

Executive Engineer PWD,

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

Highways Div Bhimber.(Upgradation Of Jandala Pirgali Rd (Part-II) L 7.64Km,Distt. Bhimber)

**Client Reference:** 1588

**Dated:** 22-08-2022

**SOM Lab Ref:** CED/SOM/845(Page-1/1)

**Dated:** 02-09-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** MS 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.934	25	25.26	491	501	342.00	400.70	697	683	816	800	25.0	200	12.5	
2	3.940	25	25.28	491	502	343.00	401.00	699	684	817	799	25.0	200	12.5	
3	2.243	20	19.08	314	286	162.00	207.20	516	567	660	726	30.0	200	15.0	
4	2.247	20	19.09	314	286	163.00	207.20	519	570	660	724	27.5	200	13.8	
5	1.511	16	15.65	201	192	112.00	137.70	557	583	685	716	27.5	200	13.8	
6	1.509	16	15.64	201	192	111.50	138.20	555	581	687	719	27.5	200	13.8	
7	0.955	13	12.45	133	122	62.00	91.70	467	510	691	754	25.0	200	12.5	
8	0.965	13	12.51	133	123	56.20	93.20	423	458	702	759	27.5	200	13.8	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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](http://www.uet-civil.edu.pk)

Bai Jinliang, Dy Manager

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

Power China SEPCO1 Pakistan.(220Kv Mirpur Khas Substation & Extension At Hala Rd Substation)

**Client Reference:** ADB-200/2018/304

**Dated:** 02-09-2022

**SOM Lab Ref:** CED/SOM/848(Page-1/1)

**Dated:** 02-09-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** MS 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.478	20	20.06	314	316	111.70	180.50	356	354	575	572	40.0	200	20.0	
2	2.478	20	20.05	314	316	138.70	194.70	441	440	620	617	35.0	200	17.5	
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**Witnessed By:** Sohaib Ali (Nespak, Sub Engineer)

**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Maj. Tahir Mobien Khan ®

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Exec Dir The Lake City Holding (Pvt) Ltd Lahore.(Roof Gardens Lake City Lahore)

Client Reference: Nil

SOM Lab

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Ref:

1/2)

Dated: 02-09-2022

Dated:

02-09-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.487	6	0.746	0.44	0.437	13.30	19.18	66680	67140	96160	96820	1.30	8.0	16.3	
2	1.490	6	0.747	0.44	0.438	13.35	19.06	66940	67240	95550	95990	1.50	8.0	18.8	
3	1.487	6	0.746	0.44	0.437	13.25	19.06	66430	66880	95550	96200	1.40	8.0	17.5	
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Witnessed By:

Mubasher (Q.C Unison)

**BEND TEST:**

# 6 Sample bend through 180 degrees Satisfactorily without any crack

# 6 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](http://www.uet-civil.edu.pk)

Maj. Tahir Mobien Khan ®

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

Exec Dir The Lake City Holding (Pvt) Ltd Lahore.(Roof Gardens Lake City Lahore)

**Client Reference:** Nil

**SOM Lab**

846,849 (Page-

**Ref:**

2/2)

**Dated:** 02-09-2022

**Dated:**

02-09-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.615	8	0.989	0.79	0.768	24.06	34.17	67160	69090	95390	98120	1.50	8.0	18.8	
2	2.610	8	0.988	0.79	0.767	24.26	34.27	67730	69760	95680	98550	1.50	8.0	18.8	
3	2.597	8	0.986	0.79	0.763	23.85	34.02	66590	68950	94970	98330	1.50	8.0	18.8	
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**Witnessed By:**

Mubasher (Q.C Unison)

**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](http://www.uet-civil.edu.pk)

State Life Insurance, Chief Engr.

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

State Life Insurance Empls Co-Operative Housing Society Lhr.(Const Of Over Head tank Block J)

**Client Reference:** Nil

**SOM Lab** 847 (Page-

**Ref:** 1/1)

**Dated:** 02-09-2022

**Dated:** 02-09-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.483	6	0.745	0.44	0.436	14.93	19.67	74860	75540	98610	99520	1.40	8.0	17.5	
2	1.489	6	0.747	0.44	0.438	15.06	20.00	75470	75810	100250	100710	1.30	8.0	16.3	
3	1.055	5	0.628	0.31	0.310	10.88	13.53	77380	77380	96240	96240	1.40	8.0	17.5	
4	1.056	5	0.628	0.31	0.310	10.62	13.46	75570	75570	95730	95730	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	7.49	8.97	82620	84310	98920	100940	1.20	8.0	15.0	
6	0.666	4	0.500	0.20	0.196	6.80	8.56	74980	76510	94420	96350	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 5	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](http://www.uet-civil.edu.pk)