

Engr. Asfand Ali

Aenzay Interiors and Architects, Lahore

Client Reference: Nil

SOM Lab Ref: CED/SOM/961(Page-1/1)

Test: Tension Test

Sample Type: J- Bolt

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Dated: nil

Dated: 14-06-2019

Test Specification: ASTM-F-1554

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	3.875	25	25.08	491	494	229.00	396.20	467	464	807	803	32.5	200	16.3	
2	3.970	25	25.38	491	506	219.20	375.00	447	434	764	742	35.0	200	17.5	
3	3.781	25	24.76	491	482	239.00	415.00	487	497	845	862	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

Farhan Ali
Executive Engineer, Central Civil Division-1, Pak PWD, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: EE / CCD-1 /LHR/2723

Dated: 23-05-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 957(Page-1/1)

Dated: 14-06-2018

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	2.596	8	0.986	0.79	0.763	28.24	37.41	78830	81620	104440	108140	1.10	8.0	13.8	
2	1.425	6	0.730	0.44	0.419	13.46	18.42	67450	70830	92330	96960	1.20	8.0	15.0	
3	1.029	5	0.620	0.31	0.302	10.52	13.37	74840	76830	95150	97670	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	6.65	8.66	73290	75170	95550	98000	1.10	8.0	13.8	
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BEND TEST:

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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: CONC - 20190614

SOM Lab

Ref: 958(Page-1/1)

Dated: 14-06-2019

Dated: 14-06-2019

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	1.503	6	0.750	0.44	0.442	13.15	18.60	65910	65620	93250	92830	1.30	8.0	16.3	
2	1.486	6	0.746	0.44	0.437	13.41	17.45	67240	67700	87480	88080	1.20	8.0	15.0	
3	1.487	6	0.746	0.44	0.437	13.24	16.59	66370	66830	83130	83700	1.40	8.0	17.5	
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BEND TEST:

# 6	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

Engr Muhammad Sohaib.

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Assistant Engineer (Civil), Al Hussain Traders Contractors, (Contract No. TLC- 03 -2017)

SOM Lab

Client Reference: AHT/TLC-03/2952-55

Ref:

959 (Page-1/1)

Dated: 14-06-2019

Dated:

14-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Fazal 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	3.484	9	1.142	1.00	1.024	30.89	42.05	68120	66530	92740	90570	1.50	8.0	18.8	
2	3.469	9	1.139	1.00	1.019	33.05	43.32	72890	71530	95550	93770	1.20	8.0	15.0	
3	3.487	9	1.142	1.00	1.025	38.23	48.13	84310	82250	106160	103570	1.40	8.0	17.5	
4	2.732	8	1.011	0.79	0.803	29.12	36.80	81310	79990	102730	101070	1.40	8.0	17.5	
5	2.721	8	1.009	0.79	0.800	27.37	35.42	76410	75460	98890	97660	1.40	8.0	17.5	
6	2.729	8	1.011	0.79	0.802	27.57	35.65	76980	75830	99520	98030	1.40	8.0	17.5	
7	1.493	6	0.748	0.44	0.439	16.99	21.38	85180	85370	107150	107390	1.10	8.0	13.8	
8	1.481	6	0.744	0.44	0.435	14.63	19.64	73320	74170	98460	99590	1.20	8.0	15.0	
9	1.526	6	0.755	0.44	0.448	14.58	19.67	73070	71760	98610	96850	1.20	8.0	15.0	
10	1.527	6	0.756	0.44	0.449	16.62	21.17	83290	81620	106130	104000	1.10	8.0	13.8	

Witnessed By:

Sohaib Ali, NESPAK, Sub - ENGINEER

BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fourteen 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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Project Manager, State Grid, China Electric Power Equipment and Technology Co. Ltd

Client Reference: CET/HVDC/SPO(04)I4/City Steel/UET-19-675

SOM Lab Ref: 960(Page-1/3)

Dated: 13-06-2019

Dated: 14-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Lot - 6)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation
		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	3.408	9	1.130	1.00	1.002	29.92	43.45	65990	65850	95820	95630	1.40	8.0	17.5
2	3.376	9	1.124	1.00	0.992	29.99	43.83	66140	66680	96670	97450	1.30	8.0	16.3
3	3.424	9	1.132	1.00	1.006	31.04	44.92	68460	68050	99080	98490	1.30	8.0	16.3
4	2.608	8	0.988	0.79	0.766	23.36	32.84	65230	67270	91690	94570	1.30	8.0	16.3
5	2.602	8	0.987	0.79	0.765	23.16	31.40	64660	66770	87650	90520	1.40	8.0	17.5
6	2.586	8	0.984	0.79	0.760	23.06	32.47	64370	66920	90640	94220	1.50	8.0	18.8
7	2.624	8	0.991	0.79	0.771	23.57	33.13	65800	67420	92490	94770	1.50	8.0	18.8
8	2.649	8	0.995	0.79	0.778	23.34	33.54	65170	66180	93630	95070	1.10	8.0	13.8
9	2.647	8	0.995	0.79	0.778	23.06	33.71	64370	65370	94110	95560	1.60	8.0	20.0
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BEND TEST:

# 9(S.1,2,3)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eighteen Samples Received and Tested
# 8(S.4,5,)	Sample bend through 180 degrees Satisfactorily without any crack	
# 8(S. 6,7,)	Sample bend through 180 degrees Satisfactorily without any crack	
# 8(S. 8,9,)	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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, State Grid, China Electric Power Equipment and Technology Co. Ltd

Client Reference: CET/HVDC/SPO(04)I4/City Steel/UET-19-675

SOM Lab

Ref: 960(Page-2/3)

Dated: 13-06-2019

Dated: 14-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Lot - 6)

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	1.065	5	0.631	0.31	0.313	12.13	14.60	86300	85480	103850	102860	0.80	8.0	10.0	
2	1.058	5	0.629	0.31	0.311	10.93	14.24	77750	77500	101310	100990	1.00	8.0	12.5	
3	1.022	5	0.618	0.31	0.300	11.23	13.88	79920	82580	98780	102070	0.90	8.0	11.3	
4	1.020	5	0.618	0.31	0.300	10.62	13.86	75570	78090	98630	101920	1.00	8.0	12.5	
5	1.059	5	0.629	0.31	0.311	10.70	14.07	76150	75910	100080	99760	0.90	8.0	11.3	
6	1.062	5	0.630	0.31	0.312	11.59	14.75	82460	81930	104940	104270	1.00	8.0	12.5	
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BEND TEST:

# 5(S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack
# 5(S.3,4)	Sample bend through 180 degrees Satisfactorily without any crack
# 5(S. 5,6)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Wang Bo

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, State Grid, China Electric Power Equipment and Technology Co. Ltd

CET/HVDC/SPO(04)I4/City Steel/UET-19-

SOM Lab

Client Reference: 675

Ref: 960(Page-3/3)

Dated: 13-06-2019

Dated: 14-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Lot -6)

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	0.724	4	0.521	0.20	0.213	7.87	10.19	86780	81490	112410	105550	1.00	8.0	12.5	
2	0.654	4	0.494	0.20	0.192	7.14	9.30	78690	81970	102520	106790	1.00	8.0	12.5	
3	0.693	4	0.510	0.20	0.204	7.82	9.91	86220	84530	109260	107120	1.00	8.0	12.5	
4	0.662	4	0.498	0.20	0.195	7.85	9.40	86560	88780	103640	106300	1.00	8.0	12.5	
5	0.653	4	0.494	0.20	0.192	7.31	9.38	80600	83960	103420	107730	1.00	8.0	12.5	
6	0.649	4	0.493	0.20	0.191	6.90	9.09	76100	79690	100270	104990	1.00	8.0	12.5	
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BEND TEST:

# 4S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 4(S.3,4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(S. 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

Sohail Zafar
Resident Engineer, Project Management Office, Fazaia Housing Scheme, Near Nawab Chowk,
Gujranwala

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: FHSG/6015/5/4/DEV

SOM Lab Ref: 963(Page-1/1)

Dated: 13-06-2019

Dated: 14-06-2019

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	0.672	4	0.501	0.20	0.197	6.44	9.94	71040	72130	109600	111270	1.00	8.0	12.5	
2	0.690	4	0.508	0.20	0.203	6.47	9.86	71380	70330	108700	107090	1.00	8.0	12.5	
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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

