

Mohammad Furqan Panhwar
CEO AL-Furqan Corporation.Sukkur-Sindh.

Test Performed By: Dr. /Engr. Safeer Abbas

Client Reference: Nil

Dated: 09-10-2023

Test: Tension Test

Guage Length: 200 m

Test Specification:

Sample Type:

SOM Lab Ref:

Dated:

ASTM-A-615

Deformed Bar (Ittehad Steel)

2982 (Page-1/1)

09-10-2023

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	m	%	
1	2.468	19	20.00	284	314	153.50	193.00	540	489	680	615	37.5	200	18.8	
2	2.481	19	20.06	284	316	155.50	194.20	548	492	684	615	37.5	200	18.8	
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BEND TEST:

19mm	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

HIGH-Q Constructions

3A, Gulberg II Main Boulevard Lahore

Client Reference: QC/HQ/CIVIL/143

SOM Lab Ref: CED/SOM/2985(Page-1/1)

Test: Tension Test & Bend Test

Sample Type: M S Deformed Bar

Test Performed
By:

Dr. /Engr. S. Asad Ali Gillani

Date: 09-10-2023

Date: 09-10-2023

Test Specification: ASTM-A 615

Gauge Length: 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	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	3.804	25	24.85	491	485	210.00	326.70	428	433	666	674	35.0	200	17.5	
2	3.801	25	24.83	491	484	219.00	333.50	446	453	679	689	37.5	200	18.8	
3	2.446	20	19.92	314	312	156.20	213.00	497	502	678	684	32.5	200	16.3	
4	2.415	20	19.79	314	308	160.70	221.00	512	523	703	719	27.5	200	13.8	
5	1.541	16	15.81	201	196	99.00	135.70	492	505	675	692	27.5	200	13.8	
6	1.543	16	15.82	201	197	99.00	135.50	492	504	674	690	30.0	200	15.0	
7	0.927	12	12.26	113	118	68.00	92.50	601	577	818	784	37.5	200	18.8	
8	0.900	12	12.08	113	115	57.70	84.70	510	504	749	739	32.5	200	16.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Engr.Fazal Karim, PM

Test Performed
By:

Dr. /Engr. S. Asad Ali Gillani

16MW HPP Nalter Hydropower Consultants Gilgit.(Water and Power Deptt Gilgit-Baltistan)

Client Reference: NHP/PM/Admin/999

Date
d: 05-10-2023

SOM Lab Ref: CED/SOM/2983(Page-1/2)

Date
d: 09-10-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar

Gauge Length: 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	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	3.298	25.4	23.13	491	420	276.00	385.00	562	658	784	917	30.0	200	15.0	
2	4.089	25.4	25.75	491	521	257.00	365.50	524	494	745	702	30.0	200	15.0	
3	2.216	19.1	18.96	284	282	126.70	166.70	447	449	588	591	30.0	200	15.0	
4	2.224	19.1	19.00	284	283	124.50	166.50	439	440	587	588	35.0	200	17.5	
5	1.592	15.8	16.07	154	203	106.50	136.00	692	526	883	671	32.5	200	16.3	
6	1.610	15.8	16.16	154	205	105.20	140.50	683	513	913	686	30.0	200	15.0	
7	1.002	12.7	12.75	123	128	53.20	73.50	434	417	599	576	32.5	200	16.3	
8	0.998	12.7	12.72	123	127	54.50	75.20	444	429	613	592	32.5	200	16.3	
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BEND TEST:

25.4mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
19.1mm	Sample bend through 180 degrees Satisfactorily without any crack	
15.8mm	Sample bend through 180 degrees Satisfactorily without any crack	
12.7mm	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

Nasir Abbas
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2980 (Page-1/1)

Dated: 09-10-2023

Dated: 09-10-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
Deformed

Gauge Length: 8 h

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	0.586	4	0.468	0.20	0.172	5.71	8.12	62950	73200	89590	104180	0.60	8.0	7.5	
2	0.552	4	0.454	0.20	0.162	5.05	7.05	55650	68700	77790	96030	0.40	8.0	5.0	
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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

Engr. Muhammad Ashraf Bhatti

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

CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/149

SOM Lab

Ref: 2981 (Page-1a/1)

Dated: 07-10-2023

Dated: 09-10-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (FF
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	0.671	4	0.501	0.20	0.197	6.37	8.72	70260	71330	96110	97570	1.10	8.0	13.8	
2	0.672	4	0.501	0.20	0.197	6.32	8.63	69700	70760	95210	96660	1.20	8.0	15.0	
3	0.668	4	0.500	0.20	0.196	6.42	8.94	70820	72270	98580	100600	1.20	8.0	15.0	
4	0.668	4	0.500	0.20	0.196	6.22	8.43	68570	69970	92960	94860	1.30	8.0	16.3	
5	0.670	4	0.501	0.20	0.197	6.37	8.61	70260	71330	94990	96430	1.40	8.0	17.5	
6	0.672	4	0.501	0.20	0.197	6.47	8.61	71380	72470	94990	96430	1.20	8.0	15.0	
7	0.670	4	0.501	0.20	0.197	6.57	9.02	72510	73610	99480	101000	1.00	8.0	12.5	
8	0.668	4	0.500	0.20	0.196	6.57	8.97	72510	73990	98920	100940	1.20	8.0	15.0	
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Witnessed By:

M. Farhan (Barqaab), Mohsin Bhatti (NTDC)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	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

Engr. Muhammad Ashraf Bhatti Test Performed By: Dr. /Engr. Asad Ali Gillani
 CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/149 SOM Lab Ref: 2981 (Page-1b/1)
 Dated: 07-10-2023 Dated: 09-10-2023
 Test: Tension Test & Bend Test Test Specification: ASTM-A-615
 Deformed Bar (FF
 Gauge Length: 8 h Sample Type: 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	1.506	6	0.751	0.44	0.443	13.40	19.08	67190	66740	95650	95000	1.40	8.0	17.5	
2	1.501	6	0.749	0.44	0.441	13.32	18.81	66780	66630	94270	94060	1.30	8.0	16.3	
3	1.509	6	0.751	0.44	0.443	13.51	18.81	67700	67240	94270	93630	1.40	8.0	17.5	
4	1.498	6	0.748	0.44	0.440	13.71	20.00	68730	68730	100250	100250	1.40	8.0	17.5	
5	1.499	6	0.749	0.44	0.441	13.25	18.78	66430	66280	94120	93900	1.50	8.0	18.8	
6	1.510	6	0.752	0.44	0.444	13.71	19.98	68730	68110	100150	99250	1.50	8.0	18.8	
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Witnessed By: M. Farhan (Barqaab), Mohsin Bhatti (NTDC)

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 6	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,
PHE Sub Div Sargodha.(Sewerage Drainage Scheme For Bajwa Colony Distt Sargodha)

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

Client Reference: 295/S

SOM Lab

Ref: 2984 (Page-1/1)

Dated: 31-08-2023

Dated: 09-10-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
Deformed

Gauge Length: 8 h

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	0.664	4	0.498	0.20	0.195	5.86	8.61	64640	66290	94990	97420	1.40	8.0	17.5	
2	0.663	4	0.498	0.20	0.195	5.88	8.61	64860	66530	94990	97420	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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