

Arfan ul Haq

Test Performed By:

Dr. /Engr. M Rizwan Riaz

Resident Engineer, NESPAK (Pvt) Ltd. (CPEC) Western Route, Hakla (On M1) - Yarak (D.I.Khan)

Client Reference: CPEC/NESPAK/CS/RE/PKG3/19/1120

SOM Lab

Ref: 1264(Page-1/1)

Dated: 06-08-2019

Dated: 09-08-2019

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	2.733	8	1.011	0.79	0.803	29.20	38.35	81530	80210	107060	105330	1.40	8.0	17.5	
2	2.730	8	1.011	0.79	0.802	30.28	38.89	84520	83260	108570	106940	1.30	8.0	16.3	
3	1.630	6	0.781	0.44	0.479	14.60	21.40	73170	67210	107250	98520	1.40	8.0	17.5	
4	1.624	6	0.779	0.44	0.477	14.80	21.53	74190	68440	107910	99540	1.30	8.0	16.3	
5	0.652	4	0.494	0.20	0.192	7.51	9.17	82850	86300	101170	105380	1.00	8.0	12.5	
6	0.663	4	0.498	0.20	0.195	7.20	9.07	79360	81400	100050	102610	1.00	8.0	12.5	
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BEND TEST:

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

Naseer Ahmad
 Director, Reliance Engineering, Multan

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: RECS/Marketing/UET-APL-002

SOM Lab

Ref: 1266(Page-1/1)

Dated: 08-08-2019

Dated: 09-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Moiz 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	1.101	5	0.642	0.31	0.324	10.14	13.37	72160	69040	95150	91040	1.20	8.0	15.0	
2	0.584	4	0.468	0.20	0.172	6.88	8.58	75880	88230	94650	110060	0.90	8.0	11.3	
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BEND TEST:

# 5	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