

Engr. Zaheer Ud Din Babar

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Dy. General Manager(Works).Habib Rafiq Engineering (Pvt.) Ltd.(Const Of sky Gardens Tower,Lhr)

Client Reference: HRLE/SKG/2024/161-A(Re-Test)

SOM Lab Ref: 4786 (P-1/1)

Dated: 12-09-2024

Dated: 12-09-2024

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 200 mm

Sample Type:

Deformed Bar (Kamran 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.003	22	22.08	387	383	180.00	258.50	465	470	668	675	32.5	200	16.3	
2	3.023	22	22.14	387	385	193.50	272.00	500	503	703	707	30.0	200	15.0	
3	0.857	12	11.79	113	109	61.70	77.70	546	565	688	712	27.5	200	13.8	
4	0.862	12	11.83	113	110	55.50	74.50	491	506	659	679	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Witnessed By: M. Irfan (QC Engr/HRL), M. Akram(101 Group)

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Allied Bank

Test Performed By: Dr. /Engr. Yousaf

Unit Head PMO ABL-UML-P#199-200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-AMC-QAQC-89

SOM Lab

Ref: 4787 (Page-1/1)

Dated: 12-09-2024

Dated: 12-09-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.589	8	0.984	0.79	0.761	26.07	35.70	72770	75540	99660	103460	1.40	8.0	17.5	
2	2.590	8	0.984	0.79	0.761	25.91	35.49	72340	75100	99090	102870	1.50	8.0	18.8	
3	1.484	6	0.745	0.44	0.436	14.17	19.44	71020	71680	97440	98330	1.00	8.0	12.5	
4	1.498	6	0.748	0.44	0.440	14.07	19.59	70510	70510	98210	98210	1.30	8.0	16.3	
5	1.016	5	0.617	0.31	0.299	10.70	13.93	76150	78950	99140	102790	1.40	8.0	17.5	
6	1.024	5	0.619	0.31	0.301	10.50	13.81	74700	76930	98270	101210	1.30	8.0	16.3	
7	0.652	4	0.494	0.20	0.192	6.37	8.53	70260	73190	94090	98010	0.90	8.0	11.3	
8	0.650	4	0.493	0.20	0.191	6.34	8.51	69920	73220	93860	98290	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Assistant Executive Engineer

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

Pakistan Railway Khanpur.(The Conversion of 1x2'-0" Arch Bridge No.452 on ROH-KPR Section)

**Client Reference:** 24-S/KPR/2024

**SOM Lab**

**Ref:** 4788 (P-1/1)

**Dated:** 10-09-2024

**Dated:** 12-09-2024

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.479	6	0.744	0.44	0.435	14.85	19.24	74450	75300	96420	97530	1.50	8.0	18.8	
2	1.481	6	0.744	0.44	0.435	14.78	19.16	74090	74940	96060	97160	1.50	8.0	18.8	
3	1.048	5	0.626	0.31	0.308	9.68	13.32	68900	69350	94790	95400	1.50	8.0	18.8	
4	1.043	5	0.625	0.31	0.307	9.79	13.30	69620	70300	94640	95570	1.40	8.0	17.5	
5	0.664	4	0.498	0.20	0.195	5.58	7.49	61490	63070	82620	84740	1.10	8.0	13.8	
6	0.670	4	0.501	0.20	0.197	5.61	7.61	61830	62770	83970	85250	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Muhammad Daud

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

A/Addl Dir DHA Lab, Multan.(Const Of 2-Marla Shops Sector-H,R,U &V)

Client Reference: 701/13/Lab/DHA

SOM Lab

Ref: 4789 (P-1/1)

Dated: 11-09-2024

Dated: 12-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Naveena Steel)

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.514	6	0.753	0.44	0.445	14.83	19.03	74350	73510	95400	94320	1.30	8.0	16.3	
2	1.512	6	0.752	0.44	0.444	15.01	19.24	75210	74540	96420	95550	1.20	8.0	15.0	
3	0.653	4	0.494	0.20	0.192	5.81	8.18	64080	66750	90150	93910	1.10	8.0	13.8	
4	0.657	4	0.496	0.20	0.193	5.78	8.17	63740	66050	90040	93310	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three 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](http://www.uet-civil.edu.pk)

Asstt: Executive Engr-II

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

CCD Pak PWD Gujranwala.(Estb of Commandant Office at NHMP Training College Sheikhpora)

Client Reference: AEE/CCD/GA/Work/NHMP/P-III/Lab/54-A

SOM Lab

Ref: 4790 (Page-1/1)

Dated: 12-08-2024

Dated: 12-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Saeed Kausar)

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.059	5	0.629	0.31	0.311	9.70	12.95	69040	68820	92100	91810	1.50	8.0	18.8	
2	1.053	5	0.627	0.31	0.309	9.63	12.90	68540	68760	91740	92040	1.40	8.0	17.5	
3	0.667	4	0.500	0.20	0.196	6.24	9.45	68800	70200	104200	106330	1.00	8.0	12.5	
4	0.662	4	0.498	0.20	0.195	6.14	9.38	67670	69410	103420	106070	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Asstt: Executive Engr-II

Test Performed By:

Dr. /Engr. Asad Ali Gillani

CCD Pak PWD Gujranwala.(Estb of Commandant Office at NHMP Training College Sheikhpora)

Client Reference: AEE/CCD/GA/Work/NHMP/P-III/Lab/53

SOM Lab

Ref: 4791 (Page-1/1)

Dated: 12-08-2024

Dated: 12-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.064	5	0.631	0.31	0.313	9.63	12.90	68540	67880	91740	90860	1.50	8.0	18.8	
2	1.055	5	0.628	0.31	0.310	9.70	12.92	69040	69040	91890	91890	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

