

Engr. Muhammad Sajjad Karim

Test Performed By:

Dr. /Engr.

Asad Ali Gilani

RE Metroplan Asian Jv, Multan.(Estb Of Teriary Care Hospital,Nishtar-II Multan)

Client Reference: MP-Asian JV-Nishter-II -RE-1784-2023

Dated

: 13-06-2023

SOM Lab Ref: CED/SOM/2454(Page-1/3)

Dated

: 16-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type:

Deformed Bar (SJ Steel)

Gauge Length:

m  
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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	2.494	20	20.12	314	318	148.00	197.50	471	466	629	622	35.0	200	17.5	MIR # 8
2	2.482	20	20.07	314	316	148.50	197.50	473	470	629	625	35.0	200	17.5	MIR # 8
3	1.624	16	16.23	201	207	112.00	140.20	557	542	697	678	35.0	200	17.5	MIR # 8
4	1.602	16	16.12	201	204	114.00	142.70	567	559	710	700	35.0	200	17.5	MIR # 8
5	1.000	13	12.74	133	127	66.50	89.20	501	523	672	701	32.5	200	16.3	MIR # 8
6	1.000	13	12.74	133	127	64.70	85.70	487	508	646	673	30.0	200	15.0	MIR # 8
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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)

Engr. Muhammad Sajjad Karim

Test Performed By:

Dr. /Engr.

Asad Ali Gilani

RE Metroplan Asian Jv, Multan.(Estb Of Teriary Care Hospital,Nishtar-II Multan)

Client Reference: MP-Asian JV-Nishter-II -RE-1783-2023

Dated

: 13-06-2023

SOM Lab Ref: CED/SOM/2454(Page-2/3)

Dated

: 16-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type:

Deformed Bar (SJ Steel)

Gauge Length:

m  
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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	2.289	20	19.28	314	292	145.70	196.20	464	499	625	672	35.0	200	17.5	MIR # 7
2	2.252	20	19.11	314	287	143.50	199.20	457	501	634	695	32.5	200	16.3	MIR # 7
3	1.421	16	15.18	201	181	101.00	128.50	502	558	639	710	35.0	200	17.5	MIR # 7
4	1.408	16	15.11	201	179	100.00	128.00	497	558	637	714	32.5	200	16.3	MIR # 7
5	1.006	13	12.77	133	128	67.50	85.20	509	527	642	665	35.0	200	17.5	MIR # 7
6	0.996	13	12.71	133	127	66.20	83.50	499	522	629	659	32.5	200	16.3	MIR # 7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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)

Engr. Muhammad Sajjad Karim

Test Performed By:

Dr. /Engr.

Asad Ali Gilani

RE Metroplan Asian Jv, Multan.(Estb Of Teriary Care Hospital,Nishtar-II Multan)

Client Reference: MP-Asian JV-Nishter-II -RE-1782-2023

Dated

: 13-06-2023

SOM Lab Ref: CED/SOM/2454(Page-3/3)

Dated

: 16-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type:

Deformed Bar (SJ Steel)

Gauge Length:

m  
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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	2.501	20	20.15	314	319	159.70	205.70	508	501	655	645	35.0	200	17.5	MIR # 6
2	2.512	20	20.19	314	320	160.00	208.20	509	500	663	651	32.5	200	16.3	MIR # 6
3	1.519	16	15.70	201	194	100.00	129.50	497	517	644	670	30.0	200	15.0	MIR # 6
4	1.522	16	15.71	201	194	103.00	130.50	512	532	649	674	35.0	200	17.5	MIR # 6
5	0.996	13	12.71	133	127	66.20	83.20	499	522	627	656	30.0	200	15.0	MIR # 6
6	1.004	13	12.76	133	128	65.70	82.60	495	514	622	646	35.0	200	17.5	MIR # 6
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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)

Fahid Javed

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

RE UMDS JV Cconsultants Sialkot.(Upgradation, Lot-04: Construction Of Flyover in Sialkot)

Client Reference: RE/UMDS-JV/LOT-4/SKT/39

SOM Lab

Ref: 2453 (Page-1/1)

Dated: 15-06-2023

Dated: 16-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.64 4	8	0.99 5	0.7 9	0.77 7	26.01	34.02	72630	73840	94970	96550	1.4 0	8. 0	17. 5	
2	2.65 3	8	0.99 7	0.7 9	0.78 0	25.61	33.86	71490	72410	94540	95750	1.3 0	8. 0	16. 3	
3	1.05 2	5	0.62 7	0.3 1	0.30 9	9.86	13.32	70130	70360	94790	95090	1.3 0	8. 0	16. 3	
4	1.04 7	5	0.62 6	0.3 1	0.30 8	9.99	13.43	71070	71540	95510	96130	1.3 0	8. 0	16. 3	
5	0.65 8	4	0.49 6	0.2 0	0.19 3	6.73	8.73	74190	76880	96220	99710	1.3 0	8. 0	16. 3	
6	0.66 4	4	0.49 8	0.2 0	0.19 5	6.83	8.79	75320	77250	96900	99380	1.4 0	8. 0	17. 5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By: Shakeel Ahmad (Sub Engineer,PICIIP), M. Shahzad (L.T Consultants UMDS)

**BEND TEST:**

# 8	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)

Engr. Muhammad Sajjad Karim

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE Metroplan Asian Jv, Multan.(Estb Of Teriary Care Hospital,Nishtar-II Multan)

Client Reference: MP-Asian JV-Nishter-II -RE-1743-2023

SOM Lab

Ref:

2455 (Page-1/1)

Dated: 18-04-2023

Dated:

16-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (SJ

Gauge Length:

8 inch

Sample Type:

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	1.639	6	0.783	0.44	0.482	15.29	19.59	76640	69970	98210	89650	1.50	8.00	18.8	MIR 4
2	1.640	6	0.783	0.44	0.482	15.19	19.69	76130	69500	98720	90120	1.40	8.00	17.5	MIR 4
3	1.031	5	0.621	0.31	0.303	11.01	13.20	78330	80130	93920	96090	1.40	8.00	17.5	MIR 4
4	1.021	5	0.618	0.31	0.300	10.91	13.02	77600	80190	92610	95700	1.30	8.00	16.3	MIR 4
5	0.669	4	0.501	0.20	0.197	6.52	8.28	71940	73040	91280	92670	1.30	8.00	16.3	MIR 4
6	0.676	4	0.503	0.20	0.199	6.60	8.58	72730	73100	94650	95130	1.30	8.00	16.3	MIR 4
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**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)

Sub Divisional officer,

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

PHE:Sub Div Sialkot.(RCC Sewer From Village Kharotan Syedian To Nullah Palkhoo Pulli To Khana)

**Client Reference:** 12/Sd

**SOM Lab**

**Ref:** 2456 (Page-1/1)

**Dated:** 10-01-2023

**Dated:** 16-06-2023

**Test:** Tension Test & Bend Test

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

Deformed

**Gauge Length:** 8 inch

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.228	6	0.678	0.44	0.361	9.86	14.78	49410	60220	74090	90300	1.30	8.00	16.3	
2	1.232	6	0.679	0.44	0.362	9.96	14.73	49920	60680	73830	89740	1.20	8.00	15.0	
3	0.668	4	0.500	0.20	0.196	4.71	7.24	51940	53000	79810	81440	1.20	8.00	15.0	
4	0.664	4	0.498	0.20	0.195	4.81	7.56	53060	54420	83410	85550	0.90	8.00	11.3	
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**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)

Assistant Engineer

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

Engg Wiing Uni Of Sahiwal.(Extension Of Hall/Store Room Near Cafeteria at University Of Sahiwal)

Client Reference: UOS/EW/22-23 071

SOM Lab

Ref: 2458 (Page-1/1)

Dated: 15-06-2023

Dated: 16-06-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.509	6	0.751	0.44	0.443	16.31	20.15	81750	81200	101020	100330	1.20	8.00	15.00	
2	0.663	4	0.498	0.20	0.195	5.83	8.77	64300	65950	96670	99150	1.30	8.00	16.30	
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**BEND TEST:**

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

Capital Construction Co  
Lahore.(Construction Of AL HAMD TOWER Barket Market,Road Lahore)

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

**Client Reference:** 1382021BCC

**Dated:** 16-06-2023

**Test:** Tension Test & Bend Test

**Gauge Length:** 8 inch

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

**Sample Type:**

**SOM Lab**

**Ref:** 2459 (Page-1/1)

**Dated:** 16-06-2023

ASTM-A-615

Deformed Bar (Model 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	2.69 8	8	1.00 5	0.7 9	0.79 3	27.01	34.73	75420	75130	96960	96590	1.4 0	8. 0	17. 5	
2	1.50 8	6	0.75 1	0.4 4	0.44 3	14.22	19.32	71280	70800	96830	96170	1.4 0	8. 0	17. 5	
3	0.67 2	4	0.50 1	0.2 0	0.19 7	6.47	8.82	71380	72470	97230	98720	1.3 0	8. 0	16. 3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

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



Sadaqat Ahmad,RE  
Nespak Lahore.(University Of Child Health Sciences Lahore)

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

Client Reference: 4598/13/SA/09/016

SOM Lab

Ref: 2460 (Page-1/1)

Dated: 13-06-2023

Dated: 16-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Batala Gold)

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	2.637	8	0.993	0.79	0.775	22.50	37.92	62810	64020	105860	107910	1.20	8.00	15.00	
2	2.627	8	0.991	0.79	0.772	23.04	37.33	64320	65820	104210	106640	1.40	8.00	17.05	
3	1.488	6	0.746	0.44	0.437	12.74	20.49	63870	64310	102700	103410	1.20	8.00	15.00	
4	1.493	6	0.748	0.44	0.439	12.03	19.01	60290	60430	95290	95510	1.50	8.00	18.08	
5	0.672	4	0.501	0.20	0.197	5.78	8.92	63740	64710	98360	99860	1.30	8.00	16.03	
6	0.671	4	0.501	0.20	0.197	5.86	9.12	64640	65620	100610	102140	1.20	8.00	15.00	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

M. A Dodhy  
Principal Architect For N.Jehangir & Associates.

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

Client Reference: Nil

SOM Lab

Ref: 2461 (Page-1/1)

Dated: 15-06-2023

Dated: 16-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.496	6	0.748	0.44	0.440	14.78	19.08	74090	74090	95650	95650	1.50	8.00	18.8	
2	0.674	4	0.502	0.20	0.198	5.50	7.61	60700	61320	83970	84820	1.40	8.00	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two 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)

**Test Performed by:** S. Asad Ali Gillani

Project Manager  
For Aldo International Pvt.Ltd.  
99-P Gulberg-II Lahore.

**Client Reference No.:** Nil

Dated: 12-06-2023

**SOM Lab Ref:** CED/SOM/2457 (Page 1/1)

Dated: 16-06-2023

**Test Type:** Tensile Test

**Sample Type:** Nut Bolts

**Test Specification:** ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Rod/Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	Remarks
1	Nut Bolt	10.0	21.2	269.92	Thread failure

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

**Test Performed by:** .Dr Rashid Hameed

Abrar Hussain  
G.M Engineering Mughal Pakistan (Pvt) Ltd.  
Lahore. (Construction of Serena Hotel, Hunza)

**Client Reference No.:** 786/MPL-0075/050604/2023

Dated: 05-06-2023

**SOM Lab Ref:** CED/SOM/2462 (Page 1/1)

Dated: 16-06-2023

**Test Type:** Hardness Test **Sample Type:** H Beam 8"x8"

### 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 (avg)
1	H Beam 8"x8"	HR – 85.33- B

### IMPACT TEST

Machine Used	Charpy's Impact Testing Machine
Weight of Hammer	50.5 Lbs = 22.91 kg
Height of fall	4.924ft = 1.309 m
Radius at center of fork	700 mm =
Angle of fall without specimen	151 °
Sample	Standard Charpy (Bending Type)

Sr. No	Sample Type	Angle of fall after Rupture	Energy (N-mm)
1	H Beam 8"x8"	120 °	58838.79

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

