

DCRE / RE -1,
 Zeeruk International Pvt Ltd. Lahore Sialkot Motorway Project.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: LSMP/RE-1/2018/725
 SOM Lab Ref: CED/SOM/598 (Page-1/1)
 Test: Tension Test & Bend Test
 Sample Type: Deformed Bar(Mughal Steel)

Dated: 04-04-2019
 Dated: 04-04-2019
 Test Specification: ASTM-A-615
 Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.881	25	25.08	491	494	273.20	337.00	557	554	687	683	32.5	200	16.3	
2	3.850	25	24.99	491	490	269.50	332.20	549	550	677	678	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Deputy Director (Q.C.D)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. S Asad Ali Gillani

Client Reference: QCD/ 273-74

SOM Lab Ref: 596(Page-1/1)

Dated: 01-04-2019

Dated: 04-04-2019

Test: Tension Test & Bend Test
Guage Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.661	4	0.497	0.20	0.194	5.27	7.46	58120	59920	82290	84830	1.60	8.0	20.0	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Deputy Director (Q.C.D)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. S Asad Ali Gillani

Client Reference: QCD/ 278-79

SOM Lab 597 (Page-1/1)

Dated: 02-04-2019

Dated: 04-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.605	4	0.476	0.20	0.178	6.12	9.23	67450	75780	101730	114300	0.70	8.0	8.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Dy Dir MTL, Const. of 1-Kanal Villas at DRGCC Club House DHA Ph-6 (M/S Linker Developers Pvt. Ltd.)

Client Reference: 408/241/E/Lab/513/121

SOM Lab Ref: 600(Page-1/1)

Dated: 03-04-2019

Dated: 04-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittefaq Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.643	8	0.995	0.79	0.777	29.36	35.12	81960	83330	98040	99680	1.00	8.0	12.5	
2	2.630	8	0.992	0.79	0.773	27.06	32.95	75560	77220	91980	94000	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk