

Yan Deguang

Dasu Hydropower Project CGGC Lab Manager.(DASU Hydropwer PROJECT)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: Nil

Dated

: 01-01-2024

SOM Lab Ref: CED/SOM/3451(Page-1/1)

Dated

: 02-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample

Type: Deformed Bar (FF Steel)

Gauge Length:

m
200 m

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	m	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	3.953	25	25.33	491	504	261.50	343.50	533	519	700	682	30.0	200	15.0	# 585
2	3.903	25	25.16	491	497	230.50	328.00	470	464	668	660	37.5	200	18.8	# 650
3	3.967	25	25.37	491	505	243.50	324.70	496	482	661	643	40.0	200	20.0	# 730
4	3.906	25	25.17	491	498	245.80	338.70	501	495	690	681	37.5	200	18.8	# 904
5	2.256	19	19.13	284	287	138.70	190.50	489	483	672	663	32.5	200	16.3	# 495
6	2.313	19	19.37	284	295	145.20	188.00	512	493	663	639	37.5	200	18.8	# 600
7	2.210	19	18.93	284	282	143.20	190.00	505	509	670	675	32.5	200	16.3	# 644
8	2.248	19	19.09	284	286	142.50	187.00	503	498	660	654	35.0	200	17.5	# 680
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Witnessed By:

Fawad Ali Abbasi (Wapda), Tariq Javed (D.H.C)

BEND TEST:

Sr.# (1-4)	Sample bend through 180 degrees Satisfactorily without any crack
Sr.# (5-8)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Sixteen Samples Received and Tested

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

M.Armughan Khan

Test Performed By: Dr. /Engr. Asad Ali Gillani

Dy.Dir(QCD) WASA,LDA,Lhr.(Rehb Of Settled Sewer Line at PECO Bridge Lahore)

Client Reference: QCD/2045-46

SOM Lab

Ref: 3447 (Page-1/1)

Dated: 28-12-2023

Dated: 02-01-2024

Test: Tension Test & Bend 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	1.489	6	0.747	0.44	0.438	13.63	18.30	68320	68630	91720	92140	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Muhammad Zaman Madni

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

CEO ZECO Building Systems.(SUFA International School,Jehlam)

SOM Lab

Client Reference: Nil

Ref:

3448 (Page-1/1)

Dated: 02-01-2024

Dated:

02-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Itehad 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	2.662	8	0.998	0.79	0.782	27.73	34.86	77410	78200	97330	98320	1.00	8.0	12.5	
2	2.671	8	1.000	0.79	0.785	26.04	33.51	72710	73180	93540	94140	1.10	8.0	13.8	
3	1.569	6	0.766	0.44	0.461	18.81	22.58	94270	89980	113180	108020	1.30	8.0	16.3	
4	1.589	6	0.771	0.44	0.467	19.69	23.41	98720	93010	117370	110580	1.20	8.0	15.0	
5	1.037	5	0.623	0.31	0.305	11.85	14.14	84270	85650	100590	102240	1.40	8.0	17.5	
6	1.034	5	0.622	0.31	0.304	11.44	13.81	81370	82980	98270	100210	1.30	8.0	16.3	
7	0.675	4	0.502	0.20	0.198	5.76	8.58	63510	64160	94650	95610	1.30	8.0	16.3	
8	0.675	4	0.502	0.20	0.198	5.86	8.56	64640	65290	94420	95380	1.20	8.0	15.0	
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BEND TEST:

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

M.Mudassar
Klash Pvt Ltd Faisalabad.

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: Nil
Dated: 01-Jan-2024

SOM Lab
Ref: 3449-50 (Page-1/1)
Dated: 02-01-2024

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	2.626	8	0.991	0.79	0.772	26.40	36.60	73710	75430	102170	104550	1.40	8.0	17.5	
2	2.659	8	0.997	0.79	0.781	26.71	35.73	74560	75420	99750	100900	1.50	8.0	18.8	
3	1.514	6	0.753	0.44	0.445	14.95	20.29	74960	74120	101680	100540	1.30	8.0	16.3	
4	1.505	6	0.750	0.44	0.442	14.65	20.10	73430	73090	100760	100300	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	6.54	8.66	72170	73640	95550	97500	1.10	8.0	13.8	
6	0.672	4	0.501	0.20	0.197	6.49	8.61	71610	72700	94990	96430	1.20	8.0	15.0	
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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