Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Dy Dir MTL, Const of 1 Kanal House DHA Phase VI Lahore - (M/S Linker Developers (Pvt) ltd.)

Client Reference: 408/241/E/Lab/85/323 **SOM Lab Ref:** 4486(Page-1/1)

Dated: 15-06-2021 **Dated:** 16-06-2021

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	0.662	4	0.498	0.20	0.195	6.42	8.74	70820	72640	96340	98810	1.00	8.0	12.5	
2	0.660	4	0.497	0.20	0.194	6.29	8.58	69360	71500	94650	97580	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	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

Hafiz Ozair Ahmad
Deputy Director (QCD), WASA, LDA, Lahore

Test Performed By: **Dr. /Engr.** M Irfan Ul Hassan

Client Reference: QCD/ 799-800
Dated: 15-06-2021

SOM Lab Ref: 4487(Page-1/1)
Dated: 16-06-2021

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

Test Specification: ASTM-A-615
Sample Type: 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	1.511	6	0.752	0.44	0.444	15.62	19.34	78280	77570	96930	96060	1.40	8.0	17.5	
2	1.484	6	0.745	0.44	0.436	16.31	20.18	81750	82500	101170	102100	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Hafiz Ozair Ahmad
Deputy Director (QCD), WASA, LDA, Lahore

Test Performed By: **Dr. /Engr.** M Irfan Ul Hassan

Client Reference: QCD/ 797-98
Dated: 15-06-2021

SOM Lab Ref: 4488(Page-1/1)
Dated: 16-06-2021

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

Test Specification: ASTM-A-615
Sample Type: 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	1.471	6	0.742	0.44	0.432	16.36	19.69	82010	83530	98720	100540	1.10	8.0	13.8	
2	1.474	6	0.743	0.44	0.433	16.41	19.83	82260	83590	99380	100990	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Ghulam Abbas **Test Performed By:** **Dr. /Engr.** M Irfan Ul Hassan

Assistant Executive Engineer (Civil) CVAS, Narowal

Client Reference: AEE/NC/82 **SOM Lab Ref:** 4489 (Page-1/1)

Dated: 24-04-2021 **Dated:** 16-06-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	1.460	6	0.739	0.44	0.429	14.37	19.18	72050	73890	96160	98630	1.10	8.0	13.8	
2	1.462	6	0.740	0.44	0.430	14.58	19.16	73070	74770	96060	98290	1.10	8.0	13.8	
3	0.663	4	0.498	0.20	0.195	6.73	8.87	74190	76090	97800	100300	1.00	8.0	12.5	
4	0.659	4	0.497	0.20	0.194	6.63	8.94	73070	75330	98580	101630	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Obaid Ullah **Test Performed By:** **Dr. /Engr.** Nauman Khurram

CE/Engineer's Representative, NESPAK (Proj. Infra Devel. Of Federal Govt. Employees Housing Scheme,)

Client Reference: 3690/321/104/OU/11(a)/51 **SOM Lab Ref:** 4490(Page-1/1)

Dated: 15-06-2021 **Dated:** 16-06-2021

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

Gauge Length: 8 inch **Sample Type:** 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	0.655	4	0.494	0.20	0.192	5.42	7.87	59800	62300	86780	90400	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Li Shi
Manager, Sinohydro Corporation Limited, Pakistan

Test Performed By: **Dr. /Engr.** S, Asad Ali Gillani

Client Reference: ADB-301B/2018/253
Dated: 07-06-2021

SOM Lab Ref: 4491(Page-1/1)
Dated: 16-06-2021

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

Test Specification: ASTM-A-615
Sample Type: 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	2.675	8	1.000	0.79	0.786	28.05	37.94	78320	78720	105920	106460	1.10	8.0	13.8	
2	2.632	8	0.992	0.79	0.773	27.24	37.38	76040	77710	104360	106650	1.00	8.0	12.5	
3	1.534	6	0.758	0.44	0.451	14.85	21.33	74450	72630	106890	104280	1.10	8.0	13.8	
4	1.549	6	0.761	0.44	0.455	13.07	18.40	65510	63350	92230	89190	1.00	8.0	12.5	
5	1.475	6	0.743	0.44	0.433	13.25	20.41	66430	67500	102290	103950	1.30	8.0	16.3	
6	1.461	6	0.739	0.44	0.429	12.59	19.44	63100	64720	97440	99940	1.50	8.0	18.8	
7	1.486	6	0.746	0.44	0.437	12.87	19.37	64540	64980	97080	97750	1.40	8.0	17.5	
8	1.455	6	0.738	0.44	0.428	12.44	19.06	62340	64090	95550	98230	1.40	8.0	17.5	
9	0.653	4	0.494	0.20	0.192	6.44	9.35	71040	74000	103080	107370	1.10	8.0	13.8	
10	0.655	4	0.494	0.20	0.192	6.12	8.94	67450	70260	98580	102690	1.20	8.0	15.0	

Witnessed By: M. Zahid Sharif, NESPAK + BARQAAB

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fifteen Samples Received and Tested

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

Sub Divisional Officer
Buildings Sub Division, Pindi Bhattian

Test Performed By: **Dr. /Engr.** Qasim Shaukat

Client Reference: 88/PB
Dated: 29-05-2021

SOM Lab Ref: 4492 (Page-1/1)
Dated: 16-06-2021

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

Test Specification: ASTM-A-615
Sample Type: 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	0.643	4	0.491	0.20	0.189	5.17	7.16	56990	60310	78910	83510	1.00	8.0	12.5	
2	0.678	4	0.503	0.20	0.199	5.38	7.54	59350	59650	83180	83600	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	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