

Naveed Anwar  
Resident Engineer, NESPAK, (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: 4004/03/NA/19/012

SOM Lab

Ref: 364(Page-1/1)

Dated: 25-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Mughal 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	1.489	6	0.747	0.44	0.438	13.71	17.99	68730	69040	90180	90600	1.20	8.0	15.0	
2	1.466	6	0.741	0.44	0.431	13.66	17.94	68470	69900	89930	91810	1.20	8.0	15.0	
3	0.662	4	0.498	0.20	0.195	7.41	9.50	81720	83820	104770	107450	1.00	8.0	12.5	
4	0.662	4	0.498	0.20	0.195	7.19	9.40	79250	81280	103640	106300	1.00	8.0	12.5	
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**BEND TEST:**

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

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

Test Performed By: Dr. /Engr. Bilal A Khokhar

Client Reference: B & W/AEN/769

SOM Lab

Ref: 365,371 (Page-2/2)

Dated: 25-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.663	6	0.789	0.44	0.489	19.16	22.99	96060	86430	115220	103670	1.30	8.0	16.3	
2	1.662	6	0.788	0.44	0.488	19.11	23.01	95800	86380	115320	103980	1.30	8.0	16.3	
3	1.022	5	0.618	0.31	0.300	10.72	12.81	76300	78840	91160	94200	1.20	8.0	15.0	
4	1.029	5	0.620	0.31	0.302	10.83	12.92	77020	79060	91890	94320	0.90	8.0	11.3	
5	0.661	4	0.497	0.20	0.194	6.52	8.38	71940	74170	92400	95260	1.20	8.0	15.0	
6	0.654	4	0.494	0.20	0.192	6.63	8.41	73070	76110	92740	96600	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Nine Samples Received and Tested</b>
# 5	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)

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

Test Performed By: Dr. /Engr. M RizwanRiaz

Client Reference: B & W/AEN/768

SOM Lab

Ref: 365,371 (Page-1/1)

Dated: 25-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.664	6	0.789	0.44	0.489	17.43	21.97	87370	78620	110110	99080	1.20	8.0	15.0	
2	1.653	6	0.787	0.44	0.486	19.27	23.16	96570	87430	116090	105100	1.20	8.0	15.0	
3	1.017	5	0.617	0.31	0.299	11.37	13.43	80860	83840	95510	99030	1.30	8.0	16.3	
4	1.017	5	0.617	0.31	0.299	11.64	13.81	82820	85870	98270	101880	1.40	8.0	17.5	
5	0.652	4	0.494	0.20	0.192	6.70	8.51	73850	76930	93860	97770	1.10	8.0	13.8	
6	0.650	4	0.493	0.20	0.191	6.78	8.63	74750	78280	95210	99700	1.20	8.0	15.0	
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Witnessed By: M Abdullah, AE, (B&W) UET Lahore

**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Nine Samples Received and Tested</b>
# 5	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)

Muhammad Ishaq  
Junior Research Officer-I, Building Research Station, Lahore

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: 154-R/424

SOM Lab

Ref: 366(Page-1/1)

Dated: 25-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar ( Madena 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	2.712	8	1.007	0.79	0.797	23.65	38.09	66020	65450	106350	105410	1.00	8.0	12.5	
2	2.684	8	1.002	0.79	0.789	23.34	37.84	65170	65250	105640	105770	1.20	8.0	15.0	
3	1.517	6	0.754	0.44	0.446	13.02	20.23	65250	64370	101420	100060	1.50	8.0	18.8	
4	1.516	6	0.754	0.44	0.446	12.95	20.10	64890	64020	100760	99400	1.40	8.0	17.5	
5	0.662	4	0.498	0.20	0.195	5.71	9.09	62950	64570	100270	102840	1.20	8.0	15.0	
6	0.683	4	0.506	0.20	0.201	6.17	9.17	68010	67670	101170	100670	1.10	8.0	13.8	
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**BEND TEST:**

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

Muhammad Ishaq  
Junior Research Officer-I, Building Research Station, Lahore

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: 154-R/424

SOM Lab

Ref: 366(Page-2/2)

Dated: 25-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar ( Madena 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	1.542	6	0.759	0.44	0.453	10.72	16.43	53750	52210	82370	80000	1.60	8.0	20.0	
2	1.514	6	0.753	0.44	0.445	11.42	17.04	57230	56590	85430	84470	1.80	8.0	22.5	
3	0.664	4	0.498	0.20	0.195	5.17	7.95	56990	58460	87680	89930	1.30	8.0	16.3	
4	0.665	4	0.498	0.20	0.195	5.05	7.82	55650	57070	86220	88430	1.20	8.0	15.0	
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**BEND TEST:**

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

Engr Muhammad Sohaib.

Test Performed By: Dr. /Engr. Bilal A. Khkohar

Assistant Engineer (Civil), Al Hussain Traders Contractors, (Contract No. TLC- 03-2017)

Client Reference: AHT/TLC-03/1136-39

SOM Lab

Ref: 368(Page-1/2)

Dated: 25-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Fazal 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	3.410	9	1.130	1.00	1.002	39.25	47.35	86560	86380	104430	104220	1.30	8.0	16.3	
2	3.126	9	1.082	1.00	0.919	38.97	47.42	85950	93520	104590	113800	1.10	8.0	13.8	
3	3.315	9	1.114	1.00	0.974	38.04	46.94	83900	86140	103530	106290	1.00	8.0	12.5	
4	3.361	9	1.122	1.00	0.988	38.63	47.52	85210	86240	104810	106080	1.00	8.0	12.5	
5	2.667	8	0.999	0.79	0.784	29.97	35.83	83670	84310	100030	100800	1.20	8.0	15.0	
6	2.658	8	0.997	0.79	0.781	29.05	35.27	81110	82040	98470	99600	1.00	8.0	12.5	
7	2.010	7	0.867	0.60	0.591	19.47	25.94	71570	72660	95360	96810	1.30	8.0	16.3	
8	2.021	7	0.870	0.60	0.594	19.47	26.10	71570	72290	95920	96890	1.30	8.0	16.3	
9	1.483	6	0.745	0.44	0.436	15.29	19.85	76640	77350	99480	100400	1.10	8.0	13.8	
10	1.458	6	0.738	0.44	0.428	15.60	19.75	78180	80370	98970	101750	1.10	8.0	13.8	

Witnessed By: Umar Shabbir, Sub Engineer, NESPAK, Muhammad Sohaib,

**BEND TEST:**

# 9(S. 1,2)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Twenty Samples Received and Tested</b>
# 9(S. 3,4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 8(S. 5,6)	Sample bend through 180 degrees Satisfactorily without any crack	
# 7(S. 7,8)	Sample bend through 180 degrees Satisfactorily without any crack	
# 6(S.9,10)	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)

Engr Muhammad Sohaib.

Test Performed By:

Dr. /Engr. Bilal A. Khkohar

Assistant Engineer (Civil), Al Hussain Traders Contractors, (Contract No. TLC- 03-2017)

Client Reference: AHT/TLC-03/1136-39

SOM Lab

Ref: 368(Page-2/2)

Dated: 25-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Fazal 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	0.664	4	0.498	0.20	0.195	6.14	10.09	67670	69410	111290	114140	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	6.39	10.14	70480	71560	111850	113550	1.10	8.0	13.8	
3	0.670	4	0.501	0.20	0.197	6.37	10.14	70260	71330	111850	113550	1.00	8.0	12.5	
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Witnessed By: Umar Shabbir, Sub Engineer, NESPAK, Muhammad Sohaib,

**BEND TEST:**

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

Farhan Sajid  
Resident Engineer, MASCON Associates, Lahore

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: MASC-RE/PG/18/5071

SOM Lab

Ref: 369 (Page-1/1)

Dated: nil

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar ( Mughal 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	2.645	8	0.995	0.79	0.777	27.12	34.30	75700	76970	95760	97360	1.00	8.0	12.5	
2	2.573	8	0.981	0.79	0.756	24.77	33.66	69160	72270	93970	98200	1.50	8.0	18.8	
3	1.462	6	0.740	0.44	0.430	15.24	19.01	76390	78170	95290	97510	1.10	8.0	13.8	
4	1.463	6	0.740	0.44	0.430	15.34	19.11	76900	78690	95800	98030	1.40	8.0	17.5	
5	0.654	4	0.494	0.20	0.192	6.93	9.14	76440	79620	100830	105030	1.10	8.0	13.8	
6	0.710	4	0.516	0.20	0.209	8.97	10.83	98920	94660	119380	114240	1.00	8.0	12.5	
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**BEND TEST:**

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

Sub Divisional Officer  
Development Sub Division-II, Bahawalnagar

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: 14-  
Dated: 23-02-2019

SOM Lab  
Ref: 370 (Page-1/1)  
Dated: 27-02-2019

Test: Tension Test & Bend Test Test Specification:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.533	6	0.758	0.44	0.451	10.55	16.21	52890	51600	81240	79260	1.80	8.0	22.5	
2	1.522	6	0.754	0.44	0.447	11.82	17.60	59270	58340	88240	86860	1.50	8.0	18.8	
3	0.688	4	0.507	0.20	0.202	5.22	8.21	57560	56990	90490	89590	1.10	8.0	13.8	
4	0.677	4	0.503	0.20	0.199	5.47	8.10	60370	60670	89370	89820	1.20	8.0	15.0	
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**BEND TEST:**

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

Tariq Ilyas,  
Project Manager, Buch International Hospital, Multan

Test Performed By: Dr. /Engr. M RizwanRiaz

Client Reference: BIH/BV/21/2/19/07

SOM Lab 373(Page-  
Ref: 1/2)

Dated: 21-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.571	8	0.981	0.79	0.756	27.62	36.49	77120	80590	101880	106460	1.30	8.0	16.3	
2	2.591	8	0.984	0.79	0.761	27.78	35.88	77550	80500	100170	103990	1.20	8.0	15.0	
3	2.566	8	0.980	0.79	0.754	27.19	36.39	75900	79520	101600	106450	1.50	8.0	18.8	
4	2.536	8	0.974	0.79	0.745	27.90	36.62	77890	82600	102220	108400	1.40	8.0	17.5	
5	1.500	6	0.749	0.44	0.441	14.50	19.01	72660	72490	95290	95080	1.30	8.0	16.3	
6	1.499	6	0.749	0.44	0.441	14.27	19.39	71540	71370	97180	96960	1.30	8.0	16.3	
7	1.500	6	0.749	0.44	0.441	14.63	20.13	73320	73160	100910	100680	1.20	8.0	15.0	
8	1.492	6	0.747	0.44	0.438	15.26	20.39	76490	76840	102190	102660	1.20	8.0	15.0	
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**BEND TEST:**

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

Tariq Ilyas,  
Project Manager, Buch International Hospital, Multan

Test Performed By: Dr. /Engr. M RizwanRiaz

Client Reference: BIH/BV/21/2/19/07

SOM Lab Ref: 373(Page-2/2)

Dated: 21-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.662	4	0.498	0.20	0.195	7.16	8.97	78910	80940	98920	101460	1.00	8.0	12.5	
2	0.650	4	0.493	0.20	0.191	6.60	8.58	72730	76160	94650	99110	1.10	8.0	13.8	
3	0.649	4	0.493	0.20	0.191	6.47	8.58	71380	74750	94650	99110	1.00	8.0	12.5	
4	0.661	4	0.497	0.20	0.194	7.24	8.99	79810	82280	99150	102210	1.10	8.0	13.8	
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**BEND TEST:**

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

Supreme Farms (Pvt) Ltd.  
Lahore

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: nil

SOM Lab 374(Page-

Ref: 1/1)

Dated: 27-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.500	6	0.749	0.44	0.441	18.25	22.09	91460	91250	110720	110470	1.10	8.0	13.8	
2	1.491	6	0.747	0.44	0.438	17.91	21.94	89780	90190	109960	110460	1.20	8.0	15.0	
3	0.637	4	0.488	0.20	0.187	6.65	8.26	73290	78390	91050	97380	1.10	8.0	13.8	
4	0.642	4	0.491	0.20	0.189	6.80	8.58	74980	79340	94650	100160	1.00	8.0	12.5	
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**BEND TEST:**

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

M/S Latif Company & Co.

Test Performed By:

Dr. /Engr. AmnaRajpoot

Model Housing Project in Dream Gardens, Lahore Ph-II

Client Reference: nil

SOM Lab

375(Page-

Ref:

1/1)

Dated: 26-02-2019

Dated:

27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(AFCO 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	1.475	6	0.743	0.44	0.433	14.75	18.86	73940	75130	94530	96060	1.30	8.0	16.3	
2	0.663	4	0.498	0.20	0.195	7.44	9.50	82060	84160	104770	107450	0.90	8.0	11.3	
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**BEND TEST:**

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Usman Akmal

Dy Dir MTL, Const of Mosque at Sector - N, DHA -Ph-VI - (M/S A 2 Z Const)

Client Reference: 408/241/E/Lab/464

SOM Lab

Ref: 377(Page-1/1)

Dated: 27-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (City U. A E.)

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	1.482	6	0.745	0.44	0.436	15.16	21.56	75980	76680	108070	109060	1.30	8.0	16.3	
2	1.488	6	0.746	0.44	0.437	15.34	22.02	76900	77430	110370	111120	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Ubaid A Mughal

Dy Dir MTL, Infra Dev Works of Ph -IX (Pkg- III & IV) - DHA , Lahore - (M/S NLC)

Client Reference: 408/241/E/Lab/462/993

SOM Lab

Ref: 379(Page-1/1)

Dated: 27-02-2019

Dated: 27-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar ( SJ 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	25.79	35.07	72000	73110	97900	99410	1.20	8.0	15.0	
2	2.639	8	0.994	0.79	0.776	27.12	36.44	75700	77070	101740	103570	1.30	8.0	16.3	
3	1.532	6	0.757	0.44	0.450	14.58	20.54	73070	71440	102960	100670	1.20	8.0	15.0	
4	1.512	6	0.752	0.44	0.444	13.97	20.08	70000	69370	100660	99750	1.10	8.0	13.8	
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**BEND TEST:**

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

Royal Real Estate & Builders  
(Pvt) Ltd. Jaranwala

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: nil

SOM Lab

Ref: 380(Page-1/1)

Dated: 27-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.648	8	0.995	0.79	0.778	25.28	34.32	70580	71670	95820	97300	1.20	8.0	15.0	
2	2.658	8	0.997	0.79	0.781	25.69	35.17	71720	72540	98180	99310	1.50	8.0	18.8	
3	1.527	6	0.756	0.44	0.449	13.97	19.93	70000	68600	99890	97890	1.20	8.0	15.0	
4	1.546	6	0.760	0.44	0.454	14.37	20.41	72050	69820	102290	99140	1.30	8.0	16.3	
5	0.658	4	0.496	0.20	0.193	6.01	9.12	66320	68730	100610	104260	1.10	8.0	13.8	
6	0.665	4	0.498	0.20	0.195	6.01	9.07	66320	68020	100050	102610	1.20	8.0	15.0	
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**BEND TEST:**

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

Maj ( R) Mujahid Iqbal  
 DAD (Svcs) Ask-XI Lhr ( Drain & Culvert and Boundary Wall)

Test Performed By: Dr. /Engr. AmnaRajpoot

Client Reference: 504/DADS (Svcs)

SOM Lab

Ref: 381(Page-1/1)

Dated: 22-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.522	6	0.754	0.44	0.447	10.47	15.51	52480	51660	77770	76550	1.40	8.0	17.5	
2	0.613	4	0.479	0.20	0.180	4.38	6.52	48340	53710	71940	79940	1.30	8.0	16.3	
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**BEND TEST:**

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

Sub Divisional Officer  
Public Health Engg: Sub Division, Phoolnagar

Test Performed By: Dr. /Engr. Bial A Khokhar

Client Reference: 354-

SOM Lab

Ref: 382(Page-1/1)

Dated: 20-02-2019

Dated: 27-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.648	4	0.492	0.20	0.190	6.09	9.45	67110	70640	104200	109690	1.40	8.0	17.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-  Only One Sample Received and Tested</b>

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