

Mahmood A Malik
Resident Engineer, Asif Ali & Associates (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: THDP/RE/01/225

SOM Lab

Ref: 326(Page-1/1)

Dated: 18-02-2019

Dated: 20-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(FF 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	1.508	6	0.751	0.44	0.443	17.09	21.00	85690	85110	105260	104540	1.20	8.0	15.0	
2	1.508	6	0.751	0.44	0.443	16.08	20.08	80580	80030	100660	99980	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three 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

Executive Engineer,
Highways Division, Narowal

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

Client Reference: 224/DB

SOM Lab

Ref: 327 (Page-1/1)

Dated: 09-02-2019

Dated: 20-02-2019

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	1.497	6	0.748	0.44	0.440	13.15	19.13	65910	65910	95910	95910	1.70	8.0	21.3	
2	0.688	4	0.507	0.20	0.202	6.52	9.41	71940	71230	103750	102730	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Shamshad Hussain
 Manager Project, Noor Durrani & Associates, Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: J/0534/013

SOM Lab 328(Page-

Ref: 1/1)

Dated: 20-02-2019

Dated: 20-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(FF 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	0.680	4	0.505	0.20	0.200	5.37	6.83	59240	59240	75320	75320	1.60	8.0	20.0	
2	0.657	4	0.496	0.20	0.193	4.43	6.29	48900	50670	69360	71870	1.80	8.0	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Proprietor
Alpha Hardware,9- Beadon Road, Lahore

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

Client Reference: Nil

SOM Lab

Ref: 329(Page-1/1)

Dated: 20-02-2019

Dated: 20-02-2019

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	2.660	8	0.998	0.79	0.782	25.50	34.91	71200	71930	97470	98470	1.40	8.0	17.5	
2	2.657	8	0.997	0.79	0.781	25.99	35.12	72570	73410	98040	99170	1.40	8.0	17.5	
3	1.460	6	0.739	0.44	0.429	15.80	20.05	79200	81230	100500	103080	1.00	8.0	12.5	
4	1.473	6	0.743	0.44	0.433	15.49	20.13	77670	78920	100910	102540	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

M. Saud Barakzai
Resident Engineer, NESPAK, (Pvt) Ltd Lahore

Test Performed By: Dr. /Engr.

Bilal Ahmed
Khokhar

Client Reference: 2184/50Q/MSB/LT105/10775

SOM Lab

Ref: 330, 332(Page-1/1)

Dated: 16-02-2019

Dated: 20-02-2019

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	1.530	6	0.757	0.44	0.450	14.80	20.34	74190	72540	101940	99670	1.60	8.0	20.0	
2	1.516	6	0.754	0.44	0.446	14.78	20.59	74090	73090	103210	101820	1.00	8.0	12.5	
3	1.513	6	0.753	0.44	0.445	14.68	20.64	73580	72750	103470	102310	1.10	8.0	13.8	
4	1.026	5	0.620	0.31	0.302	9.58	12.97	68170	69980	92250	94690	1.50	8.0	18.8	
5	1.028	5	0.620	0.31	0.302	9.84	13.27	69990	71840	94420	96930	1.40	8.0	17.5	
6	1.027	5	0.620	0.31	0.302	9.76	13.25	69410	71240	94280	96780	1.40	8.0	17.5	
7	0.657	4	0.496	0.20	0.193	5.96	8.41	65760	68150	92740	96100	1.20	8.0	15.0	
8	0.660	4	0.497	0.20	0.194	5.93	8.51	65420	67450	93860	96770	1.40	8.0	17.5	
9	0.657	4	0.496	0.20	0.193	5.91	8.43	65200	67560	92960	96340	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Engr. Muhammad Mubashar
Raja

Test Performed By: Dr. /Engr. Ubaid A Mughal

Resident Engineer, COE, TandlianwalaDistt, Faisalabad Al -Imam Enterprises (Pvt) Ltd)

SOM Lab 331(Page-
Ref: 1/1)

Client Reference: RE/FDA/CETW/02/19/64

Dated: 20-02-2019

Dated: 13-02-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(FF 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	2.586	8	0.984	0.79	0.760	25.28	33.59	70580	73360	93770	97470	1.30	8.0	16.3	
2	2.565	8	0.980	0.79	0.754	26.07	33.86	72770	76240	94540	99050	1.40	8.0	17.5	
3	1.582	6	0.769	0.44	0.465	15.31	21.99	76750	72620	110210	104290	1.10	8.0	13.8	
4	1.574	6	0.768	0.44	0.463	14.17	19.95	71020	67500	99990	95030	1.30	8.0	16.3	
5	1.034	5	0.622	0.31	0.304	9.58	13.00	68170	69520	92470	94290	1.40	8.0	17.5	
6	1.034	5	0.622	0.31	0.304	9.50	12.86	67590	68930	91520	93330	1.50	8.0	18.8	
7	0.667	4	0.500	0.20	0.196	6.01	8.07	66320	67680	89030	90850	1.30	8.0	16.3	
8	0.672	4	0.501	0.20	0.197	6.22	8.31	68570	69620	91610	93010	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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