

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(Construction of Sky Gardens Tower, Lahore.)

Client Reference No.: HRLE/SKG/2024/L-13/102-22/101-16/181
SOM Lab Ref: CED/SOM/430 (Page-1/1)
Test: Tensile Test
Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Test Performed by: Dr. Irfan UI Hassan

Dated: 23-12-2024
Dated: 23-12-2024

Tension Test Results							
Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	(mm)	(mm²)	kN	kN	(Mpa)	(Mpa)	
1	22	387	146.0	210.0	377	543	Thread Slippage
2	22	387	158.0	234.7	408	606	Thread Slippage
3	16	201	98.0	118.0	488	587	failure at threaded Portion
4	16	201	96.0	116.0	478	577	failure at threaded Portion

Witnessed by: M.Irfan QC Engr/HRL, Muhammad Akram Site Engineer/101 Group

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

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(Construction of Sky Gardens Tower, Lahore.)

Test Performed by: Dr. Irfan UI Hassan

Client Reference No.: HRLE/SKG/2024/L-13/102-22/181-A/Re-Test
SOM Lab Ref: CED/SOM/433 (Page-1/1)
Test: Tensile Test
Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Dated: 23-12-2024
Dated: 23-12-2024

Tension Test Results							
Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	(mm)	(mm²)	kN	kN	(Mpa)	(Mpa)	
1	22	387	144.0	202.2	372	522	Slippage at Thread

Witnessed by: M.Irfan QC Engr/HRL, Muhammad Akram Sr.Site Engineer/101 Group

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

Engr. Muhammad Sajjad Arain,RE

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

Pkg-V Indus Associate Consultant (JV).(Dualization of Zhob-Kuchalak Sec of N-50 Khanozai-Kuchlak)

Client Reference: RE/Pkg-V/N-50/IAC/2024/778

Dated: 17-12-2024

SOM Lab Ref: CED/SOM/426 (Page-1/1)

Dated: 23-12-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

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	mm	%	
1	3.992	25	25.46	380	509	229.00	350.20	602	450	921	689	35.0	200	17.5	
2	3.981	25	25.41	380	507	220.70	336.20	581	436	884	663	35.0	200	17.5	
3	2.402	20	19.74	314	306	174.20	211.20	554	570	672	691	37.5	200	18.8	
4	2.408	20	19.76	314	307	174.20	216.70	554	568	690	707	35.0	200	17.5	
5	1.546	16	15.84	201	197	93.20	135.20	464	474	672	687	35.0	200	17.5	
6	1.549	16	15.85	201	197	92.70	134.20	461	470	667	681	32.5	200	16.3	
7	0.989	12.7	12.67	127	126	73.50	93.50	580	584	738	743	30.0	200	15.0	
8	0.982	12.7	12.62	127	125	71.50	94.00	564	572	742	752	27.5	200	13.8	
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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	
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

Dr. /Engr. Asad Ali Gillani

SOM Lab

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23-12-2024

Test Specification:

Deformed Bar

Sample Type:

[illegible]

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

Muhammad Azmat, RE
NESPAK-Turkpak JV Lhr.(Reconstruction of Lady Willingdon Hospital,Lahore)

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

Client Reference: 4729/13/MA/04/156

SOM Lab

Dated: 20-12-2024

Ref: 425 (Page-1/1)

Dated: 23-12-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AF 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	2.665	8	0.998	0.79	0.783	23.24	35.42	64890	65470	98890	99780	1.50	8.0	18.8	
2	2.666	8	0.998	0.79	0.783	23.04	35.42	64320	64890	98890	99780	1.30	8.0	16.3	
3	0.667	4	0.500	0.20	0.196	6.83	9.35	75320	76850	103080	105180	1.00	8.0	12.5	
4	0.665	4	0.498	0.20	0.195	6.70	9.25	73850	75750	101960	104570	1.10	8.0	13.8	
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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		

Cantonment Exec Officer

Military Lands & Cantonments Dep^{tt} Lhr.(Installation of Filtration Plant &Room in Lunia Mandi Saddar)

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Client Reference:

SCE/Tender-2024/D-1871

SOM Lab

Ref: 427 (Page-1/1)

Dated:

14-10-2024

Dated:

23-12-2024

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	0.607	4	0.476	0.20	0.178	5.27	7.80	58120	65300	85990	96620	1.20	8.0	15.0	
2	0.549	4	0.453	0.20	0.161	4.74	7.24	52270	64930	79810	99140	1.30	8.0	16.3	
3	0.530	4	0.446	0.20	0.156	4.00	5.98	44070	56500	65990	84600	1.00	8.0	12.5	
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BEND TEST:

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

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

PM HMB Developers Pvt Ltd. Lahore (Commercial Tower, FTC Lahore)

Dr. /Engr. Asad ali Gillani

Dated: 20-12-2024

Dated: 23-12-2024

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Bility # 1223)

[illegible]

Witnessed By:	Ghulam Nabi
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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. Muhammad Moize,ARE

Test Performed By: Dr. /Engr. Nauman Khurram

Rehman Habib Consult Pvt Ltd.(Govt College of Technology Samnabad,Faisalabad)

Client Reference: COE/RHC/MLT/24/026

SOM Lab

Dated: 20-12-2024

Ref: 431 (Page-1/1)

Dated: 23-12-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	2.624	8	0.991	0.79	0.771	26.12	33.97	72910	74710	94820	97160	1.50	8.0	18.8	
2	1.485	6	0.745	0.44	0.436	16.51	20.76	82780	83530	104080	105040	1.20	8.0	15.0	
3	0.659	4	0.497	0.20	0.194	6.60	8.84	72730	74980	97460	100470	1.30	8.0	16.3	
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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

Assistant Resident Engineer
MMP (Pvt) Ltd. Pkg # I PCP Jhelum.(Const Of Kala Gujran Park in Jhelum City)

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

Client Reference: ARE/JHE-KGP/MC-13

SOM Lab

Dated: 04-12-2024

Ref: 432 (Page-1/1)

Dated: 23-12-2024

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	1.327	6	0.705	0.44	0.390	10.19	16.21	51100	57650	81240	91660	1.20	8.0	15.0	
2	1.316	6	0.702	0.44	0.387	10.06	15.72	50430	57340	78790	89580	1.40	8.0	17.5	
3	1.126	5	0.649	0.31	0.331	8.77	13.40	62370	58410	95370	89320	1.10	8.0	13.8	
4	1.127	5	0.649	0.31	0.331	9.68	13.15	68900	64530	93550	87620	1.10	8.0	13.8	
5	0.547	4	0.453	0.20	0.161	4.43	6.68	48900	60750	73630	91460	1.50	8.0	18.8	
6	0.563	4	0.458	0.20	0.165	4.54	6.88	50030	60640	75880	91970	1.40	8.0	17.5	
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BEND TEST:

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

Amjad Farooq, RE
AAA Partnership Pvt. Ltd.(JDW Tower Lahore)

Test Performed By: Dr. /Engr. Kashif

Client Reference: AAA/SO/AF 110/2024

Dated: 23-12-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 434 (Page-1/1)

Dated: 23-12-2024

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	2.704	8	1.006	0.79	0.795	24.99	35.75	69780	69340	99800	99180	1.70	8.0	21.3	
2	2.686	8	1.002	0.79	0.789	25.33	35.44	70720	70810	98950	99070	1.60	8.0	20.0	
3	1.470	6	0.742	0.44	0.432	15.06	19.52	75470	76870	97850	99660	1.40	8.0	17.5	
4	1.467	6	0.741	0.44	0.431	14.60	19.39	73170	74700	97180	99210	1.60	8.0	20.0	
5	0.670	4	0.501	0.20	0.197	6.12	8.72	67450	68470	96110	97570	1.30	8.0	16.3	
6	0.667	4	0.500	0.20	0.196	6.12	8.69	67450	68820	95770	97730	1.50	8.0	18.8	
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Witnessed By:				Ehtisham Ul Haq (Site Supervisor, AAA)											
<u>BEND TEST:</u>															
# 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															