

Rana Kashif Raza Test Performed By: Dr. /Engr. Asad Ali Gillani
 Dy Dir Maint,NHA, Wazirabad.(Const. Of Pedestrian Steel Overhead Bridge with Motorcycle Ramp)

Client Reference: Gen/DD/(Maint)/WZD/NHA/2023/923

Dated : 22-08-2023

SOM Lab Ref: CED/SOM/2734(Page-1/1)

Dated : 25-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	1.558	16	15.92	201	199	95.50	126.20	475	480	628	635	32.5	200	16.3	
2	1.574	16	15.98	201	201	96.70	129.00	481	483	642	644	30.0	200	15.0	
3	0.971	12	12.55	113	124	51.20	72.00	453	414	637	583	37.5	200	18.8	
4	0.984	12	12.63	113	125	68.20	85.50	603	545	756	683	27.5	200	13.8	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

Dated : 24-08-2023

SOM Lab Ref: CED/SOM/2739(Page-1/1)

Dated : 25-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

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	2.454	20	19.96	314	313	155.50	210.50	495	497	670	673	35.0	200	17.5	315-R
2	2.449	20	19.93	314	312	158.30	211.50	504	508	673	679	37.5	200	18.8	315-R
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
20mm	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

Muhammad Umair Sajid
Sr.Engr (Civil) KCP PAEC.Jauharabad.(Const. Of Masjid Near Jauharabad)

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

Client Reference: KCP(W&S)-Hosp-(Masjid)/2021

SOM Lab

Ref: 2737 (Page-1/1)

Dated: 23-08-2023

Dated: 25-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.047	5	0.626	0.31	0.308	9.48	13.37	67450	67890	95150	95770	1.10	8.0	13.8	
2	1.086	5	0.637	0.31	0.319	10.32	14.34	73390	71320	102040	99160	1.40	8.0	17.5	
3	0.659	4	0.497	0.20	0.194	6.32	8.43	69700	71850	92960	95840	1.20	8.0	15.0	
4	0.656	4	0.496	0.20	0.193	6.47	8.53	71380	73970	94090	97500	1.30	8.0	16.3	
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BEND TEST:

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

Sadaqat Ahmad,RE
Nespak Lahore.(University Of Child Health Sciences Lahore)

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

Client Reference: 4598/13/SA/09/057

SOM Lab

Ref: 2738 (Page-1/1)

Dated: 24-08-2023

Dated: 25-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Batala Gold)

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	1.505	6	0.750	0.44	0.442	13.22	20.92	66270	65970	104850	104370	1.10	8.0	13.8	
2	1.504	6	0.750	0.44	0.442	12.44	19.72	62340	62060	98870	98420	1.30	8.0	16.3	
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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

Engr. Naveed Sadiq
RE Orbit Housing.Lahore.(The Springs Apartment Homes)

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

Client Reference: Nil

Dated: 25-08-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2740 (Page-1/1)

Dated: 25-08-2023

ASTM-A-615

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	2.757	8	1.016	0.79	0.810	24.08	32.59	67220	65560	90980	88740	1.50	8.00	18.8	
2	2.617	8	0.990	0.79	0.769	23.16	31.47	64660	66420	87850	90250	1.40	8.00	17.5	
3	1.503	6	0.750	0.44	0.442	16.62	22.12	83290	82910	110880	110380	1.40	8.00	17.5	
4	1.504	6	0.750	0.44	0.442	16.69	22.14	83640	83270	110980	110480	1.20	8.00	15.0	
5	0.662	4	0.498	0.20	0.195	6.88	9.19	75880	77820	101390	103990	1.00	8.00	12.5	
6	0.662	4	0.498	0.20	0.195	6.83	9.09	75320	77250	100270	102840	1.00	8.00	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

Engr. Mughanim Rehman

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

P & C E Ittefaq Building Solution (Pvt)Ltd.(Bulleh Shah Girls High School)

Client Reference: IBS/BSP/BSGHS

SOM Lab

Ref: 2741(Page-1/1)

Dated: 24-08-2023

Dated: 25-08-2023

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	1.486	6	0.746	0.44	0.437	13.93	18.96	69850	70330	95040	95690	1.40	8.00	17.5	
2	1.482	6	0.745	0.44	0.436	14.24	19.13	71380	72040	95910	96790	1.50	8.00	18.8	
3	0.686	4	0.507	0.20	0.202	6.03	8.12	66550	65890	89590	88700	1.30	8.00	16.3	
4	0.663	4	0.498	0.20	0.195	6.65	8.58	73290	75170	94650	97080	1.10	8.00	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Raja Muhammad Aqeel

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

Astt Dir. Building Section DHA Gujranwala.(Const Of 5 Marla Villas Block-D)

Client Reference: 111/3/AD Bldgs/Gen/54

SOM Lab

Ref: 2742 (Page-1/1)

Dated: 25-08-2023

Dated: 25-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	0.673	4	0.502	0.20	0.198	5.52	8.69	60930	61540	95770	96740	1.30	8.0	16.3	
2	0.680	4	0.505	0.20	0.200	5.58	8.77	61490	61490	96670	96670	1.10	8.0	13.8	
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/AD/RS/Lab/Pkg-2A/1597

SOM Lab

Ref: 2743 (Page-1/1)

Dated: 24-08-2023

Dated: 25-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Nomee 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	5.56	8.43	61270	62840	92960	95350	1.10	8.0	13.8	
2	0.667	4	0.500	0.20	0.196	5.58	8.79	61490	62750	96900	98880	1.20	8.0	15.0	
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Sector G)

Test Performed By: Dr. /Engr. Rizwan Riaz

Client Reference: 111/15/AD/RS/Lab/Pkg-2B/2001

SOM Lab

Ref: 2744 (Page-1/1)

Dated: 24-08-2023

Dated: 25-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Siraj 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	2.697	8	1.005	0.799	0.793	21.66	34.76	60480	60250	97040	96680	1.50	8.0	18.8	
2	2.696	8	1.004	0.799	0.792	21.66	34.45	60480	60320	96190	95950	1.60	8.0	20.0	
3	0.668	4	0.500	0.200	0.196	5.78	9.07	63740	65040	100050	102090	1.10	8.0	13.8	
4	0.675	4	0.502	0.200	0.198	5.83	9.17	64300	64950	101170	102190	1.00	8.0	12.5	
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BEND TEST:

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

Sub Divisional officer,

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

BSD No.10,Lhr.(Provision Of Missing Facilites And Upgradation Of CTD Provincial H/Q Jallo)

Client Reference: 4620/10Th

SOM Lab

Ref: 2745 (Page-1/1)

Dated: 10-08-2023

Dated: 25-08-2023

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	2.591	8	0.984	0.79	0.761	26.55	34.45	74140	76960	96190	99850	1.40	8.0	17.5	
2	1.487	6	0.746	0.44	0.437	14.12	18.55	70770	71250	92990	93630	1.50	8.0	18.8	
3	0.665	4	0.498	0.20	0.195	6.37	8.12	70260	72060	89590	91890	1.20	8.0	15.0	
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BEND TEST:

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

Test Performed by: S. Asad Ali Gillani

Muhammad Rauf
Civil Engineer,
Sheikh Younis & Sons Constructions, Lahore.

Client Reference No.: Nil
SOM Lab Ref: CED/SOM/2735 (Page 1/1)
Test Type: Tensile Test
Sample Type: Anchor/Bolt M12
Test Specification: ASTM – F-606

Dated: 25-08-2023

Dated: 25-08-2023

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Rod/Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Anchor Bolt (Threaded M12)	8.0	30.5	606	15
2	Bolt (Non Threaded M12)	8.0	26.7	531	20

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

Test Performed by: Dr. S. Asad Ali Gillani

Khawar Shafiq Ahmad
CEO Haroon Ali Build Well
Faisalabad

Client Reference No.: Nil

Dated: 23-08-2023

SOM Lab Ref: CED/SOM/2736(Page-1/1)

Dated: 25-08-2023

Test: Tensile Test & Elongation Test , Hardness Test

Sample Type: PVC Water Stopper Size 6”

TENSILE STRENGTH TEST (AS PER ASTM-D-412)

S. No	Sample Size (mm x mm)	Tensile Strength at (kN)	Tensile Strength (MPa)	% age Elongation
1	11.70 x 3.4	0.45	11.31	100.0
2	12.0 x 3.4	0.55	13.48	108.0

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	PVC Water Stopper	78.0

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