Test Performed by: Dr. Asad Ali Gillani

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

 Client Reference No.: HRLE/SKG/2025/L-16/230-22/203
 Dated: 10-03-2025

 SOM Lab Ref: CED/SOM/901(Page-1/1)
 Dated: 10-03-2025

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

#### **Tension Test Results**

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	( mm )	(mm²)	kN	kN (Mpa) (Mpa)			
1	22	387	175.0	233.2	452	603	Steel Sample breaks at this load from the threaded portion
2	22	387	162.0	231.5	419	598	Steel Sample breaks at this load from the threaded portion
3	22	387	179.0	245.5	463	634	Steel Sample breaks at this load from the threaded portion
4	22	387	177.0	236.0	457	610	Threaded Slippage failure

Witnessed by: M.Irfan QC Engr/HRL, Najam Shabbir(Sr.Site Engr 101 Group)

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

**Client Reference No.**: 4084/103/LDP/Ravi/04/243 **Dated**: 27-02-

2025

SOM Lab Ref: CED/SOM/904 Dated:

10-03-2025

NESPAK (Pvt.) Ltd

Test Type: Load Test of RPC Manhole Cover

**Test Standard:** Non-standard test was performed as per requirement of the client [Application of load at the

center of the Manhole Cover through circular thick steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani
Abid Azim
Resident Engineer

(Rehb/Improvement Of Street Pavement, Sewerage/Drainage UC 10,11,12,13,14 Ravi Zone MCL)

This is with reference to your above-mentioned letter and SOM receipt No. 904 dated: 10-03-2025. The sample of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

# **Load Test Result**

Weight of Manhole Cove With Ring	Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
48.6 Kg	640 mm	70.0 mm	10200 kg	The sample was cracked at this load

**Client Reference No.**: 4084/103/LDP/Ravi/04/244 **Dated**: 27-02-

2025

SOM Lab Ref: CED/SOM/905 Dated:

10-03-2025

Test Type: Load Test of RPC Cover for Chamber

Test Standard: Non-standard test was performed as per requirement of the client [Application of load at the

center of the Manhole Cover through square steel plate of 9"x9"]

Test Performed by: Dr. Asad Ali Gillani

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Abid Azim

Resident Engineer

NESPAK (Pvt.) Ltd

(Rehb/Improvement of Street Pavement, Sewerage/Drainage UC 10,11,12,13,14 Ravi Zone MCL)

This is with reference to your above-mentioned letter and SOM receipt No. 905 dated: 10-03-2025. The sample of RPC Cover for Chamber submitted in the Laboratory has been tested and the result is provided below.

### **Load Test Result**

Weight of RPC Cover With Ring	Size of Cover	Average Thickness of RPC Cover	Maximum Load	Observations/Remarks
30.0 Kg	59.3 x 44.8 cm	65.0 mm	3500 kg	The sample was cracked at this load

Client Reference No.: MMP/1095/Kamalia/RPC/103/2024 Dated: 06-02-

2025

SOM Lab Ref: CED/SOM/915 Dated:

10-03-2025

Test Type: Load Test of RPC Manhole Cover 24" Diameter

**Test Standard:** Non-standard test was performed as per requirement of the client [Application of load at the center of the Manhole Cover through circular thick(19.0mm) steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

Muhammad Shafiq

Assistant Resident Engineer

PCP Pkg-III Kamalia, MM Pakistan

(Improvement of Sewerage System and Construction of Waste Water Treatment Plant-Kamalia City Package-1 Sewerage System)

This is with reference to your above-mentioned letter and SOM receipt No. 915 dated: 10-03-2025. The sample of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

## **Load Test Result**

Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
634 mm	59.0mm	6000 kg	Manhole Cover was cracked at this load

Witnessed by: M.Shafiq (ARE-Kamalia)

Muhammad Shafiq, ARE **Test Performed By:** Dr. /Engr. Asad Ali Gillani MMP (Pvt) Ltd. Pkg -III PCP Kamalia.(Const Of Waste Water Treatment Plant Kamalia City)

**SOM Lab** 

Only Six Samples Received and Tested

 Client Reference:
 MMP/1095/KCM/WWTP/102/2025
 Ref:
 718 (Page-1/1)

 Dated:
 04-02-2025
 Dated:
 06-02-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		D	)ia.	А	rea	Yield	Ultimate	Yield	Stress	Ult. S	stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.474	6	0.743	0.44	0.433	13.91	18.27	69750	70870	91560	93040	1.50	8.0	18.8	
2	1.474	6	0.743	0.44	0.433	13.78	18.09	69080	70200	90690	92160	1.60	8.0	20.0	
3	0.593	4	0.471	0.20	0.174	6.32	8.02	69700	80110	88470	101690	1.00	8.0	12.5	
4	0.591	4	0.471	0.20	0.174	6.17	7.87	68010	78170	86780	99750	1.10	8.0	13.8	
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Wit	nessed	Ву:		M Sh	afiq (ARI	E MMP)									
BE	ND TE	ST:													
	# 6	Samp	le bend	through	180 de	grees Sa	atisfactorily	without a	ny crack		Note:	•			
	# 4	Samp	Sample bend through 180 degrees Satisfactorily without any crack												

Sub Divisional officer, Test Performed By: Dr. /Engr. Wasim Abbas
PHE Sub Div Pattoki.(Const Of Sewerage/Water Supply & Drainage Scheme at Vilage Ballakoi)

**SOM Lab** 

 Client Reference:
 80/P
 Ref:
 902 (Page-1/2)

 Dated:
 01-02-2025
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		D	)ia.	А	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.660	4	0.497	0.20	0.194	6.60	8.92	72730	74980	98360	101400	1.20	8.0	15.0	
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											Only C	One S	Sam	ple	
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Sub Divisional officer, Test Performed By: Dr. /Engr. Wasim Abbas
PHE Sub Div Pattoki.(Const Of Sewerage W/Supply &Drainage Scheme at Vilage Dholan Chak 27)

**SOM Lab** 

 Client Reference:
 71/P
 Ref:
 902 (Page-2/2)

 Dated:
 01-02-2025
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		Г	Dia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress				
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to seas) (according to seasured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.653	4	0.494	0.20	0.192	6.54	8.89	72170	75180	98020	102110	1.10	8.0	13.8	
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		No Be	end test	perforr	med						Note:	-			
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Engr.Sheikh Maqbool Hassan Test Performed By: Dr. /Engr. Asad Ali Gillani

RE Nespak MCL Nishtar Zone, Lhr. (Rehb/Imp Of Streets, Sewerage/Drainage UC-269, 270, 253)

SOM Lab

 Client Reference:
 4084/103/LDP/NZ/04/244
 Ref:
 903 (Page-1/1)

 Dated:
 08-03-2025
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		D	ia.	А	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.655	4	0.494	0.20	0.192	7.59	8.89	83750	87240	98020	102110	1.00	8.0	12.5	
2	0.655	4	0.494	0.20	0.192	6.34	8.43	69920	72830	92960	96840	1.20	8.0	15.0	
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<u>BE</u>	ND TE	ST:													
	# 4	Samp	le bend	througl	า 180 de	grees Sa	atisfactorily	without a	ny crack		Note:-	-			
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											Receiv	ved a	ind 7	Γeste	d
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Archt.Kalim A.Siddiqui **Test Performed By:** Dr. /Engr. Asad Ali Gillani

Chief Executive KS & Associates.(Stting Up Of MCB Bank at Chak No.533/EB Distt Vehari)

**SOM Lab** 

**Client Reference:** KSA/MCB-BW-VEHARI/24/M-14 906 (Page-1/1) Ref: Dated: 10-03-2025

Dated: 07-03-2025

**ASTM-A-615** 

Test: Tension Test & Bend Test **Test Specification:** 

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

Deformed Bar (FF Steel) Gauge Length: 8 inch Sample Type:

		D	ia.	A	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			С	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.611	8	0.988	0.79	0.767	26.15	35.32	73000	75190	98610	101560	1.10	8.0	13.8	
2	1.480	6	0.744	0.44	0.435	16.67	20.41	83540	84500	102290	103470	1.10	8.0	13.8	
3	0.658	4	0.496	0.20	0.193	6.70	8.89	73850	76530	98020	101580	1.30	8.0	16.3	
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<u>BE</u>	ND TE	ST:	<u>T:</u>												
	# 8	Samp	le bend	through	180 de	grees Sa	ntisfactorily	without a	ny crack		Note:	-			
	# 6	Samp	le bend	through	180 de	grees Sa	ntisfactorily	without a	ny crack						
	# 4	Samp	le bend	through	180 de	grees Sa	ntisfactorily	without a	ny crack		Only S	Six Sa	amp	les	
		Received and							nd 7	Γeste	d				

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

Exec Director-Projects Ittefaq Building Solution Pvt Ltd.(Haider Saeed Commercial, Lahore)

SOM Lab

 Client Reference:
 Nil
 Ref:
 907 (Page-1/1)

 Dated:
 10-03-2025
 Dated:
 10-03-2025

**Test:** Tension Test & Bend Test **Test Specification**: ASTM-A-615

Gauge Length: 8 inch Sample Type: Deformed Bar (Aziz Steel)

		D	ia.	A	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress			Ē	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.631	8	0.992	0.79	0.773	23.75	38.96	66310	67770	108770	111160	1.30	8.0	16.3	
2	2.628	8	0.991	0.79	0.772	23.85	39.22	66590	68150	109480	112030	1.40	8.0	17.5	
3	1.476	6	0.743	0.44	0.434	13.88	22.07	69590	70560	110620	112150	1.20	8.0	15.0	
4	1.510	6	0.752	0.44	0.444	14.37	22.12	72050	71400	110880	109880	1.40	8.0	17.5	
5	0.655	4	0.494	0.20	0.192	5.78	9.09	63740	66390	100270	104450	1.10	8.0	13.8	
6	0.652	4	0.494	0.20	0.192	5.88	8.97	64860	67560	98920	103040	1.10	8.0	13.8	
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	ND TE	ΛT.													

#### BEND TEST:

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

Sub Divisional officer, **Test Performed By:** Dr. /Engr. Asad Ali Gillani BSD No.5 Lhr.(Const Of B/Wall For The Regional EC/Distt EC II & III in Overseas PHS Lhr)

**SOM Lab** 

 Client Reference:
 861/5Th
 Ref:
 908(Page-1/1)

 Dated:
 28-02-2025
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		D	)ia.	А	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.508	6	0.751	0.44	0.443	14.34	19.11	71890	71410	95800	95160	1.50	8.0	18.8	
2	1.503	6	0.750	0.44	0.442	13.76	18.67	68980	68670	93610	93180	1.40	8.0	17.5	
3	0.598	4	0.473	0.20	0.176	6.03	8.07	66550	75620	89030	101170	1.30	8.0	16.3	
4	0.600	4	0.473	0.20	0.176	6.07	8.07	66890	76010	89030	101170	1.40	8.0	17.5	
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BE	ND TE	ST:													
		No Be	end test	perforr	ned			Note:	•						
											Only F Receiv				d

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

C.E.O Haider Planners & Builders Pvt Ltd.(Al Manzoor Mall)

**SOM Lab** 

 Client Reference:
 Nil
 Ref:
 909 (Page-1/1)

 Dated:
 08-03-2025
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		D	ia.	А	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.653	8	0.997	0.79	0.780	25.91	35.12	72340	73270	98040	99300	1.30	8.0	16.3	
2	1.513	6	0.753	0.44	0.445	14.53	19.80	72810	71990	99230	98110	1.20	8.0	15.0	
3	1.049	5	0.626	0.31	0.308	9.65	14.09	68680	69130	100230	100880	1.50	8.0	18.8	
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# **BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:-
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	Sample bend through 180 degrees Satisfactorily without any crack	Only Six Samples
		Received and Tested

Mohsin Abbas **Test Performed By:** Dr. /Engr. Wasim Abbas QAQC Manager Zameen Development.(Const. Of JADE Project by Zameen Development,Lahore)

**SOM Lab** 

**Client Reference:** ZD/QAQC/KS-13266/JADE/03 910 (Page-1/1) Ref: Dated: 10-03-2025 Dated: 10-03-2025

Test: Tension Test & Bend Test **Test Specification: ASTM-A-615** 

Gauge Length: 8 inch Sample Type: Def. Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			Ē	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.668	4	0.500	0.20	0.196	6.49	8.74	71610	73070	96340	98300	1.10	8.0	13.8	H#KS- 09
2	0.658	4	0.496	0.20	0.193	6.34	8.53	69920	72460	94090	97500	1.10	8.0	13.8	H#KS- 09
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<u>BE</u>	ND TE	ST:													
	# 4	Samp	le bend	through	n 180 de	grees Sa	atisfactorily	without a	ny crack		Note:	-			
								Only 1							
											Recei	ved a	ind <sup>-</sup>	Γeste	ed .
Note	e: Pleas	se alwa	ys confir	m the r	esults of	above r	eport on w	eb www.u	et-civil.edu	ı.pk					

Muhammad Omar Masud **Test Performed By:** Dr. /Engr. Asad Ali Gillani CEO The Urban Unit Lhr. (Estb Of Govt Cities In Punjab at Quaid-E-Azam Business Park Sheikhpura)

SOM Lab

 Client Reference:
 33352
 Ref:
 911(Page-1/1)

 Dated:
 07-03-2025
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	tress			Ē	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.493	6	0.748	0.44	0.439	13.71	21.20	68730	68880	106280	106520	1.20	8.0	15.0	Unit-I
2	1.474	6	0.743	0.44	0.433	13.53	21.38	67810	68900	107150	108880	1.30	8.0	16.3	Unit-I
3	0.650	4	0.493	0.20	0.191	5.88	8.72	64860	67920	96110	100640	1.30	8.0	16.3	Unit-I
4	0.654	4	0.494	0.20	0.192	5.91	8.79	65200	67920	96900	100930	1.40	8.0	17.5	Unit-I
5	1.489	6	0.747	0.44	0.438	13.58	19.47	68060	68370	97590	98040	1.10	8.0	13.8	Unit-II
6	1.497	6	0.748	0.44	0.440	13.68	19.72	68570	68570	98870	98870	1.20	8.0	15.0	Unit-II
7	0.652	4	0.494	0.20	0.192	6.47	8.89	71380	74360	98020	102110	1.30	8.0	16.3	Unit-II
8	0.660	4	0.497	0.20	0.194	6.57	9.02	72510	74750	99480	102560	1.30	8.0	16.3	Unit-II
-	-	-	-	-	-	-	-	-	-		-	-	ı	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

### **BEND TEST:**

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

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

Metroplan-Asian JV Asian Consulting Engg (Estb Of NSICTR Lahore Phase-1,Pkg-B)

Metroplan Asian JV/NSICTR/RE- SOM Lab

 Client Reference:
 B&C/B/165
 Ref:
 912 (Page-2/2)

 Dated:
 10-03-2025
 Dated:
 10-03-2025

Test: Tension Test & Bend Test Test Specification: ASTM-A-615

Gauge Length: 8 inch Sample Type: Deformed Bar (Kamran Steel)

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.462	6	0.740	0.44	0.430	15.31	20.87	76750	78530	104590	107020	1.20	8.0	15.0	FEB- 88
2	1.463	6	0.740	0.44	0.430	15.11	20.80	75720	77490	104230	106660	1.10	8.0	13.8	FEB- 88
3	0.647	4	0.492	0.20	0.190	6.14	8.10	67670	71230	89370	94070	1.00	8.0	12.5	MAR- 03
4	0.641	4	0.489	0.20	0.188	5.93	7.92	65420	69600	87340	92920	1.00	8.0	12.5	MAR- 03
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
BE	ND TE	ST:													
	# 6	Samp	le bend	through	180 de	grees Sa	tisfactorily	without ar	ny crack		Note:				

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

Uzair Ahmad, ARE

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

Metroplan-Asian JV Asian Consulting Engg (Estb Of NSICTR Lahore Phase-1,Pkg-A&D)

SOM Lab

 Client Reference:
 Metroplan Asian JV/NS-ICTR/RE/25/099
 Ref:
 912 (Page-1/2)

 Dated:
 09-03-2025
 Dated:
 10-03-2025

**Test:** Tension Test & Bend Test **Test Specification**: ASTM-A-615

Gauge Length: 8 inch Sample Type: Deformed Bar (Kamran Steel)

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			n	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.650	8	0.996	0.79	0.779	24.33	33.76	67930	68890	94250	95580	1.50	8.0	18.8	<u> </u>
2	2.639	8	0.994	0.79	0.776	24.06	33.76	67160	68370	94250	95950	1.40	8.0	17.5	
-	-	ı	-	ı	-	-	-	ı	-	ı	-	-	-	-	
-	-	ı	-	ı	-	-	-	ı	-	ı	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<u>BE</u>	ND TE	ST:													
į	# 8	Samp	le bend	through	า 180 de	grees Sa	atisfactorily	without a	ny crack		Note:	-			
											Only 1				
											Necel	veu a	IIIU	เ ธอเธ	u
									et-civil.edu						

M. Jameel **Test Performed By:** Dr. /Engr. Asad Ali Gillani 40-C-III Gulberg III Lahore.

**SOM Lab** 

 Client Reference:
 Nil
 Ref:
 913 (Page-2/3)

 Dated:
 Nil
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:MS Deformed Bar

			\:			Yield	Ultimate	Viola	Ctross	1114 C	`4====				
S.No.	Weight	Nominal	.ai Calculated	Nominal	Calculated Ba	Load	Load	(according to nominal area)	(according to same measured area)	(according to nominal area)	(according to % measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.492	6	0.747	0.44	0.438	13.27	18.47	66530	66830	92590	93010	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BE	ND TE	ST:													
	# 6	Samp	le bend	througl	n 180 de	grees Sa		Note:	-						
											Only 1				
								Recei	ved a	ind <sup>-</sup>	Γeste	d			

M. Jameel **Test Performed By:** Dr. /Engr. Asad Ali Gillani 40-C-III Gulberg III Lahore.

**SOM Lab** 

 Client Reference:
 Nil
 Ref:
 913 (Page-3/3)

 Dated:
 Nil
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:MS Deformed Bar

		D	Dia.	А	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			_	
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.575	4	0.464	0.20	0.169	5.32	7.54	58680	69440	83180	98440	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BE	ND TE	ST:													
:	# 4	Samp	le bend	througl	า 180 de	grees Sa	atisfactorily	without a	ny crack		Note:	-			
								Only 1							
											Recei				d

M. Jameel **Test Performed By:** Dr. /Engr. Asad Ali Gillani 40-C-III Gulberg III Lahore.

SOM Lab

 Client Reference:
 Nil
 Ref:
 913 (Page-1/3)

 Dated:
 Nil
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:MS Deformed Bar

		р	 )ia.	A	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress				
S.No.	Weight	Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.628	8	0.991	0.79	0.772	24.74	33.97	69070	70680	94820	97030	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BE	ND TE	ST:													
	# 8	Samp	le bend	through	n 180 de	grees Sa		Note:	-						
								Only 1	Γως 9	Sami	nles				
											Recei				d
		Trocolived and Tooled													

Sub Divisional Officer Test Performed By: Dr. /Engr. Asad Ali Gillani

BSD-No.2 Gujranwala.(Estb Of University of Gujranwala Group No.02)

**SOM Lab** 

 Client Reference:
 522/G-21
 Ref:
 914 (Page-1/1)

 Dated:
 18-12-2024
 Dated:
 10-03-2025

Test:Tension Test & Bend TestTest Specification:ASTM-A-615Gauge Length:8 inchSample Type:Deformed Bar

S.No.	Weight	Dia.		Area		Yield	Ultimate	Yield Stress		Ult. Stress				Ē	
		Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.599	8	0.986	0.79	0.764	25.64	32.79	71570	74010	91550	94670	1.60	8.0	20.0	
2	2.672	8	1.000	0.79	0.785	26.81	35.19	74850	75320	98240	98860	1.50	8.0	18.8	
3	1.476	6	0.743	0.44	0.434	14.73	19.06	73830	74860	95550	96870	1.30	8.0	16.3	
4	1.478	6	0.743	0.44	0.434	14.80	19.01	74190	75220	95290	96610	1.60	8.0	20.0	
5	0.659	4	0.497	0.20	0.194	6.83	8.74	75320	77650	96340	99310	1.10	8.0	13.8	
6	0.665	4	0.498	0.20	0.195	7.36	9.33	81160	83240	102860	105490	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
-	-	ı	-	-	-	-	-	-	1	-	-	ı	-	-	
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-	-	ı	-	-	-	ı	-	-	ı	-	ı	ı	-	-	
BE	BEND TEST:														

 No Bend test performed	Note:-					
	Only Six Samples					
	Received and Tested					

Resident Engineer (GB Zone) **Test Performed By:** Dr. /Engr. Asad Ali Gillani EPHE Div Nespak,Lhr.(Provision Of W/Supply & Sewerage System in UC-50 Gunj Baksh Zone Lhr)

SOM Lab

 Client Reference:
 LDP/GB-WASA/43101/364
 Ref:
 916 (Page-1/1)

 Dated:
 05-03-2025
 Dated:
 10-03-2025

**Test:** Tension Test & Bend Test **Test Specification**: ASTM-A-615

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

Gauge Length: 8 inch Sample Type: Deformed Bar (Aziz Steel)

	Weight	Dia.		Area		Yield	Ultimate	Yield Stress		Ult. Stress				_		
S.No.		Nominal	Calculated	Nominal	Calculated	Load	Load	(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)	Elongation	Gauge Length	%age Elongation	Remarks	
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%		
1	1.498	6	0.748	0.44	0.440	13.61	21.68	68210	68210	108680	108680	1.40	8.0	17.5		
2	1.495	6	0.748	0.44	0.439	13.30	21.61	66680	66830	108320	108570	1.50	8.0	18.8		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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-	ı	ı	-	-	•	=	ı	ı	-	-	ı	-	ı	-		
BE	ND TE	ST:														
;	# 6	Sample bend through 180 degrees Satisfactorily without any crack								Note:-						
												Only Three Samples				
									Received and Tested							