

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

S. asad Ali Gillani

Prime Engineering Consultancy, Kallurkot Bridge Project

Client Reference: KK-DIK-BR-PJ/2019/028

Dated: 13-07-2019

SOM Lab Ref: CED/SOM/1114(Page-1/1)

Dated: 16-07-2019

Test: Tension Test & bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar(Nomee Steel )

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	3.912	25	25.18	491	498	261.20	330.00	532	525	672	663	32.5	200	16.3	
2	2.477	20	20.04	314	316	144.70	224.20	461	459	714	711	37.5	200	18.8	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p><b>Note:-</b></p> <p><b>Only Four Samples Received and Tested</b></p>
20mm	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)

Najam us Saqlain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Manager Civil, US Denim Mills (Pvt) Ltd. Lahore

Client Reference: US Real/CIV/Izmir/03

Dated: 05-07-2018

SOM Lab Ref: CED/SOM/1115(Page-1/1)

Dated: 16-07-2018

Test: Tension and Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Kamran Steel)

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	3.597	25	24.15	491	458	267.00	344.50	544	583	702	753	25.0	200	12.5	
2	2.236	20	19.04	314	285	160.00	228.20	509	562	726	802	25.0	200	12.5	
3	1.525	16	15.73	201	194	102.20	132.20	508	527	658	681	30.0	200	15.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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)

Syed Samiuddin Ahmed

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Senior Resident Engineer, ProMag (Pvt) Ltd Site Office - DHA, Mattital Road, Multan

Client Reference: CRE/Sec-M1/291

Dated: 15-07-2019

SOM Lab Ref: CED/SOM/1119(Page-1/1)

Dated: 16-07-2019

Test: Tension & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar(Mughal Steel)

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	3.882	25	25.11	491	495	278.50	347.20	567	563	707	702	25.0	200	12.5	
2	3.887	25	25.11	491	495	277.20	345.00	565	560	703	697	27.5	200	13.8	
3	2.507	20	20.17	314	319	186.70	230.70	594	585	734	723	30.0	200	15.0	
4	2.506	20	20.16	314	319	174.00	230.00	554	545	732	721	32.5	200	16.3	
5	1.614	16	16.18	201	206	103.50	148.00	515	504	736	720	30.0	200	15.0	
6	1.565	16	15.93	201	199	99.70	142.70	496	501	710	716	25.0	200	12.5	
7	0.891	12	12.02	113	114	56.70	78.20	501	500	691	689	30.0	200	15.0	
8	0.893	12	12.04	113	114	56.50	79.00	500	497	699	695	32.5	200	16.3	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Twelve Samples Received and Tested</b>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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)

Assistant Executive Engineer  
Pakistan Railways, Faisalabad

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: W/3/Spl/2019

SOM Lab

Ref: 1113(Page-1/3)

Dated: 15-07-2019

Dated: 16-07-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.669	4	0.501	0.20	0.197	6.98	8.82	77000	78170	97230	98720	1.10	8.0	13.8	
2	0.669	4	0.501	0.20	0.197	6.90	8.87	76100	77260	97800	99290	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>  <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)

Assistant Executive Engineer  
Pakistan Railways, Faisalabad

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: W/3/Spl/2019

SOM Lab

Ref: 1113(Page-2/3)

Dated: 15-07-2019

Dated: 16-07-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	7.05	8.97	77790	78970	98920	100430	1.30	8.0	16.3	
2	0.672	4	0.501	0.20	0.197	7.00	8.92	77230	78400	98360	99860	1.20	8.0	15.0	
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**BEND TEST:**

# 4	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)

Assistant Executive Engineer  
Pakistan Railways, Faisalabad

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: W/3/Spl/2019

SOM Lab

Ref: 1113(Page-3/3)

Dated: 15-07-2019

Dated: 16-07-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.669	4	0.501	0.20	0.197	7.08	8.99	78130	79320	99150	100660	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	7.00	8.89	77230	78800	98020	100020	1.30	8.0	16.3	
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**BEND TEST:**

# 4	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)

Najam us Saqlain  
 Manager Civil, US Denim Mills (Pvt) Ltd. Lahore

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

Client Reference: US/Real/CIV/Izmir/03

SOM Lab Ref: CED/SOM/1115(Page-1/1)

Dated: 05-07-2019

Dated: 16-07-2019

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	2.636	8	0.993	0.79	0.775	25.37	35.19	70830	72200	98240	100140	1.30	8.0	16.3	
2	1.466	6	0.741	0.44	0.431	13.40	18.14	67190	68600	90950	92850	1.50	8.0	18.8	
3	0.649	4	0.493	0.20	0.191	6.09	8.26	67110	70270	91050	95340	1.30	8.0	16.3	
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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	
# 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

By Dir MTL, Infra Development Works of Sector - E, DHA Phase IX - (M/S Inland )

Client Reference: 408/241/E/Lab/641/11

SOM Lab

Ref: 1116(Page-1/1)

Dated: 12-07-2019

Dated: 16-07-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.673	8	1.000	0.79	0.786	23.26	35.27	64940	65270	98470	98970	1.60	8.0	20.0	
2	2.673	8	1.000	0.79	0.786	23.14	35.17	64600	64930	98180	98680	1.40	8.0	17.5	
3	1.465	6	0.741	0.44	0.431	13.27	19.52	66530	67920	97850	99890	1.30	8.0	16.3	
4	1.458	6	0.738	0.44	0.428	13.27	19.49	66530	68390	97690	100430	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>  <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)



M. Mamoon Qureshi  
 Director, T. S. Builders (Pvt) Ltd. Lahore

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

Client Reference: nil  
 Dated: 15-07-2019

SOM Lab  
 Ref: 1117(Page-1/1)  
 Dated: 16-07-2019

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	0.672	4	0.501	0.20	0.197	5.35	7.72	59020	59920	85100	86390	1.60	8.0	20.0	
2	0.671	4	0.501	0.20	0.197	5.17	7.65	56990	57860	84310	85590	1.50	8.0	18.8	
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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)

Akhtar Ali Javaid  
Project Manager (WASO), Chashma

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

Client Reference: PD/(CH)/WASO/C3&C4/93/18

SOM Lab

Ref: 1118(Page-1/1)

Dated: 12-07-2019

Dated: 16-07-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.024	5	0.619	0.31	0.301	10.88	14.07	77380	79700	100080	103070	1.00	8.0	12.5	
2	1.023	5	0.619	0.31	0.301	10.77	14.04	76660	78950	99860	102850	1.00	8.0	12.5	
3	0.651	4	0.493	0.20	0.191	6.12	7.97	67450	70630	87910	92050	1.40	8.0	17.5	
4	0.660	4	0.497	0.20	0.194	6.18	8.00	68120	70230	88240	90970	1.50	8.0	18.8	
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**BEND TEST:**

# 5	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)

Design Force(Pvt) Ltd.  
 Site: Attock Petrol Station DHA, Lahore

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

Client Reference: nil  
 Dated: 16-07-2019  
 Test: Tension Test

SOM Lab  
 Ref: 1120(Page-1/1)  
 Dated: 16-07-2019  
 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	1.442	6	0.735	0.44	0.424	13.53	18.93	67810	70360	94880	98460	1.20	8.0	15.0	
2	1.446	6	0.736	0.44	0.425	13.40	18.73	67190	69560	93860	97180	1.30	8.0	16.3	
3	0.588	4	0.469	0.20	0.173	7.00	8.43	77230	89280	92960	107470	1.00	8.0	12.5	
4	0.586	4	0.468	0.20	0.172	7.03	8.48	77560	90190	93530	108750	1.10	8.0	13.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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)

S. Shaukat Hussain

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Incharge (Civil) For Managing Director, Sui Northern Gas Pipelines Ltd. Gujrawala

Client Reference: CC/64/U.W/P.R/GUJ

SOM Lab

Ref: 1121(Page-1/1)

Dated: 16-07-2019

Dated: 16-07-2019

Test: Tension 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	0.677	4	0.503	0.20	0.199	6.07	9.63	66890	67220	106230	106760	1.20	8.0	15.0	
2	0.678	4	0.503	0.20	0.199	5.25	7.44	57890	58180	82060	82470	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

S. Shaukat Hussain

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Incharge (Civil) For Managing Director, Sui Northern Gas Pipelines Ltd. Gujrawala

Client Reference: CC/64/U.W/P.R/GUJ

SOM Lab

Ref: 1122(Page-1/1)

Dated: 16-07-2019

Dated: 16-07-2019

Test: Tension 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	1.463	6	0.740	0.44	0.430	15.36	19.85	77000	78790	99480	101800	1.00	8.0	12.5	
2	1.470	6	0.742	0.44	0.432	15.26	19.75	76490	77910	98970	100800	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

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

