

Arfan ul Haq

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Resident Engineer, NESPAK, (Pvt) Ltd. D. I. Khan Motorway, Package-3

Client Reference: CPEC/NESPAK/CS/RE/PKG3/19/1205

Dated: 04-10-2019

SOM Lab Ref: CED/SOM/1559(Page-1-1)

Dated: 11-10-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: M S Deformed Bar(FF 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.305	20	19.35	314	294	166.20	210.20	529	566	669	715	27.5	200	13.8	
2	2.216	20	18.96	314	282	141.70	189.70	451	502	604	672	32.5	200	16.3	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested
12.5mm	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

Arfan ul Haq
Resident Engineer, NESPAK, (Pvt) Ltd. D. I. Khan Motorway, Package-3

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: CPEC/NESPAK/CS/RE/PKG3/19/1205

SOM Lab

Ref: 1559(Page-1/1)

Dated: 04-10-2019

Dated: 11-10-2019

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	1.485	6	0.745	0.44	0.436	14.44	19.93	72400	73070	99890	100810	1.30	8.0	16.3	
2	1.480	6	0.744	0.44	0.435	15.14	19.95	75880	76750	99990	101140	1.30	8.0	16.3	
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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

Sub Divisional Officer
Highway Sub Division Shahpur

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 393/SP

SOM Lab

Ref: 1560(Page-1/1)

Dated: 11-09-2019

Dated: 11-10-2019

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	1.476	6	0.743	0.44	0.434	16.41	19.95	82260	83400	99990	101380	1.30	8.0	16.3	
2	0.637	4	0.488	0.20	0.187	6.70	8.48	73850	78990	93530	100030	1.20	8.0	15.0	
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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

Sub Divisional Officer
Buildings Sub Division, Nankana Sahib

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 496-

Dated: 28-09-2019

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 1561 (Page-1/1)

Dated: 11-10-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.256	6	0.685	0.44	0.369	10.11	17.25	50690	60440	86450	103090	0.40	8.0	5.0	
2	1.252	6	0.685	0.44	0.368	10.09	14.85	50590	60480	74450	89010	0.20	8.0	2.5	
3	0.621	4	0.481	0.20	0.182	5.33	7.97	58790	64610	87910	96600	1.30	8.0	16.3	
4	0.621	4	0.481	0.20	0.182	5.42	8.02	59800	65720	88470	97220	1.10	8.0	13.8	
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BEND TEST:

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

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

