

Director Projects  
 Innovative® Construction Company, Lahore

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: ICL/ISM/SKT/0419/03  
 SOM Lab Ref: CED/SOM/667(Page-1/1)  
 Test: Tension Test & Bend Test  
 Sample Type: Deformed Bar

Dated: 15-04-2019  
 Dated: 16-04-2019  
 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	2.480	20	20.06	314	316	159.20	209.70	507	504	667	664	27.5	200	13.8	
2	2.491	20	20.10	314	317	165.50	214.50	527	522	683	676	32.5	200	16.3	
3	1.560	16	15.91	201	199	106.20	131.20	528	535	653	661	32.5	200	16.3	
4	1.565	16	15.93	201	199	104.70	130.50	521	526	649	655	30.0	200	15.0	
5	0.896	12	12.05	113	114	60.20	75.00	532	528	663	658	30.0	200	15.0	
6	0.909	12	12.14	113	116	61.00	76.70	539	527	678	663	27.5	200	13.8	
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**BEND TEST:**

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

The City School  
Burewala Campus

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: nil  
SOM Lab Ref: CED/SOM/671(Page-1/1)  
Test: Tension Test & Bend Test  
Sample Type: Deformed Bar

Dated: 15-04-2019  
Dated: 16-04-2019  
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	4.002	25	25.48	491	510	284.00	361.50	579	557	736	709	32.5	200	16.3	
2	3.939	25	25.28	491	502	281.50	357.50	573	561	728	713	30.0	200	15.0	
3	2.197	20	18.88	314	280	137.50	190.70	438	492	607	682	30.0	200	15.0	
4	2.288	20	19.27	314	292	137.00	191.00	436	470	608	656	32.5	200	16.3	
5	0.970	12	12.54	113	124	61.80	93.00	546	501	822	753	25.0	200	12.5	
6	0.983	12	12.63	113	125	69.60	95.50	615	556	844	763	27.5	200	13.8	
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**BEND TEST:**

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

DCRE/ RE-I,  
 Zeeruk International (Pvt) Ltd. Lahore Sialkot Motorway Project

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: LSMP/RE-I/2019/741  
 SOM Lab Ref: CED/SOM/677 (Page-1/1)  
 Test: Tension Test & Bend Test  
 Sample Type: Deformed Bar(Nomee Steel)

Dated: 17-01-2019  
 Dated: 17-04-2019  
 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	3.891	25	25.13	491	496	263.70	332.70	537	532	678	671	30.0	200	15.0	
2	3.578	25	24.09	491	456	254.70	325.20	519	559	662	714	37.5	200	18.8	
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**BEND TEST:**

25mm	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)

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman  
Khurram

Dy Dir MTL, Infra Dew Works at Sector -R, Pkg- 1, DHA Ph-IX - (M/S DHA C - Coy)

SOM Lab

Client Reference: 408/241/E/Lab/532/426

Ref: 674(Page-1/1)

Dated: 16-04-2019

Dated: 17-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (S J

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	3.445	9	1.135	1.00	1.012	31.24	45.43	68910	68090	100200	99010	1.00	8.0	12.5	
2	3.450	9	1.136	1.00	1.014	31.50	46.13	69470	68510	101730	100330	1.30	8.0	16.3	
3	2.652	8	0.996	0.79	0.779	25.05	35.73	69920	70910	99750	101150	1.50	8.0	18.8	
4	2.667	8	0.999	0.79	0.784	25.64	35.78	71570	72120	99890	100650	1.10	8.0	13.8	
5	1.485	6	0.745	0.44	0.436	12.86	18.65	64480	65080	93510	94360	1.30	8.0	16.3	
6	1.492	6	0.747	0.44	0.438	12.81	19.27	64230	64520	96570	97010	1.10	8.0	13.8	
7	0.661	4	0.497	0.20	0.194	5.73	8.82	63180	65130	97230	100240	1.10	8.0	13.8	
8	0.661	4	0.497	0.20	0.194	5.76	8.84	63510	65480	97460	100470	1.20	8.0	15.0	
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**BEND TEST:**

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

Imran Aish Khan  
Resident Engineer, NESPAK (Pvt) Ltd. (Const. of AUDITORIUM, Innovation Center & aajamia Masjid)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 3854/13/IAK/07/563

Dated: 15-04-2019

Test: Tension Test & Bend Test

Test Specification:

Gauge Length: 8 inch

Sample Type:

SOM Lab

Ref: 675(Page-1/1)

Dated: 17-04-2019

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	2.656	8	0.997	0.79	0.781	28.20	34.76	78720	79620	97040	98160	1.40	8.0	17.5	
2	2.662	8	0.998	0.79	0.782	29.79	37.79	83160	84010	105490	106570	1.20	8.0	15.0	
3	1.605	6	0.775	0.44	0.472	17.48	24.31	87630	81690	121860	113600	1.30	8.0	16.3	
4	1.608	6	0.776	0.44	0.473	17.40	24.26	87220	81140	121610	113120	1.50	8.0	18.8	
5	0.659	4	0.497	0.20	0.194	7.67	9.30	84530	87150	102520	105690	1.10	8.0	13.8	
6	0.659	4	0.497	0.20	0.194	7.65	9.33	84310	86920	102860	106040	0.90	8.0	11.3	
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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)

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman Khurram

Dy Dir MTL, Infra Development Works of Sector - E, DHA Phase IX - (M/S Inland )

Client Reference: 408/241/E/Lab/533/34

SOM Lab

Ref: 676(Page-1/2)

Dated: 16-04-2019

Dated: 17-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar ( City 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	2.653	8	0.997	0.79	0.780	23.41	34.83	65370	66210	97240	98490	1.60	8.0	20.0	
2	2.655	8	0.997	0.79	0.780	23.34	35.29	65170	66010	98520	99790	1.50	8.0	18.8	
3	1.511	6	0.752	0.44	0.444	14.19	20.54	71130	70490	102960	102030	1.00	8.0	12.5	
4	1.508	6	0.751	0.44	0.443	14.44	21.10	72400	71910	105770	105050	1.10	8.0	13.8	
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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>
# 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)

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Nauman  
Khurram

Dy Dir MTL, Infra Dev Works at OHWT # 1, Sector - B (Extn) DHA Phase V - (M/S Inland )

Client Reference: 408/241/E/Lab/534/19

SOM Lab

Ref:

676(Page-2/2)

Dated: 16-04-2019

Dated:

17-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar ( City 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	2.659	8	0.997	0.79	0.781	23.31	35.09	65090	65840	97950	99080	1.10	8.0	13.8	
2	2.649	8	0.995	0.79	0.778	23.67	34.83	66080	67100	97240	98740	1.40	8.0	17.5	
3	1.679	6	0.792	0.44	0.493	14.37	20.90	72050	64300	104750	93490	1.20	8.0	15.0	
4	1.498	6	0.748	0.44	0.440	14.22	20.59	71280	71280	103210	103210	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>  <b>Only Six Samples Received and Tested</b>
# 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)

