

Jawad Javaid  
Sr. Engineer, Pakistan Radiation Services, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil  
SOM Lab Ref: CED/SOM/2546-2447(Page-1/1)

Dated: 09-06-2020  
Dated: 09-06-2020

Test: Tension Test Bend Test  
Sample Type: Deformed Steel Bar

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.915	25	25.21	491	499	229.50	336.20	468	460	685	674	35.0	200	17.5	
2	3.934	25	25.26	491	501	230.50	340.00	470	460	693	679	37.5	200	18.8	
3	3.852	25	25.00	491	491	239.70	324.70	488	489	661	662	37.5	200	18.8	
4	3.875	25	25.07	491	494	239.70	326.50	488	486	665	662	40.0	200	20.0	
5	3.814	25	24.87	491	486	228.00	315.20	464	470	642	649	37.5	200	18.8	
6	3.855	25	25.01	491	491	231.50	317.70	472	472	647	647	42.5	200	21.3	
7	2.430	20	19.85	314	310	150.50	206.00	479	487	656	666	32.5	200	16.3	
8	2.418	20	19.80	314	308	148.00	205.50	471	481	654	668	37.5	200	18.8	
9	0.967	12	12.52	113	123	65.20	88.00	576	530	778	715	25.0	200	12.5	
10	0.971	12	12.55	113	124	65.70	88.20	581	532	780	714	30.0	200	15.0	

Witnessed By: Shahid Munir, Jr. Exec (Civil)

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Fifteen Samples Received and Tested</b>
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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  
Buildings Sub Division, Okara

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

Client Reference: 725/SDO/OK

SOM Lab

Ref: 2545 (Page-1/1)

Dated: 28-04-2020

Dated: 09-06-2020

Test: Tension 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	0.646	4	0.492	0.20	0.190	6.01	9.45	66320	69810	104200	109690	1.30	8.0	16.3	
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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)

Jawad Javaid  
Sr. Engineer, Pakistan Radiation Services, Lahore

Test Performed By: Dr. /Engr.

S.Asad Ali Gillani

Client Reference: nil

Dated: 03-09-2019

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 1335(Page-1/1)

Dated: 03-09-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.647	6	0.785	0.44	0.484	11.28	17.30	56560	51420	86710	78830	1.30	8.0	16.3	
2	1.606	6	0.775	0.44	0.472	11.39	17.45	57080	53210	87480	81550	1.40	8.0	17.5	
3	0.648	4	0.492	0.20	0.190	6.03	9.09	66550	70050	100270	105550	1.10	8.0	13.8	
4	0.656	4	0.496	0.20	0.193	6.01	9.09	66320	68730	100270	103910	1.10	8.0	13.8	
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6	2.852	8	1.033	0.79	0.838	7.03	9.60	19640	18520	26810	25280	1.10	8.0	13.8	
7	1.504	6	0.750	0.44	0.442	8.05	9.07	40370	40190	45480	45270	1.00	8.0	12.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-  Only Four 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)

Faisal Hameed  
Resident Engineer, Metroplan-Asian JV, Site Office Talagang Road Mianwali

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-223

SOM Lab

Ref: 2548(Page-1/2)

Dated: 06-06-2020

Dated: 09-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	1.497	6	0.748	0.44	0.440	14.12	18.81	70770	70770	94270	94270	1.10	8.0	13.8	
2	1.495	6	0.748	0.44	0.439	13.46	18.45	67450	67600	92480	92690	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 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)

Faisal Hameed  
Resident Engineer, Metroplan-Asian JV, Site Office Talagang Road Mianwali

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

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-212

SOM Lab

Ref: 2548(Page-2/2)

Dated: 02-06-2020

Dated: 09-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (ALMOIZ & SJ 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	1.584	6	0.770	0.44	0.466	17.64	22.75	88400	83460	114040	107680	1.00	8.0	12.5	ALMOIZ
2	1.571	6	0.767	0.44	0.462	17.64	22.80	88400	84190	114300	108860	1.00	8.0	12.5	ALMOIZ
3	1.580	6	0.769	0.44	0.464	15.24	20.80	76390	72440	104230	98840	1.20	8.0	15.0	SJ
4	1.560	6	0.764	0.44	0.458	15.09	20.66	75620	72650	103570	99500	1.20	8.0	15.0	SJ
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>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)

Muhammad Qasim Bhatti

Test Performed By: Dr. /Engr.

S Asad Ali Gillani

Director, Construction of Hussain Bibi Memorial Cardiac & Hospital Faisalabad

Client Reference: AIC/2020/GW/20

SOM Lab

Ref: 2550(Page-1/1)

Dated: 09-06-2020

Dated: 09-06-2020

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	2.569	8	0.980	0.79	0.755	23.09	32.47	64460	67450	90640	94840	1.10	8.0	13.8	
2	2.521	8	0.971	0.79	0.741	25.86	34.83	72200	76970	97240	103670	1.30	8.0	16.3	
3	1.487	6	0.746	0.44	0.437	15.90	19.42	79710	80260	97340	98010	1.00	8.0	12.5	
4	1.517	6	0.754	0.44	0.446	14.73	18.35	73830	72840	91970	90740	1.20	8.0	15.0	
5	0.682	4	0.505	0.20	0.200	6.65	8.97	73290	73290	98920	98920	0.80	8.0	10.0	
6	0.692	4	0.508	0.20	0.203	6.60	9.02	72730	71660	99480	98010	0.90	8.0	11.3	
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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 Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Dy Dir MTL, Const. of Poles CCTV Camera Signal free Corridor, K-Block, DHA, Ph-V - (M/S DWS)

SOM Lab

Client Reference: 408/241/E/Lab/914/Nil

Ref: 2552(Page-1/1)

Dated: 08-06-2020

Dated: 09-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar ( Mughal 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	0.658	4	0.496	0.20	0.193	6.54	8.48	72170	74790	93530	96920	1.00	8.0	12.5	
2	0.660	4	0.497	0.20	0.194	6.54	8.46	72170	74400	93300	96190	1.10	8.0	13.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  <b>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.

S. Asad Ali Gillani

Dy Dir MTL, Const. of Poles CCTV Camera Signal free Corridor, K-Block, DHA, Ph-V - (M/S DWS)

SOM Lab

Client Reference: 408/241/E/Lab/914/Nil

Ref: 2552(Page-1/1)

Dated: 08-06-2020

Dated: 09-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar ( Mughal 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	0.658	4	0.496	0.20	0.193	6.54	8.48	72170	74790	93530	96920	1.00	8.0	12.5	
2	0.660	4	0.497	0.20	0.194	6.54	8.46	72170	74400	93300	96190	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 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)



Muhammad Waqas Anwar  
Resident Engineer-I, NESPAK, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 3772/FMU/103/MWA/04/17

SOM Lab

Ref: 2553(Page-1/1)

Dated: 08-06-2019

Dated: 09-06-2020

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	1.527	6	0.756	0.44	0.449	13.35	19.22	66940	65600	96320	94380	1.10	8.0	13.8	
2	1.514	6	0.753	0.44	0.445	13.46	19.39	67450	66690	97180	96090	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>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)

Test Performed by: Dr. Nauman Khurram

Attig ur Rehman  
Design Manager  
Premium Engineering (Pvt) Ltd.  
Lahore

Client Reference No.: nil

Dated: 08-06-2020

SOM Lab Ref: CED/SOM/2549(Page-1/1)

Dated: 09-06-2020

Test Type: Tensile Test

Sample Type: Nut-Bolts & SAG Rod

#### Tensile Test Results

Sample No.	Sample Type	Tested Diameter (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	Elongation (%)
1	Nut Bolt 20 x 80mm	14.0	160.7	1043	20.0
2	Nut Bolt 16 x 70mm	11.0	55.0	578.75	30.0
3	Nut Bolt 12 x 35mm	7.5	33.2	751.49	30.0
4	SAG Rod 12 mm	8.0	31.5	626.67	30.0

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