

November 2021 Interest Rates

Issue Date	Amount of Debentures (\$0)	Debtenture Rate (%)	Note Rate (%)	Spread Over Treasury Rate (%)	CDC Fee Borrower Fee	Comparable Treasury Rate (%)		Spread Over Treasury Rate (%)		CDC Fee		1.000		1.000		1.000		1.000		1.000		1.000		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	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	0.4517	0.4517	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
10-Year Debentures																													
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	N/A	N/A	N/A	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	N/A	N/A	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	N/A		
July 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	N/A	N/A	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	N/A	N/A	N/A	N/A		
Nov 20	10,998	0.65	0.67647	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	N/A	N/A	N/A	N/A		
Jan 21	4,135	0.67	0.69727	0.46	0.21	N/A	N/A	N/A	N/A	N/A	N/A	2.733	N/A	2.325	2.883	2.254	N/A	2.450	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Mar 21	9,478	0.91	0.94684	0.79	0.12	N/A	N/A	N/A	N/A	N/A	N/A	2.983	N/A	2.575	N/A	2.504	3.063	2.700	3.258	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
May 21	12,001	0.84	0.87394	0.79	0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.056	2.428	2.985	2.623	3.180	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
July 21	9,501	0.82	0.85320	0.74	0.08	N/A	N/A	N/A	N/A	N/A	N/A	2.887	N/A	2.480	N/A	2.409	2.967	2.604	3.162	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sept 21	12,821	0.90	0.93642	0.81	0.09	N/A	N/A	N/A	N/A	N/A	N/A	3.528	2.563	N/A	2.492	3.050	2.687	3.245	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Nov 21	16,778	1.31	1.36226	1.18	0.13	N/A	N/A	N/A	N/A	N/A	N/A	3.392	N/A	N/A	N/A	2.914	3.471	3.109	3.666	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
20-Year Debentures																													
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	N/A	N/A	N/A		
Feb 20	87,102	2.07	2.10736	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	N/A	N/A	N/A	N/A		
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	N/A	N/A	N/A	N/A		
April 20	141,823	1.64	1.67056	0.75	0.89	3.721	4.184	3.692	4.155	3.425	3.887	3.357	3.819	3.019	3.481	2.960	3.423	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
May 20	127,470	1.37	1.39601	0.69	0.68	3.450	3.913	3.421	3.884	3.153	N/A	3.085	3.548	2.746	3.209	2.688	3.151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
June 20	162,340	1.21	1.23325	0.67	0.54	3.292	N/A	3.263	3.727	2.994	3.458	2.926	3.390	2.587	3.051	2.528	2.992	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
July 20	121,029	1.03	1.05033	0.64	0.39	N/A	N/A	3.081	3.546	2.812	3.277	2.744	3.209	2.405	2.869	2.346	2.810	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Aug 20	101,964	0.90	0.91764	0.51	0.39	N/A	N/A	2.949	3.414	2.680	3.145	2.612	3.077	2.272	2.737	2.214	2.678	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sept 20	344,162	1.05	1.07039	0.71	0.34	N/A	N/A	3.102	N/A	2.833	3.298	2.765	3.229	2.425	2.890	2.366	2.831	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Oct 20	23,902	1.08	1.10090	0.78	0.30	N/A	N/A	3.131	N/A	N/A	3.226	2.794	3.258	2.454	2.919	2.396	2.860	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Nov 20	46,133	1.05	1.07034	0.77	0.28	N/A	N/A	N/A	N/A	N/A	3.294	2.762	3.226	2.423	2.887	2.364	2.828	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dec 20	79,404	1.11	1.13145	0.94	0.17	3.191	N/A	N/A	N/A	2.893	N/A	2.825	3.290	2.485	2.950	2.427	2.891	2.589	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Jan 21	50,211	1.18	1.20277	1.08	0.10	N/A	N/A	3.230	N/A	2.962	3.426	2.894	3.358	2.555	3.019	2.496	2.960	2.658	3.122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Feb 21	60,207	1.24	1.26377	1.15	0.09	N/A	N/A	N/A	3.024	N/A	2.956	3.420	2.617	3.081	2.558	3.022	2.720	3.185	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Mar 21	57,071	1.52	1.54858	1.54	-0.02	N/A	N/A	3.573	4.036	3.305	3.768	3.237	3.700	2.899	3.362	2.840	N/A	3.002	3.465	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
April 21	59,703	1.54	1.56902	1.64	-0.10	N/A	N/A	N/A	3.324	3.787	3.256	3.719	2.918	3.381	2.859	3.322	3.021	3.484	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
May 21	63,539	1.37	1.39601	1.56	-0.19	N/A	N/A	N/A	3.152	N/A	3.084	3.547	2.746	3.209	2.687	3.150	2.849	3.312	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
June 21	70,555	1.29	1.31461	1.49	-0.20	N/A	N/A	3.342	N/A	3.074	3.538	3.006	3.470	2.667	3.131	2.608	3.072	2.770	3.234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
July 21	90,067	1.22	1.24338	1.29	-0.07	N/A	N/A	3.271	N/A	3.003	N/A	2.934	3.398	2.596	3.059	2.537	3.001	2.699	3.163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Aug 21	68,384	1.27	1.29425	1.20	0.07	N/A	N/A	N/A	N/A	N/A	3.515	2.983	N/A	2.645	3.108	2.586	3.049	2.748	3.211	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sept 21	83,523	1.38	1.40620	1.33	0.05	N/A	N/A	N/A	N/A	3.164	3.627	3.096	N/A	2.757	N/A	2.698	3.162	2.860	3.324	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Oct 21	71,529	1.54	1.56884	1.56	-0.02	N/A	N/A	N/A	N/A	3.323	N/A	3.255	3.718	2.917	3.380	2.859	3.321	3.021	3.483	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Nov 21	96,582	1.55	1.57906	1.50	0.05	N/A	N/A	N/A	N/A	3.335	N/A	3.267	3.730	2.929	3.392	2.870	3.333	3.032	3.495	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
25-Year Debentures																													
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	N/A	N/A	N/A	N/A	N/A	N/A		
Feb 20	192,791	2.20	2.23024	1.66	0.54	N/A	N/A	N/A	N/A	N/A	N/A	3.842	4.284	3.519	3.961	3.463	3.905	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Mar 20	256,694	1.62	1.64346	0.94	0.68	N/A	N/A	N/A	N/A	N/A	N/A	3.261	3.705	2.937	3.381	2.881	3.325	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
April 20	279,385	1.77	1.79534	0.75	1.02	N/A	N/A	N/A	N/A	N/A	N/A	3.413	3.857	3.089	3.532	3.032	3.476	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
May 20	265,265	1.50	1.52196	0.69	0.81	N/A	N/A	N/A	N/A	N/A	N/A	3.142	3.586	2.817	3.262	2.761	3.205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
June 20	331,334	1.34	1.35995	0.67	0.67	N/A	N/A	N/A	N/A	N/A	N/A	2.983	3.429	2.658	3.103	2.602	3.047	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
July 20	258,237	1.15	1.16740	0.64	0.51	N/A	N/A	N/A	N/A	N/A	N/A	2.792	3.238	2.467	2.913	2.410	2.856	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Aug 20	272,805	1.01	1.02546	0.51	0.50	N/A	N/A	N/A	N/A	N/A	N/A	2.651	3.097	2.325	2.771	2.269	2.715	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Sept 20	900,950	1.15	1.16739	0.71	0.44	N/A	N/A	N/A	N/A	N/A	N/A	2.793	3.239	2.467	2.913	2.410	2.856	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Oct 20	106,646	1.17	1.18764	0.78	0.39	N/A	N/A	N/A	N/A	N/A	N/A	2.812	N/A	2.486	2.932	2.430	2.876	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Nov 20	188,435	1.14	1.15721	0.77	0.37	N/A	N/A	N/A	N/A	N/A	N/A	2.781	N/A	2.455	2.901	2.399	2.844	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dec 20	274,688	1.21	1.22819	0.94	0.27	N/A	N/A	N/A	N/A	N/A	N/A	2.853	3.299	2.527	2.973	2.471	2.916	2.627	3.072	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Jan 21	239,266	1.28	1.29911	1.08	0.20	N/A	N/A	N/A	N/A	N/A	N/A	2.922	3.367	2.597	3.042	2.540	2.985	2.696	3.141	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Feb 21	355,019	1.34	1.36001	1.15	0.19	N/A	N/A	N/A	N/A	N/A	N/A	2.983	3.429	2.658	3.103	2.602	3.047	2.757	3.203	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Mar 21	287,904	1.63	1.65364	1.54	0.09	N/A	N/A	N/A	N/A	N/A	N/A	3.274	N/A	2.949															