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

RE Prime Engineering & Testing Consultants.(Const Of Link Highway Connecting LSM,Pkg-III)

Client Reference: RE-PE-ACE-P/LSM-NMN/2024/070 **Dated:** 03-04-2024

SOM Lab Ref: CED/SOM/3928(Page-1/1) **Dated:** 04-04-2024

Test: Tension Test & 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	2.393	20	19.71	314	305	157.00	199.00	500	515	633	653	35.0	200	17.5	
2	2.403	20	19.74	314	306	157.00	200.00	500	513	637	654	30.0	200	15.0	
3	1.500	16	15.60	201	191	104.70	131.50	521	548	654	689	32.5	200	16.3	
4	1.515	16	15.68	201	193	106.00	132.50	527	550	659	687	30.0	200	15.0	
5	0.895	12	12.05	113	114	61.50	78.20	544	540	691	686	27.5	200	13.8	
6	0.884	12	11.97	113	113	62.70	79.20	554	558	700	704	27.5	200	13.8	
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BEND TEST:

20mm	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

Project Manager **Test Performed By:** **Dr. /Engr.** Nauman Khurram
GCC,Lahore. (Gulberg City Center,Gulberg II Lahore)

SOM Lab
Client Reference: Nil **Ref:** 3929 (Page-1/1)
Dated: 03-04-2024 **Dated:** 04-04-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (AK Smelters)

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	2.542	8	0.975	0.79	0.747	25.66	34.53	71630	75750	96390	101940	1.30	8.0	16.3	
2	1.475	6	0.743	0.44	0.433	11.03	16.87	55290	56180	84560	85930	1.50	8.0	18.8	
3	0.632	4	0.487	0.20	0.186	6.37	8.33	70260	75550	91840	98750	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	**Note:-**
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	Only Six Samples Received and Tested

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

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

CRE Osmani & Compny.Fsd.(B/Wall Along Periphery Of M-3 Ind/City Near Sahianwala Interchange)

Client Reference: CRE/M3IC/FIC-057Lab/01 **SOM Lab Ref:** 3930 (Page-1/1)

Dated: 02-04-2024 **Dated:** 04-04-2024

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

Gauge Length: 8 inch **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	1.194	5	0.669	0.31	0.351	11.01	14.65	78330	69180	104210	92040	1.30	8.0	16.3	*
2	1.110	5	0.644	0.31	0.326	10.21	13.66	72670	69100	97180	92410	1.40	8.0	17.5	*
3	0.668	4	0.500	0.20	0.196	7.39	10.01	81500	83160	110390	112640	1.10	8.0	13.8	
4	0.671	4	0.501	0.20	0.197	6.85	9.23	75540	76690	101730	103280	1.20	8.0	15.0	
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BEND TEST:

# 5	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

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

Astt Dir.Building Section DHA Gujranwala.(Const Of 10 Marla Villas Block-A)

Client Reference: 111/3/AD Bldgs/Lab/1305 **SOM Lab Ref:** 3931 (Page-1/1)

Dated: 04-04-2024 **Dated:** 04-04-2024

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

Gauge Length: 8 inch **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	0.657	4	0.496	0.20	0.193	7.00	8.84	77230	80030	97460	100990	1.00	8.0	12.5	
2	0.659	4	0.497	0.20	0.194	7.00	8.92	77230	79620	98360	101400	1.20	8.0	15.0	
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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