Tahawar Owais **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PM DSG Energy. (Const Of Office Building at 29-M QIE,Lahore)

Client Reference: Nil **SOM Lab Ref:** 4352 (Page-1/1)

Dated: 27-06-2024 **Dated:** 27-06-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Hunza 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	2.639	8	0.994	0.79	0.776	23.90	33.61	66740	67940	93830	95520	1.50	8.0	18.8	
2	2.635	8	0.993	0.79	0.774	24.31	33.23	67870	69280	92770	94690	1.50	8.0	18.8	
3	1.501	6	0.749	0.44	0.441	14.80	18.52	74190	74020	92840	92630	1.40	8.0	17.5	
4	1.500	6	0.749	0.44	0.441	15.06	18.78	75470	75300	94120	93900	1.50	8.0	18.8	
5	0.661	4	0.497	0.20	0.194	6.47	8.53	71380	73590	94090	97000	1.00	8.0	12.5	
6	0.661	4	0.497	0.20	0.194	6.22	8.38	68570	70690	92400	95260	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
# 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 Arfan Asif **Test Performed By:** **Dr. /Engr.** Bilal

ER NESPAK Lhr.(Const Of Green Building for EMC,EPD and Allied` New Entities Estb Under PGDP)

Client Reference: 4731/MAA/03/58 **SOM Lab Ref:** 4353-4358 (P-1/1)

Dated: 26-06-2024 **Dated:** 27-06-2024

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	2.664	8	0.998	0.79	0.783	23.82	34.30	66510	67100	95760	96620	1.30	8.0	16.3	
2	2.667	8	0.999	0.79	0.784	23.55	34.17	65740	66240	95390	96120	1.50	8.0	18.8	
3	1.490	6	0.747	0.44	0.438	13.66	19.24	68470	68780	96420	96860	1.60	8.0	20.0	
4	1.487	6	0.746	0.44	0.437	13.53	19.11	67810	68270	95800	96460	1.40	8.0	17.5	
5	1.044	5	0.625	0.31	0.307	9.55	13.58	67960	68620	96600	97540	1.50	8.0	18.8	
6	1.037	5	0.623	0.31	0.305	9.45	13.53	67230	68330	96240	97820	1.40	8.0	17.5	
7	0.672	4	0.501	0.20	0.197	6.14	8.89	67670	68700	98020	99510	1.30	8.0	16.3	
8	0.668	4	0.500	0.20	0.196	6.12	8.89	67450	68820	98020	100020	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
# 5	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