

Malik Sohaib

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Lab -Incharge, Transtech Engineering Company, Haveli Bahadar Shah, Jhang,

Client Reference: TEC/UET/19121801

Dated: 12-02-2020

SOM Lab Ref: CED/SOM/2219(Page-1/2)

Dated: 12-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (City 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	4.059	25	25.66	491	517	241.50	370.70	492	468	755	718	30.0	200	15.0	3850
2	3.915	25	25.20	491	499	217.50	338.50	443	437	690	679	35.0	200	17.5	3850
3	4.002	25	25.48	491	510	240.70	367.20	490	473	748	721	32.5	200	16.3	3851
4	3.946	25	25.30	491	503	237.50	364.70	484	473	743	726	35.0	200	17.5	3851
5	2.122	20	18.55	314	270	132.20	195.00	421	489	621	722	30.0	200	15.0	3838
6	2.127	20	18.58	314	271	132.50	195.00	422	489	621	720	30.0	200	15.0	3838
7	2.134	20	18.61	314	272	131.50	193.20	419	484	615	711	30.0	200	15.0	3839
8	2.132	20	18.60	314	272	133.70	195.20	426	493	621	719	30.0	200	15.0	3839
9	1.547	16	15.84	201	197	88.50	131.50	440	450	654	668	35.0	200	17.5	3740
10	1.540	16	15.81	201	196	88.00	130.70	438	449	650	667	32.5	200	16.3	3740

Witnessed By: Bilal Ahmed, NESPAK

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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

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Dr. /Engr.

S. Asad Ali Gillani

Lab -Incharge, Transtech Engineering Company, Haveli Bahadar Shah, Jhang,

Client Reference: TEC/UET/19121801

Dated: 12-02-2020

SOM Lab Ref: CED/SOM/2219(Page-2/2)

Dated: 12-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (City 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	0.971	12	12.57	113	124	59.20	87.50	523	478	774	706	32.5	200	16.3	3635
2	1.037	12	12.97	113	132	57.20	81.00	506	433	716	613	32.5	200	16.3	3635
3	0.983	12	12.63	113	125	59.50	90.70	526	476	802	725	27.5	200	13.8	3637
4	1.002	12	12.75	113	128	60.50	90.00	535	475	796	706	27.5	200	13.8	3637
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Witnessed By: Bilal Ahmrd, NESPAK

BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
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

Maj Adnan khalid@

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Dy Dir MTL, Infra Dev Works at Sector - R -1, DHA-PH- IX - (M/S DHA - C)

Client Reference: 408/241/E/Lab/838/650

SOM Lab

Ref: 2221(Page-1/1)

Dated: 06-02-2020

Dated: 12-02-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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	2.612	8	0.989	0.79	0.768	23.19	35.49	64740	66600	99090	101930	1.20	8.0	15.0	
2	2.617	8	0.990	0.79	0.769	24.26	36.06	67730	69580	100660	103410	1.10	8.0	13.8	
3	1.520	6	0.754	0.44	0.447	14.34	20.54	71890	70770	102960	101350	1.20	8.0	15.0	
4	1.491	6	0.747	0.44	0.438	13.88	18.81	69590	69910	94270	94700	1.20	8.0	15.0	
5	0.649	4	0.493	0.20	0.191	6.75	8.63	74420	77920	95210	99700	1.10	8.0	13.8	
6	0.654	4	0.494	0.20	0.192	6.70	8.58	73850	76930	94650	98590	1.10	8.0	13.8	
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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