Abdul Rasheed **Test Performed By:** **Dr. /Engr.** **Ubaid A Mughal**

Genreral Manager, A.S. Enterprises, Engineers & Contractors, Lahore

Client Reference: **USD/ASE/07** **Dated:** **14-01-2019**

SOM Lab Ref: **CED/SOM/123(Page-1/2)** **Dated:** **14-01-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A 615**

Sample Type: **M S Deformed Bar(Ittefaq 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	2.475	20	20.03	314	315	168.00	215.20	535	534	685	684	27.5	200	13.8	
2	2.458	20	19.97	314	313	175.20	216.20	558	560	688	691	32.5	200	16.3	
3	1.575	16	15.98	201	201	123.00	137.70	612	614	685	687	25.0	200	12.5	
4	1.591	16	16.06	201	203	124.20	144.00	618	613	716	711	25.0	200	12.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	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

Abdul Rasheed **Test Performed By:** **Dr. /Engr.** **Ubaid A Mughal**

Genreral Manager, A.S. Enterprises, Engineers & Contractors, Lahore

Client Reference: **USD/ASE/07** **Dated:** **14-01-2019**

SOM Lab Ref: **CED/SOM/123(Page-2/2)** **Dated:** **14-01-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A 615**

Sample Type: **M S Deformed Bar(AFco & Ittefaq 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	3.775	25	24.75	491	481	206.70	287.50	421	430	586	598	37.5	200	18.8	AFCO
2	3.748	25	24.66	491	477	197.20	284.00	402	414	579	595	45.0	200	22.5	AFCO
3	0.885	12	11.98	113	113	53.50	82.20	473	475	727	729	32.5	200	16.3	Ittefaq
4	0.916	12	12.19	113	117	55.50	73.00	491	476	645	626	35.0	200	17.5	Ittefaq
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Murtaza Ali (CEO) **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

Unique Tools And Mill Store, Karachi

Client Reference: 98/19 **Dated:** 11-01-2019

SOM Lab Ref: CED/SOM/127(Page-1/1) **Dated:** 14-01-20198

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

Sample Type: Plain 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	6.348	30	32.09	707	809	430.00	663.15	608	532	938	820	25.0	200	12.5	
2	3.911	24	25.19	380	498	258.00	398.20	679	518	1048	800	17.5	200	8.8	
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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

DCRE/ RE-I, **Test Performed By:** Dr. /Engr. M Rizwan Riaz

Zeeruk International (Pvt) Ltd. Lahore Sialkot Motorway Project

Client Reference: LSMP/RE-I/2018/613 **Dated:** 14-01-2019

SOM Lab Ref: CED/SOM/128(Page-1/1) **Dated:** 14-01-2019

Test: Tension Test & Bend Test **Test Specification:** ASTM-F-1554

Sample Type: 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	3.000	25	22.05	491	382	138.00	210.20	281	362	428	551	47.5	200	23.8	
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BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

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

District Officer (I&S)
District Council Narowal

Test Performed By: Dr. /Engr. **Ubaid A Mughal**

Client Reference: **DCN/DO (I&S)**
Dated: 24-12-2018

SOM Lab Ref: 118 (Page-1/1)
Dated: 14-01-2019

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.675	4	0.502	0.20	0.198	6.19	8.63	68230	68920	95210	96170	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

M. Mazhar Maqbool **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

G. M. (Planning & Admin) Kraftcon (Pvt) Ltd, Lahore

Client Reference: **kpl/19/014** **SOM Lab Ref:** **119 (Page-1/1)**

Dated: **12-01-2019** **Dated:** **14-01-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.629	6	0.781	0.44	0.479	17.53	22.19	87880	80730	111230	102180	1.10	8.0	13.8	
2	1.055	5	0.628	0.31	0.310	11.49	14.17	81730	81730	100810	100810	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Syed Mohsin Ali **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

Manager QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Client Reference: QA/QC-Steel-1217 **SOM Lab Ref:** 120(Page-1/1)

Dated: 10-01-2019 **Dated:** 14-01-2019

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar(Mughal 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	1.465	6	0.741	0.44	0.431	16.46	20.31	82520	84240	101780	103910	1.10	8.0	13.8	
2	1.446	6	0.736	0.44	0.425	17.25	21.00	86450	89510	105260	108970	1.10	8.0	13.8	
3	0.659	4	0.497	0.20	0.194	7.24	9.35	79810	82280	103080	106270	1.20	8.0	15.0	
4	0.660	4	0.497	0.20	0.194	7.34	9.38	80940	83440	103420	106620	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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 Anjum **Test Performed By:** **Dr. /Engr.** **Ubaid A Mughal**

Assistant Works Manager, PR/Bridge Workshop, Jhelum

Client Reference: **196-S/103** **SOM Lab Ref:** **121 (Page-1/2)**

Dated: **04-01-2019** **Dated:** **14-01-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Round 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	1.485	6	0.745	0.44	0.436	11.74	17.76	58860	59400	89010	89830	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

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

Muhammad Anjum **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

Assistant Works Manager, PR/Bridge Workshop, Jhelum

Client Reference: **196-S/103** **SOM Lab Ref:** **121 (Page-2/2)**

Dated: **04-01-2019** **Dated:** **14-01-2019**

Test: **Tension 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.560	8	0.979	0.79	0.752	25.38	32.72	70860	74440	91350	95970	1.50	8.0	18.8	
2	1.550	6	0.762	0.44	0.456	15.09	20.69	75620	72970	103720	100080	1.30	8.0	16.3	
3	0.651	4	0.493	0.20	0.191	6.03	8.12	66550	69680	89590	93810	1.30	8.0	16.3	
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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

Furqan-ul-Haq **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

General Manager, AYQ Developers Pvt. (Ltd) Lahore

Client Reference: nil **SOM Lab Ref:** 122 (Page-1/2)

Dated: 14-01-2019 **Dated:** 14-01-2019

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	1.491	6	0.747	0.44	0.438	16.62	22.07	83290	83670	110620	111130	1.10	8.0	13.8	
2	1.479	6	0.744	0.44	0.435	15.97	21.71	80070	80990	108830	110080	1.10	8.0	13.8	
3	1.489	6	0.747	0.44	0.438	16.77	22.14	84050	84440	110980	111490	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Furqan-ul-Haq **Test Performed By:** Dr. /Engr. **Ubaid A Mughal**

General Manager, AYQ Developers Pvt. (Ltd) Lahore

Client Reference: nil **SOM Lab Ref:** 122 (Page-2/2)

Dated: 14-01-2019 **Dated:** 14-01-2019

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	2.625	8	0.991	0.79	0.771	27.32	35.88	76270	78150	100170	102640	1.30	8.0	16.3	
2	2.690	8	1.004	0.79	0.791	25.96	35.55	72480	72390	99230	99110	1.50	8.0	18.8	
3	2.689	8	1.003	0.79	0.790	25.76	35.68	71920	71920	99600	99600	1.50	8.0	18.8	
4	1.482	6	0.745	0.44	0.436	13.73	19.57	68830	69460	98100	99000	1.10	8.0	13.8	
5	1.477	6	0.743	0.44	0.434	14.37	20.74	72050	73040	103980	105420	1.00	8.0	12.5	
6	1.500	6	0.749	0.44	0.441	13.66	19.42	68470	68310	97340	97120	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Eight Samples Received and Tested

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

M Saleem **Test Performed By:** **Dr. /Engr.** **M rizwan Riaz**

Construction Company, Engineers & Contractors Lahore Road, Sheikhupura

Client Reference: **Steel Test (N.T.N 2872696 - 7)** **SOM Lab Ref:** **124 (Page-1/1)**

Dated: **14-01-2019** **Dated:** **14-01-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.578	8	0.982	0.79	0.758	27.40	35.00	76500	79730	97710	101840	1.30	8.0	16.3	
2	1.520	6	0.754	0.44	0.447	19.50	23.70	97750	96220	118800	116940	1.00	8.0	12.5	
3	0.707	4	0.515	0.20	0.208	7.20	9.10	79400	76340	100350	96490	0.90	8.0	11.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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

Sub Divisional Officer **Test Performed By:** **Dr. /Engr.** **M Rizwan Riaz**

Development Sub Division-I, Bahawalnagar

Client Reference: **06-** **SOM Lab Ref:** **125 (Page-1/1)**

Dated: **07-01-2019** **Dated:** **14- 01-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.532	6	0.757	0.44	0.450	10.75	15.99	53910	52710	80170	78390	1.70	8.0	21.3	
2	1.527	6	0.756	0.44	0.449	10.77	15.99	54010	52930	80170	78560	1.70	8.0	21.3	
3	0.671	4	0.501	0.20	0.197	5.05	7.10	55650	56490	78350	79540	1.50	8.0	18.8	
4	0.674	4	0.502	0.20	0.198	5.10	7.10	56210	56770	78350	79140	1.40	8.0	17.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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

Inam Ullah Khan **Test Performed By:** **Dr. /Engr. Ubaid A Mughal**

Construction Manager, on behalf of CNEEC - FNEPCC JV, Lahore

Client Reference: **CNEEC/NEW LAHORE (Extn NESPAK 16** **SOM Lab Ref:** **126 (Page-1/1)**

Dated: **14-01-2019** **Dated:** **14-01-2019**

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.654	4	0.494	0.20	0.192	5.78	9.14	63740	66390	100830	105030	1.50	8.0	18.8	
2	0.668	4	0.500	0.20	0.196	5.86	9.12	64640	65960	100610	102660	1.50	8.0	18.8	
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Witnessed By: **Rehan Asif Awan, Sr. Engineer, NESPAK**

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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