

I.H ZARRAR

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

Engineering Design Bureau Lahore.(Zameen Quadrangles Bldg at Zafar Ali Rd Gulberg Lahore)

Client Reference: EDB/37

Dated: 23-05-2023

Test: Tension Test

Guage Length: 20 m

0 m

SOM Lab Ref:

Dated:

Test Specification:

Sample Type:

2246 (Page-1/1)

23-05-2023

ASTM-A-615

MS 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	2.223	20	18.98	314	283	139.50	185.20	444	493	590	655	30.0	200	15.0	
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BEND TEST:

--	No Bend test performed	<p>Note:-</p> <p>Only One Sample Received and Tested</p>

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

Muhammad Waqas, RE

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

Nespak Isb.(Dualization Of Rawalpindi-Kahuta Rd Including 4-Lane Bridge Over Sihala Railway Pass)

Client Reference: NESPAK/103/MW/109

Dated : 23-05-2023

SOM Lab Ref: CED/SOM/2242(Page-1/1)

Dated : 23-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-F- 1554

Sample Type: Deformed Bar (Moiz 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	2.383	20	19.67	314	304	138.70	213.50	441	457	680	703	30.0	200	15.0	
2	2.497	20	20.12	314	318	147.20	209.20	469	463	666	658	32.5	200	16.3	
3	0.995	12	12.70	113	127	64.20	86.20	568	507	762	681	35.0	200	17.5	
4	0.890	12	12.02	113	113	53.20	76.50	470	470	676	675	35.0	200	17.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
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

Sub Divisional Forest officer,
East Sub Div Chichawatni.(Up- Gradation/Rehb Of Forest & Wildlife Park)

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

Client Reference: 593/E

SOM Lab

Ref: 2237 (Page-1/1)

Dated: 15-05-2023

Dated: 23-05-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

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	0.669	4	0.501	0.20	0.197	7.19	8.92	79250	80460	98360	99860	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Engr. Mian Mubashar Rafiq

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

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

Client Reference: UA/SO/2023/041

SOM Lab

Ref: 2238 (Page-1/1)

Dated: 22-05-2023

Dated: 23-05-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Afco 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	1.512	6	0.752	0.444	0.444	23.72	26.12	118900	117830	130910	129730	1.00	8.00	12.5	
2	1.481	6	0.744	0.435	0.435	16.38	20.29	82110	83060	101680	102850	1.20	8.00	15.0	
3	0.649	4	0.493	0.190	0.191	7.03	8.79	77560	81220	96900	101460	1.00	8.00	12.5	
4	0.651	4	0.493	0.190	0.191	6.65	8.66	73290	76750	95550	100050	0.90	8.00	11.3	
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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

Assistant Project Director

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

PMU-SBP Lhr.(Up-Gradation of Sports Facilities,at One UpGradation of Nishter Park Sports Complex)

Client Reference: ADP/PMU/SBP/LHR/23/554

SOM Lab

Ref: 2239 (Page-1/1)

Dated: 19-05-2023

Dated: 23-05-2023

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	1.499	6	0.749	0.44	0.441	10.14	15.65	50840	50730	78430	78250	1.20	8.00	15.00	
2	0.654	4	0.494	0.20	0.192	6.22	8.69	68570	71430	95770	99760	1.00	8.00	12.5	
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BEND TEST:

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

Muhammad Irfan
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

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

Client Reference: DOC-BMC/AJWA/070

SOM Lab

Ref: 2240 (Page-1/1)

Dated: 23-05-2023

Dated: 23-05-2023

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	2.750	8	1.014	0.79	0.808	25.56	36.24	71350	69760	101170	98920	1.40	8.0	17.5	
2	2.688	8	1.003	0.79	0.790	25.48	34.05	71150	71150	95050	95050	1.50	8.0	18.8	
3	1.539	6	0.759	0.44	0.452	14.68	18.57	73580	71630	93100	90620	1.50	8.0	18.8	
4	1.497	6	0.748	0.44	0.440	14.63	18.62	73320	73320	93350	93350	1.60	8.0	20.0	
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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	

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

Asif Iqbal

Dir Project Ghurkki Trust & Teaching Hospital Lahore.(Const Of Ghurkki Medical and dental College)

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

Client Reference: Nil

Dated: 22-05-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2241 (Page-1/1)

Dated: 23-05-2023

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	2.646	8	0.995	0.79	0.778	23.98	33.56	66940	67970	93680	95130	1.30	8.0	16.3	
2	0.661	4	0.497	0.20	0.194	6.54	8.58	72170	74400	94650	97580	1.00	8.0	12.5	
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BEND TEST:

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

Executive Engineer (B&W) Test Performed By: Dr. /Engr. Asad Ali Gillani
 UVAS,Lahore.(Construction Of Girls Hostel Building at CVAS Jhang)

Client Reference: E.E 838

Dated: 17-04-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2243 (Page-1/1)

Dated: 23-05-2023

ASTM-A-615

Deformed Bar (Sheikhoo 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	1.504	6	0.750	0.44	0.442	14.19	18.88	71130	70800	94630	94200	1.50	8.00	18.8	
2	0.675	4	0.502	0.20	0.198	6.17	8.56	68010	68700	94420	95380	1.40	8.00	17.5	
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BEND TEST:

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

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/46

SOM Lab

Ref: 2244 (Page-1/1)

Dated: 22-05-2023

Dated: 23-05-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
Deformed Bar (Mughal Steel)

Gauge Length: 8 h

Sample Type:

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	2.588	8	0.984	0.79	0.761	28.34	35.44	79120	82130	98950	102720	1.30	8.0	16.3	D-8184
2	2.591	8	0.984	0.79	0.761	28.39	35.78	79260	82280	99890	103690	1.40	8.0	17.5	D-8184
3	1.639	6	0.783	0.44	0.482	17.23	21.66	86350	78830	108580	99120	1.40	8.0	17.5	B-3692
4	1.643	6	0.784	0.44	0.483	17.18	21.76	86100	78430	109090	99380	1.20	8.0	15.0	B-3692
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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	

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. Asad Ali Gillani

Client Reference: 111/15/AD/RS/Lab/Pkg-2B/1614

SOM Lab

Ref: 2245 (Page-1/1)

Dated: 09-05-2023

Dated: 23-05-2023

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	2.638	8	0.993	0.79	0.775	22.29	35.22	62240	63440	98320	100230	1.30	8.00	16.3	
2	2.622	8	0.991	0.79	0.771	21.78	35.12	60820	62320	98040	100450	1.40	8.00	17.5	
3	0.660	4	0.497	0.20	0.194	6.12	8.63	67450	69530	95210	98160	1.00	8.00	12.5	
4	0.661	4	0.497	0.20	0.194	5.83	8.58	64300	66290	94650	97580	1.00	8.00	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

Muhammad Irfan
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

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

Client Reference: DOC-BMC/AJWA/061

SOM Lab

Ref: 2349 (Page-1/1)

Dated: 06-06-2023

Dated: 06-06-2023

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	2.750	8	1.014	0.79	0.808	25.56	36.24	71350	69760	101170	98920	1.40	8.0	17.5	
2	2.688	8	1.003	0.79	0.790	25.48	34.05	71150	71150	95050	95050	1.50	8.0	18.8	
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BEND TEST:

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

Test Performed by: Dr.S.Asad Ali Gillani

Col.Khan Bahadar

RE MMP PSBRT Peshawar.

(Peshawar Sustainable Bus Rapid Transit Project Chamkani Lot-2)

Client Reference No.: PMCSC/PSBRT/RE/LOT-II-2023-0295

Dated: 02-05-2023

SOM Lab Ref: CED/SOM/2148(Page 1/1)

Dated: 05-05-2023

Test Type: Hardness Test

Sample Type: Expansion Joint (Aluminum)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 60.0 kgf Scale: A)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Expansion Joint (Aluminum)	HR – 22.83 _{Avg} – A

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

Test Performed By: S.Dr. Asad Ali Gillani

Maj. Adnan Khalid ®,
Dy Dir, MTL DHA Lahore.
(Reboring/Installation of Two Cusec Tube well, Of Sec-K DHA Ph-V (M/S Image Tech))

Client Reference: 408/241/Estb/Lab/55/017

Dated: 23-05-2023

SOM Laboratory Reference: CED/SOM/2247(Page-1a/1) Dated 23-05-2023

Test: Stiffness Test, Tensile Test & Hoop Tensile Test

Sample Type: Fiberglass Blind Pipe (Bin Tariq)

Stiffness Test (Parallel Plate Loading Test as per ASTM-D-2412)

Total Length = 475 mm, External Diameter = 446 mm, Wall Thickness = 14.5 mm

Percentage Reduction in Diameter of Sample	Compression Load, P (kN)	Stiffness (Corrected)			Remarks
		Pipe Stiffness (kN/m ²)	Stiffness Factor (N-m)	Specific Tangential initial Stiffness (N/m ²)	
5%	30.0	5381	9787	110317	No Crack Observed

Tensile Test

Sample Type	Size of Sample (mm)	Ultimate Load (kN)	Ultimate Stress (MPa)
Fiberglass Blind Pipe	20.0 x 13.5	5.2	19.25

Hoop Tensile Test (ASTM-D-2290-04)

Sample Size (mm)				Hoop Tensile Load (kN)	Hoop Stress (MPa)
b ₁	t ₁	b ₂	t ₂		
5.0	13.5	5.0	13.5	58.0	429.60

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

Test Performed By: S.Dr. Asad Ali Gillani

Maj. Adnan Khalid ®,
Dy Dir, MTL DHA Lahore.
(Reboring/Installation of Two Cusec Tube well, Of Sec-K DHA Ph-V (M/S Image Tech))

Client Reference: 408/241/Estb/Lab/55/017

Dated: 23-05-2023

SOM Laboratory Reference: CED/SOM/2247(Page-1b/1) Dated 23-05-2023

Test: Stiffness Test, Tensile Test & Hoop Tensile Test

Sample Type: Fiberglass Blind Pipe (Bin Tariq)

Stiffness Test (Parallel Plate Loading Test as per ASTM-D-2412)

Total Length = 268 mm, External Diameter = 248.5mm, Wall Thickness = 9.75 mm

Percentage Reduction in Diameter of Sample	Compression Load, P (kN)	Stiffness (Corrected)			Remarks
		Pipe Stiffness (kN/m ²)	Stiffness Factor (N-m)	Specific Tangential initial Stiffness (N/m ²)	
5%	23.5	7478	2399	156326	No Crack Observed

Tensile Test

Sample Type	Size of Sample (mm)	Ultimate Load (kN)	Ultimate Stress (MPa)
Fiberglass Blind Pipe	20.0 x 13.5	5.7	21.11

Hoop Tensile Test (ASTM-D-2290-04)

Sample Size (mm)				Hoop Tensile Load (kN)	Hoop Stress (MPa)
b ₁	t ₁	b ₂	t ₂		
6.0	9.0	6.0	8.5	47.0	447.61

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

