

Client Reference No.: ZEG/IRR/RWCS/GEN/UET/24-02

Dated: 10-09-2024

SOM Lab Ref: CED/SOM/4785

Dated: 12-09-2024

Test Type: Flexural Toughness of Steel Fiber Reinforced Shotcrete (RWCS-1)

Test Performed by: Dr. Wasim Abbas

Mr. Ren Pengxun,

Project Manager,

Zhongmei Engineering Group-Almehreen Enterprises Joint Venture

Peshawar

This is with reference to your above-mentioned letter and SOM receipt No. 4785 dated: 12-09-2024. The beam samples of Steel Fiber Reinforced Shotcrete submitted in the Laboratory were tested to determine their Flexural Toughness as per ASTM C 1018. The values of toughness indices exhibited by each sample are provided in the Table below. It is to be noted that each test was stopped once the drop in the load after peak was 90% of ultimate load carrying capacity.

Sample No.	Sample description with respect to Steel Fiber Dosage	Size of Test Specimen (Dimensions in mm)	Flexural Strength (MPa)	Flexural Toughness Index I_5	Flexural Toughness Index, I_{10}
1	60 kg/m ³	100 × 100 × 350	5.44	6.2	9.1
2			5.84	5.1	8.2
3			5.87	6.4	9.4

Test Performed by: Dr. S. Asad Ali Gillani

Resident Engineer

NESPAK (RRR),

(Const of Rawalpindi Ring Road (RRR) Main Carriageway from Baanth (N-5) To Thalian (M-2) Group-1)

Reference No.: 4713/RRR/IUK/24/158

Dated: 09-10-2024

SOM Lab Ref: CED/SOM/4965(Page-1/2)

Dated: 10-10-2024

Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

Sample Type: Expansion Joint (Saw-Tooth Typel) Brand : Longman

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Elongation at Break(%)
1	8.7 x 4.9	0.65	15.25	360.0
2	8.4x 4.9	0.55	13.36	340.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.0 x 4.9	0.38	77.55
2	12.5 x 4.9	0.40	81.63

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	4.90	4.77	2.65

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness _{avg} (Shore A)
1	Elastomer	73.33

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

Test Performed by:

Dr. S. Asad Ali Gillani

Resident Engineer

NESPAK (RRR),

(Const of Rawalpindi Ring Road (RRR) Main Carriageway from Baanth (N-5) To Thalian (M-2) Group-1)

Reference No.: 4713/RRR/IUK/24/158

Dated: 09-10-2024

SOM Lab Ref: CED/SOM/4965(Page-1/2)

Dated: 10-10-2024

Sample Type: Aluminum Alloy (Expansion Joint)

Gauge Length: 2 inches

Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm²)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	21.80 x 6.75	147.15	14.45	98.19	0.10	5.00

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

Waqas Ahmed Ghumman,PM
 High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

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

Client Reference: QC/HQ/CIVIL/239
SOM Lab Ref: CED/SOM/4962 (Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar

Dated: 10-10-2024
Dated: 10-10-2024
Test Specification: ASTM-A 615
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	3.830	25	24.93	491	488	239.70	319.20	488	492	650	655	35.0	200	17.5	
2	3.843	25	24.97	491	490	239.50	318.20	488	490	648	651	37.5	200	18.8	
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BEND TEST:

25mm	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

Tariq Fetah

Test Performed By:

Dr. /Engr.

Nauman Khurram

PM Jilani Poly Construction.(Const Of Jilani Poly-2 Gravaure Extension Sheikhpora)

Client Reference: JP-2/UET/2024/S-006

SOM Lab

Ref:

4960 (Page-1/1)

Dated: 07-10-2024

Dated:

10-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mehboob Super)

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	2.645	8	0.995	0.79	0.777	25.76	35.47	71920	73120	99030	100690	1.40	8.0	17.5	
2	2.646	8	0.995	0.79	0.778	25.79	35.63	72000	73110	99460	101000	1.30	8.0	16.3	
3	0.665	4	0.498	0.20	0.195	6.60	8.48	72730	74600	93530	95920	1.10	8.0	13.8	
4	0.668	4	0.500	0.20	0.196	7.44	9.14	82060	83730	100830	102890	1.00	8.0	12.5	
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BEND TEST:

# 8	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 4961 (Page-1/6)

Dated: 10-10-2024

Dated: 10-10-2024

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	3.037	8	1.066	0.79	0.893	21.07	34.10	58830	52040	95190	84210	1.10	8.0	13.8	H # 1
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BEND TEST:

# 8	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 4961 (Page-2/6)

Dated: 10-10-2024

Dated: 10-10-2024

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	2.691	8	1.004	0.79	0.791	21.12	34.02	58970	58890	94970	94850	1.10	8.0	13.8	H # 2
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BEND TEST:

# 8	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 4961 (Page-3/6)

Dated: 10-10-2024

Dated: 10-10-2024

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	1.541	6	0.759	0.44	0.453	13.61	21.17	68210	66260	106130	103080	1.20	8.0	15.0	H # 1
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BEND TEST:

# 6	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

Client Reference: Nil

SOM Lab

Dated: 10-10-2024

Ref: 4961 (Page-4/6)

Dated: 10-10-2024

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	1.507	6	0.751	0.44	0.443	12.59	19.54	63100	62680	97950	97290	1.20	8.0	15.0	H # 2
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BEND TEST:

# 6	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 4961 (Page-5/6)

Dated: 10-10-2024

Dated: 10-10-2024

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	0.672	4	0.501	0.20	0.197	5.58	8.51	61490	62430	93860	95290	1.00	8.0	12.5	H # 1
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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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 4961 (Page-6/6)

Dated: 10-10-2024

Dated: 10-10-2024

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	0.678	4	0.503	0.20	0.199	5.76	8.82	63510	63830	97230	97720	1.30	8.0	16.3	H # 2
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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

Allied Bank

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Head Const Site. ABL-UML-P#199-200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-AMC-QAQC-91

SOM Lab

Ref: 4963 (Page-1/1)

Dated: 10-10-2024

Dated: 10-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	2.602	8	0.987	0.79	0.765	27.54	36.85	76900	79410	102880	106240	1.30	8.0	16.3	
2	2.602	8	0.987	0.79	0.765	25.99	34.83	72570	74940	97240	100420	1.20	8.0	15.0	
3	1.504	6	0.750	0.44	0.442	14.98	20.29	75110	74770	101680	101220	1.10	8.0	13.8	
4	1.492	6	0.747	0.44	0.438	14.95	20.05	74960	75300	100500	100960	1.10	8.0	13.8	
5	1.043	5	0.625	0.31	0.307	10.35	14.04	73610	74330	99860	100840	1.10	8.0	13.8	
6	1.038	5	0.623	0.31	0.305	10.52	14.19	74840	76070	100950	102610	1.10	8.0	13.8	
7	0.664	4	0.498	0.20	0.195	7.21	8.74	79470	81510	96340	98810	1.20	8.0	15.0	
8	0.668	4	0.500	0.20	0.196	7.19	8.77	79250	80870	96670	98650	1.10	8.0	13.8	
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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: FFAP/CME/Pkg5/CC030

SOM Lab

Ref:

4964 (Page-1/1)

Dated: 10-10-2024

Dated:

10-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Moiz 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	1.471	6	0.742	0.44	0.432	13.99	19.03	70100	71400	95400	97160	1.50	8.0	18.8	
2	1.464	6	0.740	0.44	0.430	13.76	19.03	68980	70580	95400	97610	1.40	8.0	17.5	
3	0.664	4	0.498	0.20	0.195	6.07	8.43	66890	68600	92960	95350	1.30	8.0	16.3	
4	0.666	4	0.500	0.20	0.196	6.01	8.46	66320	67680	93300	95200	1.20	8.0	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Mr.Rashid Iqbal (PM)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Ittefaq Building Solution (Pvt)Ltd.(Sazgar 05 Car Plant)(Sazgar Engg Works Car Plant)

Client Reference: Nil

SOM Lab

Ref:

4966 (Page-1/1)

Dated: 09-10-2024

Dated:

10-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

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	2.663	8	0.998	0.79	0.783	25.69	36.31	71720	72360	101370	102270	1.30	8.0	16.3	
2	2.667	8	0.999	0.79	0.784	25.81	36.34	72060	72610	101450	102230	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

