

Altaf Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

M. E, A.S. Enterprises, Engineers (PROJECT: STYLE TEXTILE RAIWAND ROAD)

Client Reference: USD/ASE/17

Dated: 10-01-2020

SOM Lab Ref: CED/SOM/12047(Page-1/1)

Dated: 15-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar(AFCO 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	0.881	12	11.94	113	112	62.00	76.70	548	554	678	685	32.5	200	16.3	
2	0.882	12	11.96	113	112	61.70	76.70	546	549	678	683	27.5	200	13.8	
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BEND TEST:

12mm	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

M. Kamran Siddiqui
Chief Engineer (HVDC), NTDC, Lahore

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

Client Reference: 8761-65/CE/HVDC/LHR

SOM Lab

Ref: 2048(Page-1/2)

Dated: 14-01-2020

Dated: 15-01-2020

Test: Tension 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	1.049	5	0.626	0.31	0.308	9.38	13.71	66720	67160	97540	98180	1.40	8.0	17.5	
2	1.044	5	0.625	0.31	0.307	9.28	13.61	66000	66640	96820	97760	1.40	8.0	17.5	
3	1.051	5	0.627	0.31	0.309	9.45	13.91	67230	67450	98990	99310	1.20	8.0	15.0	
4	0.656	4	0.496	0.20	0.193	5.50	8.33	60700	62900	91840	95170	1.20	8.0	15.0	
5	0.660	4	0.497	0.20	0.194	5.68	8.48	62610	64550	93530	96420	1.40	8.0	17.5	
6	0.670	4	0.501	0.20	0.197	6.65	10.16	73290	74410	112070	113780	1.10	8.0	13.8	
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Witnessed By: M Bilal Butt, O. E, Azzit Ali, Dy Manager(HVDC) NTDC & Zafar Iqbal (CET)

BEND TEST:

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

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

M. Kamran Siddiqui
Chief Engineer (HVDC), NTDC, Lahore

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

Client Reference: 8761-65/CE/HVDC/LHR

SOM Lab

Ref: 2048(Page-2/2)

Dated: 14-01-2020

Dated: 15-01-2020

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	2.658	8	0.997	0.79	0.781	27.08	36.95	75610	76490	103160	104350	1.30	8.0	16.3	
2	2.537	8	0.975	0.79	0.746	25.81	35.37	72060	76310	98750	104570	1.40	8.0	17.5	
3	2.531	8	0.973	0.79	0.744	25.35	34.73	70780	75150	96960	102950	1.40	8.0	17.5	
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Witnessed By: M Bilal Butt, O. E, Azzit Ali, Dy Manager(HVDC) NTDC & Zafar Iqbal (CET)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 8	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

DCRE / RE-1,
Zeeruk International (Pvt) Ltd. Lahore Sialkot Motorway Project.

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

Client Reference: LSMP/DCRE/2020/1383

SOM Lab Ref:

2053(Page-
1/1)

Dated: 14-01-2020

Dated:

15-01-2020

Test: Tension Tests

Test Specification:

AASHTO M-204

Guage Length: 250 mm

Sample Type:

H T Wire

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	0.105	4	4.07	12.57	13.00	20.00	23.20	1591	1539	1846	1785	6.3	250	2.5	
2	0.101	4	4.04	12.57	12.84	20.20	23.00	1607	1574	1830	1792	6.3	250	2.5	
3	0.100	4	4.02	12.57	12.71	19.70	22.50	1567	1551	1790	1771	6.3	250	2.5	
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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