

Muhammad Javed, RE

Test Performed By: Dr. /Engr.

Nauman  
Khurram

Mascon Associates Jv HA Consulting .(Medical Store Depot, Gurumangat Road Lahore)

Client Reference: HA-MAS/RE/MSD/13

**SOM Lab**

Ref: 2643 (Page-1/3)

Dated: 19-07-2023

Dated: 02-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (Kamran Steel)

Gauge Length: 8 inch

Sample Type:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.646	8	0.995	0.79	0.778	24.21	35.27	67590	68630	98470	99980	1.40	8.0	17.5	
2	2.653	8	0.997	0.79	0.780	24.13	35.19	67360	68230	98240	99500	1.50	8.0	18.8	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Javed, RE

Test Performed By: Dr. /Engr.

Nauman  
Khurram

Mascon Associates Jv HA Consulting .(Medical Store Depot, Gurumangat Road Lahore)

Client Reference: HA-MAS/RE/MSD/12

SOM Lab

Ref: 2643 (Page-2/3)

Dated: 19-07-2023

Dated: 02-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (Kamran  
Steel)

Gauge Length: 8 inch

Sample Type:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.461	6	0.739	0.44	0.429	12.92	18.60	64740	66400	93250	95640	1.20	8.0	15.0	
2	1.468	6	0.741	0.44	0.431	12.79	18.52	64130	65470	92840	94780	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Javed, RE

Test Performed By: Dr. /Engr.

Nauman  
Khurram

Mascon Associates Jv HA Consulting .(Medical Store Depot, Gurumangat Road Lahore)

Client Reference: HA-MAS/RE/MSD/11

**SOM Lab**

Ref: 2643 (Page-3/3)

Dated: 19-07-2023

Dated: 02-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (Kamran Steel)

Gauge Length: 8 inch

Sample Type:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.676	4	0.503	0.20	0.199	6.57	9.02	72510	72870	99480	99980	1.10	8.0	13.8	
2	0.675	4	0.502	0.20	0.198	6.49	8.84	71610	72330	97460	98440	1.10	8.0	13.8	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Shahzad Muneer,RE

Test Performed By: Dr. /Engr. Nauman Khurram

G3 Engg Consulting.(Master P/Designning &Resident Type Supv,Strengthening Of Uni Of Narowal)

Client Reference: G3/UON-RE/

SOM Lab

Ref: 2644 (Page-1/1)

Dated: 02-08-2023

Dated: 02-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Agha 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.647	8	0.995	0.79	0.778	22.88	30.91	63890	64880	86290	87620	1.30	8.0	16.3	
2	2.641	8	0.994	0.79	0.776	22.80	31.09	63660	64810	86800	88360	1.50	8.0	18.8	
3	1.478	6	0.743	0.44	0.434	13.73	18.20	68830	69780	91210	92470	1.50	8.0	18.8	
4	1.480	6	0.744	0.44	0.435	13.83	18.35	69340	70140	91970	93030	1.50	8.0	18.8	
5	0.670	4	0.501	0.20	0.197	6.14	7.67	67670	68700	84530	85820	1.00	8.0	12.5	
6	0.672	4	0.501	0.20	0.197	5.78	8.48	63740	64710	93530	94950	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 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](http://www.uet-civil.edu.pk)

Shahzad Muneer,RE

Test Performed By: Dr. /Engr. Nauman Khurram

G3 Engg Consulting.(Master P/Designning &Resident Type Supv,Strengthening Of Uni Of Narowal)

Client Reference: G3/UON-RE/

SOM Lab

Ref: 2645 (Page-1/1)

Dated: 02-08-2023

Dated: 02-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (F.F

Gauge Length: 8 inch

Sample Type: 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.537	6	0.759	0.44	0.452	15.14	19.13	75880	73860	95910	93360	1.30	8.0	16.3	
2	1.499	6	0.749	0.44	0.441	14.53	20.18	72810	72650	101170	100940	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Rana Associates  
Lahore.(Project:- P-160)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 2646 (Page-1/1)

Dated: 02-08-2023

Dated: 02-08-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.470	6	0.742	0.44	0.432	15.36	19.22	77000	78430	96320	98100	1.40	8.0	17.5	
2	1.473	6	0.743	0.44	0.433	15.31	19.16	76750	77990	96060	97610	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	6.95	8.74	76660	77830	96340	97800	1.10	8.0	13.8	
4	0.685	4	0.506	0.20	0.201	7.34	9.12	80940	80530	100610	100110	1.30	8.0	16.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)