

Engr. Zaheer Ud Din Babar
 Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Test Performed By: Dr. /Engr. Irfan Ul Hasan

Client Reference: HRLE/SKG/2022/051/19

Dated: 21-07-2022

SOM Lab Ref: CED/SOM/654(Page-1/4)

Dated: 22-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar (AFCO Steel)

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	0.880	12	11.94	113	112	50.70	76.20	448	453	674	681	30.0	200	15.0	
2	0.890	12	12.02	113	113	50.50	76.70	447	446	678	677	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

12mm	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. Zaheer Ud Din Babar

Test Performed By:

Dr. /Engr.

Irfan UI Hasan

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/050/021

Dated: 21-07-2022

SOM Lab Ref: CED/SOM/654(Page-2/4)

Dated: 22-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar (AFCO Steel)

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	3.844	25	24.98	491	490	180.00	281.00	367	368	572	574	50.0	200	25.0	
2	3.821	25	24.89	491	487	217.00	353.70	442	446	721	727	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	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. Zaheer Ud Din Babar

Test Performed By:

Dr. /Engr.

Irfan UI Hasan

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/049/015/Retest

Dated: 21-07-2022

SOM Lab Ref: CED/SOM/654(Page-3/4)

Dated: 22-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar (AFCO Steel)

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	3.789	25	24.80	491	483	204.00	324.00	416	423	660	671	37.5	200	18.8	
2	3.859	25	25.02	491	492	209.00	327.50	426	426	667	667	50.0	200	25.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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. Zaheer Ud Din Babar

Test Performed By:

Dr. /Engr.

Irfan UI Hasan

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/048/91011/Retest

Dated: 21-07-2022

SOM Lab Ref: CED/SOM/654(Page-4/4)

Dated: 22-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type:

M S Deformed Bar (AFCO Steel)

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	3.813	25	24.88	491	486	203.00	320.20	414	418	652	659	35.0	200	17.5	
2	3.762	25	24.70	491	479	208.00	322.20	424	434	656	673	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Muhammad Shahzad Anwar

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE Nespak Bwp.(Const Of Rd From Bwp Jhangra Sharqi Interchange L 42Km Distt.Bwp)

Client Reference: RE/SA-467(B)/MSA/BWP-JS/64

SOM Lab

Ref:

653 (Page-1/1)

Dated: 21-06-2022

Dated:

22-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pak 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	2.675	8	1.000	0.79	0.786	29.87	36.85	83380	83810	102880	103400	1.50	8.0	18.8	
2	2.672	8	1.000	0.79	0.785	27.01	34.76	75420	75900	97040	97660	1.50	8.0	18.8	
3	1.504	6	0.750	0.44	0.442	15.67	19.59	78530	78180	98210	97760	1.40	8.0	17.5	
4	1.506	6	0.751	0.44	0.443	15.75	19.88	78940	78410	99640	98960	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

8 Sample bend through 180 degrees Satisfactorily without any crack

6 Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Muhammad Asif Bajwa

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

ARE NESPAK .(Dualization Of Rd From Grw to M-2 Interchange at Kot Sarwar Via Hafizabad)

Client Reference: SA-466F/103/GH/ML/Lab/32

SOM Lab

Ref: 655 (Page-1/1)

Dated: 04-07-2022

Dated: 22-07-2022

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	1.631	6	0.781	0.44	0.479	19.16	22.55	96060	88240	113020	103820	1.30	8.0	16.3	
2	1.628	6	0.780	0.44	0.478	19.27	22.63	96570	88890	113430	104410	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	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

Nasir Nadeem

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

HOD Design & Const. Deptt-HO City School (Pvt)Ltd.(Project-Bahria Campus Lhr Ph-II)

Client Reference: TCS/D&C/HO/001/2025

SOM Lab

Ref:

656 (Page-1/1)

Dated: 20-07-2022

Dated:

22-07-2022

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	0.661	4	0.497	0.20	0.194	5.63	8.23	62050	63970	90720	93520	1.10	8.0	13.8	
2	0.662	4	0.498	0.20	0.195	5.61	8.38	61830	63410	92400	94770	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Sohail Anjum

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Project Manager MS Tower, G4, Lahore (Const of MS Tower At Plot 450,451 Johar Town Lahore)

Client Reference: MST/BCC/UET/2022/S-009

SOM Lab

Ref: 657 (Page-1/1)

Dated: 22-07-2022

Dated: 22-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.661	4	0.497	0.20	0.194	6.24	8.66	68800	70920	95550	98500	1.10	8.0	13.8	
2	0.658	4	0.496	0.20	0.193	6.12	8.48	67450	69890	93530	96920	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bilal Khan Yousafzai Major

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

Dir General Pakistan Rangers (Punjab).(Const Of Office Block At Headquarters Pak Rangers Lhr)

Client Reference: 2289/Works/1184/2022

SOM Lab

Ref: 662 (Page-1/1)

Dated: 16-07-2022

Dated: 25-07-2022

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	1.512	6	0.752	0.44	0.444	16.41	19.80	82260	81520	99230	98330	1.40	8.0	17.5	
2	1.513	6	0.753	0.44	0.445	16.31	19.95	81750	80840	99990	98870	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	7.54	9.25	83180	84880	101960	104040	1.30	8.0	16.3	
4	0.670	4	0.501	0.20	0.197	7.41	9.28	81720	82970	102290	103850	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Khalil Ahmad Khoso

Test Performed By: Dr. /Engr. Irfan UI Hasan

RE Metroplan-Asian Jv,MCH,Layyah(Estb Of 200 Bedded Mother & Child Hospital(MCH),Layyah)

Client Reference: Metroplan-Asian Jv-MCH-Layyah-RE-96

SOM Lab

Ref: 660 (Page-1/1)

Dated: 16-07-2022

Dated: 22-07-2022

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	2.687	8	1.003	0.79	0.790	25.91	33.51	72340	72340	93540	93540	1.40	8.0	17.5	
2	2.690	8	1.004	0.79	0.791	24.87	34.66	69440	69350	96760	96640	1.40	8.0	17.5	
3	1.500	6	0.749	0.44	0.441	13.32	18.60	66780	66630	93250	93040	1.00	8.0	12.5	
4	1.514	6	0.753	0.44	0.445	13.97	20.00	70000	69220	100250	99120	1.20	8.0	15.0	
5	0.664	4	0.498	0.20	0.195	6.32	8.87	69700	71480	97800	100300	1.00	8.0	12.5	
6	0.655	4	0.494	0.20	0.192	6.14	8.38	67670	70490	92400	96250	1.00	8.0	12.5	
7	0.649	4	0.493	0.20	0.191	6.39	8.79	70480	73800	96900	101460	1.00	8.0	12.5	
8	0.657	4	0.496	0.20	0.193	6.95	8.84	76660	79450	97460	100990	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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