

Engr. Farrukh Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

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

Client Reference: HRLE/SKG/2024/Kamran/174

SOM Lab Ref:

146 (P-1/1)

Dated: 02-11-2024

Dated:

04-11-2024

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.085	22	22.37	387	393	245.00	308.00	633	624	796	784	27.5	200	13.8	
2	3.084	22	22.37	387	393	182.50	252.20	472	465	652	642	45.0	200	22.5	
3	1.574	16	15.98	201	200	102.50	140.00	510	512	697	699	25.0	200	12.5	
4	1.580	16	16.01	201	201	97.50	134.00	485	485	667	666	27.5	200	13.8	
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BEND TEST:

22mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
16mm	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 No.: MMP/MCO/PCP/330/2024
2024

Dated: 31-10-

SOM Lab Ref: CED/SOM/148
04-11-2024

Dated:

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

Resident Engineer

PCP Pkg-V Okara, MM Pakistan

(Providing and Fixing RPC Manhole Cover)

This is with reference to your above-mentioned letter and SOM receipt No. 148 dated: 04-11-2024. The sample of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Weight	Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
50.0 Kg	635	70mm	14100 kg	Manhole Cover was cracked at this load

Farid Masood
GM-Technical Gharibwal Cement Ltd.Lahore

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

Client Reference: GCL/Purchase/UET/TEST/004

Dated: 02-11-2024

SOM Lab Ref: CED/SOM/144 (Page-1/1)

Dated: 04-11-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	2.449	20	19.93	314	312	161.00	210.50	512	517	670	675	32.5	200	16.3	
2	2.414	20	19.79	314	307	158.00	207.00	503	514	659	674	35.0	200	17.5	
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BEND TEST:

20mm	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

Tahawar Owais

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM DSG Energy Lahore.(Const Of Office Building at 29-M QIE,Lahore)

Client Reference: Nil

SOM Lab

Ref: 142 (Page-1/1)

Dated: 04-11-2024

Dated: 04-11-2024

Test: Tension Test & Bend 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	2.694	8	1.004	0.79	0.792	25.59	34.81	71430	71250	97190	96940	1.50	8.0	18.8	
2	2.669	8	0.999	0.79	0.784	25.99	34.76	72570	73130	97040	97790	1.40	8.0	17.5	
3	1.479	6	0.744	0.44	0.435	13.86	18.65	69490	70290	93510	94580	1.50	8.0	18.8	
4	1.488	6	0.746	0.44	0.437	14.75	19.27	73940	74440	96570	97230	1.50	8.0	18.8	
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BEND TEST:

# 8	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

Zahid Mughal

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Amanah Estate Pvt Ltd. M/S Amanah Noor Residence Wapda Town, Lahore.

Client Reference: Nil

SOM Lab

Ref:

143 (Page-1/1)

Dated: Nil

Dated:

04-11-2024

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	1.553	6	0.762	0.44	0.456	17.13	22.94	85840	82830	114960	110930	1.10	8.0	13.8	
2	1.526	6	0.755	0.44	0.448	16.51	22.19	82780	81300	111230	109250	1.00	8.0	12.5	
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Witnessed By: M.Arslan Khaleel, Naveed Malik (SJ Steel)

BEND TEST:

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

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

Jawad Qayyum Khan,RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

NESPAK (4376) Sargodha. (Const Of Flyover at 47/Pull Length 4400 RFT in Distt Sargodha)

Client Reference: 4376/JQK/24/7057

SOM Lab

Ref: 145 (Page-1/1)

Dated: 02-10-2024

Dated: 04-11-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Sheikhoo 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	2.640	8	0.994	0.79	0.776	24.97	34.17	69720	70980	95390	97110	1.50	8.0	18.8	
2	2.642	8	0.994	0.79	0.776	25.28	34.30	70580	71850	95760	97490	1.60	8.0	20.0	
3	1.477	6	0.743	0.44	0.434	13.91	19.18	69750	70710	96160	97490	1.30	8.0	16.3	
4	1.478	6	0.743	0.44	0.434	13.97	19.27	70000	70970	96570	97910	1.30	8.0	16.3	
5	0.664	4	0.498	0.20	0.195	6.54	8.87	72170	74020	97800	100300	1.40	8.0	17.5	
6	0.662	4	0.498	0.20	0.195	6.57	8.92	72510	74360	98360	100880	1.40	8.0	17.5	
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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

Mehmood & Saeed
Lahore

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

Client Reference: Nil

SOM Lab

Ref: 147 (Page-1/1)

Dated: Nil

Dated: 04-11-2024

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	2.546	8	0.976	0.79	0.748	20.71	29.82	57830	61080	83240	87910	1.30	8.0	16.3	
2	2.502	8	0.967	0.79	0.735	20.44	29.43	57060	61330	82160	88310	1.40	8.0	17.5	
3	1.552	6	0.762	0.44	0.456	14.22	19.47	71280	68780	97590	94170	1.30	8.0	16.3	
4	1.552	6	0.762	0.44	0.456	14.53	19.85	72810	70260	99480	95990	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	6.65	8.36	73290	74790	92180	94060	1.00	8.0	12.5	
6	0.661	4	0.497	0.20	0.194	6.57	8.36	72510	74750	92180	95030	1.00	8.0	12.5	
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BEND TEST:

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

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