

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

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

Client Reference: OSH-SO/UET/Kamran Steel Test/110621-19

Dated: 11-06-2021

SOM Lab Ref: CED/SOM/4447 (Page-1/1)

Dated: 11-06-2021

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	3.811	25	24.88	491	486	225.00	317.70	458	463	647	654	27.5	200	13.8	
2	3.802	25	24.83	491	484	237.00	336.20	483	490	685	695	37.5	200	18.8	
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BEND TEST:

25mm	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. Muhammad Ahmed Raza
Deputy Project Manager, CCCE-ETERN-AL Hussain Consortium

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: CCCE-ETERN-AL-Hussain/IGM/NGS-LOT#11/2413-15

Dated:

10-06-2021

SOM Lab Ref: CED/SOM/4449, 4450 (Page-1/2)

Dated:

11-06-2021

Test: Tension Test & Bend Test

Test Specification:

BS-4449

Sample Type: Deformed Bar(Al-Madinah Steel)

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	3.809	25	24.85	491	485	248.00	324.00	505	512	660	669	35.0	200	17.5	
2	3.804	25	24.84	491	485	242.00	321.20	493	500	654	663	37.5	200	18.8	
3	2.425	20	19.83	314	309	123.20	172.00	392	399	547	557	35.0	200	17.5	
4	2.416	20	19.79	314	308	122.00	172.20	388	397	548	560	40.0	200	20.0	
5	0.858	12	11.80	113	109	46.00	61.00	407	421	539	558	32.5	200	16.3	
6	0.865	12	11.85	113	110	41.00	61.20	363	373	541	556	35.0	200	17.5	
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Witnessed By:

Ahsan Majeed, Civil Engineer,

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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. Muhammad Ahmed Raza
Deputy Project Manager, CCCE-ETERN-AL Hussain Consortium

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: CCCE-ETERN-AL-Hussain/IGM/NGS-LOT#11/2413-15

Dated:

10-06-2021

SOM Lab Ref: CED/SOM/4449, 4450 (Page-2/2)

Dated:

11-06-2021

Test: Tension Test & Bend Test

Test Specification:

BS-4449

Sample Type: Deformed Bar(Union Steel)

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	2.516	20	20.19	314	320	165.50	207.20	527	518	660	648	35.0	200	17.5	
2	2.504	20	20.15	314	319	165.00	207.20	525	518	660	650	30.0	200	15.0	
3	0.865	12	11.85	113	110	70.00	86.20	619	636	762	782	22.5	200	11.3	
4	0.976	12	12.58	113	124	41.20	61.00	364	332	539	491	25.0	200	12.5	
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Witnessed By: Ahsan Majeed, Civil Engineer,

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
12mm	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

Babar Hassan
SE (WASO) GINUM, Pakistan Atomic Energy Commission,

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 10-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4448(Page-1/1)

Dated: 11-06-2021

ASTM-A-615

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	12.03	17.74	60290	58180	88910	85790	1.60	8.0	20.0	
2	1.561	6	0.764	0.44	0.459	11.62	17.35	58250	55840	86970	83370	1.50	8.0	18.8	
3	0.667	4	0.500	0.20	0.196	6.07	8.74	66890	68250	96340	98300	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	6.29	8.89	69360	70410	98020	99510	1.50	8.0	18.8	
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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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/084

Dated: 07-06-2021

SOM Lab

Ref: 4451(Page-1/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	0.687	4	0.507	0.20	0.202	6.37	9.68	70260	69560	106790	105730	1.00	8.0	12.5	
2	0.679	4	0.505	0.20	0.200	6.49	9.68	71610	71610	106790	106790	0.90	8.0	11.3	
3	0.673	4	0.502	0.20	0.198	6.49	9.63	71610	72330	106230	107300	0.90	8.0	11.3	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/087

Dated: 07-06-2021

SOM Lab

Ref: 4451(Page-2/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	0.665	4	0.498	0.20	0.195	6.34	9.68	69920	71710	106790	109530	1.10	8.0	13.8	
2	0.676	4	0.503	0.20	0.199	6.24	9.38	68800	69140	103420	103940	1.00	8.0	12.5	
3	0.668	4	0.500	0.20	0.196	6.54	9.58	72170	73640	105670	107820	1.00	8.0	12.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/082

Dated: 07-06-2021

SOM Lab

Ref: 4451(Page-3/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	0.670	4	0.501	0.20	0.197	6.52	9.53	71940	73040	105100	106700	1.00	8.0	12.5	
2	0.666	4	0.500	0.20	0.196	6.32	6.57	69700	71120	72510	73990	1.00	8.0	12.5	
3	0.667	4	0.500	0.20	0.196	6.27	6.42	69130	70540	70820	72270	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/085

Dated: 07-06-2021

SOM Lab

Ref: 4451(Page-4/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	1.487	6	0.746	0.44	0.437	13.66	19.72	68470	68940	98870	99550	1.20	8.0	15.0	
2	1.484	6	0.745	0.44	0.436	13.53	19.72	67810	68430	98870	99780	1.30	8.0	16.3	
3	1.480	6	0.744	0.44	0.435	13.58	19.69	68060	68840	98720	99850	1.30	8.0	16.3	
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BEND TEST:

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/089

SOM Lab

Ref: 4451(Page-4/8)

Dated: 09-06-2021

Dated: 11-06-2021

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	1.488	6	0.746	0.44	0.437	12.81	19.59	64230	64670	98210	98880	1.30	8.0	16.3	
2	1.472	6	0.743	0.44	0.433	12.49	19.22	62590	63610	96320	97870	1.50	8.0	18.8	
3	1.478	6	0.743	0.44	0.434	12.59	19.24	63100	63980	96420	97750	1.50	8.0	18.8	
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BEND TEST:

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/086

Dated: 08-06-2021

SOM Lab

Ref: 4451(Page-6/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	1.491	6	0.747	0.44	0.438	13.17	19.37	66020	66320	97080	97520	1.20	8.0	15.0	
2	1.493	6	0.748	0.44	0.439	13.51	19.54	67700	67860	97950	98170	1.20	8.0	15.0	
3	1.489	6	0.747	0.44	0.438	13.71	19.75	68730	69040	98970	99420	1.30	8.0	16.3	
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BEND TEST:

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/083

Dated: 07-06-2021

SOM Lab

Ref: 4451(Page-7/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	2.646	8	0.995	0.79	0.778	25.56	35.65	71350	72450	99520	101050	1.20	8.0	15.0	
2	2.615	8	0.989	0.79	0.768	24.31	34.86	67870	69820	97330	100120	1.20	8.0	15.0	
3	2.625	8	0.991	0.79	0.771	25.38	35.78	70860	72610	99890	102350	1.20	8.0	15.0	
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BEND TEST:

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/088

Dated: 08-06-2021

SOM Lab

Ref: 4451(Page-8/8)

Dated: 11-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

ASTM-A-615

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	2.621	8	0.990	0.79	0.770	23.62	35.02	65940	67650	97750	100290	1.30	8.0	16.3	
2	2.630	8	0.992	0.79	0.773	24.36	35.12	68020	69510	98040	100190	1.10	8.0	13.8	
3	2.609	8	0.988	0.79	0.767	23.75	34.98	66310	68300	97670	100600	1.20	8.0	15.0	
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BEND TEST:

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

Resident Engineer,
 PICIIP Sahiwal, NESPAK (Pvt) Ltd., 73-A W, Block Farid Town Sahiwal.

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Client Reference: 3976/11/MT/Lot-2/120

Dated: 03-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4453(Page-1/1)

Dated: 11-06-2021

ASTM-A-615

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	0.650	4	0.493	0.20	0.191	7.34	8.97	80940	84750	98920	103580	1.00	8.0	12.5	
2	0.649	4	0.493	0.20	0.191	7.44	9.02	82060	85930	99480	104170	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

Hafiz Ozair Ahmad
Deputy Director (QCD), WASA, LDA, Lahore

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

Client Reference: QCD/ 723-24
Dated: 09-06-2021
Test: Tension Test & Bend Test
Guage Length: 8 inch

SOM Lab 4455(Page-1/1)
Ref: 1/1
Dated: 11-06-2021
ASTM-A-615
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	1.479	6	0.744	0.44	0.435	13.78	19.80	69080	69880	99230	100370	1.40	8.0	17.5	
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BEND TEST:

# 6	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

Sub Divisional Officer
Buildings Sub Division No. 9, Lahore

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

Client Reference: 137/9th

SOM Lab

Ref: 4456(Page-1/1)

Dated: 26-04-2021

Dated: 11-06-2021

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	1.486	6	0.746	0.44	0.437	14.70	19.54	73680	74190	97950	98620	1.00	8.0	12.5	
2	0.648	4	0.492	0.20	0.190	6.44	8.94	71040	74780	98580	103770	1.10	8.0	13.8	
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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

Sub Divisional Officer
Highway Sub Division, Mian Channu

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

Client Reference: 904/SDO MC

SOM Lab

Ref: 4457(Page-1/1)

Dated: 10-06-2021

Dated: 11-06-2021

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	1.035	5	0.622	0.31	0.304	9.17	13.10	65270	66560	93190	95030	1.40	8.0	17.5	
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BEND TEST:

# 5	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

Saqib Riaz
Project Manager, Rizwan associates, ISLAMABAD

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: UET/RA/SITE/02-21

Dated: 11-06-2021

SOM Lab

Ref: 4459(Page-1/1)

Dated: 11-06-2021

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	2.623	8	0.991	0.79	0.771	25.15	34.66	70210	71940	96760	99140	1.30	8.0	16.3	
2	2.624	8	0.991	0.79	0.771	25.25	34.86	70490	72230	97330	99730	1.40	8.0	17.5	
3	0.650	4	0.493	0.20	0.191	5.68	7.95	62610	65560	87680	91810	1.10	8.0	13.8	
4	0.653	4	0.494	0.20	0.192	5.71	8.02	62950	65570	88470	92150	1.30	8.0	16.3	
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BEND TEST:

# 8	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. Muzzamal Aslam

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Ravians Construction(Project: WS # 2, Plot # 35-A, M-3 Industrial City, Sahianwala, Faisalabad

Client Reference: RC/T/01

SOM Lab

Ref: 4460(Page-1/1)

Dated: 11-06-2021

Dated: 11-06-2021

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	2.644	8	0.995	0.79	0.777	30.75	37.18	85860	87300	103790	105520	1.00	8.0	12.5	
2	2.728	8	1.011	0.79	0.802	26.07	33.89	72770	71680	94620	93210	1.20	8.0	15.0	
3	1.520	6	0.754	0.44	0.447	15.77	19.47	79050	77810	97590	96060	1.10	8.0	13.8	
4	1.522	6	0.754	0.44	0.447	15.97	19.64	80070	78810	98460	96920	1.10	8.0	13.8	
5	0.684	4	0.506	0.20	0.201	5.86	8.74	64640	64320	96340	95860	1.40	8.0	17.5	
6	0.684	4	0.506	0.20	0.201	5.91	8.77	65200	64880	96670	96190	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