

Muhammad Shafiq
 Engineer's Representative, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 3957/13/MS/10/168

Dated: 11-03-2019

SOM Lab Ref: CED/SOM/447 (Page-1/1)

Dated: 12-03-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J- Bolt

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	3.889	25	25.11	491	495	298.00	379.00	607	603	772	766	22.5	200	11.3	
2	4.002	25	25.48	491	510	319.00	444.00	650	626	905	871	22.5	200	11.3	
3	3.894	25	25.13	491	496	290.00	381.00	591	585	776	769	30.0	200	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

Resident Engineer,

Test Performed By:

Dr. /Engr.

M Rizwan Riaz

Zeeruk International Pvt Ltd. Lhr. Eastern Bypass Proj. Site Off 1.75 KM off Mehmood Booti Interchange L-20

Client Reference: ZI/LEBP/RE/2019/222

Dated: 07-03-2019

SOM Lab Ref: CED/SOM/448 (Page-1/1)

Dated: 12-03-2019

Test: Tension Test & 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	3.851	25	25.00	491	491	273.70	343.20	558	558	699	699	30.0	200	15.0	
2	3.857	25	25.01	491	491	279.70	347.50	570	570	708	708	30.0	200	15.0	
3	1.568	16	15.95	201	200	119.20	144.00	593	597	716	721	25.0	200	12.5	
4	1.562	16	15.92	201	199	118.70	144.70	590	597	720	728	25.0	200	12.5	
5	0.976	12	12.58	113	124	59.50	88.20	526	479	780	710	30.0	200	15.0	
6	0.976	12	12.58	113	124	59.00	87.70	522	475	775	706	27.5	200	13.8	
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BEND TEST:

25mm	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

Sub Divisional Officer
Buildings Sub Division, Bhalwal

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

Client Reference: 975-

SOM Lab

Ref: 445 (Page-1/1)

Dated: 06-01-2019

Dated: 12-03-2019

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	1.482	6	0.745	0.44	0.436	10.52	15.41	52730	53220	77260	77970	1.80	8.0	22.5	
2	1.475	6	0.743	0.44	0.433	10.62	15.46	53240	54100	77510	78770	1.70	8.0	21.3	
3	0.621	4	0.481	0.20	0.182	6.70	8.43	73850	81160	92960	102160	1.00	8.0	12.5	
4	0.656	4	0.496	0.20	0.193	5.91	8.66	65200	67560	95550	99010	0.80	8.0	10.0	
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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

Muhammad Saleem
 GM, Professional Construction Services (Pvt) Ltd. Lahore

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

Client Reference: PCS/19/Eng-18-B
 Dated: 11-03-2019
 Test: Tension Test
 Guage Length: 8 inch

Test Specification:
 Sample Type:

SOM Lab
 Ref: 446(Page-1/3)
 Dated: 12-03-2019
 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	0.667	4	0.500	0.20	0.196	7.31	9.07	80600	82240	100050	102090	1.00	8.0	12.5	
2	0.655	4	0.494	0.20	0.192	7.49	9.07	82620	86060	100050	104210	0.70	8.0	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Muhammad Saleem
 GM, Professional Construction Services (Pvt) Ltd. Lahore

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

Client Reference: PCS/19/Eng-18-C
 Dated: 11-03-2019
 Test: Tension Test
 Guage Length: 8 inch

Test Specification:
 Sample Type:

SOM Lab
 Ref: 446(Page-2/3)
 Dated: 12-03-2019
 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	1.459	6	0.739	0.44	0.429	14.55	19.16	72910	74780	96060	98520	0.90	8.0	11.3	
2	1.464	6	0.740	0.44	0.430	14.80	18.67	74190	75920	93610	95780	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

Muhammad Saleem
 GM, Professional Construction Services (Pvt) Ltd. Lahore

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

Client Reference: PCS/19/Eng-18-D
 Dated: 11-03-2019
 Test: Tension Test
 Guage Length: 8 inch

Test Specification:
 Sample Type:

SOM Lab
 Ref: 446(Page-3/3)
 Dated: 12-03-2019
 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	2.511	8	0.969	0.79	0.738	24.13	34.15	67360	72110	95340	102050	1.40	8.0	17.5	
2	2.530	8	0.973	0.79	0.744	24.21	34.71	67590	71770	96900	102890	1.40	8.0	17.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Ch Abdul Ghafoor

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

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

Client Reference: RE/PEPAC/WWC/36-38

SOM Lab

Ref: 449(Page-1/1)

Dated: 11-03-2019

Dated: 12-03-2019

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	1.474	6	0.743	0.44	0.433	17.64	21.15	88400	89820	106020	107740	1.20	8.0	15.0	
2	1.500	6	0.749	0.44	0.441	16.77	20.74	84050	83860	103980	103740	1.20	8.0	15.0	
3	0.677	4	0.503	0.20	0.199	6.03	9.02	66550	66880	99480	99980	1.30	8.0	16.3	
4	0.666	4	0.500	0.20	0.196	5.98	8.92	65990	67330	98360	100370	1.20	8.0	15.0	
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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

Sub Divisional Officer
Buildings Sub Division, Kamoke

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

Client Reference: 118/K

SOM Lab

Ref: 450 (Page-1/1)

Dated: 08-03-2019

Dated: 12-03-2019

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	1.403	6	0.724	0.44	0.412	10.67	16.84	53500	57130	84410	90150	1.10	8.0	13.8	
2	1.482	6	0.745	0.44	0.436	12.91	19.88	64690	65280	99640	100550	1.40	8.0	17.5	
3	0.656	4	0.496	0.20	0.193	6.57	8.53	72510	75140	94090	97500	1.00	8.0	12.5	
4	0.653	4	0.494	0.20	0.192	6.49	8.58	71610	74590	94650	98590	0.90	8.0	11.3	
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BEND TEST:

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

Agha Hassan Ali
 SQNLDR, GE (AIR) Rafiqui

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

Client Reference: 6193/21/E-6
 Dated: 07-03-2019
 Test: Tension Test
 Guage Length: 8 inch

Test Specification: ASTM-A-615
 Sample Type: Deformed Bar

SOM Lab 451 (Page-
 Ref: 2/2)
 Dated: 12-03-2019

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	0.667	4	0.500	0.20	0.196	6.44	8.63	71040	72490	95210	97150	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Agha Hassan Ali
SQNLDR, GE (AIR) Rafiqui

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

Client Reference: 6193/21/E-6

SOM Lab 451 (Page-

Ref: 1/2)

Dated: 07-03-2019

Dated: 12-03-2019

Test: Tension 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	1.513	6	0.753	0.44	0.445	15.72	21.05	78810	77920	105510	104330	1.20	8.0	15.0	
2	1.060	5	0.630	0.31	0.312	11.52	15.72	81950	81430	111830	111110	0.90	8.0	11.3	
3	0.656	4	0.496	0.20	0.193	5.05	7.31	55650	57660	80600	83520	1.30	8.0	16.3	
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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

M Bilal Ahmed
Project Manager, Tijaarat Developers, Lahore

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

Client Reference: nil

SOM Lab

Ref: 452 (Page-1/1)

Dated: 11-03-2019

Dated: 12-03-2019

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	2.588	8	0.984	0.79	0.761	23.39	32.13	65310	67800	89700	93120	1.60	8.0	20.0	
2	2.556	8	0.978	0.79	0.751	23.09	31.91	64460	67810	89070	93700	1.70	8.0	21.3	
3	0.642	4	0.491	0.20	0.189	6.57	8.41	72510	76730	92740	98140	1.20	8.0	15.0	
4	0.644	4	0.491	0.20	0.189	6.42	8.36	70820	74940	92180	97540	1.00	8.0	12.5	
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BEND TEST:

# 8	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 Irfan UI Hassan

Dy Dir MTL, Const of Kennel Hospital Sector -E, (Extn) DHA, Ph -VI - (M/S FAUZ Eng)

Client Reference: 408/241/E/Lab/Nil/476

SOM Lab

Ref: 453(Page-1/1)

Dated: 12-03-2019

Dated: 12-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AGS 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	2.646	8	0.995	0.79	0.778	27.44	37.13	76610	77790	103640	105240	1.10	8.0	13.8	
2	2.631	8	0.992	0.79	0.773	27.24	37.38	76040	77710	104360	106650	1.40	8.0	17.5	
3	1.459	6	0.739	0.44	0.429	14.70	19.06	73680	75570	95550	98000	1.40	8.0	17.5	
4	1.500	6	0.749	0.44	0.441	15.82	20.82	79300	79120	104340	104100	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	

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