

Aamir Shahzad Alvi

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

**Client Reference:** QC/HQ/CIVIL/72

**Dated:** 22-03-2023

**SOM Lab Ref:** CED/SOM/1969(Page-1/2)

**Dated:** 22-03-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** Deformed Bar (FF 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.420	20	19.80	314	308	152.70	197.00	486	496	627	640	37.5	200	18.8	
2	2.466	20	20.00	314	314	149.70	199.00	477	477	633	634	37.5	200	18.8	
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**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)

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/84

Dated: 21-03-2023

SOM Lab Ref: CED/SOM/1969(Page-2/2)

Dated: 22-03-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Batala 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.176	20	18.78	314	277	134.00	187.20	427	484	596	676	35.0	200	17.5	
2	2.367	20	19.60	314	302	144.20	201.70	459	479	642	669	35.0	200	17.5	
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**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)

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/66

Dated: 14-02-2023

SOM Lab Ref: CED/SOM/1970(Page-1/4)

Dated: 22-03-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	3.846	25	24.98	491	490	235.50	336.20	480	481	685	687	32.5	200	16.3	
2	3.795	25	24.81	491	483	215.00	316.50	438	445	645	655	32.5	200	16.3	
3	2.342	20	19.49	314	298	149.50	200.50	476	502	638	673	30.0	200	15.0	
4	2.372	20	19.62	314	302	154.50	206.70	492	512	658	684	32.5	200	16.3	
5	0.998	12	12.72	113	127	51.50	69.50	455	406	615	547	25.0	200	12.5	
6	0.998	12	12.72	113	127	52.50	70.70	464	413	625	557	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 Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/74

Dated: 27-02-2023

SOM Lab Ref: CED/SOM/1970(Page-2/4)

Dated: 22-03-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	3.754	25	24.67	491	478	219.50	312.00	447	460	636	653	30.0	200	15.0	
2	3.699	25	24.49	491	471	199.00	284.00	405	423	579	603	32.5	200	16.3	
3	1.495	16	15.57	201	190	104.70	137.50	521	550	684	722	27.5	200	13.8	
4	1.535	16	15.78	201	196	110.70	142.20	551	567	707	728	27.5	200	13.8	
5	0.987	12	12.65	113	126	54.20	73.70	479	431	652	587	30.0	200	15.0	
6	0.996	12	12.71	113	127	52.20	74.50	462	412	659	587	32.5	200	16.3	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/77

Dated: 07-03-2023

SOM Lab Ref: CED/SOM/1970(Page-3/4)

Dated: 22-03-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	2.393	20	19.71	314	305	149.70	219.50	477	491	699	720	30.0	200	15.0	
2	2.402	20	19.74	314	306	154.50	224.70	492	505	715	735	27.5	200	13.8	
3	1.524	16	15.72	201	194	97.50	133.00	485	503	661	686	25.0	200	12.5	
4	1.522	16	15.71	201	194	96.00	134.50	477	496	669	694	32.5	200	16.3	
5	0.994	12	12.70	113	127	57.70	76.70	510	456	678	606	25.0	200	12.5	
6	1.000	12	12.74	113	127	55.70	77.50	492	438	685	609	22.5	200	11.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/82

Dated: 16-03-2023

SOM Lab Ref: CED/SOM/1970(Page-4/4)

Dated: 22-03-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	2.370	20	19.61	314	302	155.50	207.20	495	515	660	687	32.5	200	16.3	
2	2.362	20	19.57	314	301	153.00	202.70	487	509	645	674	32.5	200	16.3	
3	1.000	12	12.74	113	127	64.70	82.00	572	508	725	644	25.0	200	12.5	
4	1.000	12	12.74	113	127	64.70	81.50	572	508	721	640	22.5	200	11.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
12mm	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)

Ahmad Ali Khan,PM

**Test Performed By:** Dr. /Engr. Wasim Abbas

MECONS Pvt.Ltd.(220KV D/C Twin Bundle T/Line from 500/220KV Fsd G/Station to Lalian G/Station)

**Client Reference:** MECONS/TLC-17/406

**Dated:** 21-03-2023

**SOM Lab Ref:** CED/SOM/1972(Page-1/1)

**Dated:** 22-03-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** 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	2.367	20	19.61	314	302	168.70	220.00	537	559	700	729	30.0	200	15.0	
2	2.400	20	19.73	314	306	165.50	218.70	527	542	696	716	32.5	200	16.3	
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**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)

New Metro City

Test Performed By:

Dr. /Engr.

Wasim Abbas

Housing Scheme Manager QA/QC Mandi Bahauddin.(A Project Of BSM Dev)

Client Reference: NMC/MBD/18

SOM Lab

Ref:

1971 (Page-1/1)

Dated: 21-03-2023

Dated:

22-03-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.544	6	0.760	0.44	0.454	14.65	20.18	73430	71160	101170	98050	1.20	8.0	15.0	
2	1.532	6	0.757	0.44	0.450	14.70	19.42	73680	72040	97340	95170	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	6.49	8.63	71610	72700	95210	96660	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	6.54	8.72	72170	73270	96110	97570	1.40	8.0	17.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 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)



Omar Sadiq

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Project Manager One Liberty Mall and H&S Hotel Lahore.

Client Reference: OL/OS/2023/35

SOM Lab

Ref:

1973 (Page-1/1)

Dated: 22-03-2023

Dated:

22-03-2023

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	2.669	8	0.999	0.79	0.784	22.00	37.07	61410	61880	103500	104290	1.50	8.0	18.8	
2	2.699	8	1.005	0.79	0.793	22.02	37.21	61470	61240	103870	103480	1.30	8.0	16.3	
3	1.463	6	0.740	0.44	0.430	14.48	21.66	72560	74240	108580	111100	1.30	8.0	16.3	
4	1.475	6	0.743	0.44	0.433	12.84	21.66	64380	65420	108580	110330	1.10	8.0	13.8	
5	0.666	4	0.500	0.20	0.196	5.83	8.89	64300	65610	98020	100020	1.30	8.0	16.3	
6	0.672	4	0.501	0.20	0.197	5.78	9.07	63740	64710	100050	101570	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 6	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)

Muhammad Azmat ,RE

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

Nespak-Turk Pak JV, MCH Bwn.(Estb Of 200 Bedded Mother And Child Hospital & Nursing College)

**Client Reference:** 4460/13/MA/04/201

**SOM Lab**

**Ref:** 1974 (Page-1/2)

**Dated:** 13-03-2023

**Dated:** 22-03-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Faizan 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	2.674	8	1.000	0.79	0.786	25.25	33.23	70490	70850	92770	93250	1.30	8.0	16.3	
2	2.723	8	1.009	0.79	0.800	25.50	33.28	71200	70310	92920	91760	1.30	8.0	16.3	
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**Witnessed By:** Muhammad Anwer QA/QC Material Engineer.(NESPAK MCH Bahawalnager)

**BEND TEST:**

# 8	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)

Muhammad Azmat ,RE

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

Nespak-Turk Pak JV, MCH Bwn.(Estb Of 200 Bedded Mother And Child Hospital & Nursing College)

**Client Reference:** 4460/13/MA/04/202

**SOM Lab**

**Ref:** 1974 (Page-2/2)

**Dated:** 21-03-2023

**Dated:** 22-03-2023

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.446	6	0.736	0.44	0.425	14.93	19.39	74860	77500	97180	100610	1.30	8.0	16.3	
2	1.454	6	0.737	0.44	0.427	14.70	18.25	73680	75920	91460	94250	1.30	8.0	16.3	
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**Witnessed By:** Muhammad Anwer QA/QC Material Engineer.(NESPAK MCH Bahawalnager)

**BEND TEST:**

# 6	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)

Zahid Mughal  
C/O M/S Amanah Noor Residence Wapda Town, Lahore.

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

**Client Reference:** Nil

**SOM Lab**

**Ref:** 1975 (Page-1/1)

**Dated:** 22-03-2023

**Dated:** 22-03-2023

**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	2.620	8	0.990	0.79	0.770	24.84	35.17	69350	71160	98180	100730	1.30	8.0	16.3	
2	1.446	6	0.736	0.44	0.425	14.95	19.29	74960	77600	96670	100080	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	6.68	9.33	73630	74750	102860	104420	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 6	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)

EPCM Consultants

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Senior RE EPCM Sahiwal.(NCB-PICIIP-03)(Lot 3 Const Of Conduit)

Client Reference: 3976/MMA/Lot-3/110/Lot-2/496

SOM Lab

Ref:

1976 (Page-1/1)

Dated: 16-03-2023

Dated:

22-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pak 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	1.513	6	0.753	0.44	0.445	15.87	21.15	79560	78660	106020	104830	1.00	8.0	12.5	
2	1.514	6	0.753	0.44	0.445	14.73	19.90	73830	73000	99740	98620	1.30	8.0	16.3	
3	1.042	5	0.624	0.31	0.306	9.48	12.08	67450	68330	85940	87060	1.10	8.0	13.8	
4	1.042	5	0.624	0.31	0.306	10.14	13.83	72160	73100	98410	99700	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	5.56	6.95	61270	62200	76660	77830	1.00	8.0	12.5	
6	0.672	4	0.501	0.20	0.197	5.68	7.56	62610	63570	83410	84680	1.00	8.0	12.5	
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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)

Asif Shahzad

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

Project Engr. Building Section DHA Gujranwala.(Const Of Office Complex DHA Gujranwala)

Client Reference: 111/3/PE Bldgs/Gen/20

SOM Lab

Ref: 1977 (Page-1/1)

Dated: 22-03-2023

Dated: 22-03-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Batala 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	2.622	8	0.991	0.79	0.771	24.89	36.29	69500	71210	101310	103810	1.10	8.0	13.8	
2	2.596	8	0.986	0.79	0.763	24.28	36.24	67790	70190	101170	104750	1.30	8.0	16.3	
3	1.501	6	0.749	0.44	0.441	15.24	21.07	76390	76220	105610	105370	1.30	8.0	16.3	
4	1.477	6	0.743	0.44	0.434	15.06	20.80	75470	76510	104230	105680	1.20	8.0	15.0	
5	1.038	5	0.623	0.31	0.305	9.09	13.53	64690	65750	96240	97820	1.30	8.0	16.3	
6	1.047	5	0.626	0.31	0.308	9.25	13.53	65780	66210	96240	96860	1.50	8.0	18.8	
7	0.677	4	0.503	0.20	0.199	7.14	9.58	78690	79080	105670	106200	1.00	8.0	12.5	
8	0.672	4	0.501	0.20	0.197	6.98	9.23	77000	78170	101730	103280	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
# 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: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional officer,

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

HSD-II Fsd.(Carriageway Sahianwala Khurrianwala Rd From Bakangan to Sadaqat Mill Chawk)

**Client Reference:** 375/F-II

**SOM Lab**

**Ref:** 1978 (Page-1/1)

**Dated:** 18-01-2023

**Dated:** 22-03-2023

**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	0.673	4	0.502	0.20	0.198	4.79	7.21	52840	53370	79470	80280	1.50	8.0	18.8	
2	0.672	4	0.501	0.20	0.197	4.94	7.29	54520	55350	80370	81600	1.50	8.0	18.8	
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**BEND TEST:**

# 4	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)

