

Resident Engineer,  
DKC. NESPAK (Pvt) Ltd.

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Client Reference: SA-394/ DKC/St. Test /NA/58

Dated: 14-04-2019

SOM Lab Ref: CED/SOM/718 (Page-2/2)

Dated: 25-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Sample Type: Deformed Bar( Mughal 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	1.035	12	12.96	113	132	68.00	92.20	601	516	815	699	27.5	200	13.8	
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**BEND TEST:**

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

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

Resident Engineer,  
DKC. NESPAK (Pvt) Ltd.

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Client Reference: SA-394/ DKC/St. Test /NA/57

Dated: 14-04-2019

SOM Lab Ref: CED/SOM/718 (Page-1/2)

Dated: 25-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Sample Type: Deformed Bar( Mughal 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	0.866	12	11.84	113	110	68.00	77.00	601	619	681	700	25.0	200	12.5	
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**BEND TEST:**

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

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

Ch Abdul Ghafoor

Test Performed By:

Dr. /Engr.

Nauman  
Khurram

Resident Engineer, PEPAC, W. W. C. Adjacent to Sundar Ind. Estate, District Kasur (Package-Q)

SOM Lab

Client Reference: RE/PEPAC/WWC/KSR/2019/65

Ref:

714(Page-1/1)

Dated: 23-04-2019

Dated:

25-04-2019

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	1.457	6	0.738	0.44	0.428	13.88	18.30	69590	71540	91720	94290	1.30	8.0	16.3	
2	1.459	6	0.739	0.44	0.429	13.93	18.37	69850	71640	92070	94440	1.10	8.0	13.8	
3	1.033	5	0.622	0.31	0.304	9.33	12.79	66360	67670	91020	92810	1.20	8.0	15.0	
4	1.031	5	0.621	0.31	0.303	9.19	12.66	65420	66930	90070	92150	1.40	8.0	17.5	
5	0.665	4	0.498	0.20	0.195	5.58	7.75	61490	63070	85430	87620	1.40	8.0	17.5	
6	0.666	4	0.500	0.20	0.196	5.61	7.80	61830	63090	85990	87750	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>  <b>Only Nine Samples Received and Tested</b>
# 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)

Aftab Ahmed

Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By:

Dr. /Engr.

Riaz Ahmed  
Goraya

Client Reference: 410/6/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 715(Page-1/1)

Dated: 25-04-2019

Dated: 25-04-2019

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	1.479	6	0.744	0.44	0.435	13.20	18.97	66170	66930	95090	96180	1.40	8.0	17.5	
2	1.485	6	0.745	0.44	0.436	13.17	18.91	66020	66620	94780	95650	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>  <b>Only Three Samples Received and Tested</b>

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman Khurram

Dy Dir MTL, Const. of Girls School W-Sector, DHA PH-VIII - (M/S Kingcrete)

SOM Lab

Client Reference: 408/241/E/Lab/542/09

Ref: 716(Page-1/1)

Dated: 23-04-2019

Dated: 25-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Kamran 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	2.587	8	0.984	0.79	0.760	22.88	32.90	63890	66410	91840	95460	1.30	8.0	16.3	
2	2.584	8	0.983	0.79	0.759	22.94	32.77	64030	66650	91490	95230	1.50	8.0	18.8	
3	1.465	6	0.741	0.44	0.431	12.51	18.06	62700	64010	90540	92430	1.30	8.0	16.3	
4	1.460	6	0.739	0.44	0.429	12.49	18.01	62590	64200	90290	92600	1.30	8.0	16.3	
5	0.642	4	0.491	0.20	0.189	4.74	7.24	52270	55320	79810	84460	1.40	8.0	17.5	
6	0.643	4	0.491	0.20	0.189	4.81	7.39	53060	56150	81500	86240	1.40	8.0	17.5	
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**BEND TEST:**

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

M. Sohail Wali  
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 3772/SH/PIC/MSW/019/12

SOM Lab

Ref: 717(Page-2/2)

Dated: 09-04-2019

Dated: 25-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(City UAE)

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	1.492	6	0.747	0.44	0.438	14.42	20.49	72300	72630	102700	103170	1.20	8.0	15.0	
2	1.474	6	0.743	0.44	0.433	14.12	20.15	70770	71910	101020	102650	1.20	8.0	15.0	
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Witnessed By: Usman, Nespak

**BEND TEST:**

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

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

M. Sohail Wali  
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 3772/103/MSW/019/004

SOM Lab

Ref: 717(Page-1/2)

Dated: 16-03-2019

Dated: 25-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(City UAE)

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	2.621	8	0.990	0.79	0.770	21.63	35.49	60390	61960	99090	101670	1.50	8.0	18.8	
2	2.673	8	1.000	0.79	0.786	22.07	34.07	61610	61930	95110	95590	1.60	8.0	20.0	
3	0.661	4	0.497	0.20	0.194	5.63	8.66	62050	63970	95550	98500	1.20	8.0	15.0	
4	0.665	4	0.498	0.20	0.195	5.88	9.28	64860	66530	102290	104920	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 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)

Resident Engineer,  
DKC, NESPAK (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

Client Reference: SA-394/DKC/St. Test/NA/57

SOM Lab

Ref: 718(Page-1/1)

Dated: 14-04-2019

Dated: 25-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Mughal 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	1.492	6	0.747	0.44	0.438	14.42	20.49	72300	72630	102700	103170	1.20	8.0	15.0	
2	1.474	6	0.743	0.44	0.433	14.12	20.15	70770	71910	101020	102650	1.20	8.0	15.0	
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**BEND TEST:**

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



Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman  
Khurram

Dy Dir MTL, Const. Masjid at Sector - D, DHA PH-VI - (M/S Warraich Builders)

Client Reference: 408/241/E/Lab/544/ 18

SOM Lab

Ref: 719(Page-1/1)

Dated: 25-04-2019

Dated: 25-04-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AFCO 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	1.504	6	0.750	0.44	0.442	13.15	20.66	65910	65620	103570	103100	1.20	8.0	15.0	
2	1.535	6	0.758	0.44	0.451	13.20	21.20	66170	64560	106280	103690	1.40	8.0	17.5	
3	0.655	4	0.494	0.20	0.192	5.68	8.48	62610	65220	93530	97420	1.50	8.0	18.8	
4	0.642	4	0.491	0.20	0.189	5.56	8.36	61270	64830	92180	97540	1.40	8.0	17.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  <b>Only Four Samples Received and Tested</b>

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