

Capstone Builders & Engineering (Pvt)
Ltd.

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

Lahore (Project: Musafir Khana Jinah Hospital, Lahore)

Client Reference: nil

SOM Lab 3850(Page-1/1)
Ref: 1/1)

Dated: 15-02-2021

Dated: 15-02-2021

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Amreli Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation
		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	0.601	4	0.475	0.20	0.177	6.27	9.30	69130	78120	102520	115840	1.00	8.0	12.5
2	0.665	4	0.498	0.20	0.195	6.09	9.35	67110	68830	103080	105720	1.20	8.0	15.0
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Shoaib Riaz
Project Incharge, Royal Orchard Sahiwal

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

Client Reference: HRL/ROS/2021/094
Dated: 15-02-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab 3851(Page-1/1)
Ref: 1/1
Dated: 15-02-2021
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	1.421	6	0.730	0.44	0.418	12.74	16.69	63870	67230	83640	88050	1.60	8.0	20.0	
2	1.418	6	0.729	0.44	0.417	15.14	18.76	75880	80060	94020	99200	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	5.96	8.58	65760	67100	94650	96580	1.40	8.0	17.5	
4	0.669	4	0.501	0.20	0.197	5.86	8.31	64640	65620	91610	93010	1.20	8.0	15.0	
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BEND TEST:

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

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

MG Construction And Services
Islamabad

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

Client Reference: nil

SOM Lab 3853(Page-

Ref: 1/1)

Dated: 15-02-2021

Dated: 15-02-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	0.623	4	0.483	0.20	0.183	5.73	8.21	63180	69040	90490	98900	1.30	8.0	16.3	
2	0.620	4	0.481	0.20	0.182	5.81	8.33	64080	70410	91840	100920	1.50	8.0	18.8	
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BEND TEST:

# 4	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, Engg.
Sec I & II, Package -I, LOLMTP LDA, Lahore

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

Client Reference: DD/PKG-I/LOLMTP/LDA/14

SOM Lab 3854(Page-

Ref: 1/1)

Dated: 12-02-2021

Dated: 15-02-2021

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	1.521	6	0.754	0.44	0.447	17.09	21.15	85690	84350	106020	104360	1.30	8.0	16.3	
2	1.477	6	0.743	0.44	0.434	16.28	20.34	81600	82730	101940	103340	1.20	8.0	15.0	
3	0.684	4	0.506	0.20	0.201	7.26	9.09	80040	79640	100270	99770	1.10	8.0	13.8	
4	0.680	4	0.505	0.20	0.200	7.36	9.30	81160	81160	102520	102520	1.10	8.0	13.8	
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BEND TEST:

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

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

Test Performed by: .S. Asad Ali Gillani

Vision Engineering Services,
New Kot Juspat Shahdara Town Lahore

Client Reference No.: Nil

Dated: nil

SOM Lab Ref: CED/SOM/3852 (Page 1/1)

Dated: 15-02-2021

Test Type: Tensile Test

Sample Type: Nut - Bolts (20mm)

Test Specification: ASTM – F-606

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Nut- Bolt (20 x 80mm)	14.2	115.5	729.3	15.0

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

Test Performed by: Dr. M. Irfan ul Hassan

Engr. Ghulam Rasool Domki
Resident Engineer, NESPAK
Dualization & Improvement of old Bannu Road
4 Engineer (FWO), Camp Area SOOR Dag

Reference No.: 3968/OBR/P-01/RE/GRD/920

Dated: 10-02-2021

SOM Lab Ref: CED/SOM/3855(Page-1/1)

Dated: 15-02-2021

Test: Tensile Test, Elongation at Break, Tear Test, Comp Set Test & Hardness Test,

Change in Properties after Heat aging & Reinforce Steel Plate animation

Sample Type: Elastomeric Bearing Pad (M/S Rainbow)

- Tensile Strength, Elongation at Break & Hardness Test

Description	Unit	Before Aging	After aging @100°C.	Standard ASTM
Tensile Strength	Kgs/cm ²	374.5	376.3	D-412
Elongation at Break	%	540.0	520.0	D-412
Hardness (Shore A)	Point	59.5	64.166	D-2240

-TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 3.0	0.22	73.33

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.10	3.05	3.2

