

Resident Engineer,
EA Consulting (Pvt.) Ltd. Sukkur- Multan Motorway Project Section -III,

Test Performed By: Dr. /Engr. M Yousaf

Client Reference: RE-EA/M.P-III/309 -2018

Dated: 28-01-2019

SOM Lab Ref: CED/SOM/222 (Page-1/1)

Dated: 30-01-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: L - Bolt

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.181	13	13.82	133	150	78.00	89.00	588	520	671	594	20.0	200	10.0	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Syed Yasir Ali
Resident Engineer, NESPAK (Pvt) Ltd. Sialkot

Test Performed By: Dr. /Engr. M Rehan Ashraf

Client Reference: 3730/31/SYA/09/467

SOM Lab

Ref: 217(Page-1/1)

Dated: 26-01-2019

Dated: 30-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(FF
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.478	6	0.743	0.44	0.434	17.13	20.64	85840	87030	103470	104900	1.00	8.0	12.5	
2	1.497	6	0.748	0.44	0.440	16.92	20.95	84820	84820	105000	105000	1.00	8.0	12.5	
3	1.042	5	0.624	0.31	0.306	10.88	13.40	77380	78390	95370	96610	1.10	8.0	13.8	
4	1.049	5	0.626	0.31	0.308	11.01	13.46	78330	78830	95730	96350	1.00	8.0	12.5	
5	0.666	4	0.500	0.20	0.196	7.54	9.25	83180	84880	101960	104040	1.00	8.0	12.5	
6	0.660	4	0.497	0.20	0.194	7.59	8.84	83750	86340	97460	100470	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

K. T. Brothers
10-A, Peco Road Badami Bagh Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil
Dated: 30-01-2019

SOM Lab
Ref: 218(Page-1/1)
Dated: 30-01-2019

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar(AMS 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.479	6	0.744	0.44	0.435	15.97	21.25	80070	80990	106530	107760	1.30	8.0	16.3	
2	0.648	4	0.492	0.20	0.190	5.83	8.53	64300	67680	94090	99040	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Muhammad Aftab
 Project Coordinator, Banu Mukhtar Contracting (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: BML/PC/INTERLOOP/050

SOM Lab

Ref: 219(Page-1/2)

Dated: 25-01-2019

Dated: 30-01-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.645	6	0.784	0.44	0.483	17.18	22.73	86100	78430	113940	103800	1.40	8.0	17.5	
2	1.637	6	0.783	0.44	0.481	16.82	22.58	84310	77120	113180	103530	1.50	8.0	18.8	
3	0.592	4	0.471	0.20	0.174	4.96	6.73	54750	62930	74190	85280	1.40	8.0	17.5	
4	0.589	4	0.469	0.20	0.173	4.96	6.93	54750	63290	76440	88370	1.50	8.0	18.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Muhammad Aftab
Project Coordinator, Banu Mukhtar Contracting (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: BML/PC/Pioneer Cement/061

SOM Lab

Ref: 219(Page-2/2)

Dated: 28-01-2019

Dated: 30-01-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.517	6	0.754	0.44	0.446	18.55	21.51	92990	91740	107810	106360	1.00	8.0	12.5	
2	1.504	6	0.750	0.44	0.442	18.78	21.99	94120	93690	110210	109710	1.20	8.0	15.0	
3	1.068	5	0.632	0.31	0.314	11.98	15.36	85210	84130	109290	107900	1.20	8.0	15.0	
4	1.053	5	0.627	0.31	0.309	11.98	15.11	85210	85490	107480	107830	1.10	8.0	13.8	
5	0.649	4	0.493	0.20	0.191	6.03	8.69	66550	69680	95770	100290	1.10	8.0	13.8	
6	0.654	4	0.494	0.20	0.192	7.26	9.48	80040	83370	104540	108900	0.90	8.0	11.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Muhammad Aftab
 Project Coordinator, Banu Mukhtar Contracting (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: BML/PC/INTERLOOP/050

SOM Lab

Ref: 220,221(Page-1/1)

Dated: 25-01-2019

Dated: 30-01-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.567	8	0.980	0.79	0.754	24.62	31.65	68730	72010	88360	92580	1.80	8.0	22.5	
2	2.553	8	0.977	0.79	0.750	24.70	31.70	68960	72630	88510	93230	1.50	8.0	18.8	
3	2.544	8	0.976	0.79	0.748	24.52	31.45	68440	72290	87790	92720	1.90	8.0	23.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five Samples Received and Tested
# 8	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

M/S Nord (Pvt) Ltd.
Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil
Dated: 30-01-2019
Test: Tension Test

SOM Lab
Ref: 223(Page-1/1)
Dated: 30-01-2019

Gauge Length: 8 inch

Test Specification: 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.214	5	0.674	0.31	0.357	9.17	14.95	65270	56680	106390	92380	0.90	8.0	11.3	
2	0.502	4	0.434	0.20	0.148	4.59	6.68	50590	68360	73630	99500	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

