

	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.864	25	25.03	491	492	177.70	269.50	362	362	549	548	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

I. H ZARRAR

Test Performed By:

Dr. /Engr. Irfan Ul Hassan

Engineering Design Bureau.(96M NTDC Tower at SR612, 132KV Grid Station,Gujrat South Mzf)

Client Reference: EDB/63

SOM Lab Ref:

288 (P-4/8)

Dated: 02-12-2024

Dated:

02-12-2024

Test: Tension Test

Test Specification:

ASTM-A706

Gauge Length: 200 mm

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)				

	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.735	25	24.62	491	476	190.00	282.70	387	400	576	594	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

Engineering Design Bureau.(40M NTDC Tower at SR192, 500KV Grid Station,Mzf)

Client Reference: EDB/60

SOM Lab Ref:

288 (P-5/8)

Dated: 02-12-2024

Dated:

02-12-2024

Test: Tension Test

Test Specification:

ASTM-A706

Gauge Length: 200 mm

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)				

	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.450	16	15.35	201	185	65.50	94.70	326	355	471	512	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sec J)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 111/DD/Lab/J/477

Dated: 25-11-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

SOM Lab

Ref: 282 (Page-1/1)

Dated: 02-12-2024

Sl. No.	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	U.L.S	Y.L.S	Elong	% Elong	Remarks
---------	--------	------	------	-------	----------	--------------	-------------	-------	-------	-------	---------	---------

		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	1.502	6	0.749	0.44	0.441	13.35	20.80	66940	66780	104230	104000	1.50	8.0	18.8	
2	1.505	6	0.750	0.44	0.442	13.63	21.43	68320	68010	107400	106920	1.40	8.0	17.5	
3	0.658	4	0.496	0.20	0.193	5.88	9.33	64860	67210	102860	106590	1.10	8.0	13.8	
4	0.663	4	0.498	0.20	0.195	6.17	9.30	68010	69750	102520	105150	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	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

Abdul Qayyum Chaudary C.E/RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

NESPAK Lhr.(Lahore Ring Road Project-Kamahan Hostel Building SL1 & 2)

Client Reference: 2636/103/AQC/SL/02/664

SOM Lab

Ref:

283 (Page-1/1)

Dated: 27-11-2024

Dated:

02-12-2024

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Hunza 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	1.502	6	0.749	0.44	0.441	15.24	19.52	76390	76220	97850	97630	1.50	8.0	18.8	
2	0.667	4	0.500	0.20	0.196	6.60	8.48	72730	74210	93530	95430	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Zahid Mughal
C/O M/S Amanah Noor Residence Wapda Town, Lahore.

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

Client Reference: Nil

Dated: 02-12-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 284 (Page-1/1)

Dated: 02-12-2024

ASTM-A-615

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	2.633	8	0.993	0.79	0.774	28.75	34.37	80250	81910	95960	97950	1.40	8.0	17.5	
2	2.595	8	0.986	0.79	0.763	27.19	24.36	75900	78590	68020	70420	1.30	8.0	16.3	
3	1.472	6	0.743	0.44	0.433	16.21	20.08	81240	82560	100660	102290	1.10	8.0	13.8	
4	1.473	6	0.743	0.44	0.433	14.44	18.98	72400	73570	95140	96680	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Witnessed By:		M.Arslan Khaleel													
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.Waseem Azhar
Asstt Director (QCD) WASA,LDA,Lhr.(M/S. Shezone Pipe Industry)

Test Performed By: Dr. /Engr. Irfan Ul Hassan

Client Reference: QCD/2369

Dated: 28-11-2024

Test: Tension Test & Bend Test

SOM Lab

Ref: 285 (Page-1/1)

Dated: 02-12-2024

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	0.677	4	0.503	0.20	0.199	7.14	8.66	78690	79080	95550	96030	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Engineer Muhammad Irshad

Test Performed By:Dr. /Engr. Irfan Ul Hasan

Dy Dir Dev. DHA Gujranwala.(Plot 13 & 16 Comm Plaza)

Client Reference: 111/3/DD/Dev/Plot 13 & 16 Comm/62**SOM Lab****Ref:**

286 (Page-1/1)

Dated: 14-11-2024**Dated:**

02-12-2024

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	1.576	6	0.768	0.44	0.463	17.64	21.92	88400	84000	109850	104400	1.40	8.0	17.5	
2	1.500	6	0.749	0.44	0.441	14.07	19.27	70510	70350	96570	96350	1.30	8.0	16.3	
3	0.669	4	0.501	0.20	0.197	6.93	8.92	76440	77600	98360	99860	1.40	8.0	17.5	
4	0.669	4	0.501	0.20	0.197	6.73	8.79	74190	75320	96900	98370	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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

Sufyan Uppal, PE
 Baig Constuction Co. Lahore.(Const. Of Jinnah Square Mall Raiwind Road Lahore)

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

Client Reference: ST/UET/02122024/0468

SOM Lab Ref: 287 (Page-1/1)

Dated: 02-12-2024

Dated: 02-12-2024

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	2.626	8	0.991	0.79	0.772	26.61	37.33	74280	76010	104210	106640	1.30	8.0	16.3	
2	2.631	8	0.992	0.79	0.773	26.12	37.00	72910	74510	103300	105580	1.20	8.0	15.0	
3	1.516	6	0.754	0.44	0.446	16.74	21.20	83900	82770	106280	104850	1.20	8.0	15.0	
4	1.517	6	0.754	0.44	0.446	15.31	20.08	76750	75710	100660	99300	1.20	8.0	15.0	
5	0.661	4	0.497	0.20	0.194	6.63	8.97	73070	75330	98920	101980	1.10	8.0	13.8	
6	0.666	4	0.500	0.20	0.196	6.44	8.58	71040	72490	94650	96580	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

Engr.M.Aamir Saeed

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

Snr PM IDAP Lahore.(Project Site MIR # CCECC&SE/NSICTR/PKG-A/MIR/002, Pkg-A)

Client Reference: PD(NSICTR)/PACKAGE-A/2024/20889

Dated: 28-11-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 290 (Page-1/1)

Dated: 02-12-2024

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	2.635	8	0.993	0.79	0.774	24.77	34.42	69160	70580	96100	98090	1.40	8.0	17.5	Aug-144
2	2.631	8	0.992	0.79	0.773	24.87	34.45	69440	70970	96190	98300	1.40	8.0	17.5	Aug-144
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Client Reference: Nil

Dated: 02-12-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 291 (Page-1/1)

Dated: 02-12-2024

Test Specification: ASTM-A-615

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	2.598	8	0.986	0.79	0.763	22.78	31.40	63610	65860	87650	90750	1.60	8.0	20.0	
2	2.600	8	0.986	0.79	0.764	24.11	31.47	67310	69600	87850	90840	1.40	8.0	17.5	
3	1.494	6	0.748	0.44	0.439	14.63	19.62	73320	73490	98360	98580	1.20	8.0	15.0	
4	1.489	6	0.747	0.44	0.438	14.55	19.42	72910	73250	97340	97780	1.30	8.0	16.3	
5	1.033	5	0.622	0.31	0.304	12.61	14.70	89710	91480	104580	106640	1.30	8.0	16.3	
6	1.043	5	0.625	0.31	0.307	12.39	14.85	88120	88980	105670	106700	1.40	8.0	17.5	
7	0.648	4	0.492	0.20	0.190	6.57	8.56	72510	76320	94420	99390	1.00	8.0	12.5	
8	0.641	4	0.489	0.20	0.188	6.29	8.28	69360	73790	91280	97100	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Client Reference: Nil

Dated: 30-11-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 292 (Page-1/1)

Dated: 02-12-2024

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Aziz 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	2.699	8	1.005	0.79	0.793	21.73	35.49	60670	60450	99090	98720	1.50	8.0	18.8	
2	2.699	8	1.005	0.79	0.793	21.78	35.52	60820	60590	99180	98800	1.30	8.0	16.3	
3	1.457	6	0.738	0.44	0.428	12.64	19.88	63360	65140	99640	102430	1.20	8.0	15.0	
4	1.452	6	0.737	0.44	0.427	11.90	18.76	59630	61450	94020	96880	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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