

Kamran Ahmad Khan
 Dy. General Manager, IZHAR Concrete (Pvt) Ltd. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 28-10-2019

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 1701(Page-1/1)

Dated: 07-11-2019

ASTM A-615

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	1.492	6	0.747	0.44	0.438	13.78	19.37	69080	69400	97080	97520	1.40	8.0	17.5	
2	1.486	6	0.746	0.44	0.437	13.71	19.39	68730	69200	97180	97850	1.00	8.0	12.5	
3	1.492	6	0.747	0.44	0.438	14.27	20.10	71540	71860	100760	101220	1.10	8.0	13.8	
4	0.660	4	0.497	0.20	0.194	6.12	8.31	67450	69530	91610	94450	1.30	8.0	16.3	
5	0.652	4	0.494	0.20	0.192	6.01	8.36	66320	69090	92180	96020	1.20	8.0	15.0	
6	0.658	4	0.496	0.20	0.193	6.32	8.41	69700	72220	92740	96100	1.30	8.0	16.3	
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BEND TEST:

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

Ali Raza Qureshi
Project Director (HVDC), NTDC Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 2227-31/PD/HVDC/NTDC.LHR

SOM Lab

Ref: 1704(Page-1/2)

Dated: 07-11-2019

Dated: 07-11-2019

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	3.441	9	1.135	1.00	1.011	33.94	46.40	74870	74050	102340	101220	1.20	8.0	15.0	
2	3.434	9	1.133	1.00	1.009	33.44	46.74	73740	73080	103080	102160	1.00	8.0	12.5	
3	3.434	9	1.133	1.00	1.009	33.84	47.20	74640	73980	104090	103160	1.10	8.0	13.8	
4	2.678	8	1.001	0.79	0.787	27.93	36.39	77980	78270	101600	101980	1.20	8.0	15.0	
5	2.263	8	0.920	0.79	0.665	27.32	35.90	76270	90600	100230	119070	1.20	8.0	15.0	
6	2.630	8	0.992	0.79	0.773	28.34	36.62	79120	80850	102220	104470	1.20	8.0	15.0	
7	0.647	4	0.492	0.20	0.190	7.77	9.40	85660	90170	103640	109100	1.10	8.0	13.8	
8	0.767	4	0.535	0.20	0.225	7.46	8.97	82290	73140	98920	87930	1.00	8.0	12.5	
9	0.761	4	0.534	0.20	0.224	7.72	9.09	85100	75980	100270	89530	1.00	8.0	12.5	
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Witnessed By: M Abbas OE, M. Umair Asalam, DM (HVDC) NTDC, & Dr Ali Adnan CET Lot (7-8)

BEND TEST:

# 9(S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack
# 9(S.3)	Sample bend through 180 degrees Satisfactorily without any crack
# 8(S.4,5)	Sample bend through 180 degrees Satisfactorily without any crack
# 8(S. 6)	Sample bend through 180 degrees Satisfactorily without any crack
# 4(S.7,8,9)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Eighteen Samples Received and Tested

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

Ali Raza Qureshi
Project Director (HVDC), NTDC Lahore

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

Client Reference: 2227-31/PD/HVDC/NTDC.LHR

SOM Lab

Ref: 1704(Page-2/2)

Dated: 07-11-2019

Dated: 07-11-2019

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	1.035	5	0.622	0.31	0.304	11.11	13.99	79050	80610	99500	101460	1.00	8.0	12.5	
2	1.029	5	0.620	0.31	0.302	11.28	13.46	80280	82410	95730	98270	1.00	8.0	12.5	
3	1.044	5	0.625	0.31	0.307	11.39	13.99	81010	81800	99500	100470	1.10	8.0	13.8	
4	1.041	5	0.624	0.31	0.306	11.08	13.86	78830	79860	98630	99920	1.10	8.0	13.8	
5	1.045	5	0.625	0.31	0.307	11.30	14.12	80430	81210	100440	101430	1.00	8.0	12.5	
6	1.051	5	0.627	0.31	0.309	10.67	13.76	75930	76180	97910	98220	1.00	8.0	12.5	
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Witnessed By: M Abbas OE, M. Umair Asalam, DM (HVDC) NTDC, & Dr Ali Adnan CET Lot (7-8)

BEND TEST:

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