

Haider Abbas

**Test Performed By:**

Dr. /Engr.

S. Asad Ali Gillani

Lab Technician. Banu Mukhtar Contracting (Pvt.)Ltd.(PK Meats and Food Company)

**Client Reference:** Nil**Dated:** 22-11-2021**SOM Lab Ref:** CED/SOM/5338(Page-1/1)**Dated:** 22-11-2021**Test:** Tension Test & Bend Test**Test Specification:** ASTM-A 615**Sample Type:** M S 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	3.961	25	25.36	491	505	251.70	336.70	513	499	686	667	35.0	200	17.5	
2	4.066	25	25.68	491	518	253.00	333.70	515	489	680	645	40.0	200	20.0	
3	2.163	20	18.73	314	276	140.70	182.70	448	511	582	663	40.0	200	20.0	
4	2.170	20	18.76	314	276	137.20	182.00	437	497	579	659	35.0	200	17.5	
5	1.056	12	13.09	113	134	68.70	88.20	607	511	780	656	30.0	200	15.0	
6	1.015	12	12.83	113	129	66.70	85.00	590	516	752	658	30.0	200	15.0	
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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)

Mr.Nasir Mehmood  
Construction Manager EEPL.(Sitara Serene Multistoried Building Lahore)

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

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/5340(Page-1/1)  
**Test:** Tension Test & Bend Test  
**Sample Type:** M S Deformed Bar

**Dated:** 22-11-2021  
**Dated:** 22-11-2021  
**Test Specification:** ASTM-A 615  
**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	3.851	25	25.00	491	491	241.00	315.50	491	491	643	643	37.5	200	18.8	
2	3.880	25	25.09	491	494	280.20	343.70	571	567	700	696	32.5	200	16.3	
3	2.253	19	19.12	284	287	176.70	206.00	623	616	727	718	25.0	200	12.5	
4	2.248	19	19.09	284	286	171.70	206.00	606	600	727	720	27.5	200	13.8	
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**Witnessed By:** M.Fayyaz Rasul

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
19mm	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)

Nauman Gull

Test Performed By:

Dr. /Engr. Asad Ghalani

PM Pro-Health,Lahore. (Children`s Heart Hospital And Research Institute)

Client Reference: T211101-L002-UET/LTR

SOM Lab

Ref: 5330(Page-1/1)

Dated: 20-10-2021

Dated: 22-11-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.535	6	0.758	0.44	0.451	10.19	14.70	51100	49850	73680	71880	1.70	8.0	21.3	
2	1.512	6	0.752	0.44	0.444	12.49	18.88	62590	62030	94630	93780	1.50	8.0	18.8	
3	0.696	4	0.511	0.20	0.205	6.07	9.50	66890	65250	104770	102210	1.00	8.0	12.5	
4	0.683	4	0.506	0.20	0.201	5.86	9.19	64640	64320	101390	100890	1.10	8.0	13.8	
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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)

Nafiz OZCAN

Test Performed By: Dr. /Engr. Asad Ghalani

SA-RA Group,(ADB-2012018(Lot 1) 220Kv Double Circuit Transmission Line From D.I Khan To Zhob)

Client Reference: MIG/2021/1274

SOM Lab

Ref: 5332(Page-1/1)

Dated: 19-11-2021

Dated: 22-11-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (Batala Premiun

Gauge Length: 8 inch

Sample Type:

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	2.694	8	1.004	0.79	0.792	26.20	36.39	73140	72950	101600	101340	1.50	8.0	18.8	
2	2.667	8	0.999	0.79	0.784	25.59	35.75	71430	71980	99800	100570	1.40	8.0	17.5	
3	1.465	6	0.741	0.44	0.431	13.93	19.03	69850	71310	95400	97390	1.20	8.0	15.0	
4	1.465	6	0.741	0.44	0.431	13.83	20.20	69340	70790	101270	103390	1.10	8.0	13.8	
5	1.473	6	0.743	0.44	0.433	14.65	21.12	73430	74610	105870	107580	1.00	8.0	12.5	
6	0.674	4	0.502	0.20	0.198	7.24	9.84	79810	80620	108480	109570	1.00	8.0	12.5	
7	0.669	4	0.501	0.20	0.197	6.95	9.53	76660	77830	105100	106700	1.00	8.0	12.5	
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Witnessed By: S.Engr. Sohaib Ali(Nespak)

**BEND TEST:**

sr. #(1-2)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fourteen Samples Received and Tested
sr. #(3-5)	Sample bend through 180 degrees Satisfactorily without any crack	
sr. #(6-7)	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)

Maqsood Ahmad  
Construction Manager BSM Developers (Pvt.)Ltd, Ph-8 Lahore

Test Performed By: Dr. /Engr. Asad Ghalani

Client Reference: CM/BSM/Ph-8/15

SOM Lab

Ref: 5333(Page-1/1)

Dated: 19-11-2021

Dated: 22-11-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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	2.640	8	0.994	0.79	0.776	23.45	32.72	65460	66640	91350	93000	1.30	8.0	16.3	
2	2.640	8	0.994	0.79	0.776	23.21	32.18	64800	65970	89840	91460	1.50	8.0	18.8	
3	1.502	6	0.749	0.44	0.441	15.75	21.66	78940	78760	108580	108330	1.30	8.0	16.3	
4	1.502	6	0.749	0.44	0.441	16.43	22.07	82370	82180	110620	110370	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 Six Samples Received and Tested
# 6	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)

Engr. Muddasir Tahir

**Test Performed By:** Dr. /Engr. Asad Ghalani

CM Zameen Aurum,(Construction Manager Zameen Aurum at Plot No.15 Block L,Gulberg-III Lahore)

**Client Reference:** ZD/ZA/STR016

**SOM Lab**

**Ref:** 5334(Page-1/1)

**Dated:** 22-11-2021

**Dated:** 22-11-2021

**Test:** Tension Test & Bend Test

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

Deformed Bar (Pak

**Gauge Length:** 8 inch

**Sample Type:** 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	2.502	8	0.967	0.79	0.735	24.67	32.98	68870	74020	92060	98950	1.20	8.0	15.0	
2	2.553	8	0.977	0.79	0.750	26.68	34.66	74480	78450	96760	101920	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 Three Samples Received and Tested
# 6	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)

Engr. Javed Asad

Test Performed By: Dr. /Engr. Asad Ghalani

CRE JIP Consultants Jalalpur Shrif.(Construction of Jalalpur Irrigation Canal And its System Pkg-3)

Client Reference: JIPIC/TECH/P-3/CRE/34

SOM Lab

Ref: 5335(Page-1/1)

Dated: 18-11-2021

Dated: 22-11-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.473	6	0.743	0.44	0.433	15.01	18.60	75210	76430	93250	94760	1.20	8.0	15.0	
2	1.469	6	0.742	0.44	0.432	15.92	20.31	79810	81290	101780	103670	1.10	8.0	13.8	
3	0.671	4	0.501	0.20	0.197	6.65	8.51	73290	74410	93860	95290	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	6.95	8.66	76660	77440	95550	96510	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 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)

Sub Divisional Officer

Test Performed By: Dr. /Engr. Asad Ghalani

BSD,KRK.(Cons.of 02-NOS Additional Class Rooms At Govt.Girls Primary Schools Rakh Butt)

Client Reference: 17/KRK

SOM Lab

Ref: 5336(Page-1/1)

Dated: 25-10-2021

Dated: 22-11-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.521	6	0.754	0.44	0.447	16.51	20.69	82780	81480	103720	102100	1.40	8.0	17.5	
2	1.488	6	0.746	0.44	0.437	14.95	18.78	74960	75470	94120	94760	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	6.90	8.63	76100	77260	95210	96660	1.00	8.0	12.5	
4	0.675	4	0.502	0.20	0.198	6.42	8.10	70820	71540	89370	90270	1.00	8.0	12.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Four 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)



Deputy Project Director Center

Test Performed By:

Dr. /Engr.

Asad Ghalani

PMU-SBP Nation Hockey Stadium, Lahore (Sports Complex Dijkot, Distt.Faisalabad.)

Client Reference: DPD/PMU/SBP/LHR/21/

SOM Lab

Ref:

5337(Page-1/1)

Dated: 19-11-2021

Dated:

22-11-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.593	8	0.985	0.79	0.762	28.75	36.36	80250	83200	101510	105240	1.20	8.0	15.0	
2	1.499	6	0.749	0.44	0.441	15.04	19.57	75370	75200	98100	97880	1.10	8.0	13.8	
3	0.663	4	0.498	0.20	0.195	6.42	9.68	70820	72640	106790	109530	1.00	8.0	12.5	
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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)

Qaisar Abbas

Test Performed By: Dr. /Engr. Asad Ghalani

Project Director, IDAP. (Establishment of Teaching Hospital Sheik zayad II Rahimyar Khan)

Client Reference: DP/SZ-II/IDAP/2021/SO/10

SOM Lab

Ref: 5339(Page-1/1)

Dated: 18-11-2021

Dated: 22-11-2021

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	0.613	4	0.479	0.20	0.180	6.70	8.10	73850	82060	89370	99300	1.20	8.0	15.0	
2	0.609	4	0.477	0.20	0.179	6.83	8.18	75320	84150	90150	100730	1.10	8.0	13.8	
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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)

PD, Innovative Cons. Company  
Lahore, (Construction Of ABL, Branch at Jubilee Town, Lahore.)

Test Performed By: Dr. /Engr. Asad Ghalani

Client Reference: ICL/ABL/JT/1121/01

SOM Lab

Ref: 5341(Page-1/1)

Dated: 22-11-2021

Dated: 22-11-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.658	8	0.997	0.79	0.781	27.12	34.56	75700	76570	96470	97590	1.20	8.0	15.0	
2	2.656	8	0.997	0.79	0.781	27.70	34.96	77320	78210	97610	98740	1.30	8.0	16.3	
3	1.476	6	0.743	0.44	0.434	14.98	18.81	75110	76150	94270	95570	1.40	8.0	17.5	
4	1.466	6	0.741	0.44	0.431	15.09	18.96	75620	77200	95040	97020	1.20	8.0	15.0	
5	1.035	5	0.622	0.31	0.304	10.96	13.86	77960	79500	98630	100580	1.10	8.0	13.8	
6	1.034	5	0.622	0.31	0.304	10.86	13.78	77240	78760	98050	99990	1.00	8.0	12.5	
7	0.670	4	0.501	0.20	0.197	7.34	8.89	80940	82170	98020	99510	0.90	8.0	11.3	
8	0.666	4	0.500	0.20	0.196	6.98	8.61	77000	78570	94990	96930	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)

**Test Performed by:** Dr. Asad Ghalani

**M Nadeem**

Ibrahim Nizami Steel Wire Ind.(Pvt.)Ltd,Lahore

**Client Reference No.:** Nil .

Dated: 22-11-2021

**SOM Lab Ref:** 5331

Dated: 22-11-2021

**Test:** Tensile Test

**Sample Type:** H.T Wire.

**Test Specification:** ASTM-A – 82

**Gauge Length:** 50mm

**Tension Test Results**

Sr. No.	Weight	Diameter	Area	Ultimate Load	Ultimate stress	Elongation
	Kg/m	(mm)	(mm <sup>2</sup> )	KN	(Mpa)	%
1	0.630	10.09	80.00	111.8	1398	5.0
2	0.618	10.01	78.73	109.8	1387	7.5

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