A/Executive Engineer, PASSCO OKARA

Test Performed By:

Dr. /Engr.

s Asad Ali Gillani

SOM Lab

Client Reference: PASSCO/WORKS/EE/OK/19/11

Ref:

544(Page-1/1)

Dated:

27-03-2019

Test: Tension Test

26-03-2019

Test Specification:

ASTM-A-615

Deformed

Gauge Length:

Dated:

8 inch

Sample Type: Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress			<u> </u>	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.647	8	0.995	0.79	0.778	28.66	35.39	80030	81260	98810	100330	1.40	8.0	17.5	
2	2.662	8	0.998	0.79	0.782	28.77	35.42	80310	81130	98890	99900	1.50	8.0	18.8	
3	0.676	4	0.503	0.20	0.199	7.59	9.19	83750	84170	101390	101900	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	7.77	9.35	85660	86520	103080	104120	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1 1									•			•		

BEND TEST:

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

Raheel Ejaz Test Performed By: Dr. /Engr. Gillani

SQNLDR, GE (AIR) Mushaf

SOM Lab 546 (Page-

Client Reference: 6100/2019/12/E6 Ref: 1/2)
Dated: 18-03-2019 Dated: 27-03-2019

Test: Tension Test Test Specification: ASTM-A-615
Guage Length: 8 inch Sample Type: Deformed Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress			٦	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.630	6	0.781	0.44	0.479	15.65	22.19	78430	72050	111230	102180	1.10	8.0	13.8	
2	0.975	5	0.604	0.31	0.287	10.21	13.46	72670	78490	95730	103400	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	•	-	-	-	-	1	
-	-	-	-	-	-		-	•	•	-	•	-	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				_											

BEND TEST:

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

Raheel Ejaz Test Performed By: Dr. /Engr. Gillani

SQNLDR, GE (AIR) Mushaf

SOM Lab 546 (Page-

Client Reference: 6100/2019/12/E6 Ref: 2/2)
Dated: 18-03-2019 Dated: 27-03-2019

Test: Tension Test Test Specification: ASTM-A-615
Guage Length: 8 inch Sample Type: Deformed Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress			L	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.659	4	0.497	0.20	0.194	6.37	8.41	70260	72430	92740	95610	0.80	8.0	10.0	
2	0.544	4	0.451	0.20	0.160	3.92	6.32	43280	54100	69700	87120	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-		-	-	•	•	•	-	ı	ı	
-	-	-	-	-	-	•	-	•	•	•	•	-	•	1	
-	-	-	-	-	-	•	-	•	•	•	•	-	•	1	
-	-	-	-	-	-	•	-	•	•	•	•	-	•	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-		•	-	ı	1	
-	-	-	-	-	-		-	-	•	•	•	-	ı	ı	
								•		•	•				·

BEND TEST:

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

Maj Adnan khalid® **Test Performed By:** Dr. /Engr. Bilal A. Khokhar Dy Dir MTL, Const of Mosque, Sector-T, DHA Ph-VIII - (M/S Siddique Sons Constr Co.) **SOM Lab** Client Reference: 408/241/E/Lab/502/04 Ref: 547(Page-1/1) Dated: 27-03-2019 Dated: 27-03-2019 Test: **Tension Test Test Specification:** ASTM-A-615 **Deformed Bar (Ittefag Steel)** Gauge Length: 8 inch Sample Type: Yield **Ultimate Yield Stress Ult. Stress** Dia. Area %age Elongation Gauge Length Load Load (according to nominal area) (according to nominal area) (according to measured area) (according to measured area) Elongation Remarks Weight Calculated Calculated S.No. **Nominal** Nominal in² in² % lb/ft Tons **Tons** # in psi psi psi psi in in 1 1.496 6 0.748 0.44 0.440 15.70 20.46 78690 78690 102550 102550 1.00 8.0 12.5 2 1.509 0.751 0.44 0.443 15.16 75980 75470 6 19.32 96830 96170 1.10 8.0 13.8 --_ _ **BEND TEST:** Note:-No Bend test performed **Only Two Samples**

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

Received and Tested

S Asad Ali

Ch Abdul Ghafoor Test Performed By: Dr. /Engr. Gillani

Resident Engineer, PEPAC, W. W. C. Adjacent to Sundar Ind. Estate, Kasur (Package-H)

SOM Lab

 Client Reference:
 nil
 Ref:
 548(Page-1/1)

 Dated:
 27-03-2019
 Dated:
 27-03-2019

Deformed

Gauge Length: 8 inch Sample Type: Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress		_	n	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.042	5	0.624	0.31	0.306	10.72	13.30	76300	77290	94640	95880	1.10	8.0	13.8	
2	1.053	5	0.627	0.31	0.309	11.79	13.91	83910	84180	98990	99310	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-		-	-	1	•	1	
-	-	-	-	-	-	-	-	-		-	-	1	•	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_

BEND TEST:

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

S Asad Ali

Ch Abdul Ghafoor Test Performed By: Dr. /Engr. Gillani

Resident Engineer, PEPAC, W. W. C. Adjacent to Sundar Ind. Estate, Kasur (Package-H)

SOM Lab

 Client Reference:
 nil
 Ref:
 548(Page-2/2)

 Dated:
 27-03-2019
 Dated:
 27-03-2019

Deformed

Gauge Length: 8 inch Sample Type: Bar

		Dia.		Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.526	6	0.755	0.44	0.448	16.54	22.38	82930	81450	112150	110150	1.20	8.0	15.0	
2	1.523	6	0.755	0.44	0.448	16.46	22.04	82520	81050	110470	108500	1.20	8.0	15.0	
-	-	-	-	-	-	•	-	•	•	-	•	-	-	-	
-	-	-	-	-	-	-	-	-	•	-	•	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	1	-	•	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	•	-	•	-	-	-	
	•		•		•			•		•		•	•		

BEND TEST:

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

Sub Divisional Officer

Test Performed By:

Dr. /Engr.

S Asad Ali

Gillani

Public Health Engg: Sub Divn Gojra

SOM Lab

Client Reference: <u>103/G</u> Ref: 549(Page-1/1)
Dated: 06-03-2019 Dated: 27-03-2019

Test: Tension Test Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch Sample Type: Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress		_	n	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.501	6	0.749	0.44	0.441	10.52	14.68	52730	52610	73580	73410	2.00	8.0	25.0	
2	0.611	4	0.479	0.20	0.180	5.91	7.56	65200	72440	83410	92680	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	•	-	-	-		-	-	-	•	1	
-	-	-	-	-		-	-	-	-	-	-	-	1	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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