

November 2020 Interest Rates																										
Issue Date	Amount of Debt			Comparable Treasury				CDC Fee	0.625 1.000 0.625 1.000 0.625 1.000 0.625 1.000 0.625 1.000								0.625 1.000 0.625 1.000 0.625 1.000 0.625 1.000 0.625 1.000									
	Debt	Borrower	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)		Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	Rate (%)	
																										Spread Over Treasury
10-Year Debentures																										
Jan 18	12,628	2.55	2.64746	2.33	0.22	5.091	5.643	5.057	5.608	4.738	5.289	4.657	5.208	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar 18	15,380	3.00	3.11270	2.63	0.37	N/A	N/A	5.510	N/A	5.192	5.741	5.112	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.242	N/A	5.171	N/A	N/A	N/A	N/A
May 18	22,720	3.18	3.29883	2.81	0.37	5.730	6.278	5.695	6.244	5.378	5.927	5.298	5.847	N/A	N/A	N/A	N/A	N/A	N/A	5.428	N/A	5.356	5.905	N/A	N/A	N/A
Jul 18	9,642	3.19	3.30867	2.73	0.46	5.732	N/A	5.698	6.245	5.382	5.929	5.302	5.848	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.360	5.907	N/A	N/A	N/A
Sept 18	14,550	3.14	3.25713	2.76	0.38	N/A	6.230	5.649	6.196	5.332	5.879	5.252	5.799	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nov 18	7,101	3.47	3.59817	3.07	0.40	N/A	N/A	5.987	N/A	5.670	N/A	5.590	6.137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.649	N/A	N/A	N/A	N/A
Jan 19	11,713	2.95	3.06111	2.54	0.41	5.496	N/A	N/A	N/A	5.144	5.693	5.064	5.613	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar 19	11,198	2.92	3.02985	2.45	0.47	N/A	N/A	N/A	N/A	5.110	5.658	5.029	5.578	4.628	5.177	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
May 19	10,911	2.66	2.76116	2.22	0.44	N/A	N/A	5.166	N/A	4.848	5.398	4.767	5.317	4.365	4.915	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.955	N/A	N/A
Jul 19	11,268	2.24	2.32656	1.84	0.40	N/A	N/A	4.742	5.295	4.422	4.975	4.341	4.894	3.937	4.490	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.977	N/A	N/A	N/A
Sept 19	15,751	1.88	1.95324	1.45	0.43	N/A	N/A	N/A	N/A	4.048	4.600	3.967	4.519	3.563	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.603	N/A	N/A	N/A
Nov 19	9,452	2.24	2.32630	1.71	0.53	N/A	N/A	N/A	N/A	4.048	4.600	3.967	4.519	3.563	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.603	N/A	N/A	N/A
Jan 20	10,182	2.18	2.26433	1.68	0.50	N/A	N/A	N/A	N/A	4.359	N/A	4.278	4.830	3.874	4.426	3.804	4.356	N/A	N/A	N/A	N/A	N/A	3.914	4.466	N/A	N/A
Mar 20	11,504	1.25	1.29979	0.68	0.57	N/A	N/A	3.726	N/A	N/A	N/A	3.324	3.879	2.918	N/A	2.847	N/A	N/A	N/A	N/A	N/A	N/A	2.958	N/A	N/A	N/A
May 20	17,195	1.06	1.10255	0.35	0.71	N/A	N/A	N/A	N/A	3.213	N/A	3.132	N/A	2.725	3.282	2.654	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jul 20	18,005	0.81	0.84288	0.29	0.52	N/A	N/A	N/A	N/A	N/A	N/A	2.878	3.437	2.470	3.029	2.400	2.958	N/A	N/A	N/A	N/A	N/A	N/A	2.402	N/A	N/A
Sept 20	39,162	0.70	0.72851	0.29	0.41	N/A	N/A	3.173	N/A	2.849	N/A	2.767	3.326	2.358	2.918	2.288	2.847	N/A	N/A	N/A	N/A	N/A	N/A	2.290	N/A	N/A
Nov 20	10,998	0.65	0.67947	0.33	0.32	N/A	N/A	N/A	N/A	N/A	N/A	2.709	3.267	2.302	2.859	2.231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.233	2.791	N/A
20-Year Debentures																										
Jan 18	265,812	2.92	2.96978	2.56	0.36	5.002	5.461	4.974	5.432	4.708	5.167	4.641	5.100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.750	5.148	N/A	N/A	N/A	N/A
Feb 18	324,595	3.22	3.27350	2.87	0.35	5.300	5.757	5.272	5.729	5.007	5.464	4.940	5.397	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.048	5.506	4.989	5.446	N/A	N/A
Mar 18	282,611	3.20	3.25328	2.85	0.35	5.281	5.738	5.252	5.709	4.987	5.445	4.920	5.378	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.029	N/A	4.969	N/A	N/A	N/A
Apr 18	329,067	3.31	3.36454	2.82	0.49	5.389	5.845	5.360	5.817	5.096	5.552	5.029	5.486	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.137	N/A	5.078	N/A	N/A	N/A
May 18	375,113	3.50	3.55703	2.96	0.54	5.582	6.038	5.553	6.010	5.289	5.745	5.222	5.678	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.330	5.787	5.270	5.727	N/A	N/A
June 18	307,029	3.60	3.65812	2.97	0.63	5.680	6.136	5.651	6.107	5.387	5.843	5.320	5.776	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.369	5.825	N/A	N/A	N/A	N/A
Jul 18	263,122	3.54	3.59736	2.83	0.71	5.618	6.074	5.590	6.046	5.326	5.782	5.259	5.715	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.643	N/A	5.308	5.764	N/A	N/A
Aug 18	344,334	3.58	3.63801	2.94	0.64	5.661	N/A	5.632	6.089	5.368	5.824	5.301	5.758	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.410	N/A	5.350	N/A	N/A
Sept 18	278,852	3.53	3.58727	2.89	0.64	5.609	6.065	5.580	6.037	5.317	5.773	5.250	5.706	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.298	5.754	N/A	N/A	N/A
Oct 18	259,791	3.77	3.83031	3.18	0.59	5.852	6.308	5.823	6.279	5.559	6.015	5.492	5.948	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.541	5.997	N/A	N/A	N/A
Nov 18	248,506	3.87	3.93129	3.22	0.65	5.950	6.405	5.921	6.376	5.658	6.113	5.591	6.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.640	6.095	N/A	N/A	N/A
Dec 18	244,169	3.54	3.59728	2.84	0.70	5.619	N/A	5.590	6.046	5.327	5.783	5.260	5.716	4.926	5.382	N/A	N/A	N/A	N/A	N/A	N/A	5.308	N/A	N/A	N/A	N/A
Jan 19	231,767	3.37	3.42549	2.71	0.66	5.452	5.909	5.423	N/A	5.159	5.616	5.092	5.549	4.758	5.215	N/A	N/A	N/A	N/A	N/A	N/A	5.140	N/A	4.791	N/A	N/A
Feb 19	129,980	3.26	3.31400	2.67	0.59	5.340	5.797	5.311	5.768	5.047	5.504	4.980	5.437	4.646	5.103	N/A	N/A	N/A	N/A	N/A	N/A	5.029	N/A	4.679	N/A	N/A
Mar 19	177,872	3.20	3.25325	2.65	0.55	5.280	5.737	5.251	N/A	4.987	5.444	4.920	5.377	4.586	5.043	N/A	N/A	N/A	N/A	N/A	N/A	5.028	N/A	4.969	N/A	4.619
Apr 19	199,341	2.98	3.03050	2.49	0.49	5.063	N/A	5.034	5.492	4.769	5.227	4.701	5.160	4.367	4.825	N/A	N/A	N/A	N/A	N/A	N/A	4.750	5.209	4.400	N/A	N/A
May 19	196,908	2.88	2.92913	2.43	0.45	4.962	5.420	4.933	5.391	4.668	5.126	4.600	5.059	4.265	4.724	N/A	N/A	N/A	N/A	N/A	N/A	4.649	N/A	4.298	N/A	N/A
June 19	166,575	2.60	2.64515	2.10	0.50	4.680	5.139	4.651	5.110	4.385	4.844	4.318	4.777	3.983	4.442	N/A	N/A	N/A	N/A	N/A	N/A	4.367	N/A	4.016	N/A	N/A
Jul 19	170,991	2.53	2.57428	2.08	0.45	4.613	N/A	4.584	5.044	4.318	4.778	4.251	4.710	3.914	4.374	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.948	4.407	N/A	N/A
Aug 19	143,948	2.15	2.18861	1.76	0.39	4.231	N/A	4.202	4.663	3.936	4.396	3.868	4.329	3.531	3.992	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.565	4.025	N/A	N/A
Sept 19	166,223	1.98	2.01594	1.58	0.40	4.059	N/A	4.030	4.491	3.764	4.224	3.696	4.151	3.359	3.820	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.392	N/A	N/A	N/A
Oct 19	175,585	2.08	2.11756	1.64	0.44	4.162	N/A	4.133	4.594	3.866	4.328	3.799	4.260	3.462	3.923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.495	N/A	N/A	N/A
Nov 19	170,895	2.36	2.40171	1.90	0.46	4.440	N/A	4.412	4.872	4.146	4.605	4.078	4.538	3.742	4.202	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.775	N/A	N/A	N/A
Dec 19	146,641	2.26	2.30019	1.81	0.45	4.339	N/A	4.310	N/A	4.044	4.504	3.977	4.437	3.641	4.101	3.582	N/A	N/A	N/A	N/A	N/A	N/A	3.674	N/A	3.584	N/A
Jan 20	113,379	2.32	2.36123	1.89	0.43	4.402	N/A	4.373	N/A	4.106	4.567	4.039	4.499	3.703	4.163	3.644	4.105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.646	N/A
Feb 20	87,102	2.07	2.10726	1.66	0.41	N/A	N/A	4.121	N/A	3.854	4.315	3.787	4.247	3.450	3.911	3.392	3.852	N/A	N/A	N/A	N/A	N/A	N/A	3.483	3.944	3.394
Mar 20	111,375	1.49	1.51808	0.94	0.55	3.569	N/A	3.540	4.002	3.272	3.735	3.204	3.667	2.866	3.329	2.808	3.270	N/A	N/A	N/A	N/A	N/A	N/A	2.900	N/A	2.810
Apr 20	141,823	1.64	1.67056	0.75																						