

Admin Incharge
 TS-4, Machike, Engineering Kinetics (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Bilal A Khokhar

Client Reference: nil
 SOM Lab Ref: CED/SOM/177(Page-1/1)
 Test: Tension Test & Bend Test
 Sample Type: Deformed Bar(Amreli Steel)

Dated: nil
 Dated: 22-01-2019
 Test Specification: ASTM-A 615
 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	1.594	16	16.08	201	203	109.70	139.70	546	541	695	689	30.0	200	15.0	
2	1.590	16	16.06	201	203	110.20	140.50	548	545	699	694	32.5	200	16.3	
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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

ssst. Director (P & E)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: AD P&E/2142

SOM Lab

Ref: 171 (Page-1/1)

Dated: 16-01-2019

Dated: 22-01-2019

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	0.650	4	0.493	0.20	0.191	7.31	9.38	80600	84400	103420	108290	1.10	8.0	13.8	
2	0.645	4	0.492	0.20	0.190	7.34	9.38	80940	85200	103420	108860	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

sstt. Director (P & E)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: AD P&E/2142

SOM Lab

Ref: 171 (Page-1/1)

Dated: 16-01-2019

Dated: 22-01-2019

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	0.650	4	0.493	0.20	0.191	7.31	9.38	80600	84400	103420	108290	1.10	8.0	13.8	
2	0.645	4	0.492	0.20	0.190	7.34	9.38	80940	85200	103420	108860	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

Dy Dir MTL, Const. of Infra Dev Works of IVY Green Sector - Z, Ph-VIII, (M/S MCC Ruba)

Client Reference: 408/241/E/Lab/266/419

SOM Lab Ref: 172(Page-1/1)

Dated: 22-01-2019

Dated: 22-01-2019

Test: Tension Test & Bend Test Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (City 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	0.664	4	0.498	0.20	0.195	6.17	9.38	68010	69750	103420	106070	1.20	8.0	15.0	
2	0.666	4	0.500	0.20	0.196	6.07	9.40	66890	68250	103640	105760	1.30	8.0	16.3	
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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

Kamran Ahmad Khan
 Dy. General Manager, IZHAR Concrete (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

Bilal Ahmrd
Khokhar

Client Reference: Nil

SOM Lab

Ref: 173(Page-1/1)

Dated: 22-01-2019

Dated: 22-01-2019

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	1.039	5	0.623	0.31	0.305	13.00	15.39	92470	93980	109510	111300	1.00	8.0	12.5	
2	1.020	5	0.618	0.31	0.300	10.48	13.07	74550	77040	92970	96070	1.30	8.0	16.3	
3	1.010	5	0.615	0.31	0.297	10.86	13.30	77240	80620	94640	98780	1.10	8.0	13.8	
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BEND TEST:

# 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

Rajan Singh
Resident Engineer, Typsa - Asian JV., Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: AsCE TYPsa-DHQ-CHNT-P3a-DCT-14

SOM Lab

Ref: 174(page-1/1)

Dated: 21-01-2019

Dated: 22-01-2019

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	1.492	6	0.747	0.44	0.438	14.09	20.46	70620	70940	102550	103020	2.00	8.0	25.0	
2	1.534	6	0.758	0.44	0.451	13.66	20.82	68470	66800	104340	101790	1.60	8.0	20.0	
3	0.654	4	0.494	0.20	0.192	7.08	12.25	78130	81380	135120	140740	0.90	8.0	11.3	
4	0.649	4	0.493	0.20	0.191	7.44	12.69	82060	85930	139950	146540	0.90	8.0	11.3	
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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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

M Rizwan Riaz

Dy Dir MTL, Infra Dev Works of Prism-9, Pkg-06, & 07 - (M/S FWO)

Client Reference: 408/241/E/Lab/249/249

SOM Lab

Ref:

175(Page-1/1)

Dated: 22-01-2019

Dated:

22-01-2019

Test: Tension 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	2.641	8	0.994	0.79	0.776	23.57	34.91	65800	66980	97470	99230	1.50	8.0	18.8	
2	2.651	8	0.996	0.79	0.779	23.65	34.88	66020	66960	97380	98760	1.30	8.0	16.3	
3	2.675	8	1.000	0.79	0.786	23.55	34.71	65740	66070	96900	97390	1.60	8.0	20.0	
4	2.663	8	0.998	0.79	0.783	23.62	34.93	65940	66530	97530	98400	1.30	8.0	16.3	
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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

Abdullah Khadim
Resident Engineer, DAR Engineering

Test Performed By: Dr. /Engr. Bilal A Khadim

Client Reference: DB-78/DAR/RE/ME/2019/0175

SOM Lab

Ref: 176(Page-1/3)

Dated: 22-01-2019

Dated: 22-01-2019

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	0.629	4	0.485	0.20	0.185	6.39	9.02	70480	76200	99480	107550	1.30	8.0	16.3	P-107
2	0.642	4	0.491	0.20	0.189	6.29	8.99	69360	73400	99150	104920	1.30	8.0	16.3	P-107
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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

Abdullah Khadim
Resident Engineer, DAR Engineering

Test Performed By: Dr. /Engr. Bilal A Khadim

Client Reference: DB-78/DAR/RE/ME/2019/0172

SOM Lab

Ref: 176(Page-2/3)

Dated: 22-01-2019

Dated: 22-01-2019

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	0.645	4	0.492	0.20	0.190	5.98	8.51	65990	69460	93860	98800	1.20	8.0	15.0	P-32
2	0.684	4	0.506	0.20	0.201	5.81	8.31	64080	63760	91610	91160	1.50	8.0	18.8	P-32
3	0.705	4	0.513	0.20	0.207	6.39	9.09	70480	68100	100270	96880	1.50	8.0	18.8	P-33
4	0.757	4	0.532	0.20	0.222	5.78	8.38	63740	57420	92400	83250	1.20	8.0	15.0	P-33
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BEND TEST:

# 4	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

Abdullah Khadim
Resident Engineer, DAR Engineering

Test Performed By: Dr. /Engr. Bilal A Khadim

Client Reference: DB-78/DAR/RE/ME/2019/0173

SOM Lab

Ref: 176(Page-3/3)

Dated: 18-01-2019

Dated: 22-01-2019

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	1.068	5	0.632	0.31	0.314	9.70	13.32	69040	68160	94790	93580	1.40	8.0	17.5	P-482
2	1.066	5	0.631	0.31	0.313	9.43	13.99	67090	66440	99500	98550	1.40	8.0	17.5	P-482
3	1.065	5	0.631	0.31	0.313	9.84	13.71	69990	69320	97540	96610	1.20	8.0	15.0	S-36
4	1.059	5	0.629	0.31	0.311	9.86	13.56	70130	69910	96460	96150	1.10	8.0	13.8	S-36
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	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

