

Hammad Saleem
 Manager SSE Consultants, Lahore

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

Client Reference: nil
SOM Lab Ref: CED/SOM/3327 (Page-1/1)
Test: Tension Test
Sample Type: Round Bar

Dated: 26-11-2020
Dated: 26-11-2020
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	2.287	19	19.25	284	291	96.50	140.70	340	332	496	484	52.5	200	26.3	
2	2.155	19	18.70	284	275	99.50	158.70	351	363	560	579	50.0	200	25.0	
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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

M. Shahbaz Iqbal
 BPS (Pvt) Ltd. Alpha Homes Apartments Project

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
Dated: 26-11-2020
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 3325(Page-1/4)
Dated: 26-11-2020
Test Specification: ASTM-A-615
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	1.539	6	0.759	0.44	0.452	14.53	23.45	72810	70880	117520	114400	1.10	8.0	13.8	
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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

M. Shahbaz Iqbal
BPS (Pvt) Ltd. Alpha Homes Apartments Project

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
Dated: 26-11-2020
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 3325(Page-1/4)
Dated: 26-11-2020
Test Specification: ASTM-A-615
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	1.530	6	0.757	0.44	0.450	14.44	23.21	72400	70790	116340	113760	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

M. Shahbaz Iqbal
 BPS (Pvt) Ltd. Alpha Homes Apartments Project

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
Dated: 26-11-2020
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 3325(Page-1/4)
Dated: 26-11-2020
Test Specification: ASTM-A-615
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	1.529	6	0.756	0.44	0.449	14.32	22.94	71790	70350	114960	112660	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

M. Shahbaz Iqbal
 BPS (Pvt) Ltd. Alpha Homes Apartments Project

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
 Dated: 26-11-2020
 Test: Tension Test
 Gauge Length: 8 inch

SOM Lab
 Ref: 3325(Page-4/4)
 Dated: 26-11-2020
 Test Specification: ASTM-A-615
 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	1.502	6	0.749	0.44	0.441	14.83	23.45	74350	74180	117520	117250	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Muhammad Mushtaq
Bahria Town, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 26-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3326(Page-1/1)

Dated: 26-11-2020

ASTM-A-615

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	2.676	8	1.000	0.79	0.786	28.21	36.34	78750	79150	101450	101970	1.40	8.0	17.5	
2	2.626	8	0.991	0.79	0.772	25.35	35.80	70780	72430	99950	102280	1.20	8.0	15.0	
3	1.497	6	0.748	0.44	0.440	14.27	18.60	71540	71540	93250	93250	1.30	8.0	16.3	
4	1.483	6	0.745	0.44	0.436	14.17	18.22	71020	71680	91310	92150	1.20	8.0	15.0	
5	0.701	4	0.512	0.20	0.206	8.12	9.55	89590	86980	105330	102260	0.90	8.0	11.3	
6	0.684	4	0.506	0.20	0.201	8.46	10.35	93300	92840	114100	113530	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

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

Nauman Khurram

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Client Reference: MIG/2020/1306

SOM Lab

Ref:

3328(Page-1/1)

Dated: 26-11-2020

Dated:

26-11-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(AI-Moiz 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	2.718	8	1.009	0.79	0.799	26.91	37.18	75130	74280	103790	102620	1.30	8.0	16.3	
2	2.617	8	0.990	0.79	0.769	23.72	35.22	66220	68030	98320	101010	1.20	8.0	15.0	
3	1.487	6	0.746	0.44	0.437	13.73	19.72	68830	69300	98870	99550	1.50	8.0	18.8	
4	1.479	6	0.744	0.44	0.435	13.73	19.75	68830	69620	98970	100110	1.50	8.0	18.8	
5	0.598	4	0.473	0.20	0.176	5.61	8.61	61830	70260	94990	107940	1.10	8.0	13.8	
6	0.597	4	0.472	0.20	0.175	5.59	8.58	61600	70400	94650	108170	1.20	8.0	15.0	
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Witnessed By:

Zohaib Ali, Sub Engineer, NESPAK, M.Adil, M/s SA-RA Energy Assistant Manager

BEND TEST:

# 8(Sr1&2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6(Sr.3&4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(Sr.5&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