

Muhammad Danish Khurshid
 Manager Construction, Orient Electronice (Pvt) Ltd, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: OSH-SO/UET/Kamran Steel Test/240621-25

Dated: 29-06-2021

SOM Lab Ref: CED/SOM/4574 (Page-1/2)

Dated: 29-06-2021

Test: Tensile Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.172	19	18.78	284	277	127.70	175.00	450	462	617	632	37.5	200	18.8	
2	2.181	19	18.81	284	278	130.00	184.50	459	468	651	664	32.5	200	16.3	
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BEND TEST:

19mm	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

Muhammad Danish Khurshid
 Manager Construction, Orient Electronice (Pvt) Ltd, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: OSH-SO/UET/Kamran Steel Test/240621-26

Dated: 29-06-2021

SOM Lab Ref: CED/SOM/4574 (Page-2/2)

Dated: 29-06-2021

Test: Tensile Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.987	13	12.67	133	126	62.20	84.00	469	494	633	667	30.0	200	15.0	
2	0.985	13	12.64	133	126	62.00	86.00	467	494	648	686	27.5	200	13.8	
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BEND TEST:

13mm	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

Syed Mohsin Ali
Resident Engineer, QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: QA/QC-Steel-2364

Dated: 28-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4571(Page-1/1)

Dated: 29-06-2021

ASTM-A-615

Deformed Bar(Ittefaq 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	2.577	8	0.982	0.79	0.757	24.67	40.13	68870	71870	112040	116920	0.90	8.0	11.3	
2	2.651	8	0.996	0.79	0.779	29.15	35.98	81390	82540	100460	101880	1.10	8.0	13.8	
3	1.498	6	0.748	0.44	0.440	14.12	18.37	70770	70770	92070	92070	1.10	8.0	13.8	
4	1.500	6	0.749	0.44	0.441	13.81	18.57	69240	69080	93100	92890	1.20	8.0	15.0	
5	0.670	4	0.501	0.20	0.197	5.71	8.53	62950	63910	94090	95520	0.80	8.0	10.0	
6	0.674	4	0.502	0.20	0.198	5.71	8.53	62950	63590	94090	95040	0.90	8.0	11.3	
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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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Nauman Khurram

Dy Dir MTL, Infra Structure Works Sector -Q, DHA. Phase XI, Rahbar - (M/S DHA-C)

Client Reference: 408/241/E/Lab/96/1762

SOM Lab

Ref: 4572(Page-1/1)

Dated: 28-06-2021

Dated: 29-06-2021

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	0.681	4	0.505	0.20	0.200	6.34	9.53	69920	69920	105100	105100	1.40	8.0	17.5	
2	0.684	4	0.506	0.20	0.201	6.24	9.45	68800	68450	104200	103690	1.40	8.0	17.5	
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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

Adnan Jamil

Test Performed By:

Dr. /Engr.

Nauman Khurram

Resident Engineer, Amad Anwar & Partners, Architects and Interior Designers, Lahore

Client Reference: AA/CCA/31/2/10

SOM Lab

Ref:

4573(Page-1/1)

Dated: 28-06-2021

Dated:

29-06-2021

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	2.595	8	0.986	0.79	0.763	27.29	34.45	76180	78880	96190	99590	1.40	8.0	17.5	
2	2.585	8	0.984	0.79	0.760	27.54	34.56	76900	79930	96470	100280	1.30	8.0	16.3	
3	1.543	6	0.759	0.44	0.453	14.07	19.29	70510	68490	96670	93900	1.40	8.0	17.5	
4	1.544	6	0.760	0.44	0.454	14.29	19.18	71640	69430	96160	93200	1.20	8.0	15.0	
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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	

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

Resident Engineer,

Test Performed By:

Dr. /Engr. S Asad Ali Gillani

ESS-I-AAR Consultant, Old Chinot Road Chah Tootan Wala, Jhang City Near Madras Dara ul Raza

Client Reference: 1023-

SOM Lab

Ref: 4575(Page-2/2)

Dated: 21-06-2021

Dated: 29-06-2021

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	0.606	4	0.476	0.20	0.178	6.12	7.95	67450	75780	87680	98520	1.00	8.0	12.5	
2	0.604	4	0.476	0.20	0.178	6.37	8.02	70260	78940	88470	99400	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

Resident Engineer,

Test Performed By:

Dr. /Engr. S Asad Ali Gillani

ESS-I-AAR Consultant, Old Chinot Road Chah Tootan Wala, Jhang City Near Madras Dara ul Raza

Client Reference: 1028-

SOM Lab

Ref: 4575(Page-1/2)

Dated: 22-06-2021

Dated: 29-06-2021

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	0.594	4	0.472	0.20	0.175	5.76	8.02	63510	72590	88470	101100	1.10	8.0	13.8	
2	0.590	4	0.469	0.20	0.173	5.35	7.46	59020	68230	82290	95130	1.00	8.0	12.5	
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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

Qadir Ali
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 4577 (Page-1/1)

Dated: 29-06-2021

Dated: 29-06-2021

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	2.703	8	1.005	0.79	0.794	24.84	36.70	69350	69000	102450	101930	1.20	8.0	15.0	
2	2.656	8	0.997	0.79	0.781	24.33	34.27	67930	68710	95680	96780	1.30	8.0	16.3	
3	1.500	6	0.749	0.44	0.441	13.25	19.72	66430	66280	98870	98650	1.30	8.0	16.3	
4	1.496	6	0.748	0.44	0.440	14.63	19.52	73320	73320	97850	97850	1.00	8.0	12.5	
5	0.671	4	0.501	0.20	0.197	6.88	9.91	75880	77030	109260	110930	1.10	8.0	13.8	
6	0.655	4	0.494	0.20	0.192	6.01	8.26	66320	69090	91050	94850	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

Muhammad Ahmad
Assistant Manager, Reon Energy Solutions, Karachi

Test Performed By: Dr. /Engr. Qasim Shaukat

Client Reference: QHSE/21/1

SOM Lab Ref: 4578,4579(Page-1/1)

Dated: 28-06-2021

Dated: 29-06-2021

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	1.553	6	0.762	0.44	0.456	17.13	22.04	85840	82830	110470	106590	1.20	8.0	15.0	
2	0.684	4	0.506	0.20	0.201	6.14	9.04	67670	67340	99710	99210	1.40	8.0	17.5	
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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

Asim Ishaq
Principal, The Trust School, Aamir Town Harbanspura, Lahore

Test Performed By: Dr. /Engr. Qasim Shaukat

Client Reference: SBL/2021/UET-TEDDS/1223

SOM Lab

Ref: 4580(Page-1/1)

Dated: 29-06-2021

Dated: 29-06-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed

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	0.658	4	0.496	0.20	0.193	6.39	8.38	70480	73040	92400	95750	1.30	8.0	16.3	
2	0.657	4	0.496	0.20	0.193	6.19	8.61	68230	70710	94990	98430	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Engr. Mustehson Ali Khan
 Flag Square Builder, Etihad Town Raiwind Road, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: FSB/03/ST

SOM Lab

Ref: 4581 (Page-1/1)

Dated: 29-06-2021

Dated: 29-06-2021

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	0.677	4	0.503	0.20	0.199	6.29	9.43	69360	69710	103980	104500	1.10	8.0	13.8	
2	0.679	4	0.505	0.20	0.200	6.17	9.40	68010	68010	103640	103640	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