

Haider Irfan,  
Project Manager, Roots International Schools, Sialkot

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: RIS/SB/SKT 19062019

SOM Lab

Ref: 980 (Page-1/1)

Dated: 19-06-2019

Dated: 19-06-2019

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	2.675	8	1.000	0.79	0.786	28.39	35.24	79260	79660	98380	98880	1.50	8.0	18.8	
2	2.648	8	0.995	0.79	0.778	28.49	35.19	79540	80770	98240	99750	1.40	8.0	17.5	
3	1.450	6	0.736	0.44	0.426	17.33	20.18	86860	89720	101170	104490	1.10	8.0	13.8	
4	1.457	6	0.738	0.44	0.428	16.51	20.34	82780	85100	101940	104790	1.20	8.0	15.0	
5	1.082	5	0.636	0.31	0.318	11.59	14.95	82460	80380	106390	103710	1.20	8.0	15.0	
6	1.082	5	0.636	0.31	0.318	11.42	14.83	81230	79180	105520	102870	1.20	8.0	15.0	
7	0.662	4	0.498	0.20	0.195	7.14	8.69	78690	80710	95770	98230	1.20	8.0	15.0	
8	0.662	4	0.498	0.20	0.195	7.16	8.79	78910	80940	96900	99380	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 Twelve Samples Received and Tested</b>
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 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)

S. Shaukat Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

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

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

SOM Lab

Ref:

981(Page-1/1)

Dated: 18-06-2019

Dated:

19-06-2019

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	0.615	4	0.480	0.20	0.181	7.65	8.97	84310	93160	98920	109300	0.70	8.0	8.8	
2	0.635	4	0.488	0.20	0.187	6.83	8.46	75320	80550	93300	99790	0.60	8.0	7.5	
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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)

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 Ltd.)

SOM Lab

Client Reference: 408/241/E/Lab/610

Ref: 982(Page-2/2)

Dated: 18-06-2019

Dated: 19-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar ( UAE 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	1.480	6	0.744	0.44	0.435	15.19	21.51	76130	77010	107810	109050	1.10	8.0	13.8	
2	1.460	6	0.739	0.44	0.429	15.09	21.10	75620	77560	105770	108480	1.00	8.0	12.5	
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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)

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, CET, State Grid, China Electric Power Equipment and Technology Co. Ltd (Lot-5)

CET/HVDC/SPO(04)L5/City Steel/UET-19-

SOM Lab

Client Reference: 682

Ref: 983(Page-1/4)

Dated: 14-06-2019

Dated: 19-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(City 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	2.572	8	0.981	0.79	0.756	24.59	35.98	68640	71730	100460	104980	1.20	8.0	15.0	
2	2.577	8	0.982	0.79	0.757	23.72	35.12	66220	69110	98040	102310	1.30	8.0	16.3	
3	2.564	8	0.980	0.79	0.754	23.87	35.22	66650	69830	98320	103020	1.30	8.0	16.3	
4	2.598	8	0.986	0.79	0.763	23.80	35.63	66450	68800	99460	102980	1.40	8.0	17.5	
5	2.640	8	0.994	0.79	0.776	23.55	35.44	65740	66930	98950	100730	1.30	8.0	16.3	
6	2.603	8	0.987	0.79	0.765	22.83	34.88	63750	65830	97380	100570	1.50	8.0	18.8	
7	2.643	8	0.995	0.79	0.777	23.65	35.39	66020	67130	98810	100460	1.20	8.0	15.0	
8	2.613	8	0.989	0.79	0.768	23.36	35.19	65230	67100	98240	101050	1.50	8.0	18.8	
9	2.624	8	0.991	0.79	0.771	22.91	34.96	63950	65520	97610	100020	1.40	8.0	17.5	
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**BEND TEST:**

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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager,CET, State Grid, China Electric Power Equipment and Technology Co. Ltd (Lot-5)

CET/HVDC/SPO(04)L5/City Steel/UET-19-

SOM Lab

Client Reference: 682

Ref: 983(Page-2/4)

Dated: 14-06-2019

Dated: 19-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(City 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	1.032	5	0.621	0.31	0.303	12.54	15.77	89200	91260	112190	114780	1.40	8.0	17.5	
2	1.037	5	0.623	0.31	0.305	12.44	15.67	88480	89930	111470	113290	1.20	8.0	15.0	
3	1.033	5	0.622	0.31	0.304	12.84	15.90	91380	93180	113130	115370	1.10	8.0	13.8	
4	1.035	5	0.622	0.31	0.304	12.54	15.60	89200	90960	110960	113150	1.00	8.0	12.5	
5	1.038	5	0.623	0.31	0.305	12.74	15.80	90650	92140	112410	114250	1.00	8.0	12.5	
6	1.033	5	0.622	0.31	0.304	12.64	15.70	89930	91700	111680	113890	1.00	8.0	12.5	
7	1.034	5	0.622	0.31	0.304	12.74	15.87	90650	92440	112920	115150	1.00	8.0	12.5	
8	1.031	5	0.621	0.31	0.303	12.95	15.87	92100	94230	112920	115530	1.00	8.0	12.5	
9	1.040	5	0.624	0.31	0.306	12.64	15.82	89930	91100	112550	114030	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, CET, State Grid, China Electric Power Equipment and Technology Co. Ltd (Lot-5)

CET/HVDC/SPO(04)L5/City Steel/UET-19-

SOM Lab

Client Reference: 682

Ref: 983(Page-3/4)

Dated: 14-06-2019

Dated: 19-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(City 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	1.029	5	0.620	0.31	0.302	12.54	15.67	89200	91570	111470	114420	1.10	8.0	13.8	
2	1.034	5	0.622	0.31	0.304	12.95	15.80	92100	93920	112410	114630	1.00	8.0	12.5	
3	1.037	5	0.623	0.31	0.305	12.74	15.70	90650	92140	111680	113520	1.10	8.0	13.8	
4	1.043	5	0.625	0.31	0.307	12.95	16.00	92100	93000	113860	114970	1.00	8.0	12.5	
5	1.033	5	0.622	0.31	0.304	12.84	15.80	91380	93180	112410	114630	1.10	8.0	13.8	
6	1.043	5	0.625	0.31	0.307	12.84	16.00	91380	92270	113860	114970	1.00	8.0	12.5	
7	1.041	5	0.624	0.31	0.306	12.95	16.00	92100	93310	113860	115350	1.00	8.0	12.5	
8	1.031	5	0.621	0.31	0.303	12.54	15.60	89200	91260	110960	113520	1.20	8.0	15.0	
9	1.036	5	0.622	0.31	0.304	12.95	15.77	92100	93920	112190	114410	1.10	8.0	13.8	
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**BEND TEST:**

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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager,CET, State Grid, China Electric Power Equipment and Technology Co. Ltd (Lot-5)

CET/HVDC/SPO(04)L5/City Steel/UET-19-

SOM Lab

Client Reference: 682

Ref: 983(Page-4/4)

Dated: 14-06-2019

Dated: 19-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(City 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	0.674	4	0.502	0.20	0.198	6.49	9.86	71610	72330	108700	109800	1.10	8.0	13.8	
2	0.672	4	0.501	0.20	0.197	6.44	9.89	71040	72130	109040	110700	1.10	8.0	13.8	
3	0.671	4	0.501	0.20	0.197	6.48	9.79	71490	72580	107910	109560	1.00	8.0	12.5	
4	0.670	4	0.501	0.20	0.197	6.42	9.73	70820	71900	107350	108990	1.20	8.0	15.0	
5	0.675	4	0.502	0.20	0.198	6.42	9.76	70820	71540	107580	108660	1.10	8.0	13.8	
6	0.672	4	0.501	0.20	0.197	6.32	9.68	69700	70760	106790	108420	1.20	8.0	15.0	
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**BEND TEST:**

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

Engr M Naveed Sadiq  
Resident Engineer, Orbit Housing, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: Nil

SOM Lab

Ref: 985(Page-1/1)

Dated: 19-06-2019

Dated: 19-06-2019

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	2.611	8	0.988	0.79	0.767	28.34	36.72	79120	81490	102510	105580	1.00	8.0	12.5	
2	2.660	8	0.998	0.79	0.782	26.93	34.37	75190	75960	95960	96940	1.10	8.0	13.8	
3	0.662	4	0.498	0.20	0.195	6.98	8.72	77000	78980	96110	98580	1.20	8.0	15.0	
4	0.662	4	0.498	0.20	0.195	6.42	8.36	70820	72640	92180	94540	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>  <b>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)