

MR. USAMA

Test Performed By:

Dr. /Engr.

M Rizwan Riaz

Client Engineer, Stylers Internatinal (Pvt) Ltd. 20 KM Ferozpur Road Lahore.

Client Reference: nil

Dated: 06-03-2019

SOM Lab Ref: CED/SOM/409(Page-1/1)

Dated: 06-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar

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	3.922	25	25.23	491	500	310.00	381.20	632	620	777	763	30.0	200	15.0	
2	0.969	12	12.54	113	123	59.00	83.00	522	478	734	673	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
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

Qurban Ali Khan
Resident Engineer, Techno Consultant International (Pvt) Ltd. D. I. Khan

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

Client Reference: RE/CPEC/DIK/2019/479

Dated: 27-02-2019

SOM Lab Ref: CED/SOM/411 (Page-1/1)

Dated: 06-03-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J - 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	4.059	25	25.66	491	517	321.50	373.50	655	622	761	723	27.5	200	13.8	
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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

Qurban Ali Khan
Resident Engineer, Techno Consultant International (Pvt) Ltd. D. I. Khan

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

Client Reference: RE/CPEC/DIK/2019/479

Dated: 27-02-2019

SOM Lab Ref: CED/SOM/411 (Page-1/1)

Dated: 06-03-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J - 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	4.059	25	25.66	491	517	321.50	373.50	655	622	761	723	27.5	200	13.8	
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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

Aftab A. Mughal
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 3836/13/9A/AA/C-1-MTR-224

SOM Lab

Ref: 410(Page-2/3)

Dated: 06-03-2019

Dated: 06-03-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.452	6	0.737	0.44	0.427	12.92	18.71	64740	66710	93760	96610	1.40	8.0	17.5	
2	1.483	6	0.745	0.44	0.436	13.89	21.05	69640	70280	105510	106480	1.20	8.0	15.0	
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BEND TEST:

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

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

Aftab A. Mughal
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 3836/13/9A/AA/C-1-MTR-225

SOM Lab

Ref: 410(Page-3/3)

Dated: 06-03-2019

Dated: 06-03-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.622	8	0.991	0.79	0.771	24.46	34.32	68300	69980	95820	98180	1.60	8.0	20.0	
2	2.645	8	0.995	0.79	0.777	24.64	33.97	68790	69940	94820	96410	1.60	8.0	20.0	
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BEND TEST:

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

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

Qurban Ali Khan
 Resident Engineer, Techno Consultant International (Pvt) Ltd. D. I. Khan

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

Client Reference: RE/CPEC/DIK/2019/479

SOM Lab

Ref: 411(Page-1/1)

Dated: 27-02-2019

Dated: 06-03-2019

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	2.615	8	0.989	0.79	0.768	24.67	34.37	68870	70840	95960	98710	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only One Sample 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