Maj Tanveer Ahmad (R) **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillai
Resident Engineer-2, (ACES) Sector -H, - DHA, Multan

Client Reference: ACES-DHAM-SEC-H-798 **Dated:** 28-08-2021
SOM Lab Ref: CED/SOM/4887 (Page-1/1) **Dated:** 30-08-2021
Test: Tension & Bend Test **Test Specification:** ASTM-A 615
Sample Type: Deformed Bar(MUGHAL 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	0.902	12	12.10	113	115	65.20	78.20	576	567	691	680	25.0	200	12.5	
2	0.906	12	12.12	113	115	60.20	75.50	532	522	668	655	27.5	200	13.8	
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BEND TEST:

12MM	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 Sohail Qureshi
Project Manager, Thermatek Pvt. Ltd Lahore

Test Performed By: **Dr. /Engr.** S. Asas Ali Gillani

Client Reference: 20210830-UET-01
Dated: 30-08-2021

SOM Lab Ref: 4881 (Page-1/1)
Dated: 30-08-2021

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	1.529	6	0.756	0.44	0.449	15.19	19.59	76130	74610	98210	96240	1.30	8.0	16.3	
2	1.515	6	0.753	0.44	0.445	14.75	19.59	73940	73110	98210	97100	1.10	8.0	13.8	
3	1.508	6	0.751	0.44	0.443	16.82	20.03	84310	83740	100400	99720	1.10	8.0	13.8	
4	1.498	6	0.748	0.44	0.440	16.72	19.90	83800	83800	99740	99740	1.00	8.0	12.5	
5	0.669	4	0.501	0.20	0.197	5.47	8.48	60370	61290	93530	94950	1.10	8.0	13.8	
6	0.665	4	0.498	0.20	0.195	5.71	8.41	62950	64570	92740	95120	1.40	8.0	17.5	
7	0.661	4	0.497	0.20	0.194	5.71	8.48	62950	64900	93530	96420	1.00	8.0	12.5	
8	0.659	4	0.497	0.20	0.194	5.45	8.46	60140	62000	93300	96190	1.20	8.0	15.0	
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BEND TEST:

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

Note:-

Only Twelve Samples Received and Tested

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

Muhammad Danish Khurshid **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani
Manager Construction, Orient Electronics (Pvt) Ltd, Lahore

Client Reference: OSH-SO/UET/Agha Steel Test/0300821 **SOM Lab Ref:** 4882(Page-1/1)
Dated: 30-08-2021 **Dated:** 30-08-2021

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	1.525	6	0.755	0.44	0.448	13.73	19.18	68830	67600	96160	94440	1.40	8.0	17.5	
2	1.525	6	0.755	0.44	0.448	13.30	19.49	66680	65490	97690	95950	1.40	8.0	17.5	
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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

Sub Divisional Officer
Buildings Sub Division, Chakwal

Test Performed By: **Dr. /Engr.** S. Asad Ali Gillan

Client Reference: 1088/CKL
Dated: 23-08-2021

SOM Lab Ref: 4883(Page-1/1)
Dated: 30-08-2021

Test: Tension 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	2.699	8	1.005	0.79	0.793	24.77	34.05	69160	68890	95050	94690	1.40	8.0	17.5	
2	2.696	8	1.004	0.79	0.792	24.97	34.30	69720	69550	95760	95520	1.30	8.0	16.3	
3	1.511	6	0.752	0.44	0.444	13.81	19.16	69240	68610	96060	95190	1.10	8.0	13.8	
4	1.505	6	0.750	0.44	0.442	14.02	19.27	70260	69940	96570	96130	1.00	8.0	12.5	
5	0.695	4	0.510	0.20	0.204	6.52	8.94	71940	70530	98580	96650	1.00	8.0	12.5	
6	0.694	4	0.510	0.20	0.204	6.54	8.82	72170	70750	97230	95330	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only Six Samples Received and Tested

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

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

Project Coordinator, Banu Mukhtar Contracting (Pvt) Ltd., Lahore

Client Reference: BML/10013566/001 **SOM Lab Ref:** 4884(Page-1/1)

Dated: 25-08-2021 **Dated:** 30-08-2021

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	2.652	8	0.996	0.79	0.779	25.61	33.54	71490	72500	93630	94950	1.00	8.0	12.5	
2	2.648	8	0.995	0.79	0.778	25.81	32.98	72060	73170	92060	93480	1.00	8.0	12.5	
3	1.504	6	0.750	0.44	0.442	15.21	19.01	76240	75890	95290	94860	1.10	8.0	13.8	
4	1.504	6	0.750	0.44	0.442	15.67	19.49	78530	78180	97690	97250	1.30	8.0	16.3	
5	0.670	4	0.501	0.20	0.197	5.63	8.26	62050	63000	91050	92440	1.30	8.0	16.3	
6	0.671	4	0.501	0.20	0.197	5.61	8.18	61830	62770	90150	91530	1.20	8.0	15.0	
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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

Assistant . Project Director **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

PMU-SBP Multan., Project Management Unit (PMU), Govt. of The Punjab, Sports Board Punjab

Client Reference: APD/PMU/SBP/MUL/21/242 **SOM Lab Ref:** 4885(Page-1/1)

Dated: 12-08-2021 **Dated:** 30-08-2021

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	2.752	8	1.015	0.79	0.809	34.96	39.60	97610	95320	110560	107960	1.20	8.0	15.0	
2	2.715	8	1.008	0.79	0.798	34.86	39.45	97330	96350	110130	109030	1.10	8.0	13.8	
3	1.553	6	0.762	0.44	0.456	24.41	26.30	122370	118080	131820	127200	1.00	8.0	12.5	
4	1.564	6	0.765	0.44	0.460	24.36	26.30	122120	116810	131820	126090	1.00	8.0	12.5	
5	0.669	4	0.501	0.20	0.197	7.19	9.07	79250	80460	100050	101570	1.00	8.0	12.5	
6	0.672	4	0.501	0.20	0.197	7.29	9.14	80370	81600	100830	102370	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only Six 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/ 1182-83
Dated: 26-08-2021

SOM Lab Ref: 4886(Page-1/1
Dated: 30-08-2021

Test: Tension Test & Bend Test
Guage 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	1.503	6	0.750	0.44	0.442	13.81	19.24	69240	68920	96420	95980	1.00	8.0	12.5	
2	0.666	4	0.500	0.20	0.196	8.41	9.84	92740	94630	108480	110690	1.10	8.0	13.8	
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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 Tanveer Ahmad (R) **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Resident Engineer-2, ACES Sector -V, - DHA, Multan

Client Reference: ACES-DHAM-SEC-H-798 **SOM Lab Ref:** 4887(Page-1/1)

Dated: 28-08-2021 **Dated:** 30-08-2021

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar(Mughal 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	2.692	12	1.004	1.56	0.791	28.85	36.14	40790	80440	51090	100760	1.50	8.0	18.8	
2	2.668	12	0.999	1.56	0.784	25.89	34.12	36610	72840	48240	95980	1.40	8.0	17.5	
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BEND TEST:

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

Zou Jiawei **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Project Manager,China Energy Engineering Group Northeast No. 2, Electric Power Construction Co.

Client Reference: DD-401 A-FA-530 **SOM Lab Ref:** 4888(Page-1/1)

Dated: 30-08-2021 **Dated:** 30-08-2021

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar(Amreli & 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	2.600	8	0.986	0.79	0.764	28.10	31.93	78460	81130	89130	92160	1.00	8.0	12.5	Amreli
2	2.601	8	0.986	0.79	0.764	28.26	33.91	78890	81570	94680	97900	1.20	8.0	15.0	Amreli
3	1.497	6	0.748	0.44	0.440	14.32	19.37	71790	71790	97080	97080	1.10	8.0	13.8	FF
4	1.488	6	0.746	0.44	0.437	14.93	20.69	74860	75370	103720	104440	1.20	8.0	15.0	FF
5	1.486	6	0.746	0.44	0.437	14.39	20.08	72150	72640	100660	101350	1.10	8.0	13.8	FF
6	1.496	6	0.748	0.44	0.440	13.97	19.42	70000	70000	97340	97340	1.10	8.0	13.8	FF
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Witnessed By: Wasif Ali Sr. Engineer (NESPAK)

BEND TEST:

# 8	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:-

Only Nine Samples Received and Tested

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