

Project Manager
1263 MW Punjab, Thermal Power Plant, Jhang

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

Client Reference: nil
SOM Lab Ref: CED/SOM/1585(Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (City Steel)

Dated: 16-10-2019
Dated: 16-10-2019
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	1.553	16	15.88	201	198	81.50	117.20	405	412	583	592	42.5	200	21.3	15892
2	1.549	16	15.85	201	197	81.00	116.70	403	411	580	592	40.0	200	20.0	15892
3	0.982	12	12.62	113	125	56.70	85.50	501	454	756	684	35.0	200	17.5	15935
4	0.980	12	12.61	113	125	56.20	85.50	497	451	756	685	32.5	200	16.3	15935
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Witnessed By: Muhammad Nayyar Arslan, JE., NESPAK

BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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
Public Health Engg: Sub Division, Kamalia

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 162/K

SOM Lab

Ref: 1581 (Page-1/1)

Dated: 12-09-2019

Dated: 16-10-2019

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	2.603	8	0.987	0.79	0.765	28.61	35.63	79880	82490	99460	102710	1.20	8.0	15.0	
2	1.494	6	0.748	0.44	0.439	17.04	20.49	85430	85630	102700	102940	1.10	8.0	13.8	
3	0.663	4	0.498	0.20	0.195	7.19	8.33	79250	81280	91840	94190	1.20	8.0	15.0	
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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	
# 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

Tasawar Riaz
 Director, Multi Line Engineers, Gujrat

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

Client Reference: nil
 Dated: 16-10-2019
 Test: Tension Test

SOM Lab
 Ref: 1582(Page-1/1)
 Dated: 16-10-2019
 Test Specification: 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	2.637	8	0.993	0.79	0.775	25.89	35.17	72290	73680	98180	100080	1.40	8.0	17.5	
2	2.644	8	0.995	0.79	0.777	25.56	34.53	71350	72540	96390	98000	1.30	8.0	16.3	
3	1.524	6	0.755	0.44	0.448	15.16	19.62	75980	74620	98360	96600	1.30	8.0	16.3	
4	1.524	6	0.755	0.44	0.448	15.26	19.83	76490	75130	99380	97610	1.40	8.0	17.5	
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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

Maj Kamran Aziz

Project Officer, 21 Engineer Battalion Quetta Cantonment, Telephone Military - 36264/607
Projects/Quetta

Test Performed By:

Dr. /Engr.

S Asad Ali
Gillani

Client Reference: 607/Project Quetta

SOM Lab Ref: 1584(Page-1/1)

Dated: 15-10-2019

Dated: 16-10-2019

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	1.067	5	0.632	0.31	0.314	11.03	14.48	78470	77470	102980	101670	1.20	8.0	15.0	
2	1.050	5	0.627	0.31	0.309	11.08	14.50	78830	79090	103130	103460	1.10	8.0	13.8	
3	0.606	4	0.476	0.20	0.178	6.27	8.07	69130	77680	89030	100030	1.20	8.0	15.0	
4	0.609	4	0.477	0.20	0.179	6.19	8.02	68230	76240	88470	98850	1.30	8.0	16.3	
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BEND TEST:

# 5	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
Public Health Engg: Sub Division, Kamalia

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 169/K

SOM Lab

Ref: 1586 (Page-1/1)

Dated: 30-09-2019

Dated: 16-10-2019

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	1.503	6	0.750	0.44	0.442	15.16	18.67	75980	75640	93610	93180	1.20	8.0	15.0	
2	0.623	4	0.483	0.20	0.183	6.09	8.05	67110	73340	88800	97050	1.00	8.0	12.5	
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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

Osama Hassan
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 4047/13/OH/03-MBCC/21

SOM Lab
Ref: 1587(Page-1/1)

Dated: 14-10-2019

Dated: 16-10-2019

Test: Tension Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Kamran 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	2.591	8	0.984	0.79	0.761	27.93	36.75	77980	80950	102590	106500	1.00	8.0	12.5	
2	2.577	8	0.982	0.79	0.757	24.11	33.15	67310	70240	92550	96580	1.60	8.0	20.0	
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BEND TEST:

# 8	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