

Dy. General Manager Works.Habib Rafiq Engineering (Pvt.) Ltd.(101 Tower,Lahore)

Asad Ali Gillani

SOM Lab Ref: 1029 (P-1/1)

Dated: 27-03-2025

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.840	28	28.03	616	617	269.00	447.20	437	436	726	725	30.0	200	15.0	
2	4.924	28	28.26	616	627	285.00	464.50	463	455	754	741	27.5	200	13.8	
3	2.902	22	21.70	387	370	162.00	260.50	419	439	673	705	27.5	200	13.8	
4	2.897	22	21.68	387	369	164.50	261.00	425	446	674	708	27.5	200	13.8	
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<u>BEND TEST:</u>															
28mm		Sample bend through 180 degrees Satisfactorily without any crack									Note:- Only Six Samples Received and Tested				
22mm		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															

Muhammad Umair Sajid
Sr.Engr (Civil) ,SWP PAEC D.G.Khan.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: SWP/W(2543)/2024

Dated: 25-03-2025

SOM Lab

Ref: 1027 (Page-1/2)

Dated: 27-03-2025

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	1.483	6	0.745	0.44	0.436	15.75	19.57	78940	79670	98100	99000	1.20	8.0	15.0	
2	1.480	6	0.744	0.44	0.435	15.55	19.47	77920	78820	97590	98710	1.10	8.0	13.8	
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<u>BEND TEST:</u>															
# 6	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															

Muhammad Umair Sajid
Sr.Engr (Civil) ,SWP PAEC D.G.Khan.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: SWP/W(2543)/2024

Dated: 25-03-2025

SOM Lab

Ref: 1027 (Page-2/2)

Dated: 27-03-2025

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	0.634	4	0.487	0.20	0.186	7.00	8.84	77230	83040	97460	104800	1.20	8.0	15.0	
2	0.633	4	0.487	0.20	0.186	6.98	8.87	77000	82800	97800	105160	1.20	8.0	15.0	
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<u>BEND TEST:</u>															
# 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															

QAQC Manager Zameen Development.(Const. Of JADE Project by Zameen Development,Lahore)

Dr. /Engr. Asad Ali Gillani

Dated: 27-03-2025

Ref: 1031 (Page-1/1)

Dated: 27-03-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-706

Gauge Length: 8 inch

Sample Type: Def. Bar

[illegible]

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	

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

Metroplan-Asian JV Site Office.(Estb Of NSICTR Lahore Phase-1,Pkg-B)

Dr. /Engr. Asad Ali Gillani

Dated: 26-03-2025

Ref: 1032 (Page-1/1)

Dated: 27-03-2025

Test Specification:

ASTM-A-615

Sample Type: Deformed Bar (Kamran Steel)

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# 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	

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

Metroplan-Asian JV Site Office.(Estb Of NSICTR Lahore Phase-1,Pkg-A&D)

Dr. /Engr. Asad Ali Gillani

Dated: 27-03-2025

Dated: 27-03-2025

Test Specification:

ASTM-A-615

Sample Type:

Deformed Bar

<u>BEND TEST:</u>			
# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested	
# 6	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			

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples
Received and Tested

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

Nespak.(Rehb/Impro Of S/Pavement,Sewerage/Drainage UC 32,33 ... 37,38&39 Ravi Zone MCL)

Asad Ali Gillani

Dated: 24-03-2025

Ref: 1034 (Page-1/1)

Dated: 27-03-2025

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Ravi 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	0.636	4	0.488	0.20	0.187	4.86	7.03	53620	57350	77560	82960	1.10	8.0	13.8	
2	0.599	4	0.473	0.20	0.176	4.49	6.52	49460	56210	71940	81750	1.00	8.0	12.5	
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<u>BEND TEST:</u>															
# 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															