

Mustafa Ali

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Client Reference: ICPL/CONST- HNMPL/19/28

Dated: 11-04-2019

SOM Lab Ref: CED/SOM/634(Page-1/1)

Dated: 11-04-2019

Test: Tension Test & 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	0.898	12	12.05	113	114	60.50	76.50	535	531	676	672	27.5	200	13.8	
2	0.898	12	12.07	113	114	59.50	76.70	526	521	678	671	25.0	200	12.5	
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BEND TEST:

12mm	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

Muhammad Ishaq

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Junior Research Officer-I, Building Research Station, Lahore

Client Reference: 154-R/865

Dated: 10-04-2019

SOM Lab Ref: CED/SOM/635(Page-2/2)

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Sample Type: Deformed Bar(Pakistan 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	0.909	12	12.15	113	116	56.20	81.50	497	485	721	703	30.0	200	15.0	
2	0.911	12	12.16	113	116	57.00	81.20	504	491	718	700	32.5	200	16.3	
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BEND TEST:

12mm	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

Engr. Tajammal Farooq
Resident Engineer (AZEA), Sialkot (S F S)

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

Client Reference: RE/SKT -45

SOM Lab

Ref: 633(Page-1/1)

Dated: 05-03-2019

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(Kamran Steel)

Gauge Length: 8 inch

Sample Type:

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	3.263	9	1.105	1.00	0.959	30.24	43.75	66710	69560	96490	100620	1.50	8.0	18.8	
2	3.276	9	1.107	1.00	0.963	30.55	44.11	67380	69970	97280	101020	1.20	8.0	15.0	
3	1.481	6	0.744	0.44	0.435	13.53	18.78	67810	68580	94120	95200	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	13.63	19.01	68320	68470	95290	95510	1.30	8.0	16.3	
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BEND TEST:

# 9	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	

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

Muhammad Ishaq
Junior Research Officer-I, Building Research Station, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 154-R/865

Dated: 10-04-2019

SOM Lab

Ref: 635(Page-1/2)

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pakistan 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	2.720	8	1.009	0.79	0.799	23.16	36.77	64660	63930	102650	101490	1.40	8.0	17.5	
2	2.686	8	1.002	0.79	0.789	23.14	36.85	64600	64680	102880	103010	1.50	8.0	18.8	
3	1.494	6	0.748	0.44	0.439	12.30	19.26	61670	61810	96520	96740	1.50	8.0	18.8	
4	1.440	6	0.734	0.44	0.423	11.79	18.27	59120	61500	91560	95240	1.40	8.0	17.5	
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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	

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

Muhammad Ishaq
Junior Research Officer-I, Building Research Station, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 154-R/865

Dated: 10-04-2019

SOM Lab

Ref: 635(Page-1/2)

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pakistan 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	2.720	8	1.009	0.79	0.799	23.16	36.77	64660	63930	102650	101490	1.40	8.0	17.5	
2	2.686	8	1.002	0.79	0.789	23.14	36.85	64600	64680	102880	103010	1.50	8.0	18.8	
3	1.494	6	0.748	0.44	0.439	12.30	19.26	61670	61810	96520	96740	1.50	8.0	18.8	
4	1.440	6	0.734	0.44	0.423	11.79	18.27	59120	61500	91560	95240	1.40	8.0	17.5	
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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	

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

Shahbaz Khan
House No -154, Block - Z, Ph. 7, DHA, Lahore

Test Performed By: Dr. /Engr.

Riaz Ahmad
Goraya

Client Reference: nil

Dated: 11-04-2019

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 637 (Page-1/1)

Dated: 11-04-2019

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	0.637	4	0.488	0.20	0.187	5.85	8.43	64530	69010	92960	99430	1.00	8.0	12.5	
2	0.631	4	0.485	0.20	0.185	5.78	8.41	63740	68910	92740	100260	1.10	8.0	13.8	
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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

Awais Latif

Site Engineer, PEPAC, W. W. C. Adjacent to Sundar Ind. Estate, Kasur (Package-R)

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: RE/PEPAC/WWC/55-56

Dated: 09-04-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 638(Page-1/1)

Dated: 11-04-2019

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	1.467	6	0.741	0.44	0.431	14.93	19.37	74860	76420	97080	99110	1.20	8.0	15.0	
2	1.455	6	0.738	0.44	0.428	14.39	19.72	72150	74170	98870	101640	1.10	8.0	13.8	
3	0.657	4	0.496	0.20	0.193	5.93	8.51	65420	67800	93860	97270	1.00	8.0	12.5	
4	0.659	4	0.497	0.20	0.194	6.01	8.31	66320	68370	91610	94450	1.10	8.0	13.8	
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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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: CONC - 20190411

SOM Lab

Ref: 639(Page-1/1)

Dated: 11-04-2019

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(AF, Steel)

Gauge Length: 8 inch

Sample Type:

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	2.606	8	0.988	0.79	0.766	21.66	31.50	60480	62370	87940	90690	1.30	8.0	16.3	
2	2.601	8	0.986	0.79	0.764	21.83	30.65	60960	63030	85570	88490	1.40	8.0	17.5	
3	1.653	6	0.787	0.44	0.486	15.44	21.87	77410	70080	109600	99230	1.20	8.0	15.0	
4	1.653	6	0.787	0.44	0.486	15.70	22.40	78690	71240	112260	101630	1.20	8.0	15.0	
5	0.625	4	0.484	0.20	0.184	6.75	8.21	74420	80890	90490	98360	0.90	8.0	11.3	
6	0.633	4	0.487	0.20	0.186	6.14	7.80	67670	72770	85990	92470	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

Engr. Muhammad Nayab Khalil

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Planning and Monitoring Engineer, Matrex Management (Pvt) Ltd. Lahore

Client Reference: MW/MMPL-2/2019/01

SOM Lab

Ref: 640(Page-1/1)

Dated: 11-04-2019

Dated: 11-04-2019

Test: Tension 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	1.466	6	0.741	0.44	0.431	14.95	18.88	74960	76520	94630	96610	1.20	8.0	15.0	
2	0.660	4	0.497	0.20	0.194	7.51	9.25	82850	85410	101960	105110	1.00	8.0	12.5	
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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

Muhammad Waqas Anwar
Resident Engineer-I, NESPAK, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 3772/AMP/103/MWA/04/08

SOM Lab Ref: 641-642(Page-1/1)

Dated: 11-04-2019

Dated: 11-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Mughal Supreme 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	2.741	8	1.013	0.79	0.806	25.56	35.47	71350	69930	99030	97070	1.20	8.0	15.0	
2	2.714	8	1.008	0.79	0.798	25.50	35.44	71200	70490	98950	97960	1.10	8.0	13.8	
3	1.451	6	0.736	0.44	0.426	15.01	19.49	75210	77690	97690	100910	1.30	8.0	16.3	
4	1.460	6	0.739	0.44	0.429	12.69	16.69	63620	65250	83640	85790	1.30	8.0	16.3	
5	1.018	5	0.617	0.31	0.299	9.94	12.92	70710	73310	91890	95270	1.60	8.0	20.0	
6	1.021	5	0.618	0.31	0.300	9.94	12.86	70710	73070	91520	94570	1.50	8.0	18.8	
7	0.645	4	0.492	0.20	0.190	6.46	8.28	71270	75020	91280	96080	1.00	8.0	12.5	
8	0.647	4	0.492	0.20	0.190	6.54	8.53	72170	75970	94090	99040	1.00	8.0	12.5	
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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

Sub Divisional Officer
Public Health Engg: Sub Division Choa Saiden Shah

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: 13/CSS

SOM Lab

Ref: 643(Page-1/2)

Dated: 16-03-2019

Dated: 11-04-2019

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	1.486	6	0.746	0.44	0.437	12.25	20.66	61420	61840	103570	104280	1.10	8.0	13.8	
2	0.648	4	0.492	0.20	0.190	6.60	7.82	72730	76560	86220	90760	1.10	8.0	13.8	
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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

Sub Divisional Officer
Public Health Engg: Sub Divn Gojra

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

Client Reference: 13/CSS

SOM Lab

Ref: 643(Page-1/2)

Dated: 16-03-2019

Dated: 11-04-2019

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	1.535	6	0.758	0.44	0.451	11.72	19.13	58760	57330	95910	93570	1.20	8.0	15.0	
2	0.682	4	0.505	0.20	0.200	4.98	7.61	54970	54970	83970	83970	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

--	No Bend test performed	Note:- Only Four Samples Received and Tested

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

Sub Divisional Officer
Public Health Engg: Sub Division , Choa Saiden Shah

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: 12/CSS

SOM Lab

Ref: 643(Page-2/2)

Dated: 16-03-2019

Dated: 11-04-2019

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	1.538	6	0.759	0.44	0.452	11.72	19.13	58760	57200	95910	93360	1.20	8.0	15.0	
2	0.682	4	0.505	0.20	0.200	4.98	7.61	54970	54970	83970	83970	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Muhammad Sarfaraz
CFO, INDIGO DEVELOPERS, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

SOM Lab

Ref: 644(Page-1/1)

Dated: 11-4-2019

Dated: 11-04-2019

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	2.659	8	0.997	0.79	0.781	22.22	34.25	62040	62760	95620	96720	1.30	8.0	16.3	
2	2.664	8	0.998	0.79	0.783	22.38	35.93	62470	63030	100320	101210	1.50	8.0	18.8	
3	1.504	6	0.750	0.44	0.442	14.34	20.64	71890	71570	103470	103000	1.00	8.0	12.5	
4	1.498	6	0.748	0.44	0.440	14.32	20.87	71790	71790	104590	104590	1.10	8.0	13.8	
5	0.663	4	0.498	0.20	0.195	5.63	8.74	62050	63640	96340	98810	1.20	8.0	15.0	
6	0.668	4	0.500	0.20	0.196	5.71	8.84	62950	64240	97460	99450	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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