

Noman Ali Bhatti

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Manager QA / QC & HSE, Banu Mukhtar Steel (Pvt) Ltd. Lahore

Client Reference: BMS-QA/QC-050/19

Dated: 11-07-2019

SOM Lab Ref: CED/SOM/1086 (Page-2/2)

Dated: 11-07-2019

Test: Tension Test

Test Specification:

ASTM-F-1554

Sample Type: Anchor Bolt

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	2.491	20	20.09	314	317	103.00	146.50	328	325	466	463	37.5	200	18.8	
2	2.504	20	20.15	314	319	110.50	161.00	352	347	512	505	42.5	200	21.3	
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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

Noman Ali Bhatti

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Manager QA / QC & HSE, Banu Mukhtar Steel (Pvt) Ltd. Lahore

Client Reference: BMS-QA/QC-051/19

Dated: 11-07-2019

SOM Lab Ref: CED/SOM/1086 (Page-1/2)

Dated: 11-07-2019

Test: Tension Test

Test Specification:

ASTM-F-1554

Sample Type: Anchor Bolt

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	3.535	24	23.94	380	450	151.50	228.00	399	337	600	507	50.0	200	25.0	
2	3.541	24	23.97	380	451	158.00	233.70	416	351	615	519	40.0	200	20.0	
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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

Project Manager

M/S Zahir Khan & Brothers, Engineers & Constructors (DHA Bahawalpur)

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Client Reference: ZKB/PM/SEC/A-282

Dated: 02-07-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 1083(Page-1/1)

Dated: 11-07-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.675	4	0.502	0.20	0.198	5.81	8.33	64080	64720	91840	92770	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	5.86	8.31	64640	65620	91610	93010	1.10	8.0	13.8	
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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

Z. H. Kazmi
Principal Architect, For Z. H. Kazmi & Associates, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

SOM Lab

Ref: 1084(Page-1/1)

Dated: 08-07-2019

Dated: 11-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.529	8	0.973	0.79	0.743	26.10	32.77	72850	77460	91490	97280	1.00	8.0	12.5	
2	1.510	6	0.752	0.44	0.444	16.59	21.53	83130	82380	107910	106940	0.80	8.0	10.0	
3	0.662	4	0.498	0.20	0.195	6.63	8.38	73070	74940	92400	94770	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Engr. Muhammad Abdullah
Assistant Engineer, B & W Department, U. E. T. Lahore

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: B & W/AEN/1014

Dated: 11-07-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 1085 (Page-1/1)

Dated: 11-07-2019

ASTM-A-615

Deformed

Bar

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.059	5	0.629	0.31	0.311	11.16	14.58	79410	79160	103710	103370	1.10	8.0	13.8	
2	1.078	5	0.635	0.31	0.317	11.13	14.34	79200	77450	102040	99790	1.10	8.0	13.8	
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BEND TEST:

# 5	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

Noman Ali Bhatti
 Manager QA / QC & HSE, Banu Mukhtar Steel (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: BMS-QA/QC-051/19

Dated: 11-07-2019

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 1086(Page-1/1)

Dated: 11-07-2019

ASTM-A-615

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	2.652	8	0.996	0.79	0.779	25.91	33.89	72340	73360	94620	95960	1.40	8.0	17.5	
2	2.649	8	0.995	0.79	0.778	25.86	33.73	72200	73310	94170	95620	1.30	8.0	16.3	
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BEND TEST:

# 8	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.

S. Asad Ali
Gillani

Dy Dir MTL, Const of Kennel Hospital Sector -E, (Extn) DHA, Ph -6 - (M/S FAUZ Engrs)

SOM Lab

Client Reference: 408/241/E/Lab/638

Ref: 1087(Page-1/1)

Dated: 10-07-2019

Dated: 11-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (City 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	2.663	8	0.998	0.79	0.783	22.77	34.93	63580	64150	97530	98400	1.40	8.0	17.5	
2	2.627	8	0.991	0.79	0.772	23.04	35.90	64320	65820	100230	102570	1.20	8.0	15.0	
3	1.474	6	0.743	0.44	0.433	14.50	21.38	72660	73830	107150	108880	0.90	8.0	11.3	
4	1.506	6	0.751	0.44	0.443	15.49	22.07	77670	77140	110620	109870	0.80	8.0	10.0	
5	0.657	4	0.496	0.20	0.193	5.58	8.36	61490	63720	92180	95520	1.20	8.0	15.0	
6	0.657	4	0.496	0.20	0.193	5.61	8.41	61830	64070	92740	96100	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Usman Ali
Project Manager, Maypole Lime Light (Pvt) Ltd.

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

Client Reference: MLL-02

SOM Lab

Ref: 1088(Page-1/1)

Dated: 11-07-2019

Dated: 11-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.518	6	0.754	0.44	0.446	15.60	19.54	78180	77130	97950	96630	1.20	8.0	15.0	
2	1.494	6	0.748	0.44	0.439	14.34	18.01	71890	72060	90290	90490	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Engr. Rana Awais
Resident Engineer, G 3 Engineering Consultants (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: G3/0207/10450

Dated: 11-07-2019

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

Test Specification:
Sample Type:

SOM Lab

Ref: 1089(Page-1/1)

Dated: 11-07-2019

ASTM-A-615

Deformed Bar (Bilal 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	1.481	6	0.744	0.44	0.435	14.90	19.11	74700	75560	95800	96910	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 6	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

Muhammad Imran
Chief Executive, Pyramid Consulting & Engineering Services, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: PCES/59/SGM/TSRB/001

SOM Lab

Ref: 1090(Page-1/1)

Dated: 05-07-2019

Dated: 11-07-2019

Test: Tension Test & Bend test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.631	8	0.992	0.79	0.773	25.30	35.07	70630	72190	97900	100050	1.30	8.0	16.3	
2	2.667	8	0.999	0.79	0.784	23.77	33.66	66370	66870	93970	94690	1.70	8.0	21.3	
3	1.499	6	0.749	0.44	0.441	13.58	19.88	68060	67910	99640	99410	1.30	8.0	16.3	
4	1.491	6	0.747	0.44	0.438	14.32	20.82	71790	72120	104340	104810	1.30	8.0	16.3	
5	0.644	4	0.491	0.20	0.189	6.07	8.69	66890	70780	95770	101350	1.30	8.0	16.3	
6	0.665	4	0.498	0.20	0.195	5.81	8.89	64080	65720	98020	100530	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

