SOM Lab Ref: CED/SOM/1157 **Dated:** 05-05-2025

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

M.Hassan Khan

Resident Engineer

NESPAK (Pvt.) Ltd.

(Scheme # 11 Rehb/Improvement Of Ehsan Road Faiz Bagh Shahi Road Macca Chowk to Khushi Marriage Ghulam Hussain Park Road Shalamar Zone MCL)

This is with reference to your above-mentioned letter and SOM receipt No.1157 dated: 05-05-2025. 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
640 mm	71.0 mm	11600 kg	The sample was cracked at this load

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

Civil Engineer Klash Pvt Ltd Faisalabad.

SOM Lab

 Client Reference:
 Nil
 Ref:
 1156 (Page-1/1)

 Dated:
 05-05-2025
 Dated:
 05-05-2025

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

		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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.625	8	0.991	0.79	0.771	24.92	34.66	69580	71300	96760	99140	1.20	8.0	15.0	
2	2.623	8	0.991	0.79	0.771	25.08	34.63	70010	71730	96670	99060	1.50	8.0	18.8	
3	1.482	6	0.745	0.44	0.436	13.53	18.93	67810	68430	94880	95760	1.40	8.0	17.5	
4	1.481	6	0.744	0.44	0.435	13.32	18.91	66780	67550	94780	95870	1.40	8.0	17.5	
5	0.666	4	0.500	0.20	0.196	6.09	8.46	67110	68480	93300	95200	1.20	8.0	15.0	
6	0.674	4	0.502	0.20	0.198	6.03	8.61	66550	67220	94990	95950	1.40	8.0	17.5	
-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	
-	-	-	-	1	-	-	-	-	1	-	-	-	ı	-	
-	-	-	-	-	-	-	-	-	-	-	=	-	-	-	
-	-	-	-	1	-	-	-	-	ı	-	-	-	ı	-	
															_

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

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

Site Engineer Park Diamond Vista Lahore.

SOM Lab

 Client Reference:
 Nil
 Ref:
 1158 (Page-1/1)

 Dated:
 05-05-2025
 Dated:
 05-05-2025

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.424	6	0.730	0.44	0.418	15.36	20.66	77000	81050	103570	109020	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	•	ı	-	ı	ı	-	ı	ı	-	-	
-	-	ı	-	-	•	ı	-	ı	ı	-	ı	ı	-	-	
-	-	ı	-	-	•	ı	-	ı	ı	-	ı	ı	-	-	
-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	ı	ı	-	ı	ı	-	-	
-	-	ı	-	-	•	ı	ı	ı	ı	-	ı	ı	-	-	
BE	ND TE	ST:													

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

Muhammad Shabbir Sandhu, ME **Test Performed By:** Dr. /Engr. Asad Ali Gillani

NESPAK,EPCM Consul Swl.(Trunk Main Sewer Lines And Allied Work)(Lot-02)

SOM Lab

Client Reference: 3976/11/MSS/SWL/Lot-02/02/1245 Ref: 1159 (Page-1/1) Dated: 05-05-2025

Dated: 23-04-2025

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

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

		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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.631	4	0.485	0.20	0.185	6.07	8.21	66890	72310	90490	97830	0.90	8.0	11.3	
2	0.628	4	0.485	0.20	0.185	6.03	8.07	66550	71940	89030	96250	1.00	8.0	12.5	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	ı	-	ı	ı	1	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-				
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	ı	-	1	ı	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ΒE	ND TE	ST:													
	# 4	Samp	le bend	through	180 de	grees Sa	atisfactorily	without a	ny crack		Note:	-			
								Only 1 Recei							
Vot	e: Pleas	se always confirm the results of above report on web www.uet-civil.edu.pk													

Muhammad Shabbir Sandhu,ME **Test Performed By:** Dr. /Engr. Asad Ali Gillani

NESPAK, EPCM Consul Swl. (Trunk Main Sewer, Effluent Pumping Station And Allied Work) (Lot-03)

SOM Lab

 Client Reference:
 3976/11/MSS/SWL/Lot-03/01/1282
 Ref:
 1160 (Page-1/1)

 Dated:
 02-05-2025
 Dated:
 05-05-2025

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

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

		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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.628	8	0.991	0.79	0.772	18.88	28.80	52710	53940	80400	82270	2.10	8.0	26.3	
2	2.588	8	0.984	0.79	0.761	20.10	29.33	56120	58260	81880	85000	1.10	8.0	13.8	
3	1.459	6	0.739	0.44	0.429	13.68	19.34	68570	70330	96930	99410	1.00	8.0	12.5	
4	1.474	6	0.743	0.44	0.433	13.20	18.83	66170	67240	94370	95900	1.10	8.0	13.8	
5	0.639	4	0.489	0.20	0.188	6.95	8.87	76660	81560	97800	104040	0.80	8.0	10.0	
6	0.639	4	0.489	0.20	0.188	7.24	9.04	79810	84910	99710	106070	0.80	8.0	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BE	ND TE	ST:													

# 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

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

Nespak-RHC (JV) Rajanpur.(Const Of VR Bridge Of Main Qutab Drain)

SOM Lab

Client Reference: 4688/13/MAB/03/56 Ref: 1161 (Page-1/1) Dated: 05-05-2025

Dated: 02-05-2025

Tension Test & Bend Test

Test:

Test Specification: ASTM-A-615

Gauge Length: 8 inch Sample Type: Deformed Bar (AF 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.669	8	0.999	0.79	0.784	22.83	34.93	63750	64240	97530	98270	1.10	8.0	13.8	
2	2.673	8	1.000	0.79	0.786	22.12	33.74	61760	62070	94200	94680	1.30	8.0	16.3	
3	1.509	6	0.751	0.44	0.443	14.17	18.93	71020	70540	94880	94240	1.20	8.0	15.0	
4	1.518	6	0.754	0.44	0.446	14.37	19.24	72050	71080	96420	95120	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	6.85	8.74	75540	76690	96340	97800	1.20	8.0	15.0	
6	0.670	4	0.501	0.20	0.197	6.70	8.63	73850	74980	95210	96660	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- DE	ND TE	<u> </u>													

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

PHE Sub Div Faisalabad.(Pump House Of Water Supply Scheme Chak No.275/RB)

SOM Lab

 Client Reference:
 23

 Dated:
 15-02-2025

 Ref:
 1162 (Page-1/1)

 Dated:
 05-05-2025

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

		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.642	4	0.491	0.20	0.189	5.32	7.87	58680	62100	86780	91830	1.00	8.0	12.5	
2	0.588	4	0.469	0.20	0.173	5.91	9.17	65200	75370	101170	116960	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	ı	ı	ı	-	ı	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	ı	ı	ı	-	ı	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BE	ND TE	<u>ST:</u>													
		No Be	end test	perforr	med				Note:	-					
										Only T Receiv				ما ا	

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

PM AF Builders Lahore.(Boundary Wall and Select Shop Store Room at Dera Okara FS)

SOM Lab

 Client Reference:
 Nil
 Ref:
 1163 (Page-1/1)

 Dated:
 05-05-2025
 Dated:
 05-05-2025

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

Gauge Length: 8 inch Sample Type: Deformed Bar (Mughal Supreme)

	•						•	•			,	Ū		•	,
		D	ia.	Α	rea	Yield	Ultimate	Yield	Stress	Ult. S	Stress			u	
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.663	4	0.498	0.20	0.195	7.08	8.97	78130	80130	98920	101460	1.10	8.0	13.8	
2	0.665	4	0.498	0.20	0.195	6.98	8.89	77000	78980	98020	100530	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	-	ı	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	-	ı	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BE	ND TE	ST:													
:	# 4	Samp	le bend	througl	า 180 de	grees Sa	atisfactorily	without a	ny crack		Note:	•			
								Only T Receiv							
Note	e: Pleas	e alwa	ys confir	m the r	esults of	f above r	eport on w	eb www.u	et-civil.edu	ı.pk					