

Resident Engineer,  
 PICIIP Sahiwal, NESPAK (Pvt) Ltd., 73-A W, Block Farid Town Sahiwal.

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 3976/11/MT/Lot-2/13

SOM Lab

Ref: 3647(Page-1/1)

Dated: 11-01-2021

Dated: 14-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.051	5	0.627	0.31	0.309	10.70	14.80	76150	76400	105300	105640	1.40	8.0	17.5	
2	1.090	5	0.638	0.31	0.320	11.01	15.11	78330	75880	107480	104120	1.20	8.0	15.0	
3	0.668	4	0.500	0.20	0.196	5.73	9.38	63180	64470	103420	105530	1.20	8.0	15.0	
4	0.658	4	0.496	0.20	0.193	6.01	9.50	66320	68730	104770	108570	1.10	8.0	13.8	
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**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
# 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  
Changa Managa, Sub Division Changa Manga

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 316/IE/G

SOM Lab

Ref: 3648(Page-1/1)

Dated: 29-12-2020

Dated: 14-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.674	8	1.000	0.79	0.786	25.71	34.42	71770	72140	96100	96590	1.20	8.0	15.0	
2	2.673	8	1.000	0.79	0.786	25.48	34.25	71150	71510	95620	96110	1.30	8.0	16.3	
3	1.560	6	0.764	0.44	0.458	14.27	20.08	71540	68720	100660	96700	1.50	8.0	18.8	
4	1.561	6	0.764	0.44	0.459	13.83	19.85	69340	66470	99480	95370	1.40	8.0	17.5	
5	1.031	5	0.621	0.31	0.303	11.42	15.04	81230	83100	106970	109440	1.30	8.0	16.3	
6	1.043	5	0.625	0.31	0.307	11.11	14.98	79050	79820	106610	107650	1.20	8.0	15.0	
7	0.684	4	0.506	0.20	0.201	5.98	8.63	65990	65660	95210	94740	1.30	8.0	16.3	
8	0.685	4	0.506	0.20	0.201	6.03	8.66	66550	66220	95550	95070	1.20	8.0	15.0	
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**BEND TEST:**

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

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

SOM Lab

Client Reference: MIG/2021/29

Ref: 3649(Page-1/1)

Dated: 13-01-2021

Dated: 14-01-2021

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	2.664	8	0.998	0.79	0.783	21.22	33.76	59250	59780	94250	95100	1.40	8.0	17.5	
2	2.647	8	0.995	0.79	0.778	20.82	33.30	58110	59010	92970	94410	1.50	8.0	18.8	
3	2.652	8	0.996	0.79	0.779	21.68	33.71	60530	61390	94110	95440	1.40	8.0	17.5	
4	1.995	7	0.864	0.60	0.586	19.34	27.68	71080	72780	101730	104160	1.00	8.0	12.5	
5	1.998	7	0.865	0.60	0.587	19.37	28.03	71190	72770	103040	105320	1.10	8.0	13.8	
6	1.995	7	0.864	0.60	0.586	19.67	27.73	72320	74050	101920	104350	1.20	8.0	15.0	
7	1.509	6	0.751	0.44	0.443	14.55	20.54	72910	72420	102960	102260	1.30	8.0	16.3	
8	1.499	6	0.749	0.44	0.441	14.98	20.71	75110	74940	103830	103590	1.00	8.0	12.5	
9	1.533	6	0.758	0.44	0.451	13.61	19.47	68210	66550	97590	95210	1.00	8.0	12.5	
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Witnessed By:

Zohaib Ali, Sub Engineer, NESPAK

**BEND TEST:**

# 8(Sr. 1&2)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Eighteen Samples Received and Tested</b>
# 8 (Sr 3)	Sample bend through 180 degrees Satisfactorily without any crack	
# 7(Sr 4&5)	Sample bend through 180 degrees Satisfactorily without any crack	
# 7(Sr. 6)	Sample bend through 180 degrees Satisfactorily without any crack	
# 6(Sr7,8,9)	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

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: MIG/2021/29

Dated: 13-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref:

3649(Page-2/2)

Dated:

14-01-2021

ASTM-A-615

Deformed Bar(BATALA Steel)

Gauge Length:

8 inch

Sample Type:

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	0.656	4	0.496	0.20	0.193	7.70	9.73	84870	87950	107350	111240	1.00	8.0	12.5	
2	0.654	4	0.494	0.20	0.192	7.26	9.58	80040	83370	105670	110070	1.00	8.0	12.5	
3	0.646	4	0.492	0.20	0.190	7.46	9.58	82290	86620	105670	111230	1.10	8.0	13.8	
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Witnessed By:

Zohaib Ali, Sub Engineer, NESPAK

**BEND TEST:**

# 4(Sr. 1&2)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>
# 4 (Sr 3)	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)

Brigadier Muhammad Akhtar  
(Retd.)

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Project Director, New Metro City, Kharian Sarai Alamgir

Client Reference: PD/NMC/21/123

SOM Lab

Ref:

3650(Page-1/1)

Dated: 13-01-2021

Dated:

14-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (SJ  
Steel)

Gauge Length: 8 inch

Sample Type:

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	2.536	8	0.974	0.79	0.745	27.24	34.83	76040	80630	97240	103120	1.60	8.0	20.0	
2	2.524	8	0.972	0.79	0.742	27.12	35.44	75700	80600	98950	105350	1.40	8.0	17.5	
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**BEND TEST:**

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

<b>Note: Please always confirm the results of above report on web <a href="http://www.uet-civil.edu.pk">www.uet-civil.edu.pk</a></b>		