

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

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

Client Reference: 408/241/E/Lab/679/91

SOM Lab

Ref: 1304(Page-1/1)

Dated: 29-08-2019

Dated: 29-08-2019

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	2.672	8	1.000	0.79	0.785	23.01	33.51	64230	64640	93540	94140	1.20	8.0	15.0	
2	2.650	8	0.996	0.79	0.779	22.96	33.54	64090	64990	93630	94950	1.40	8.0	17.5	
3	1.477	6	0.743	0.44	0.434	14.63	19.32	73320	74340	96830	98160	1.10	8.0	13.8	
4	1.485	6	0.745	0.44	0.436	15.01	19.75	75210	75900	98970	99880	1.00	8.0	12.5	
5	0.667	4	0.500	0.20	0.196	6.03	9.30	66550	67910	102520	104610	1.20	8.0	15.0	
6	0.666	4	0.500	0.20	0.196	5.93	9.35	65420	66760	103080	105180	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

Five Star Corporatio
Govt. Contractor PEC -C3, Bahawalpur

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

Client Reference: 643/UET/LHR

SOM Lab
Ref: 1305(Page-1/1)

Dated: 28-08-2019

Dated: 29-08-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.587	8	0.984	0.79	0.760	27.06	33.66	75560	78540	93970	97680	1.40	8.0	17.5	
2	1.509	6	0.751	0.44	0.443	15.51	19.34	77770	77240	96930	96270	1.30	8.0	16.3	
3	0.655	4	0.494	0.20	0.192	6.27	7.67	69130	72010	84530	88060	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

M. Ikram Ullah
Civil Engineer, Sheikh of Sialkot

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

Client Reference: nil
Dated: 29-08-2019

SOM Lab
Ref: 1306(Page-1/1)
Dated: 29-08-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.580	8	0.982	0.79	0.758	26.22	34.32	73200	76290	95820	99860	1.30	8.0	16.3	
2	2.581	8	0.982	0.79	0.758	26.30	34.35	73420	76520	95900	99950	1.30	8.0	16.3	
3	1.031	5	0.621	0.31	0.303	10.52	13.56	74840	76570	96460	98680	1.20	8.0	15.0	
4	1.027	5	0.620	0.31	0.302	10.50	13.58	74700	76680	96600	99160	1.10	8.0	13.8	
5	0.659	4	0.497	0.20	0.194	7.08	8.58	78130	80540	94650	97580	1.20	8.0	15.0	
6	0.657	4	0.496	0.20	0.193	7.05	8.56	77790	80610	94420	97850	1.00	8.0	12.5	
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BEND TEST:

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

Ms. Ali Hussain Engineering
Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: AKT-TST-01

SOM Lab

Ref: 1307(Page-1/1)

Dated: 29-08-2019

Dated: 29-08-2019

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	1.491	6	0.747	0.44	0.438	16.77	21.02	84050	84440	105360	105840	1.10	8.0	13.8	
2	1.488	6	0.746	0.44	0.437	15.97	20.13	80070	80620	100910	101610	1.10	8.0	13.8	
3	0.682	4	0.505	0.20	0.200	5.88	9.28	64860	64860	102290	102290	1.30	8.0	16.3	
4	0.678	4	0.503	0.20	0.199	6.12	9.23	67450	67790	101730	102240	1.40	8.0	17.5	
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BEND TEST:

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

M. Kamran Siddiqui
CE (HVDC) NTDC, Lahore

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

Client Reference: 6830-33/CE/HVDC/NTDC/LHR

SOM Lab 1308,1310(Page-

Ref: 1/2)

Dated: 29-08-2019

Dated: 29-08-2019

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	3.399	9	1.128	1.00	0.999	32.01	46.28	70600	70670	102070	102170	1.20	8.0	15.0	
2	3.388	9	1.126	1.00	0.996	32.11	47.01	70820	71100	103690	104100	1.30	8.0	16.3	
3	3.428	9	1.132	1.00	1.007	31.82	46.99	70190	69700	103640	102920	1.30	8.0	16.3	
4	2.654	8	0.997	0.79	0.780	24.92	32.49	69580	70470	90700	91860	1.40	8.0	17.5	
5	2.677	8	1.001	0.79	0.787	25.59	36.14	71430	71700	100880	101270	1.40	8.0	17.5	
6	2.676	8	1.000	0.79	0.786	23.31	31.19	65090	65420	87080	87530	1.00	8.0	12.5	
7	0.652	4	0.494	0.20	0.192	6.78	9.09	74750	77870	100270	104450	1.00	8.0	12.5	
8	0.659	4	0.497	0.20	0.194	7.00	9.35	77230	79620	103080	106270	0.90	8.0	11.3	
9	0.668	4	0.500	0.20	0.196	7.49	9.60	82620	84310	105890	108050	1.00	8.0	12.5	
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Witnessed By: M. Umair Aslam, DM (HVCD), M. Abbas, EO, And Ali Adnan, CET Lot 7 & 8 Pakpattan

BEND TEST:

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

M. Kamran Siddiqui
CE (HVDC) NTDC, Lahore

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

Client Reference: 6830-33/CE/HVDC/NTDC/LHR

SOM Lab 1308,1310(Page-

Ref: 2/2)

Dated: 29-08-2019

Dated: 29-08-2019

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	1.018	5	0.617	0.31	0.299	9.43	13.58	67090	69550	96600	100150	1.00	8.0	12.5	
2	1.010	5	0.615	0.31	0.297	9.23	13.27	65630	68510	94420	98560	1.10	8.0	13.8	
3	0.999	5	0.612	0.31	0.294	9.25	12.64	65780	69360	89930	94820	1.00	8.0	12.5	
4	1.010	5	0.615	0.31	0.297	9.30	12.66	66140	69040	90070	94020	1.10	8.0	13.8	
5	1.030	5	0.621	0.31	0.303	10.77	13.58	76660	78430	96600	98830	1.00	8.0	12.5	
6	1.013	5	0.616	0.31	0.298	9.94	13.30	70710	73560	94640	98450	1.00	8.0	12.5	
7	1.004	5	0.613	0.31	0.295	9.96	12.81	70860	74460	91160	95800	0.90	8.0	11.3	
8	1.016	5	0.617	0.31	0.299	10.57	13.91	75210	77970	98990	102640	1.00	8.0	12.5	
9	1.032	5	0.621	0.31	0.303	9.38	12.71	66720	68260	90440	92530	1.20	8.0	15.0	
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Witnessed By: M. Umair Aslam, DM (HVCD), M. Abbas, EO, And Ali Adnan, CET Lot 7 & 8 Pakpattan

BEND TEST:

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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Project Manager, State Grid, China Electric Power Equipment and Technology Co. Ltd

Client Reference: CET/HVDC/SPO-04-L-7P/SJ Steel/UET-19-736SOM Lab 1309,1311(Page-
Ref: 1/2)

Dated: 27-08-2019

Dated: 29-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Lot -7 Pakpattan)

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	2.690	8	1.004	0.79	0.791	26.20	36.29	73140	73050	101310	101180	1.00	8.0	12.5	
2	2.673	8	1.000	0.79	0.786	26.12	35.98	72910	73280	100460	100970	1.20	8.0	15.0	
3	2.686	8	1.002	0.79	0.789	25.61	36.39	71490	71580	101600	101720	1.10	8.0	13.8	
4	1.034	5	0.622	0.31	0.304	9.68	12.84	68900	70260	91380	93180	1.00	8.0	12.5	
5	1.039	5	0.623	0.31	0.305	9.79	13.05	69620	70760	92830	94350	1.10	8.0	13.8	
6	1.016	5	0.617	0.31	0.299	10.42	13.66	74120	76850	97180	100760	1.00	8.0	12.5	
7	1.015	5	0.616	0.31	0.298	9.25	12.59	65780	68430	89570	93170	1.00	8.0	12.5	
8	1.013	5	0.616	0.31	0.298	9.76	13.20	69410	72200	93920	97700	1.00	8.0	12.5	
9	1.026	5	0.620	0.31	0.302	9.81	13.02	69770	71620	92610	95060	1.00	8.0	12.5	
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Witnessed By:

M. Umair Aslam, DM (HVCD), M. Abbas, EO, And Ali Adnan, CET Lot 7 & 8 Pakpattan

BEND TEST:

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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, State Grid, China Electric Power Equipment and Technology Co. Ltd

Client Reference: CET/HVDC/SPO-04-L-7P/SJ Steel/UET-19-736

SOM Lab Ref: 1309,1311(Page-2/2)

Dated: 27-08-2019

Dated: 29-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Lot -7 Pakpattan)

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	0.707	4	0.515	0.20	0.208	7.21	9.65	79470	76420	106450	102360	1.20	8.0	15.0	
2	0.659	4	0.497	0.20	0.194	7.29	9.40	80370	82860	103640	106850	1.00	8.0	12.5	
3	0.678	4	0.503	0.20	0.199	7.08	9.23	78130	78520	101730	102240	1.00	8.0	12.5	
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Witnessed By: M. Umair Aslam, DM (HVCD), M. Abbas, EO, And Ali Adnan, CET Lot 7 & 8 Pakpattan

BEND TEST:

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

Executive Engineer,
Highways Division, Gujranwala

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: 648/CB

SOM Lab

Ref: 1312 (Page-1/1)

Dated: 06-08-2019

Dated: 29-08-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.604	8	0.987	0.79	0.765	23.21	33.74	64800	66920	94200	97280	1.50	8.0	18.8	
2	2.614	8	0.989	0.79	0.768	23.52	34.10	65650	67540	95190	97920	1.50	8.0	18.8	
3	1.521	6	0.754	0.44	0.447	13.63	18.96	68320	67250	95040	93550	1.20	8.0	15.0	
4	1.502	6	0.749	0.44	0.441	12.51	18.78	62700	62550	94120	93900	1.30	8.0	16.3	
5	0.657	4	0.496	0.20	0.193	6.19	8.63	68230	70710	95210	98660	1.20	8.0	15.0	
6	0.667	4	0.500	0.20	0.196	5.83	8.36	64300	65610	92180	94060	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk