

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/2021/05

Dated: 12-08-2021

SOM Lab Ref: CED/SOM/4840(Page-1/1)

Dated: 23-08-2021

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	0.880	12	11.94	113	112	49.00	74.70	433	438	660	667	32.5	200	16.3	349
2	0.882	12	11.96	113	112	48.70	75.50	431	434	668	672	35.0	200	17.5	349
3	0.879	12	11.94	113	112	49.20	75.00	435	440	663	671	32.5	200	16.3	3391
4	0.887	12	11.99	113	113	49.50	74.20	438	439	656	657	32.5	200	16.3	3391
5	0.893	12	12.03	113	114	52.20	80.50	462	460	712	708	32.5	200	16.3	3401
6	0.100	12	4.03	113	13	52.20	82.00	462	4098	725	6437	30.0	200	15.0	3401
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BEND TEST:

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

Muhammad Yawer Farooq
 las HondaSheikhupura

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

Client Reference: nil

Dated: 20-08-2021

SOM Lab Ref: CED/SOM/4846(Page-1/1)

Dated: 23-08-2021

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed 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	2.272	20	19.18	314	289	193.00	219.70	614	668	699	761	25.0	200	12.5	
2	2.251	20	19.11	314	287	196.00	213.70	624	684	680	746	25.0	200	12.5	
3	1.569	16	15.95	201	200	98.20	129.00	488	492	642	646	35.0	200	17.5	
4	1.572	16	15.97	201	200	98.00	130.70	487	490	650	653	40.0	200	20.0	
5	0.969	12	12.54	113	123	62.20	85.70	550	504	758	694	27.5	200	13.8	
6	0.972	12	12.55	113	124	63.00	84.20	557	510	744	681	27.5	200	13.8	
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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

Khurram Shahzad
Jr Engineer (Civil), WASO (SWP) PAEC, D. G. Khan

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

Client Reference: SWP/W(2414)/2020

SOM Lab Ref: 4838(Page-1/1)

Dated: 16-08-2021

Dated: 23-08-2021

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	1.516	6	0.754	0.44	0.446	18.25	22.19	91460	90230	111230	109740	1.00	8.0	12.5	
2	1.516	6	0.754	0.44	0.446	17.53	22.02	87880	86700	110370	108880	1.00	8.0	12.5	
3	0.679	4	0.505	0.20	0.200	6.12	8.07	67450	67450	89030	89030	1.50	8.0	18.8	
4	0.674	4	0.502	0.20	0.198	5.78	7.61	63740	64380	83970	84820	1.00	8.0	12.5	
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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 Danish Khurshid
 Manager Construction, Orient Electronics (Pvt) Ltd, Lahore

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

Client Reference: OSH-SO/UET/Agha Steel Test/230821-36 **SOM Lab Ref:** 4841(Page-1/1)

Dated: 23-08-2021

Dated: 23-08-2021

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	2.675	8	1.000	0.79	0.786	24.46	34.25	68300	68650	95620	96110	1.20	8.0	15.0	
2	2.663	8	0.998	0.79	0.783	24.26	34.05	67730	68340	95050	95900	1.30	8.0	16.3	
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BEND TEST:

# 8	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

Resident Engineer
NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 3772/GD/103/RE/05/44

SOM Lab Ref: 4842(Page-1/1)

Dated: 16-08-2021

Dated: 23-08-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala 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	2.665	8	0.998	0.79	0.783	24.26	35.42	67730	68340	98890	99780	1.00	8.0	12.5	Batala
2	2.667	8	0.999	0.79	0.784	24.26	35.75	67730	68250	99800	100570	1.20	8.0	15.0	Batala
3	2.671	8	1.000	0.79	0.785	22.40	32.31	62520	62920	90210	90790	1.60	8.0	20.0	Kamran
4	2.676	8	1.000	0.79	0.786	25.59	35.04	71430	71800	97810	98310	1.30	8.0	16.3	Kamran
5	1.526	6	0.755	0.44	0.448	12.71	18.93	63720	62580	94880	93190	1.30	8.0	16.3	Kamran
6	1.528	6	0.756	0.44	0.449	14.42	19.93	72300	70850	99890	97890	1.00	8.0	12.5	Kamran
7	1.035	5	0.622	0.31	0.304	8.77	12.69	62370	63600	90290	92070	1.40	8.0	17.5	Kamran
8	1.037	5	0.623	0.31	0.305	8.77	12.90	62370	63390	91740	93250	1.30	8.0	16.3	Kamran
9	0.677	4	0.503	0.20	0.199	6.52	8.77	71940	72310	96670	97160	1.30	8.0	16.3	Kamran
10	0.668	4	0.500	0.20	0.196	6.42	8.69	70820	72270	95770	97730	1.00	8.0	12.5	kamran

BEND TEST:

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

Munsaf Ali

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Manger Construction Civil, Sitara Chemical Industries Ltd. Faisalabad

Client Reference: nil

SOM Lab Ref: 4843(Page-1/1)

Dated: 21-08-2021

Dated: 23-08-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	0.607	4	0.476	0.20	0.178	5.37	7.56	59240	66560	83410	93720	1.30	8.0	16.3	
2	0.616	4	0.480	0.20	0.181	5.45	7.67	60140	66450	84530	93410	1.30	8.0	16.3	
3	2.666	8	0.998	0.79	0.783	22.94	33.40	64030	64610	93260	94090	1.60	8.0	20.0	
4	2.694	8	1.004	0.79	0.792	23.04	33.54	64320	64160	93630	93390	1.50	8.0	18.8	
5	0.678	4	0.503	0.20	0.199	7.00	9.43	77230	77610	103980	104500	1.10	8.0	13.8	
6	0.676	4	0.503	0.20	0.199	7.00	9.50	77230	77610	104770	105290	1.00	8.0	12.5	
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BEND TEST:

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

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/0114

SOM Lab Ref: 4844(Page-1/2)

Dated: 23-08-2021

Dated: 23-08-2021

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	1.479	6	0.744	0.44	0.435	13.66	19.39	68470	69260	97180	98300	1.00	8.0	12.5	
2	1.476	6	0.743	0.44	0.434	13.81	19.47	69240	70190	97590	98940	1.20	8.0	15.0	
3	1.481	6	0.744	0.44	0.435	13.81	19.42	69240	70030	97340	98460	1.50	8.0	18.8	
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Witnessed By: Rafi Ullah(IHPL) & Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five Samples Received and Tested
# 6	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 Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/0115

SOM Lab Ref: 4844(Page-2/2)

Dated: 23-08-2021

Dated: 23-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	0.677	4	0.503	0.20	0.199	7.14	9.28	78690	79080	102290	102810	1.00	8.0	12.5	
2	0.673	4	0.502	0.20	0.198	6.80	9.04	74980	75740	99710	100710	1.10	8.0	13.8	
3	0.675	4	0.502	0.20	0.198	6.70	8.97	73850	74600	98920	99920	1.00	8.0	12.5	
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Witnessed By: Rafi Ullah(IHPL) & Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Engr. M. Kashif Rehman
COO/Director, Excel Services & Engineering (Pvt) Ltd. Lahore

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

Client Reference: ESE-251-04

SOM Lab Ref: 4845(Page-1/1)

Dated: 23-08-2021

Dated: 23-08-2021

Test: Tension Test

Test Specification: BS-4449

Gauge Length: 8 inch

Sample Type: Tor 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	1.421	6	0.730	0.44	0.418	12.26	16.36	61470	64700	82010	86330	0.80	4.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Project Manager
 IZHAR Construction (Pvt) Ltd. Lahore

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

Client Reference: nil

SOM Lab Ref: 4847(Page-1/1)

Dated: 23-08-2021

Dated: 23-08-2021

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	1.699	6	0.797	0.44	0.499	18.37	23.29	92070	81190	116750	102950	1.10	8.0	13.8	
2	1.697	6	0.797	0.44	0.499	18.71	23.47	93760	82680	117620	103710	1.30	8.0	16.3	
3	0.676	4	0.503	0.20	0.199	6.24	8.07	68800	69140	89030	89480	1.30	8.0	16.3	
4	0.675	4	0.502	0.20	0.198	6.24	8.10	68800	69490	89370	90270	1.40	8.0	17.5	
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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

Zou Jiawei

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Project Manager, China Energy Engineering Group Northeast No. 2, Electric Power Construction Co.

Client Reference: DD-401 A-FA-509

SOM Lab Ref: 4848(Page-1/1)

Dated: 23-08-2021

Dated: 23-08-2021

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	2.709	8	1.007	0.79	0.796	27.37	35.83	76410	75840	100030	99280	1.70	8.0	21.3	
2	2.655	8	0.997	0.79	0.780	26.42	34.98	73770	74710	97670	98920	1.60	8.0	20.0	
3	2.661	8	0.998	0.79	0.782	26.50	35.22	73990	74750	98320	99330	1.40	8.0	17.5	
4	2.672	8	1.000	0.79	0.785	25.96	34.71	72480	72950	96900	97520	1.20	8.0	15.0	
5	1.526	6	0.755	0.44	0.448	14.55	19.59	72910	71610	98210	96450	1.50	8.0	18.8	
6	1.505	6	0.750	0.44	0.442	15.14	19.67	75880	75530	98610	98170	1.40	8.0	17.5	
7	1.504	6	0.750	0.44	0.442	14.93	19.44	74860	74520	97440	97000	1.40	8.0	17.5	
8	1.502	6	0.749	0.44	0.441	14.85	19.24	74450	74280	96420	96200	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Wasif Ali Sr. Engineer (NESPAK)

BEND TEST:

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