

Resident Engineer/Team Leader
 Prime Engineering Consultancy, Kallurkot Bidge Project

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

Client Reference: KK-DIK-BR-PJ/2020/195
SOM Lab Ref: CED/SOM/3091(Page-1/1)
Test: Tension Test & bend Test
Sample Type: Deformed Bar(Pak Steel)

Dated: 12-10-2020
Dated: 13-10-2020
Test Specification: ASTM-A 615
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	3.773	25	24.75	491	481	234.70	313.50	478	488	639	652	40.0	200	20.0	
2	1.585	16	16.04	201	202	109.70	145.70	546	544	725	722	30.0	200	15.0	
3	0.896	12	12.06	113	114	63.20	81.70	559	554	722	716	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Kamran Tahir Sandhu

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Material Engineer, DHA Multan(Construction of Bilal Mosque (M/S Umer Jan & Co.)

Client Reference: 701/52/P&DHA

Dated: 09-10-2020

SOM Lab Ref: CED/SOM/3096 (Page-1/1)

Dated: 13-10-2020

Test: Tension & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (FF 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	3.084	25	22.37	491	393	251.70	340.20	513	641	693	866	37.5	200	18.8	
2	3.062	25	22.29	491	390	255.70	330.00	521	656	672	846	35.0	200	17.5	
3	1.745	20	16.82	314	222	154.70	202.70	492	696	645	912	32.5	200	16.3	
4	1.745	20	16.82	314	222	158.00	205.50	503	711	654	925	30.0	200	15.0	
5	1.162	16	13.73	201	148	94.00	126.20	468	636	628	853	32.5	200	16.3	
6	1.155	16	13.69	201	147	94.00	126.50	468	639	629	860	27.5	200	13.8	
7	0.694	12	10.61	113	88	58.70	76.70	519	665	678	868	30.0	200	15.0	
8	0.694	12	10.61	113	88	59.00	77.20	522	668	683	874	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
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

Arfan ul Haq

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Resident Engineer, NESPAK - ZEERUK (JV) CPEC (Western Route), Package-II, Isakhel

Client Reference: RE/NESPAK/P-2B/CPEC-WR/1377

Dated: 04-10-2020

SOM Lab Ref: CED/SOM/3097(Page-1/1)

Dated: 13-10-2020

Test: Tension Test

Test Specification: ASTM-A 615

Sample Type: J-Head Anchor Bolt

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	3.928	25	25.23	491	500	169.50	255.70	345	339	521	512	47.5	200	23.8	
2	3.923	25	25.22	491	500	171.70	254.90	350	344	519	511	55.0	200	27.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Shabbeer Nazir
Construction Manager, zameen Aurum, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: ZD/ZO/L/002

Dated: 15-10-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3113(Page-1/1)

Dated: 15-10-2020

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	1.513	6	0.753	0.44	0.445	15.14	19.69	75880	75030	98720	97610	1.20	8.0	15.0	
2	1.516	6	0.754	0.44	0.446	15.51	20.00	77770	76720	100250	98900	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Qamar Uz Zaman(Proj. Manager)

Test Performed By: Dr. /Engr. S. Asas Ali Gillani

Aujla & Associates(Warehouse Building Slab, Royal Palm City Housing Scheme Gujranwala)

Client Reference: nil

SOM Lab

Ref: 3093(Page-1/1)

Dated: 13-10-2020

Dated: 13-10-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	1.402	6	0.724	0.44	0.412	12.30	16.92	61670	65870	84820	90580	1.30	8.0	16.3	
2	1.415	6	0.728	0.44	0.416	12.51	17.20	62700	66310	86200	91170	1.20	8.0	15.0	
3	0.677	4	0.503	0.20	0.199	6.49	8.41	71610	71970	92740	93200	1.20	8.0	15.0	
4	0.676	4	0.503	0.20	0.199	6.49	8.41	71610	71970	92740	93200	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Farooq
Techforce Engineers & Contractors, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: TF/S.T-09/20

Dated: 12-10-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3094(Page-1/1)

Dated: 13-10-2020

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	2.631	8	0.992	0.79	0.773	25.38	33.44	70860	72420	93340	95400	1.50	8.0	18.8	
2	2.567	8	0.980	0.79	0.754	26.10	34.48	72850	76330	96250	100840	1.60	8.0	20.0	
3	1.488	6	0.746	0.44	0.437	15.24	19.72	76390	76910	98870	99550	1.30	8.0	16.3	
4	1.501	6	0.749	0.44	0.441	13.15	18.45	65910	65770	92480	92270	1.20	8.0	15.0	
5	0.675	4	0.502	0.20	0.198	6.75	9.30	74420	75170	102520	103550	1.10	8.0	13.8	
6	0.655	4	0.494	0.20	0.192	5.93	7.97	65420	68150	87910	91570	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Kamran Tahir Sandhu

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Material Engineer, DHA Multan(Construction of DHA Shopping Mall (M/S CM Developers))

Client Reference: 701/70/P&D/DHA

SOM Lab

3095(Page-

Ref:

1/1)

Dated: 09-10-2020

Dated:

13-10-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(Ittefaq 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	2.071	8	0.881	0.79	0.609	21.46	33.76	59910	77710	94250	122270	1.30	8.0	16.3	
2	2.057	8	0.878	0.79	0.605	21.15	33.66	59050	77110	93970	122700	1.20	8.0	15.0	
3	1.178	6	0.664	0.44	0.346	12.05	18.20	60400	76800	91210	115980	1.50	8.0	18.8	
4	1.172	6	0.662	0.44	0.344	11.95	17.72	59890	76600	88800	113590	1.50	8.0	18.8	
5	0.537	4	0.449	0.20	0.158	6.17	9.55	68010	86090	105330	133330	1.10	8.0	13.8	
6	0.536	4	0.449	0.20	0.158	5.88	9.19	64860	82100	101390	128350	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Sub Divisional Officer
Building Sub Division, Arifwala

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

Client Reference: 1622/SDO-A
Dated: 20-08-2020
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 3098(Page-1/1)
Dated: 13-10-2020
Test Specification: 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	1.488	6	0.746	0.44	0.437	18.40	21.89	92230	92860	109700	110450	1.00	8.0	12.5	
2	1.489	6	0.747	0.44	0.438	17.91	21.53	89780	90190	107910	108410	0.90	8.0	11.3	
3	0.650	4	0.493	0.20	0.191	7.46	9.02	82290	86160	99480	104170	1.10	8.0	13.8	
4	0.650	4	0.493	0.20	0.191	7.39	8.94	81500	85340	98580	103230	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. S. Asas Ali Gillani

Client Reference: PCS/2020/Eng-76

SOM Lab

Ref: 3101(Page-1/4)

Dated: 13-10-2020

Dated: 13-10-2020

Test: Tension 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	0.675	4	0.502	0.20	0.198	7.85	9.70	86560	87430	107010	108090	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	8.00	9.70	88240	89590	107010	108640	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. S. Asas Ali Gillani

Client Reference: PCS/2020/Eng-76

SOM Lab

Ref: 3101(Page-1/4)

Dated: 13-10-2020

Dated: 13-10-2020

Test: Tension 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	0.675	4	0.502	0.20	0.198	7.85	9.70	86560	87430	107010	108090	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	8.00	9.70	88240	89590	107010	108640	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. S. Asas Ali Gillani

Client Reference: PCS/2020/Eng-76

SOM Lab

Ref: 3101(Page-2/4)

Dated: 13-10-2020

Dated: 13-10-2020

Test: Tension 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	1.059	5	0.629	0.31	0.311	10.19	13.53	72520	72290	96240	95930	1.30	8.0	16.3	
2	1.054	5	0.628	0.31	0.310	10.40	13.66	73970	73970	97180	97180	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. S. Asas Ali Gillani

Client Reference: PCS/2020/Eng-78

SOM Lab

Ref: 3101(Page-3/4)

Dated: 13-10-2020

Dated: 13-10-2020

Test: Tension 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	1.474	6	0.743	0.44	0.433	12.79	17.20	64130	65160	86200	87590	1.40	8.0	17.5	
2	1.484	6	0.745	0.44	0.436	12.35	16.79	61930	62500	84160	84930	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. S. Asas Ali Gillani

Client Reference: PCS/2020/Eng-79

SOM Lab

Ref: 3101(Page-4/4)

Dated: 13-10-2020

Dated: 13-10-2020

Test: Tension 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	2.638	8	0.993	0.79	0.775	29.23	37.87	81590	83170	105720	107770	1.10	8.0	13.8	
2	2.626	8	0.991	0.79	0.772	28.85	37.64	80540	82420	105070	107520	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Test Performed by: .S. Asad Ali Gellani

Ali Traders
General Order Suppliar

Client Reference No.: nil

Dated: 13-10-2020

SOM Lab Ref: CED/SOM/3099-3100 (Page 1/2)

Dated: 13-10-2020

Test Type: Tensile Test

Sample Type: Nut Bolt (M24)

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Enongation
1	Nut Bolt (24mm)	16.0	185.5	922.60	30.0

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Bolt (M24)	HR – 93.83 – B

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