



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

To,
 Chief Resident Engineer
 Osmani & Co. (Pvt) Ltd
 Swat Motorway Project

Reference # CED/TFL **33545** (Dr. Ali Ahmed)
 Reference of the request letter # 309/CRE/QAT/SMP/2019

Dated: 12-07-2019
 Dated: 05-07-2019

Tension Test Report (Page – 1/1)

Date of Test 25-07-2019
 Gauge length 2 inches
 Description Expansion Joint (Aluminium Alloy) 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)		
1	Aluminium Alloy	17.10x6.10	104.31	25.35	30.90	243.03	296.23	0.40	20.00	
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Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 NESPAK
 Development Packages – Quetta City Clearing / Aligning / Extension of Sabzal Road
 (Ambreli Steel)

Reference # CED/TFL **33616** (Dr. Ali Ahmed) Dated: 23-07-2019
 Reference of the request letter # 3962/101/IUK/402 Dated: 18-07-2019

Tension Test Report (Page -1/1)

Date of Test 26-07-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	4.256	32	32.06	1.25	1.251	41800	50600	73722	73650	89242	89200	1.20	15.0	
2	4.261	32	32.08	1.25	1.253	40000	49400	70547	70390	87126	87000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S GHS Construction Co
Township, Lahore

Reference # CED/TFL **33629** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 25-07-2019
Dated: 25-07-2019

Tension Test Report (Page -1/1)

Date of Test 26-07-2019
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 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	0.362	3/8	0.368	0.11	0.106	2800	4100	56200	58030	82200	85000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Orbit Housing
 The Spring Apartment Homes

Reference # CED/TFL **33630** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 25-07-2019
 Dated: 25-07-2019

Tension Test Report (Page -1/1)

Date of Test 26-07-2019
 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	0.417	3	0.395	0.11	0.123	4600	5600	92200	82740	112300	100800	1.10	13.8	
2	0.421	3	0.397	0.11	0.124	4800	5900	96200	85450	118300	105100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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