

January 2020 Interest Rates

Issue Date	Amount of Debentures (\$0)	Debtenture Rate (%)	Note Rate (%)	Comparable Treasury Market Rate (%)	Spread Over Treasury Rate (%)	CDC Fee Borrower Fee CSA 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
							0.9375	0.9375	0.914	0.914	0.697	0.697	0.642	0.642	0.368	0.368	0.3205	0.3205	0.958	0.958	0.731	0.731	0.682	0.682
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	
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	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	N/A	N/A	N/A		
July 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	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		
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	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		
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		
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	4.955	N/A		
July 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	3.977	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	3.603	N/A		
Nov 19	9,452	2.24	2.32630	1.71	0.53	N/A	N/A	N/A	N/A	N/A	N/A	4.336	4.888	3.933	4.485	N/A	N/A	N/A	N/A	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	3.914	4.466	
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	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	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	N/A	N/A		
April 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	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	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	N/A	N/A		
July 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	5.643	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	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	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	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	N/A		
Dec 18	244,169	3.54	3.59738	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	N/A		
Jan 19	231,767	3.37	3.42549	2.71	0.66	5.452	5.909	5.423	5.914	5.159	5.616	5.092	5.549	4.758	5.215	N/A	N/A	N/A	N/A	N/A	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	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	N/A		
April 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	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	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	N/A		
July 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		
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		
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	4.157	3.359	3.820	N/A	N/A	N/A	N/A	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		
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		
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	3.674		
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		
25-Year Debentures																								
July 18	27,536	3.68	3.72405	2.83	0.85	N/A	N/A	N/A	N/A	N/A	N/A	5.320	5.758	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Aug 18	29,238	3.71	3.75439	2.94	0.77	N/A	N/A	N/A	N/A	N/A	N/A	5.351	5.789	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sept 18	58,273	3.65	3.69390	2.89	0.76	N/A	N/A	N/A	N/A	N/A	N/A	5.290	5.728	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Oct 18	79,913	3.89	3.93581	3.18	0.71	N/A	N/A	N/A	N/A	N/A	N/A	5.532	5.969	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Nov 18	67,600	4.00	4.04654	3.22	0.78	N/A	N/A	N/A	N/A	N/A	N/A	5.640	6.077	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dec 18	80,771	3.67	3.71400	2.84	0.83	N/A	N/A	N/A	N/A	N/A	N/A	5.310	5.748	4.990	5.428	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Jan 19	110,764	3.56	3.60326	2.71	0.85	N/A	N/A	N/A	N/A	N/A	N/A	5.202	5.641	4.881	5.320	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Feb 19	65,157	3.45	3.49226	2.67	0.78	N/A	N/A	N/A	N/A	N/A	N/A	5.091	5.530	4.771	5.209	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Mar 19	97,699	3.42	3.46217	2.65	0.77	N/A	N/A	N/A	N/A	N/A	N/A	5.061	5.500	4.741	5.179	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
April 19	170,006	3.21	3.25030	2.49	0.72	N/A	N/A	N/A	N/A	N/A	N/A	4.853	5.293	4.532	4.971	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
May 19	106,904	3.07	3.10911	2.43	0.64	N/A	N/A	N/A	N/A	N/A	N/A	4.712	5.152	4.391	4.831	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
June 19	146,463	2.77	2.80620	2.10	0.67	N/A	N/A	N/A	N/A	N/A	N/A	4.412	4.852	4.090	4.530	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
July 19	151,285	2.69	2.72547	2.08	0.61	N/A	N/A	N/A	N/A	N/A	N/A	4.333	4.775	4.011	4.452	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Aug 19	166,643	2.31	2.34147	1.76	0.55	N/A	N/A	N/A	N/A	N/A	N/A	3.953	4.395	3.630	4.072	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sept 19	203,390	2.14	2.16957	1.58	0.56	N/A	N/A	N/A	N/A	N/A	N/A	3.781	4.224	3.458	3.901	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Oct 19	197,524	2.22	2.25050	1.64	0.58	N/A	N/A	N/A	N/A	N/A	N/A	3.863	4.306	3.540	3.982	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Nov 19	193,350	2.48	2.51323	1.90	0.58	N/A	N/A	N/A	N/A	N/A	N/A	4.122	4.563	3.800	4.241	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dec 19	196,112	2.38	2.41219	1.81	0.57	N/A	N/A	N/A	N/A	N/A	N/A	4.021	4.463	3.699	4.140	3.643	4.084	N/A	N/A	N/A	N/A	N/A		
Jan 20	207,215	2.45	2.48308	1.89	0.56	N/A	N/A	N/A	N/A	N/A	N/A	4.093	4.535	3.770	4.212	3.714	4.156	N/A	N/A	N/A	N/A	3.802		