

Maj. Adnan khalid®

Test Performed By:

Dr. /Engr.

M Irfan UI Hassan

By 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/Nil/579

Ref: 842, 843(Page-1/1)

Dated: 17-05-2019

Dated: 20-05-2019

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	2.631	8	0.992	0.79	0.773	22.75	35.83	63520	64920	100030	102230	1.30	8.0	16.3	
2	2.604	8	0.987	0.79	0.765	22.40	35.47	62520	64570	99030	102270	1.30	8.0	16.3	
3	1.492	6	0.747	0.44	0.438	15.72	21.36	78790	79150	107040	107530	1.00	8.0	12.5	
4	1.485	6	0.745	0.44	0.436	18.06	23.34	90540	91370	117010	118080	1.20	8.0	15.0	
5	0.673	4	0.502	0.20	0.198	6.75	8.51	74420	75170	93860	94810	1.10	8.0	13.8	
6	0.660	4	0.497	0.20	0.194	5.58	9.50	61490	63390	104770	108010	1.30	8.0	16.3	
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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

Sheikh Naseem
Lahore

Test Performed By: Dr. /Engr. M Irfan UI Hassan

Client Reference: Nil
Dated: 20-05-2019
Test: Tension Test

SOM Lab Ref: 844(Page-1/1)
Dated: 20-05-2019
Test Specification: ASTM-A-615
Deformed Bar(Mughal Supreme 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	0.661	4	0.497	0.20	0.194	7.31	9.43	80600	83090	103980	107190	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Waqas Hussain

Chief Resident Engineer (Civil) Panjand Barrage, SITE Office H # 72, Madina Garden Jatoi Road Ali Pur Tehsil Ali Pur

Test Performed By: Dr. /Engr. M Rizwan Azam

Client Reference: TPBC/CRE/TECH/127

SOM Lab Ref: 845(Page-2/2)

Dated: 13-05-2019

Dated: 20-05-2019

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	2.628	8	0.991	0.79	0.772	26.71	36.41	74560	76300	101650	104020	1.50	8.0	18.8	
2	2.631	8	0.992	0.79	0.773	26.40	37.00	73710	75330	103300	105580	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	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

Waqas Hussain

Chief Resident Engineer (Civil) Panjand Barrage, SITE Office H # 72, Madina Garden Jatoi Road Ali Pur Tehsil Ali Pur

Test Performed By:

Dr. /Engr. M Rizwan Azam

Client Reference: TPBC/CRE/TECH/126

SOM Lab Ref: 845(Page-1/2)

Dated: 13-05-2019

Dated: 20-05-2019

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	1.474	6	0.743	0.44	0.433	14.42	20.51	72300	73470	102800	104470	1.40	8.0	17.5	
2	1.473	6	0.743	0.44	0.433	14.55	20.54	72910	74090	102960	104620	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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. M. Rizwan Azam

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

Client Reference: 408/241/E/Lab/572/2381

SOM Lab

Ref: 847(Page-1/3)

Dated: 16-05-2019

Dated: 20-05-2019

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	1.496	6	0.748	0.44	0.440	17.09	22.09	85690	85690	110720	110720	1.00	8.0	12.5	
2	1.506	6	0.751	0.44	0.443	17.30	22.24	86710	86120	111490	110730	1.10	8.0	13.8	
3	1.494	6	0.748	0.44	0.439	16.97	21.94	85070	85270	109960	110210	1.10	8.0	13.8	
4	1.461	6	0.739	0.44	0.429	14.90	19.18	74700	76620	96160	98630	1.10	8.0	13.8	
5	0.667	4	0.500	0.20	0.196	6.98	8.58	77000	78570	94650	96580	1.10	8.0	13.8	
6	0.671	4	0.501	0.20	0.197	7.51	8.99	82850	84110	99150	100660	1.00	8.0	12.5	
7	0.667	4	0.500	0.20	0.196	7.03	8.66	77560	79150	95550	97500	1.10	8.0	13.8	
8	0.655	4	0.494	0.20	0.192	6.83	8.36	75320	78450	92180	96020	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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	
# 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. M. Rizwan Azam

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

Client Reference: 408/241/E/Lab/571/2425

SOM Lab

Ref: 847(Page-2/3)

Dated: 16-05-2019

Dated: 20-05-2019

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	1.498	6	0.748	0.44	0.440	16.99	22.02	85180	85180	110370	110370	1.10	8.0	13.8	
2	1.474	6	0.743	0.44	0.433	14.95	19.22	74960	76170	96320	97870	1.20	8.0	15.0	
3	1.500	6	0.749	0.44	0.441	17.28	22.07	86610	86410	110620	110370	1.20	8.0	15.0	
4	1.493	6	0.748	0.44	0.439	17.04	21.94	85430	85630	109960	110210	1.10	8.0	13.8	
5	0.662	4	0.498	0.20	0.195	7.05	8.58	77790	79780	94650	97080	1.00	8.0	12.5	
6	0.645	4	0.492	0.20	0.190	6.98	8.53	77000	81050	94090	99040	1.00	8.0	12.5	
7	0.661	4	0.497	0.20	0.194	6.95	8.51	76660	79040	93860	96770	1.00	8.0	12.5	
8	0.671	4	0.501	0.20	0.197	7.19	8.69	79250	80460	95770	97230	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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	
# 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. M. Rizwan Azam

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

Client Reference: 408/241/E/Lab/570/2019

SOM Lab

Ref: 847(Page-3/3)

Dated: 16-05-2019

Dated: 20-5-2019

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	1.485	6	0.745	0.44	0.436	15.24	19.37	76390	77090	97080	97970	1.30	8.0	16.3	
2	1.471	6	0.742	0.44	0.432	14.29	18.60	71640	72960	93250	94980	1.10	8.0	13.8	
3	1.481	6	0.744	0.44	0.435	15.26	19.24	76490	77370	96420	97530	1.20	8.0	15.0	
4	1.490	6	0.747	0.44	0.438	17.07	22.02	85590	85980	110370	110870	1.10	8.0	13.8	
5	1.457	6	0.738	0.44	0.428	14.90	19.18	74700	76800	96160	98860	1.20	8.0	15.0	
6	1.511	6	0.752	0.44	0.444	17.13	22.12	85840	85070	110880	109880	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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	
# 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

Engr Shoukat Ali Rana
Project Manager, Orbit Housing, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 848(Page-1/1)

Dated: 22-05-2019

Dated: 20-05-2019

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	0.676	4	0.503	0.20	0.199	6.98	8.72	77000	77390	96110	96590	1.10	8.0	13.8	
2	0.651	4	0.493	0.20	0.191	6.88	8.51	75880	79450	93860	98290	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Secretery Jamia
Jamia Til Muntazar (TRUST), H-Block, Model Town Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 101-

SOM Lab

Ref: 849(Page-1/1)

Dated: 18-05-2019

Dated: 20-05-2019

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	0.550	4	0.454	0.20	0.162	4.54	6.88	50030	61760	75880	93680	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Wang Bo

Test Performed By:

Dr. /Engr.

Nauman
Khorrām

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

Client Reference: CET/HVDC/SPO(04)I4/City Steel/UET-19-625

SOM Lab

Ref: 850(Page-2/2)

Dated: 17-05-2019

Dated: 20-05-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.018	5	0.617	0.31	0.299	11.37	15.46	80860	83840	110020	114060	1.00	8.0	12.5	
2	1.033	5	0.622	0.31	0.304	10.98	15.14	78110	79650	107700	109820	1.00	8.0	12.5	
3	0.646	4	0.492	0.20	0.190	5.81	9.12	64080	67450	100610	105900	1.10	8.0	13.8	
4	0.668	4	0.500	0.20	0.196	6.14	9.35	67670	69050	103080	105180	1.10	8.0	13.8	
5	0.652	4	0.494	0.20	0.192	5.63	8.66	62050	64640	95550	99530	1.20	8.0	15.0	
6	0.647	4	0.492	0.20	0.190	6.03	9.25	66550	70050	101960	107320	1.10	8.0	13.8	
7	0.667	4	0.500	0.20	0.196	6.27	9.48	69130	70540	104540	106670	1.20	8.0	15.0	
8	0.650	4	0.493	0.20	0.191	6.07	9.30	66890	70040	102520	107350	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 5(S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack
# 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
# 4(S. 7,8)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Sixteen Samples Received and Tested

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

Engr. Abdul Ghaffar

Test Performed By:

Dr. /Engr.

Bilal A. Khokhar

Resident Engineer, COE, Peer Mahal. TT Singh. (Al-Imam Enterprises (Pvt) Ltd)

Client Reference: RE/UET/CEPM/05/19/102

SOM Lab

851(Page-

Ref:

1/1)

Dated: 18-05-2019

Dated:

20-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(FF 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	1.036	5	0.622	0.31	0.304	10.93	13.76	77750	79280	97910	99840	1.20	8.0	15.0	
2	0.696	5	0.511	0.31	0.205	10.52	13.43	74840	113180	95510	144430	1.20	8.0	15.0	
3	0.645	4	0.492	0.20	0.190	7.29	9.81	80370	84600	108140	113830	1.00	8.0	12.5	
4	0.645	4	0.492	0.20	0.190	7.20	9.34	79360	83540	102970	108390	1.00	8.0	12.5	
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BEND TEST:

# 5	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

Safdar Hussain
Resident Engineer, ACE, Danish School Mankera Residency

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

Client Reference: ACE/RE-PDS/MNK/BHK/19/216

SOM Lab

Ref: 852(Page-1/1)

Dated: 08-05-2019

Dated: 20-05-2019

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	1.459	6	0.739	0.44	0.429	13.68	20.56	68570	70330	103060	105700	1.30	8.0	16.3	
2	1.530	6	0.757	0.44	0.450	13.91	21.66	69750	68200	108580	106160	1.10	8.0	13.8	
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BEND TEST:

# 6	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

Sherwani Enterprises
Civil Electrical Contractor, Lahore (Site ID: 87R-I, Johar Town)

Test Performed By: Dr. /Engr. M Yousaf

Client Reference: nil

SOM Lab

Ref: 853(Page-1/1)

Dated: 20-05-2019

Dated: 20-05-2019

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	2.619	8	0.990	0.79	0.770	26.50	35.49	73990	75910	99090	101670	1.30	8.0	16.3	
2	1.453	6	0.737	0.44	0.427	18.04	21.22	90440	93190	106380	109620	1.10	8.0	13.8	
3	0.638	4	0.488	0.20	0.187	7.34	8.82	80940	86560	97230	103990	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. Munir
Construction Manager, Minky & Associates (Pvt) Lahore

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

Client Reference: MA/UET/34/19520

SOM Lab

Ref: 854(Page-1/1)

Dated: 20-05-2019

Dated: 20-05-2019

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	2.587	6	0.984	0.44	0.760	15.21	23.51	76240	44140	117830	68220	1.10	8.0	13.8	
2	0.668	4	0.500	0.20	0.196	6.32	9.73	69700	71120	107350	109540	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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