

Major Muhammad Azeem ®

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE ACES,DHA Multan.(Development Of Pkg-3 &amp; Services Roads DHA Multan)

Client Reference: RE/Pkg-3/Material/02

Dated: 17-03-2022

SOM Lab Ref: CED/SOM/027(Page-1/1)

Dated: 24-03-2022

Test: Tension Test &amp; 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	0.998	12	12.72	113	127	65.00	87.00	575	512	769	686	32.5	200	16.3	
2	1.010	12	12.80	113	129	68.00	90.70	601	529	802	706	27.5	200	13.8	
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**BEND TEST:**

12mm Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**Only Three Samples  
Received and TestedNote: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Malik Mukhtar Ahmad

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

RE AZ Engg. Associates.(Estb. Of Mother & Child Block,Teaching Hospital,DG Khan)

Client Reference: RE/AZEA/DGK/022

SOM Lab

Ref: 032 (Page-1/1)

Dated: 22-03-2022

Dated: 25-03-2022

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	2.819	8	1.027	0.79	0.828	27.93	36.65	77980	74400	102310	97610	1.60	8.0	20.0	
2	2.792	8	1.022	0.79	0.821	27.32	36.14	76270	73390	100880	97080	1.50	8.0	18.8	
3	1.466	6	0.741	0.44	0.431	14.65	19.24	73430	74960	96420	98430	1.30	8.0	16.3	
4	1.470	6	0.742	0.44	0.432	14.75	19.29	73940	75310	96670	98460	1.50	8.0	18.8	
5	0.657	4	0.496	0.20	0.193	6.44	8.87	71040	73620	97800	101340	1.20	8.0	15.0	
6	0.658	4	0.496	0.20	0.193	6.49	8.87	71610	74200	97800	101340	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)

Sub Divisional officer,

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

BSD Shujabad.(Up-Gradation Rehabilition and Const Of Govt.Girls Primary School Basti Kalroo)

**Client Reference:** 800/Shujabad

**SOM Lab**

**Ref:** 033 (Page-1/2)

**Dated:** 08-03-2022

**Dated:** 25-02-2022

**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	1.643	6	0.784	0.44	0.483	16.74	23.62	83900	76430	118390	107850	1.40	8.0	17.5	
2	0.658	4	0.496	0.20	0.193	6.03	9.14	66550	68960	100830	104490	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 Four 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 Ali Gillani

BSD Shujabad.(Strengthening Of BHU'S In The Punjab Ph-II One At KHOJA Tehsil Shujabad)

**Client Reference:** 801/Shujabad

**SOM Lab**

**Ref:** 033 (Page-2/2)

**Dated:** 08-03-2022

**Dated:** 25-02-2022

**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	1.508	6	0.751	0.44	0.443	13.40	19.47	67190	66740	97590	96930	1.70	8.0	21.3	
2	0.681	4	0.505	0.20	0.200	6.52	8.77	71940	71940	96670	96670	1.50	8.0	18.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four 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)

Nauman Rafique

Test Performed By: Dr. /Engr. Amina Rajoot

CTO Sabcon Associates.(Const Of Commercial Building At 388A Gulberg III, Lahore)

Client Reference: SABCON/2022/CTO/08

SOM Lab

Ref: 034 (Page-1/1)

Dated: 24-03-2022

Dated: 25-03-2022

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	1.475	6	0.743	0.44	0.433	13.66	18.81	68470	69580	94270	95800	1.20	8.0	15.0	
2	1.477	6	0.743	0.44	0.434	13.86	18.93	69490	70450	94880	96200	1.50	8.0	18.8	
3	1.043	5	0.625	0.31	0.307	10.06	13.56	71580	72280	96460	97400	1.50	8.0	18.8	
4	1.049	5	0.626	0.31	0.308	10.04	13.53	71440	71900	96240	96860	1.50	8.0	18.8	
5	0.660	4	0.497	0.20	0.194	7.05	9.23	77790	80190	101730	104880	1.10	8.0	13.8	
6	0.657	4	0.496	0.20	0.193	6.98	9.60	77000	79790	105890	109730	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)

Abdul Ghafar  
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20220325

SOM Lab

Ref: 035(Page-1/1)

Dated: 25-03-2022

Dated: 25-03-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Batala Premium)

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	0.660	4	0.497	0.20	0.194	6.37	9.07	70260	72430	100050	103140	1.00	8.0	12.5	
2	0.660	4	0.497	0.20	0.194	5.98	8.74	65990	68030	96340	99310	1.20	8.0	15.0	
3	0.660	4	0.497	0.20	0.194	6.22	8.99	68570	70690	99150	102210	1.00	8.0	12.5	
4	1.476	6	0.743	0.44	0.434	14.42	20.95	72300	73300	105000	106450	1.30	8.0	16.3	
5	1.477	6	0.743	0.44	0.434	14.43	21.12	72350	73350	105870	107330	1.10	8.0	13.8	
6	1.478	6	0.743	0.44	0.434	14.98	21.46	75110	76150	107560	109040	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 Eight 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)

Building Research Station  
Assistant Director-I, Lahore. (D-36, S.I.T.E Manghopir Road, Karachi)

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

**Client Reference:** 154-R/747

**SOM Lab**

**Ref:** 036 (Page-1/1)

**Dated:** 21-03-2022

**Dated:** 25-03-2022

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Union 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	2.564	8	0.980	0.79	0.754	26.28	35.39	73370	76870	98810	103520	1.00	8.0	12.5	
2	1.518	6	0.754	0.44	0.446	15.82	20.05	79300	78230	100500	99150	1.50	8.0	18.8	
3	0.663	4	0.498	0.20	0.195	7.00	8.77	77230	79210	96670	99150	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)

Ma Desheng

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

PM State Grid CEPET.(500Kv D/C Transmission Line Nokhar S/S-Lahore North S/S-Lahore)

Client Reference: CET/ADB-301A/SEC-II/UET-22-416

SOM Lab

Ref: 038 (Page-1/1)

Dated: 25-03-2022

Dated: 25-03-2022

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	2.713	8	1.007	0.79	0.797	25.13	37.02	70150	69540	103360	102450	1.50	8.0	18.8	
2	2.687	8	1.003	0.79	0.790	25.20	37.16	70350	70350	103730	103730	1.40	8.0	17.5	
3	2.667	8	0.999	0.79	0.784	24.92	36.85	69580	70110	102880	103660	1.40	8.0	17.5	
4	1.504	6	0.750	0.44	0.442	13.35	20.39	66940	66630	102190	101730	1.50	8.0	18.8	
5	1.511	6	0.752	0.44	0.444	13.76	21.20	68980	68360	106280	105320	1.50	8.0	18.8	
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Witnessed By: Abdul Shakoor (Chief Engr.NESPAK),Engr.Usama Ghafor (P.E)

**BEND TEST:**

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

**Test Performed By:**

**Dr. /Engr.**

Asad Ali Gillani

Pak-Turk Maarif Islamabad.(Pakturk Maarif School Middle For Boys Islampura Lahore)

**Client Reference:** Nil

**SOM Lab**

**Ref:**

039 (Page-1/1)

**Dated:** 25-03-2022

**Dated:**

25-03-2022

**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	1.485	6	0.745	0.44	0.436	15.70	19.75	78690	79410	98970	99880	1.10	8.0	13.8	
2	1.497	6	0.748	0.44	0.440	16.00	20.05	80220	80220	100500	100500	1.40	8.0	17.5	
3	0.669	4	0.501	0.20	0.197	6.22	8.43	68570	69620	92960	94380	1.40	8.0	17.5	
4	0.672	4	0.501	0.20	0.197	6.32	8.63	69700	70760	95210	96660	1.30	8.0	16.3	
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**Witnessed By:** Engr.Karram Elahi (Civil Engr.)

**BEND TEST:**

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

Ravi Construction Company

Manager Procurement, Lahore. (Northern Bottling (Pvt.) Ltd)-Peshawar)

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: UET/RCC/110/22

Dated: 25-03-2022

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 040 (Page-1/1)

Dated: 25-03-2022

ASTM-A-615

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	2.637	8	0.993	0.79	0.775	28.03	36.01	78260	79780	100540	102490	1.30	8.0	16.3	
2	2.652	8	0.996	0.79	0.779	28.03	36.09	78260	79370	100740	102160	1.30	8.0	16.3	
3	1.468	6	0.741	0.44	0.431	16.02	19.85	80320	82000	99480	101560	1.50	8.0	18.8	
4	1.465	6	0.741	0.44	0.431	16.02	19.75	80320	82000	98970	101040	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	7.97	9.33	87910	89700	102860	104950	1.10	8.0	13.8	
6	0.669	4	0.501	0.20	0.197	7.93	9.50	87460	88790	104770	106360	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 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)

Abid Hayat Khan

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

RE Nespak Jhelum.(Dualization Of Lilla Interchange Via P.D.Khan To Jhelum I/C Bypasses L-128Km)

SOM Lab

Client Reference: NESPAK/RE/JH/22/57

Ref: 041 (Page-1/1)

Dated: 21-03-2022

Dated: 25-03-2022

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	1.565	6	0.765	0.44	0.460	12.28	18.06	61570	58900	90540	86610	1.50	8.0	18.8	
2	1.559	6	0.764	0.44	0.458	12.23	18.04	61320	58910	90440	86890	1.30	8.0	16.3	
3	1.088	5	0.638	0.31	0.320	8.26	11.77	58750	56910	83760	81150	2.00	8.0	25.0	
4	1.077	5	0.635	0.31	0.317	8.26	11.64	58750	57450	82820	80990	2.00	8.0	25.0	
5	0.628	4	0.485	0.20	0.185	5.76	8.72	63510	68660	96110	103900	1.10	8.0	13.8	
6	0.634	4	0.487	0.20	0.186	5.71	8.66	62950	67690	95550	102740	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)

Test Performed by: Dr. S. Asad Ali Gillani

Tufail Muhammad Gul  
Supports Contractor  
Bukhtair Woodworks & Sports Maintenance

Client Reference No.: Nil

Dated: 24-03-2022

SOM Lab Ref: CED/SOM/037

Dated: 25-03-2022

Test Type: Bending and compression Test

Sample Type: Maple Wood

**Test Results: Bending**

Sample No.	Sample Type	Size of Wood Specimen (mm x mm x mm)	Length of the Tested Sample (mm)	Flexural Load (kN)	Flexural Strength (Mpa)
1	Maple Wood	35 x 50 x 1000	900	1.6	24.7

**Test Results: Compression (Parallel to Grains)**

Sample No.	Sample Type	Size of Wood Specimen (mm x mm x mm)	Compression Load (kN)	Compressive Strength (MPa)
1	Maple Wood	35 x 50 x 50	100.5	57.4

**Test Results: Compression (Perpendicular to Grains)**

Sample No.	Sample Type	Size of Wood Specimen (mm x mm x mm)	Compression Load (kN)	Compressive Strength (MPa)
1	Maple Wood	35 x 50 x 50	39.0	22.3

