

Maj Adnan khalid®

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

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/504/1946

SOM Lab

Ref: 568(Page-2/4A)

Dated: 29-03-2019

Dated: 01-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (ASG 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	1.465	6	0.741	0.44	0.431	16.02	20.10	80320	82000	100760	102860	1.20	8.0	15.0	
2	1.505	6	0.750	0.44	0.442	12.95	18.71	64890	64600	93760	93340	1.40	8.0	17.5	
3	1.517	6	0.754	0.44	0.446	15.87	19.83	79560	78490	99380	98040	0.90	8.0	11.3	
4	1.497	6	0.748	0.44	0.440	15.57	19.27	78020	78020	96570	96570	1.10	8.0	13.8	
5	1.517	6	0.754	0.44	0.446	16.41	20.44	82260	81160	102450	101070	1.20	8.0	15.0	
6	1.517	6	0.754	0.44	0.446	16.11	20.25	80730	79650	101530	100160	1.30	8.0	16.3	
7	1.524	6	0.755	0.44	0.448	16.06	20.05	80480	79040	100500	98710	1.20	8.0	15.0	
8	1.514	6	0.753	0.44	0.445	16.33	20.25	81860	80940	101530	100390	1.10	8.0	13.8	
9	1.518	6	0.754	0.44	0.446	16.46	20.43	82520	81410	102400	101020	1.20	8.0	15.0	
10	1.505	6	0.750	0.44	0.442	15.85	19.90	79450	79100	99740	99290	1.30	8.0	16.3	

BEND TEST:

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

Maj Adnan khalid®

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

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/504/1946

SOM Lab

Ref: 568(Page-2/4B)

Dated: 29-03-2019

Dated: 01-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (ASG 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	0.662	4	0.498	0.20	0.195	7.03	8.74	77560	79550	96340	98810	1.00	8.0	12.5	
2	0.668	4	0.500	0.20	0.196	7.97	9.23	87910	89700	101730	103810	1.00	8.0	12.5	
3	0.670	4	0.501	0.20	0.197	8.05	9.33	88800	90160	102860	104420	1.00	8.0	12.5	
4	0.670	4	0.501	0.20	0.197	7.87	9.17	86780	88100	101170	102710	1.00	8.0	12.5	
5	0.665	4	0.498	0.20	0.195	7.19	8.77	79250	81280	96670	99150	1.00	8.0	12.5	
6	0.674	4	0.502	0.20	0.198	7.92	9.28	87340	88230	102290	103330	1.00	8.0	12.5	
7	0.671	4	0.501	0.20	0.197	7.29	8.82	80370	81600	97230	98720	1.00	8.0	12.5	
8	0.672	4	0.501	0.20	0.197	7.16	8.82	78910	80110	97230	98720	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Maj Adnan khalid®

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

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/504/1946

SOM Lab

Ref: 568(Page-3/4)

Dated: 29-03-2019

Dated: 01-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Kamran 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.650	4	0.493	0.20	0.191	6.29	8.31	69360	72630	91610	95930	1.20	8.0	15.0	
2	0.664	4	0.498	0.20	0.195	7.21	8.82	79470	81510	97230	99730	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Bilal A Khokhar

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/504/1946

SOM Lab

Ref:

568(Page-4/4)

Dated: 29-03-2019

Dated:

01-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (FF 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.661	8	0.998	0.79	0.782	26.73	34.61	74620	75380	96620	97600	1.30	8.0	16.3	
2	2.646	8	0.995	0.79	0.778	26.35	34.27	73570	74700	95680	97150	1.40	8.0	17.5	
3	2.651	8	0.996	0.79	0.779	26.61	34.42	74280	75330	96100	97460	1.50	8.0	18.8	
4	2.655	8	0.997	0.79	0.780	26.50	34.37	73990	74940	95960	97190	1.50	8.0	18.8	
5	2.661	8	0.998	0.79	0.782	26.88	34.68	75050	75810	96820	97810	1.60	8.0	20.0	
6	2.654	8	0.997	0.79	0.780	26.55	34.35	74140	75090	95900	97130	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Prof . Dr. Aman Ullah Khan

Acting Project Director, Air University, Multan Campus, 4-5th Floor, Khan Centre, Abdali Road, Multan

Test Performed By:

Dr. /Engr. Nauman Khurram

Client Reference: MUX/AUMC/AB1/2018/67

Dated: 29-03-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 569(P-1/1)

Dated: 01-04-2019

ASTM-A-615

Deformed Bar (FF 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.601	8	0.986	0.79	0.764	26.78	33.59	74760	77310	93770	96960	1.10	8.0	13.8	
2	2.584	8	0.983	0.79	0.759	24.77	32.08	69160	71980	89560	93220	1.00	8.0	12.5	
3	1.651	6	0.786	0.44	0.485	15.97	20.80	80070	72640	104230	94560	1.30	8.0	16.3	
4	1.655	6	0.787	0.44	0.486	16.06	21.00	80480	72860	105260	95290	1.00	8.0	12.5	
5	1.037	5	0.623	0.31	0.305	9.76	13.78	69410	70540	98050	99660	1.20	8.0	15.0	
6	1.062	5	0.630	0.31	0.312	10.01	14.12	71220	70760	100440	99800	1.20	8.0	15.0	
7	0.654	4	0.494	0.20	0.192	6.37	8.82	70260	73190	97230	101290	1.10	8.0	13.8	
8	0.656	4	0.496	0.20	0.193	6.19	8.53	68230	70710	94090	97500	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Project Manager
Ibrahim Fibres Limited. Faisal;abad

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

Client Reference: IFL/

SOM Lab

Ref: 570 (Page-1/1)

Dated: 01-04-2019

Dated: 01-04-2019

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	2.438	8	0.955	0.79	0.716	26.76	34.71	74700	82420	96900	106910	1.10	8.0	13.8	
2	2.443	8	0.956	0.79	0.718	28.21	35.52	78750	86640	99180	109120	1.10	8.0	13.8	
3	1.496	6	0.748	0.44	0.440	14.02	18.40	70260	70260	92230	92230	1.40	8.0	17.5	
4	1.484	6	0.745	0.44	0.436	13.78	18.14	69080	69720	90950	91780	1.20	8.0	15.0	
5	1.042	5	0.624	0.31	0.306	10.35	13.35	73610	74570	95000	96250	1.30	8.0	16.3	
6	1.033	5	0.622	0.31	0.304	10.96	14.02	77960	79500	99720	101690	1.10	8.0	13.8	
7	0.657	4	0.496	0.20	0.193	6.14	8.10	67670	70130	89370	92610	1.20	8.0	15.0	
8	0.657	4	0.496	0.20	0.193	6.14	8.10	67670	70130	89370	92610	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Ma Desheng

Test Performed By:

Dr. /Engr.

Bilal A. Khokhar

Project Manager, Central China Power Grid International Economic & Trade Co. Ltd, Lahore

Client Reference: CCPG/3263/P-II/UET/15752

SOM Lab

Ref:

571(Page-1/1)

Dated: 01-04-2019

Dated:

01-04-2019

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	2.633	8	0.993	0.79	0.774	26.12	34.73	72910	74420	96960	98960	1.40	8.0	17.5	
2	2.625	8	0.991	0.79	0.771	27.49	35.88	76750	78640	100170	102640	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Witnessed By: Hafiz Ansar Hanif,

BEND TEST:

8 Sample bend through 180 degrees Satisfactorily without any crack

8 Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Sub Divisional Officer
Buildings Sub Division, Kamalia

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

Client Reference: 142/

SOM Lab

Ref: 573 (Page-1/1)

Dated: 28-03-2019

Dated: 01-04-2019

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	1.556	6	0.763	0.44	0.457	11.88	16.84	59530	57310	84410	81270	1.30	8.0	16.3	
2	1.529	6	0.756	0.44	0.449	12.00	17.07	60140	58940	85590	83870	1.10	8.0	13.8	
3	0.661	4	0.497	0.20	0.194	4.94	7.10	54520	56210	78350	80770	1.20	8.0	15.0	
4	0.613	4	0.479	0.20	0.180	4.71	6.73	51940	57710	74190	82430	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Abdullah Khadim
Resident Engineer, DAR Engineering

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

Client Reference: DB-78/DAR/RE/ME/2019/0189

SOM Lab

Ref: 575(Page-1/1)

Dated: 01-04-2019

Dated: 01-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Kamran 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	1.459	6	0.739	0.44	0.429	13.97	19.90	70000	71800	99740	102300	1.10	8.0	13.8	M-122
2	1.473	6	0.743	0.44	0.433	14.24	20.29	71380	72540	101680	103320	0.80	8.0	10.0	M-122
3	1.042	5	0.624	0.31	0.306	9.99	13.81	71070	72000	98270	99550	1.20	8.0	15.0	P-320
4	1.052	5	0.627	0.31	0.309	10.42	14.09	74120	74360	100230	100550	1.20	8.0	15.0	P-320
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	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

