated: 03-01-2019

Tension Test Report (Page – 1/1)

Date of Test 08-01-2019 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	_	Break strength (6.	clause	Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa	%	Rema
1	15.24 (0.6")	1102.0	1129.0			22300	218.76		<3.50 Not ok	XX
-	-	-	-	•	-	-	-	-	ı	
-	-	-	-	•	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	•	-	-	-	-		

Only one sample for Test

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

To,
Resident Engineer
RENARDET S.A ((M-4), Package-IIIA)

Construction Supervision of Four Lane Motorway from Faisalabad to Khanewal Project (M-4) 184 km, Package-3A Shorkot – Dinpur Section (31 km)(Nizami Wire)(M/s CGGC)

Reference # CED/TFL **32375** (Dr. Ali Ahmed) Dated: 04-01-2019 Reference of the request letter # RSA/M-4/3A/2019/268 Dated: 04-01-2019

Tension Test Report (Page -1/1)

Date of Test 08-01-2019

Gauge length -----

Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking	g Load	Remarks
	(mm)	(kg)	(kN)	
1	3.30	800	7.85	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
	Only	One Sample for T	Γest	•

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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 ProMag (Pvt) Ltd Site Office – DHA, Multan Sector-A (Amreli)

Reference # CED/TFL **32379** (Dr. Ali Ahmed)

Reference of the request letter # CRE/Sec-A/198

Dated: 07-01-2019

Dated: 05-01-2019

Tension Test Report (Page -1/1)

Date of Test 08-01-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	longation	Remarks
(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
0.431	10	10.20	0.11	0.127	4000	5200	80200	69590	104200	90500	1.20	15.0	
0.428	10	10.17	0.11	0.126	4100	5400	82200	71780	108200	94600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
,		No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							est						
nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							
	(tJ/sqI) 0.431 0.428 - -	(ty/sql) leading leadi	(Ips/ft)	11	(I) IE IE	(kg) 0.431 10 10.20 0.11 0.127 4000 0.428 10 10.17 0.11 0.126 4100 Note: only two samples for the state of the	(kg) (kg) (kg) 0.431 10 10.20 0.11 0.127 4000 5200 0.428 10 10.17 0.11 0.126 4100 5400 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(kg) (kg) <th< td=""><td>(1) Ten of the original bases Ten of the original bases (kg) (kg) (kg) Ten of the original bases T</td><td>(£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£)</td></th<> <td> The late of the</td> <td> The color of the</td> <td> The control of the</td>	(1) Ten of the original bases Ten of the original bases (kg) (kg) (kg) Ten of the original bases T	(£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£) (£)	The late of the	The color of the	The control of the

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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, Resident Engineer PEPAC

Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate, District Kasur

Reference # CED/TFL **32382** (Dr. Ali Ahmed)

Reference of the request letter # SI/PEPAC/Sundar/AB-97

Dated: 07-01-2019

Dated: 03-01-2019

Tension Test Report (Page -1/1)

Date of Test 08-01-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	0.388	3/8	0.381	0.11	0.114	3900	5100	78200	75360	102200	98600	1.00	12.5	
2	0.379	3/8	0.377	0.11	0.111	4000	5000	80200	79170	100200	99000	1.00	12.5	
-		-	-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	Note: only two samples for tensile and one sample for bend test					test					
							Bend T	<u>'est</u>						
3/8	3/8" Dia Bar Bend Test Through 180° is Satisfactory													

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

To, Dy. Genaral Manager Izhar Concrete (Pvt) Ltd Lahore

Reference # CED/TFL **32385** (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 07-01-2019

Dated: 07-01-2019

Tension Test Report (Page -1/1)

Date of Test 08-01-2019 Gauge length 2 inches

Description Tor Steel Bar Tensile and Bend Test as per BS-4461

Sr. No.	Weight	Si	neter/ ze ch)		rea n ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	0.365	3/8	0.369	0.11	0.107	2700	3600	54100	55530	72200	74100	0.60	30.0	
2	0.377	3/8	0.376	0.11	0.111	2500	3500	50100	49760	70200	69700	0.60	30.0	
3	0.383	3/8	0.379	0.11	0.113	2900	4100	58200	56750	82200	80300	0.50	25.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-		-	-	-	-	-	-	-	
			No	te: only	y three	samples	for tensil	e and one	e sample	for bend	test		ı	
2/0	" Die Pe	or Dond	Tost Ti	rough	190° is 9	Satisfacts	Bend T	est						
3/8	3/8" Dia Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires 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 Pak Elektron Limited Ferozepur Road, Lahore (M/s Ali Traders – IGP No. 29403)

Reference # CED/TFL **32386** (Dr. Ali Ahmed)

Reference of the request letter # I & QC

Dated: 07-01-2019

Dated: 07-01-2019

Tension Test Report (Page - 1/1)

Date of Test 08-01-2019 Gauge length 2 inches

Description M.S Sheet Strip Tensile Test

Sr. No.	(mm) Designation	Size of Strip	X Section Area	(kg)	Breaking © Load	MPa)	Ultimate Stress	(ui) Elongation	% Elongation	Remarks
1	3	28.20x3.00	84.60	3200	4200	371.06	487.02	0.35	17.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
		T	Only O	ne Sample	for Tensil	e Test		T		
				Bend '	Гest					

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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 Mian Brothers Precast (Pvt) Ltd 8km- Shahkot Nankana Road, Teh: Shahkot

Reference # CED/TFL **32387** (Dr. Waseen Abbas)

Reference of the request letter # MBP/UET/19/505

Dated: 07-01-2019

Tension Test Report (Page -1/3)

Date of Test 08-01-2019 Gauge length 8 inches

Description Wire Tensile Test

Sr. No.	Weight		neter/ ize	Ar (m)	rea m²)	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)	0%	
1	0.151	5	4.96		19.3		1600		813	0.3	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
					Note: o	nly one sa	mple for	tensile te	st			
							nd Test					

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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 Mian Brothers Precast (Pvt) Ltd

8km- Shahkot Nankana Road, Teh: Shahkot

Reference # CED/TFL **32387** (Dr. Waseen Abbas)

Reference of the request letter # MBP/UET/19/505

Dated: 07-01-2019

Tension Test Report (Page - 2/3)

Date of Test 08-01-2019 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	_	Breal strength (6.2	clause	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		Rema
1	9.53 (3/8")	432.0	456.0	10000	98.10	11300	110.85	>3.50	xx
2	11.11 (7/16")	582.0	585.0	13500	132.44	15000	147.15	>3.50	xx
-	-	-	-	•	-	•	-	-	
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

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

Ref: CED/TFL/01/32387 Dated: 07-01-2019

To,

M/S Mian Brothers Precast (Pvt) Ltd

8km-Shahkot Nankana Road, Teh: Shahkot

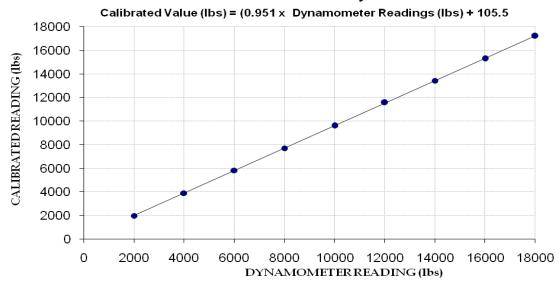
Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/01/32387)

Ref: Your letter No. MBP/UET/19/506, dated: 07/01/2019 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 20000 (lbs) Calibrated Range : Zero - 18000 (lbs)

Dynamometer Reading	s (lbs)	2000	4000	6000	8000	10000	12000	14000	16000	18000
Calibrated Boadings	(N)	8850	17400	25925	34250	42725	51500	59750	68000	76600
Calibrated Readings	(lbs)	1989	3912	5828	7699	9605	11577	13432	15286	17220

Calibration Curve for Dynamometer



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

To, Project Director GEPCO Ltd Gujranwala

Reference # CED/TFL **32390** (Dr. Ali Ahmed)

Reference of the request letter # 60/EB

Dated: 08-01-2019

Dated: 04-01-2019

Yield Test Report (Page -1/2) Date of Test 08-01-2019

Gauge length -----

Description Pin Yield Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(inch)	(in ²)	(kg)	(kg)	(Psi)	(Psi)	(inch)	% F	R
1	1.256	0.94	0.69	31500		100644				
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	•	-	-	-	•	-	•	
			Not	e: only one	sample for	tensile tes	t			
-	-	-	-		-				-	
				I	Bend Test					

Witness by Shahid Haider (PD. Constn. GEPCO)

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, Project Director GEPCO Ltd Gujranwala

Reference # CED/TFL **32390** (Dr. Ali Ahmed)

Reference of the request letter # 60/EB

Dated: 08-01-2019

Dated: 04-01-2019

Yield Test Report (Page -2/2)
Date of Test 08-01-2019

Gauge length -----

Description Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
		(inch)		(kg)	(kg)	(Psi)	(Psi)	(in)		
1	Steel Strip	1.06x0.19	0.202	6200		67665				
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	•	-	-	•	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Dec 175 d										
Bend Test										

Witness by Shahid Haider (PD. Constn. GEPCO)

I/C Testing Laboratoires UET Lahore, Pakistan.

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