

Sr. Manager Civil

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/W.P/CIVIL/2021/01

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4801(Page-1/1)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Moiz 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	0.884	12	12.00	113	113	49.50	74.70	438	439	660	662	30.0	200	15.0	
2	0.883	12	11.97	113	112	50.50	75.20	447	449	665	669	27.5	200	13.8	
3	0.875	12	11.92	113	112	54.00	75.00	477	485	663	673	30.0	200	15.0	
4	0.887	12	12.00	113	113	51.20	74.20	453	454	656	657	30.0	200	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/Line-IV/CIVIL/2021/03

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4803(Page-1/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	2.451	20	19.93	314	312	167.00	215.70	532	536	687	692	35.0	200	17.5	
2	2.457	20	19.96	314	313	170.00	220.00	541	544	700	703	30.0	200	15.0	
3	2.459	20	19.97	314	313	158.20	210.00	504	506	668	671	32.5	200	16.3	
4	2.463	20	19.99	314	314	163.00	213.00	519	520	678	679	32.5	200	16.3	
5	2.469	20	20.01	314	315	169.00	219.00	538	538	697	697	37.5	200	18.8	
6	2.478	20	20.05	314	316	167.00	217.50	532	529	692	689	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/Line-IV/CIVIL/2021/03

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4802(Page-2/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	3.865	25	25.03	491	492	258.00	328.00	526	525	668	667	32.5	200	16.3	189
2	3.860	25	25.02	491	492	256.00	328.00	522	521	668	668	37.5	200	18.8	189
3	3.836	25	24.94	491	489	271.00	343.20	552	555	699	703	25.0	200	12.5	738
4	3.850	25	24.99	491	490	280.00	352.20	570	571	717	719	32.5	200	16.3	129
5	3.828	25	24.92	491	488	258.00	325.50	526	530	663	668	32.5	200	16.3	129
6	3.860	25	25.02	491	492	255.00	325.00	519	519	662	661	35.0	200	17.5	732
7	3.843	25	24.97	491	490	258.00	330.00	526	528	672	675	35.0	200	17.5	732
8	3.872	25	25.06	491	493	255.00	328.00	519	518	668	666	32.5	200	16.3	732
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/Line-IV/CIVIL/2021/03

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4803(Page-3/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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	0.907	12	12.15	113	116	58.70	76.00	519	507	672	656	25.0	200	12.5	
2	0.890	12	12.02	113	113	59.00	75.50	522	521	668	666	25.0	200	12.5	
3	0.889	12	12.01	113	113	59.00	75.50	522	522	668	667	27.5	200	13.8	
4	0.890	12	12.02	113	113	60.20	77.00	532	531	681	680	30.0	200	15.0	
5	0.888	12	12.00	113	113	58.50	76.00	517	517	672	672	27.5	200	13.8	
6	0.892	12	12.03	113	114	60.50	77.10	535	533	682	679	25.0	200	12.5	
7	0.893	12	12.03	113	114	59.10	76.00	523	520	672	669	25.0	200	12.5	
8	0.883	25	11.97	491	112	58.20	75.90	119	518	155	675	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
12mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/Line-IV/CIVIL/2021/03

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4803(Page-4/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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	1.539	16	15.80	201	196	113.70	136.00	565	581	676	694	32.5	200	16.3	
2	1.515	16	15.67	201	193	114.20	136.70	568	592	680	709	35.0	200	17.5	
3	1.535	16	15.78	201	196	112.00	134.70	557	573	670	689	30.0	200	15.0	
4	1.534	16	15.78	201	195	110.70	135.00	551	567	671	691	32.5	200	16.3	
5	1.533	16	15.77	201	195	115.00	135.00	572	589	671	692	30.0	200	15.0	
6	1.542	16	15.82	201	196	110.90	134.70	552	565	670	686	30.0	200	15.0	
7	1.537	16	15.79	201	196	113.20	135.00	563	579	671	690	32.5	200	16.3	
8	1.539	16	15.80	201	196	113.00	136.00	562	577	676	694	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/Line-IV/CIVIL/2021/03

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4803(Page-5/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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	3.885	25	25.11	491	495	273.00	345.70	556	552	704	699	25.0	200	12.5	
2	3.877	25	25.08	491	494	275.00	348.70	560	557	710	707	27.5	200	13.8	
3	3.884	25	25.10	491	495	286.00	354.70	583	579	723	717	37.5	200	18.8	
4	3.883	25	25.10	491	495	284.00	351.00	579	575	715	710	35.0	200	17.5	
5	3.944	25	25.29	491	502	270.00	347.00	550	538	707	691	27.5	200	13.8	
6	3.952	25	25.32	491	503	269.00	345.90	548	535	705	688	30.0	200	15.0	
7	3.898	25	25.15	491	497	268.00	343.70	546	540	700	693	32.5	200	16.3	
8	3.878	25	25.08	491	494	269.00	346.00	548	545	705	701	30.0	200	15.0	
9	3.880	25	25.09	491	494	278.00	350.00	566	563	713	709	35.0	200	17.5	
10	3.857	25	25.01	491	491	275.00	349.00	560	560	711	711	32.5	200	16.3	

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of 7000 TPD Line-IV, MLCFL)

Client Reference: MLCFL/Line-IV/CIVIL/2021/04

Dated: 28-07-2021

SOM Lab Ref: CED/SOM/4804(Page-1/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal IronI)

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	1.559	16	15.92	201	199	108.20	142.00	538	544	706	714	25.0	200	12.5	A-8378
2	1.562	16	15.92	201	199	108.70	131.20	541	547	653	660	25.0	200	12.5	A-8378
3	1.546	16	15.84	201	197	112.20	140.20	558	570	697	712	27.5	200	13.8	A-8389
4	1.560	16	15.91	201	199	113.00	141.20	562	569	702	711	30.0	200	15.0	A-8389
5	1.554	16	15.88	201	198	112.00	137.20	557	566	682	694	27.5	200	13.8	A-8380
6	1.549	16	15.85	201	197	109.00	132.00	542	553	657	669	25.0	200	12.5	A-8380
7	1.563	16	15.92	201	199	108.00	130.00	537	543	647	653	25.0	200	12.5	B-3120
8	1.548	16	15.84	201	197	113.00	140.00	562	574	696	711	27.5	200	13.8	B-3120
9	1.555	16	15.88	201	198	107.00	137.70	532	541	685	695	27.5	200	13.8	B-3143
10	1.551	16	15.86	201	198	109.80	133.20	546	556	662	675	30.0	200	15.0	B-3143

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of Wall Putty Plant Project)

Client Reference: MLCFL/Line-IV/CIVIL/2021/03

Dated: 09-08-2021

SOM Lab Ref: CED/SOM/4803(Page-5/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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	3.885	25	25.11	491	495	273.00	345.70	556	552	704	699	25.0	200	12.5	
2	3.877	25	25.08	491	494	275.00	348.70	560	557	710	707	27.5	200	13.8	
3	3.884	25	25.10	491	495	286.00	354.70	583	579	723	717	37.5	200	18.8	
4	3.883	25	25.10	491	495	284.00	351.00	579	575	715	710	35.0	200	17.5	
5	3.944	25	25.29	491	502	270.00	347.00	550	538	707	691	27.5	200	13.8	
6	3.952	25	25.32	491	503	269.00	345.90	548	535	705	688	30.0	200	15.0	
7	3.898	25	25.15	491	497	268.00	343.70	546	540	700	693	32.5	200	16.3	
8	3.878	25	25.08	491	494	269.00	346.00	548	545	705	701	30.0	200	15.0	
9	3.880	25	25.09	491	494	278.00	350.00	566	563	713	709	35.0	200	17.5	
10	3.857	25	25.01	491	491	275.00	349.00	560	560	711	711	32.5	200	16.3	

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of 7000 TPD Line-IV, MLCFL)

Client Reference: MLCFL/Line-IV/CIVIL/2021/04

Dated: 28-07-2021

SOM Lab Ref: CED/SOM/4804(Page-25)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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	3.998	25	25.46	491	509	254.00	328.70	517	500	670	646	27.5	200	13.8	B-7897
2	3.952	25	25.32	491	503	269.00	346.00	548	535	705	688	25.0	200	12.5	B-7897
3	3.983	25	25.42	491	507	285.00	359.00	581	562	731	708	27.5	200	13.8	B-7924
4	3.978	25	25.40	491	507	256.00	329.20	522	506	671	650	27.5	200	13.8	B-7924
5	4.062	25	25.67	491	517	286.00	361.00	583	553	735	698	30.0	200	15.0	B-7900
6	3.970	25	25.38	491	506	269.20	346.50	548	533	706	686	27.5	200	13.8	B-7900
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of 7000 TPD Line-IV, MLCFL)

Client Reference: MLCFL/Line-IV/CIVIL/2021/04

Dated: 28-07-2021

SOM Lab Ref: CED/SOM/4804(Page-3/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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	3.877	25	25.08	491	494	288.50	355.50	588	585	724	720	27.5	200	13.8	B-7510
2	3.871	25	25.06	491	493	271.00	343.20	552	550	699	696	35.0	200	17.5	B-7510
3	3.934	25	25.26	491	501	268.00	344.20	546	535	701	687	30.0	200	15.0	B-7892
4	3.956	25	25.33	491	504	253.00	326.50	515	503	665	648	37.5	200	18.8	B-7892
5	3.961	25	25.35	491	505	258.00	332.20	526	512	677	659	30.0	200	15.0	B-7884
6	3.952	25	25.32	491	503	269.00	348.20	548	535	709	692	30.0	200	15.0	B-7884
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of 7000 TPD Line-IV, MLCFL)

Client Reference: 0

Dated: 28-07-2021

SOM Lab Ref: CED/SOM/4803Page-4/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal Iron)

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	1.548	16	15.84	201	197	107.20	136.00	533	545	676	691	30.0	200	15.0	B-3131
2	1.548	16	15.84	201	197	104.00	133.00	517	528	661	675	27.5	200	13.8	B-3131
3	1.555	16	15.88	201	198	107.50	135.50	535	543	674	684	30.0	200	15.0	C-089
4	1.549	16	15.85	201	197	111.50	140.70	555	566	700	714	30.0	200	15.0	C-089
5	1.548	16	15.84	201	197	110.20	140.70	548	559	700	714	25.0	200	12.5	C-1641
6	1.559	16	15.90	201	199	103.20	132.20	513	520	658	666	30.0	200	15.0	C-1641
7	1.554	16	15.88	201	198	112.00	139.20	557	566	692	704	30.0	200	15.0	D-3889
8	1.534	16	15.77	201	195	108.70	137.70	541	557	685	705	27.5	200	13.8	D-3889
9	1.560	16	15.91	201	199	112.50	141.70	560	567	705	714	30.0	200	15.0	D-3888
10	1.552	16	15.87	201	198	103.50	142.00	515	524	706	719	35.0	200	17.5	D-3888

BEND TEST:

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

DGM Civil (Line-IV)

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

MLCF Iskandarabad, Distt, Mianwali (Civil Works of 7000 TPD Line-IV, MLCFL)

Client Reference: MLCFL/Line-IV/CIVIL/2021/04

Dated: 28-07-2021

SOM Lab Ref: CED/SOM/4804(Page-5/5)

Dated: 13-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal Iron)

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	1.552	16	15.88	201	198	111.50	138.70	555	564	690	701	30.0	200	15.0	5590
2	1.556	16	15.89	201	198	109.70	138.70	546	554	690	700	30.0	200	15.0	5590
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BEND TEST:

16mm	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

Jafar Hussain Randhawa
Resident Engineer, (ECSP) Engineering Consultancy Services Punjab (Pvt) Ltd. Lahore

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

Client Reference: ECSP/MDA/MCF/013

Dated: 14-07-2021

SOM Lab Ref: CED/SOM/4806(Page-1/1)

Dated: 13-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Kamran 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	2.533	20	20.28	314	323	135.20	207.00	430	419	659	641	35.0	200	17.5	
2	2.533	20	20.27	314	323	140.20	210.00	446	435	668	651	35.0	200	17.5	
3	1.580	16	16.01	201	201	92.70	132.20	461	461	658	657	25.0	200	12.5	
4	1.596	16	16.09	201	203	92.50	131.70	460	455	655	648	27.5	200	13.8	
5	1.014	12	12.82	113	129	58.50	84.50	517	454	747	655	37.5	200	18.8	
6	1.014	12	12.82	113	129	59.50	85.50	526	461	756	663	35.0	200	17.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

Major® Yousaf Jamil Khan
Project Manager (LOT-02) CGICOP

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

Client Reference: EPCM-CGICOP-SA/Lot-02-198

SOM Lab Ref: 4799(Page-1/1)

Dated: 12-08-2021

Dated: 13-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	0.654	4	0.494	0.20	0.192	6.24	8.63	68800	71660	95210	99180	1.10	8.0	13.8	
2	0.656	4	0.496	0.20	0.193	6.24	8.51	68800	71290	93860	97270	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Noor Ul Amin

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Director NHS. Nipon Health Services (Pvt. Ltd. Hafizabad Road, Sheikhpura

Client Reference: NHS/NMC/03

SOM Lab Ref: 4800(Page-1/1)

Dated: 13-08-2021

Dated: 13-08-2021

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	2.620	8	0.990	0.79	0.770	26.63	35.58	74330	76260	99320	101900	1.00	8.0	12.5	
2	2.620	8	0.990	0.79	0.770	25.84	34.86	72140	74020	97330	99860	1.50	8.0	18.8	
3	1.562	6	0.764	0.44	0.459	14.19	18.55	71130	68180	92990	89140	1.50	8.0	18.8	
4	1.553	6	0.762	0.44	0.456	14.65	19.01	73430	70850	95290	91950	1.30	8.0	16.3	
5	1.073	5	0.633	0.31	0.315	11.08	14.02	78830	77580	99720	98140	1.20	8.0	15.0	
6	1.077	5	0.635	0.31	0.317	10.75	13.91	76510	74820	98990	96810	1.40	8.0	17.5	
7	0.726	4	0.521	0.20	0.213	7.24	9.25	79810	74940	101960	95730	1.20	8.0	15.0	
8	0.721	4	0.520	0.20	0.212	7.14	9.19	78690	74230	101390	95650	1.30	8.0	16.3	
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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	
# 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

Baig Construction Co.
Jinnah Square Mall, Lahore

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

Client Reference: 1382021 BCC

SOM Lab Ref: 4804(Page-1/1)

Dated: 13-08-2021

Dated: 13-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AF Steel)

ASTM-A-615

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	1.464	6	0.740	0.44	0.430	13.25	18.09	66430	67970	90690	92800	1.40	8.0	17.5	
2	1.459	6	0.739	0.44	0.429	14.53	19.08	72810	74680	95650	98100	1.00	8.0	12.5	
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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

Amtul Hayi Enterprises
Mall of Shahdra. Lahore

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

Client Reference: nil

SOM Lab Ref: 4805(Page-1/1)

Dated: 13-08-2021

Dated: 13-08-2021

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	1.544	6	0.760	0.44	0.454	15.70	22.38	78690	76260	112150	108700	1.30	8.0	16.3	
2	0.653	4	0.494	0.20	0.192	6.07	8.82	66890	69670	97230	101290	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Mudessar Iqbal
 Manager QC, Country Developers (Pvt) Ltd. Lahore

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

Client Reference: CD-210-Testing/ST/46G-002

SOM Lab Ref: 4807(Page-1/1)

Dated: 12-08-2021

Dated: 13-08-2021

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	2.630	8	0.992	0.79	0.773	29.00	36.75	80960	82750	102590	104850	1.30	8.0	16.3	
2	1.472	6	0.743	0.44	0.433	18.30	21.56	91720	93200	108070	109810	1.10	8.0	13.8	
3	0.665	4	0.498	0.20	0.195	7.00	8.63	77230	79210	95210	97650	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Sub Divisional Officer
Building Sub Division Nankana Sahib

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

Client Reference: 47/SDO/BSD/NNS

SOM Lab Ref: 4711(Page-1/1)

Dated: 12-07-2021

Dated: 16-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	2.654	8	0.997	0.79	0.780	23.36	32.26	65230	66060	90070	91230	1.10	8.0	13.8	
2	2.656	8	0.997	0.79	0.781	23.72	32.36	66220	66990	90360	91400	1.20	8.0	15.0	
3	1.499	6	0.749	0.44	0.441	13.12	18.71	65760	65610	93760	93550	1.30	8.0	16.3	
4	1.497	6	0.748	0.44	0.440	12.51	18.17	62700	62700	91050	91050	1.30	8.0	16.3	
5	0.666	4	0.500	0.20	0.196	5.93	8.36	65420	66760	92180	94060	1.20	8.0	15.0	
6	0.664	4	0.498	0.20	0.195	6.01	8.46	66320	68020	93300	95690	1.00	8.0	12.5	
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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 Nankana Sahib

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

Client Reference: 70/SDO/BSD/NNS

SOM Lab Ref: 4808(Page-1/1)

Dated: 19-07-2021

Dated: 13-08-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	2.627	8	0.991	0.79	0.772	23.62	32.28	65940	67480	90130	92230	1.40	8.0	17.5	
2	1.531	6	0.757	0.44	0.450	13.63	18.76	68320	66800	94020	91930	1.30	8.0	16.3	
3	0.649	4	0.493	0.20	0.191	5.98	8.12	65990	69100	89590	93810	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Umair Maqsood

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Sub Divisional Officer, Building Sub Division, Assembly, Lahore

Client Reference: 579-

SOM Lab Ref: 4809(Page-1/1)

Dated: 03-08-2021

Dated: 13-08-2021

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	2.589	8	0.984	0.79	0.761	24.26	33.23	67730	70310	92770	96310	1.20	8.0	15.0	
2	2.577	8	0.982	0.79	0.757	24.46	33.70	68300	71280	94080	98180	1.30	8.0	16.3	
3	1.537	6	0.759	0.44	0.452	13.61	18.81	68210	66400	94270	91770	1.00	8.0	12.5	
4	1.527	6	0.756	0.44	0.449	13.46	18.86	67450	66100	94530	92630	1.10	8.0	13.8	
5	0.654	4	0.494	0.20	0.192	6.07	8.23	66890	69670	90720	94500	1.10	8.0	13.8	
6	0.653	4	0.494	0.20	0.192	5.93	8.02	65420	68150	88470	92150	1.20	8.0	15.0	
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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

Asif Pervaiz Butt
Project Manager, AYQ Developers Pvt. Ltd. Lahore

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

Client Reference: Nil

SOM Lab Ref: 4810(Page-1/1)

Dated: 13-08-2021

Dated: 13-08-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	0.665	4	0.498	0.20	0.195	5.91	9.09	65200	66870	100270	102840	1.00	8.0	12.5	
2	0.667	4	0.500	0.20	0.196	5.98	9.14	65990	67330	100830	102890	1.10	8.0	13.8	
3	0.665	4	0.498	0.20	0.195	5.96	9.28	65760	67450	102290	104920	1.10	8.0	13.8	
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BEND TEST:

# 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

Tahir Mehmood
Builders & Co. DHA Ph-8, Lahore

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

Client Reference: Nil

SOM Lab Ref: 4811(Page-1/2)

Dated: 13-08-2021

Dated: 13-08-2021

Test: Tension Test

Test Specification:

ASTM-A-615

Guage 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	2.538	8	0.975	0.79	0.746	23.19	30.30	64740	68560	84580	89570	1.10	8.0	13.8	
2	1.447	6	0.736	0.44	0.425	12.81	16.56	64230	66500	83030	85960	1.30	8.0	16.3	
3	0.639	4	0.489	0.20	0.188	5.56	7.10	61270	65180	78350	83350	1.20	8.0	15.0	
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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

Tahir Mehmood
Builders & Co. DHA Ph-8, Lahore

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

Client Reference: Nil

SOM Lab Ref: 4811(Page-1/2)

Dated: 13-08-2021

Dated: 13-08-2021

Test: Tension Test

Test Specification:

ASTM-A-615

Guage 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	2.604	8	0.987	0.79	0.765	26.50	35.47	73990	76410	99030	102270	1.00	8.0	12.5	
2	1.447	6	0.736	0.44	0.425	13.93	19.16	69850	72310	96060	99450	1.10	8.0	13.8	
3	0.649	4	0.493	0.20	0.191	6.01	8.12	66320	69450	89590	93810	1.00	8.0	12.5	
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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