Saleem Tahir **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PM ICPL (OMBRe' Holding Pvt Ltd Raiwind,Lahore)

Client Reference: OMBRe'/Ittefaq/Steel/003 **Dated:** 21-03-2022

SOM Lab Ref: CED/SOM/018 (Page-1/1) **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: M S Deformed Bar (Ittefaq 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	3.841	25	24.95	491	489	337.00	373.70	687	690	761	765	25.0	200	12.5	
2	3.836	25	24.94	491	489	338.00	387.00	689	692	788	792	22.5	200	11.3	
3	1.615	16	16.18	201	206	117.00	143.50	582	569	714	698	30.0	200	15.0	
4	1.598	16	16.10	201	204	119.50	145.20	594	587	722	714	32.5	200	16.3	
5	0.882	12	11.96	113	112	65.20	87.50	576	581	774	779	27.5	200	13.8	
6	0.879	12	11.94	113	112	65.70	86.70	581	587	767	775	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Engr. Shafiq Ahmed **Test Performed By:** **Dr. /Engr.** Asad Ali

Resident Engineer, New Vision Engineering Consultant, Lahore

Client Reference: NVEC/RE/R-way/22/11 **SOM Lab Ref:** 006 (Page-1/1)

Dated: 21-03-2022 **Dated:** 21-03-2022

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	1.470	6	0.742	0.44	0.432	15.29	19.69	76640	78060	98720	100540	1.30	8.0	16.3	
2	1.466	6	0.741	0.44	0.431	15.62	19.98	78280	79910	100150	102240	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Mr.Umar Safdar
Usman Industries, Lahore

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

Client Reference: Nil
Dated: 22-03-2022

SOM Lab Ref: 008 (Page-1/1)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.647	8	0.995	0.79	0.778	24.13	36.24	67360	68400	101170	102730	1.60	8.0	20.0	
2	2.645	8	0.995	0.79	0.777	24.08	36.06	67220	68340	100660	102340	1.70	8.0	21.3	
3	1.535	6	0.758	0.44	0.451	14.27	20.23	71540	69790	101420	98950	1.40	8.0	17.5	
4	1.531	6	0.757	0.44	0.450	14.37	20.51	72050	70450	102800	100520	1.30	8.0	16.3	
5	0.680	4	0.505	0.20	0.200	6.24	9.02	68800	68800	99480	99480	1.30	8.0	16.3	
6	0.684	4	0.506	0.20	0.201	6.37	9.04	70260	69910	99710	99210	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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/0185
Dated: 21-03-2022

SOM Lab Ref: 009 (Page-1/2)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.650	8	0.996	0.79	0.779	24.46	35.78	68300	69270	99890	101300	1.30	8.0	16.3	
2	2.650	8	0.996	0.79	0.779	24.26	35.09	67730	68690	97950	99340	1.20	8.0	15.0	
3	2.653	8	0.997	0.79	0.780	23.87	34.66	66650	67510	96760	98000	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Engr.Rafi Ullah (IHPL)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Five Samples Received and Tested

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/0186
Dated: 21-03-2022

SOM Lab Ref: 009 (Page-2/2)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.705	8	1.006	0.79	0.795	24.08	34.66	67220	66800	96760	96150	1.30	8.0	16.3	
2	2.640	8	0.994	0.79	0.776	24.16	34.81	67450	68660	97190	98940	1.20	8.0	15.0	
3	2.640	8	0.994	0.79	0.776	24.92	35.78	69580	70840	99890	101690	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Engr.Rafi Ullah (IHPL)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Five Samples Received and Tested

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/0184
Dated: 18-03-2022

SOM Lab Ref: 010 (Page-1/1)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	0.670	4	0.501	0.20	0.197	6.83	8.97	75320	76460	98920	100430	1.40	8.0	17.5	
2	0.667	4	0.500	0.20	0.196	7.03	9.70	77560	79150	107010	109200	1.20	8.0	15.0	
3	0.677	4	0.503	0.20	0.199	6.78	8.97	74750	75130	98920	99420	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Engr.Rafi Ullah (IHPL)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Five Samples Received and Tested

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

Col Tajamal Hussain Riaz ® **Test Performed By:** **Dr. /Engr.** Rizwan Riaz

RE CSM ACE Limited.Multan.(Secretariat Office Building Multan & Allied Work)

Client Reference: ACE/RE/CSM/2022/0092 **SOM Lab Ref:** 011 (Page-1/2)

Dated: 17-03-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge 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	2.696	8	1.004	0.79	0.792	27.03	35.90	75470	75280	100230	99980	1.50	8.0	18.8	
2	2.725	8	1.010	0.79	0.801	27.85	36.60	77750	76680	102170	100760	1.50	8.0	18.8	
3	1.510	6	0.752	0.44	0.444	15.24	19.88	76390	75700	99640	98740	1.30	8.0	16.3	
4	1.498	6	0.748	0.44	0.440	14.68	19.59	73580	73580	98210	98210	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Col Tajamal Hussain Riaz ® **Test Performed By:** **Dr. /Engr.** Rizwan Riaz

RE CSM ACE Limited.Multan.(Secretariat Office Building Multan & Allied Work)

Client Reference: ACE/RE/CSM/2022/101 **SOM Lab Ref:** 011 (Page-2/2)

Dated: 19-03-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Union 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	2.582	8	0.983	0.79	0.759	23.55	32.16	65740	68430	89790	93450	1.30	8.0	16.3	
2	2.577	8	0.982	0.79	0.757	24.03	32.23	67080	70000	89990	93910	1.50	8.0	18.8	
3	0.670	4	0.501	0.20	0.197	6.80	8.66	74980	76120	95550	97000	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	6.68	8.74	73630	74750	96340	97800	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Shahzad Khaleeq Awan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PM Izhar Const.(Const Of Production Unit For Fabriziao Style-QABP Sheikhupura)

Client Reference: ICPL/Const-FS/22/024 **SOM Lab Ref:** 012 (Page-1/2)

Dated: 22-03-2022 **Dated:** 22-03-2022

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	0.676	4	0.503	0.20	0.199	7.16	9.40	78910	79310	103640	104160	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	7.21	9.60	79470	81100	105890	108050	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Shahzad Khaleeq Awan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PM Izhar Const.(Const Of Production Unit For Fabriziao Style-QABP Sheikhupura)

Client Reference: ICPL/Const-FS/22/025 **SOM Lab Ref:** 012 (Page-2/2)

Dated: 22-03-2022 **Dated:** 22-03-2022

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	1.477	6	0.743	0.44	0.434	14.78	19.80	74090	75110	99230	100600	1.50	8.0	18.8	
2	1.479	6	0.744	0.44	0.435	14.88	19.93	74600	75460	99890	101040	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Shafaqat Ali
(Asst Structure Engineer) Unique Engineering Consultants

Test Performed By: **Dr. /Engr.** Rizwan Riaz

Client Reference: Nil
Dated: 22-03-2022

SOM Lab Ref: 013 (Page-1/1)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.615	8	0.989	0.79	0.768	28.82	35.83	80450	82760	100030	102900	1.60	8.0	20.0	
2	2.602	8	0.987	0.79	0.765	27.17	34.07	75840	78320	95110	98220	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Maj Adnan Khalid (R) **Test Performed By:** **Dr. /Engr.** Rizwan Riaz

Dy Dir MTL DHA Lahore,(Infra Dev Works Overseas Enclave Sec-T DHA Ph-VII (M/s DHA-C))

Client Reference: 408/241/32/Lab/75/213 **SOM Lab Ref:** 014 (Page-1/1)

Dated: 15-03-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Moiz 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	0.595	4	0.472	0.20	0.175	5.66	8.21	62390	71300	90490	103420	1.40	8.0	17.5	
2	0.600	4	0.473	0.20	0.176	5.71	8.21	62950	71540	90490	102830	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.Arshad Khalid Awan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Sr Project Manager Fantasy Plaza Const.(Fantasy Plaza Dream Gardens,Lahore)

Client Reference: Nil **SOM Lab Ref:** 015 (Page-1/1)

Dated: 22-03-2022 **Dated:** 22-03-2022

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	2.517	8	0.971	0.79	0.740	26.37	31.55	73620	78600	88080	94030	1.40	8.0	17.5	
2	2.502	8	0.967	0.79	0.735	27.57	32.18	76980	82740	89840	96570	1.30	8.0	16.3	
3	1.510	6	0.752	0.44	0.444	15.87	19.42	79560	78840	97340	96460	1.30	8.0	16.3	
4	1.513	6	0.753	0.44	0.445	16.28	19.78	81600	80680	99130	98010	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Sohail Anjum
Project Manager MS Tower, J4, Lahore

Test Performed By: **Dr. /Engr.** Amina Rajput

Client Reference: MST/UET/2022/001
Dated: 22-03-2022

SOM Lab Ref: 016 (Page-1/1)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (SJ 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	1.499	6	0.749	0.44	0.441	14.98	18.96	75110	74940	95040	94820	1.60	8.0	20.0	
2	1.478	6	0.743	0.44	0.434	16.21	19.47	81240	82370	97590	98940	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Waqas Anwar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Resident Engineer-I,Nespak (Widening Of Aik Moria Pull,Lahore)

Client Reference: 3772/AMP/103/MWA/04/87-04 **SOM Lab Ref:** 017 (Page-1/4)
Dated: 03-01-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar(Batala Premium 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	2.651	8	0.996	0.79	0.779	24.01	34.73	67020	67970	96960	98330	1.40	8.0	17.5	
2	2.645	8	0.995	0.79	0.777	24.46	35.17	68300	69440	98180	99820	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Waqas Anwar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Resident Engineer-I,Nespak (Widening Of Aik Moria Pull,Lahore)

Client Reference: 3772/AMP/103/MWA/04/87-03 **SOM Lab Ref:** 017 (Page-2/4)
Dated: 03-01-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar(Batala Premium 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	1.491	6	0.747	0.44	0.438	13.40	18.65	67190	67500	93510	93930	1.00	8.0	12.5	
2	1.469	6	0.742	0.44	0.432	13.99	19.06	70100	71400	95550	97320	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Waqas Anwar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Resident Engineer-I,Nespak (Widening Of Aik Moria Pull,Lahore)

Client Reference: 3772/AMP/103/MWA/04/87-02 **SOM Lab Ref:** 017 (Page-3/4)
Dated: 03-01-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar(Batala Premium 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	1.010	5	0.615	0.31	0.297	9.86	13.56	70130	73200	96460	100680	1.00	8.0	12.5	
2	1.106	5	0.643	0.31	0.325	9.68	13.43	68900	65720	95510	91100	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 5	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 Waqas Anwar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Resident Engineer-I,Nespak (Widening Of Aik Moria Pull,Lahore)

Client Reference: 3772/AMP/103/MWA/04/87-01 **SOM Lab Ref:** 017 (Page-4/4)
Dated: 03-01-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar(Batala Premium 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	0.667	4	0.500	0.20	0.196	6.70	9.55	73850	75360	105330	107480	1.00	8.0	12.5	
2	0.665	4	0.498	0.20	0.195	6.73	9.60	74190	76090	105890	108610	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

Sub Divisional officer,
BSD Nankana Sb.(Baba Guru Nanak Uni At Nankana Sahib Ph-I Group No.2)

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

Client Reference: 80/SDO/BSD/NNS
Dated: 23-02-2022

SOM Lab Ref: 019 (Page-1/1)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.664	8	0.998	0.79	0.783	25.69	35.90	71720	72360	100230	101130	1.20	8.0	15.0	
2	1.455	6	0.738	0.44	0.428	13.63	19.18	68320	70230	96160	98860	1.30	8.0	16.3	
3	0.653	4	0.494	0.20	0.192	6.34	8.33	69920	72830	91840	95670	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Sub Divisional officer,
BSD Shahkot.(Const Of Residencies At RHC Muhammad Pura Distt. Nankana Sb)

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

Client Reference: 743/SDO/BSD/SKT
Dated: 09-02-2022

SOM Lab Ref: 020 (Page-1/1)
Dated: 22-03-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	1.499	6	0.749	0.44	0.441	19.34	22.68	96930	96710	113690	113430	0.80	8.0	10.0	
2	0.703	4	0.513	0.20	0.207	6.65	10.14	73290	70810	111850	108070	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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

Maj Adnan Khalid (R) **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Dy Dir MTL DHA Lahore,(Infra Dev Works Of Sec-4(Rahbar),DHA Ph-XI (M/s DHA-C))

Client Reference: 408/241/32/Lab/79/3945 **SOM Lab Ref:** 021 (Page-1/1)

Dated: 21-03-2022 **Dated:** 22-03-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Moiz 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	2.678	8	1.001	0.79	0.787	24.62	36.00	68730	68990	100510	100900	1.60	8.0	20.0	
2	2.660	8	0.998	0.79	0.782	24.36	35.60	68020	68710	99380	100390	1.50	8.0	18.8	
3	2.651	8	0.996	0.79	0.779	24.13	35.39	67360	68310	98810	100200	1.70	8.0	21.3	
4	2.629	8	0.992	0.79	0.773	24.13	35.27	67360	68840	98470	100630	1.60	8.0	20.0	
5	1.532	6	0.757	0.44	0.450	13.86	19.32	69490	67950	96830	94670	1.60	8.0	20.0	
6	1.527	6	0.756	0.44	0.449	13.83	19.27	69340	67950	96570	94640	1.80	8.0	22.5	
7	1.079	5	0.635	0.31	0.317	9.79	13.68	69620	68090	97330	95180	1.30	8.0	16.3	
8	1.069	5	0.632	0.31	0.314	10.30	14.17	73250	72320	100810	99520	1.40	8.0	17.5	
9	0.647	4	0.492	0.20	0.190	6.37	8.74	70260	73960	96340	101410	1.60	8.0	20.0	
10	0.643	4	0.491	0.20	0.189	6.42	8.84	70820	74940	97460	103130	1.40	8.0	17.5	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 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:-

Only Fifteen Samples Received and Tested

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