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INTEREST RATE AND CURRENCY DERIVATIVES

DAILY MTM REPORT

DAILY SUMMARY FOR: 31/12/2018

Contract Details	Strike	Call / Put	MTM Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest	
Derivatives														
\$ / R	On 31/12/2018	Any day expiry	14.38080	14.38080		14.41020	14.41020		16.10	0.00	37,293,312.00	2,592	0.00	
\$ / R	On 02/01/2019	Any day expiry	14.38210	14.38210		14.41020	14.41020		18.13	0.00	0.00	0	55.00	
\$ / R	On 03/01/2019	Any day expiry	14.38220	14.38220		14.40860	14.40860		18.49	0.00	0.00	0	0.00	
\$ / R	On 03/01/2019	Any day expiry	13.57	Put	2.66010	0.00266	1.99690	0.00200	2.660	30.81	0.02	0.00	0	600.00
\$ / R	On 03/01/2019	Any day expiry	13.93	Call	465.68930	0.46569	492.70460	0.49270	465.689	26.00	0.91	0.00	0	600.00
\$ / R	On 03/01/2019	Any day expiry	14.35	Call	117.14490	0.11714	156.15710	0.15616	117.145	19.29	0.55	0.00	0	600.00
\$ / R	On 07/01/2019	Any day expiry			14.38990	14.38990	14.41520	14.41520		17.41	0.00	0.00	0	0.00
\$ / R	On 07/01/2019	Any day expiry	13.64	Put	6.06260	0.00606	4.77450	0.00477	6.063	21.55	0.04	0.00	0	250.00
\$ / R	On 07/01/2019	Any day expiry	14.12	Call	321.39760	0.32140	349.45380	0.34945	321.398	18.95	0.77	0.00	0	250.00
\$ / R	On 07/01/2019	Any day expiry	14.65	Call	56.70860	0.05671	77.66020	0.07766	56.709	19.05	0.25	0.00	0	250.00
\$ / R	On 10/01/2019	Any day expiry			14.39510	14.39510	14.42030	14.42030		18.05	0.00	0.00	0	125.00
\$ / R	On 15/01/2019	Any day expiry			14.40320	14.40320	14.42900	14.42900		17.87	0.00	0.00	0	324.00
\$ / R	On 15/01/2019	Any day expiry	13.86	Put	29.80400	0.02980	37.17750	0.03718	29.804	16.57	0.12	0.00	0	174.00
\$ / R	On 15/01/2019	Any day expiry	14.00	Call	458.83620	0.45884	493.43780	0.49344	458.836	16.91	0.80	0.00	0	174.00
\$ / R	On 15/01/2019	Any day expiry	14.29	Put	152.65910	0.15266	160.63680	0.16064	152.659	17.61	0.41	0.00	0	218.00
\$ / R	On 15/01/2019	Any day expiry	14.36	Call	229.07040	0.22907	261.74930	0.26175	229.070	17.78	0.54	0.00	0	218.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest	
\$ / R		On 16/01/2019	Any day expiry		14.40480	14.40480	14.43080	14.43080		18.03	0.00	0.00	0	20.00	
\$ / R		On 17/01/2019	Any day expiry		14.40640	14.40640	14.43250	14.43250		18.15	0.00	0.00	0	126.00	
\$ / R		On 18/01/2019	Any day expiry		14.40800	14.40800	14.43430	14.43430		18.27	0.00	0.00	0	0.00	
\$ / R		On 18/01/2019	Any day expiry	12.66	Put	1.35950	0.00136	1.64410	0.00164	1.359	23.22	0.01	0.00	0	263.00
\$ / R		On 21/01/2019	Any day expiry		14.41290	14.41290	14.43950	14.43950		17.91	0.00	0.00	0	1,901.00	
\$ / R		On 25/01/2019	Any day expiry		14.41930	14.41930	14.44650	14.44650		18.28	0.00	0.00	0	51.00	
\$ / R		On 30/01/2019	Any day expiry		14.42740	14.42740	14.45520	14.45520		18.35	0.00	0.00	0	1,018.00	
\$ / R		On 31/01/2019	Any day expiry		14.42910	14.42910	14.45690	14.45690		18.40	0.00	13,744,690.40	952	2,602.00	
\$ / R		On 31/01/2019	Any day expiry	13.00	Put	7.12080	0.00712	6.58640	0.00659	7.121	18.36	0.02	0.00	0	500.00
\$ / R		On 31/01/2019	Any day expiry	14.20	Put	199.69070	0.19969	196.54810	0.19655	199.691	18.06	0.37	0.00	0	250.00
\$ / R		On 31/01/2019	Any day expiry	14.25	Put	220.98320	0.22098	217.42720	0.21743	220.983	18.12	0.40	0.00	0	250.00
\$ / R		On 31/01/2019	Any day expiry	14.38	Call	331.67790	0.33168	354.70780	0.35471	331.678	18.30	0.54	0.00	0	500.00
\$ / R		On 31/01/2019	Any day expiry	15.13	Call	104.23670	0.10424	118.04400	0.11804	104.237	20.26	0.22	0.00	0	250.00
\$ / R		On 31/01/2019	Any day expiry	15.47	Call	58.79080	0.05879	68.79530	0.06880	58.791	21.07	0.13	0.00	0	250.00
\$ / R		On 13/02/2019	Any day expiry		14.45150	14.45150	14.47980	14.47980		18.31	0.00	0.00	0	70.00	
\$ / R		On 15/02/2019	Any day expiry		14.45500	14.45500	14.48330	14.48330		18.37	0.00	0.00	0	6.00	
\$ / R		On 25/02/2019	Any day expiry		14.47270	14.47270	14.50100	14.50100		18.18	0.00	0.00	0	15.00	
\$ / R		On 28/02/2019	Any day expiry		14.47800	14.47800	14.50630	14.50630		18.34	0.00	0.00	0	6,098.00	
\$ / R		On 28/02/2019	Any day expiry	13.00	Put	22.58610	0.02259	21.74420	0.02174	22.586	16.92	0.05	0.00	0	500.00
\$ / R		On 28/02/2019	Any day expiry	14.20	Put	287.77160	0.28777	280.24690	0.28025	287.772	17.92	0.38	0.00	0	250.00
\$ / R		On 28/02/2019	Any day expiry	14.25	Put	310.24460	0.31024	302.37890	0.30238	310.245	17.99	0.40	0.00	0	250.00
\$ / R		On 28/02/2019	Any day expiry	14.52	Call	406.86500	0.40687	425.37210	0.42537	406.865	18.39	0.50	0.00	0	500.00
\$ / R		On 28/02/2019	Any day expiry	15.27	Call	182.53510	0.18254	195.35050	0.19535	182.535	20.03	0.27	0.00	0	250.00
\$ / R		On 28/02/2019	Any day expiry	15.63	Call	122.18160	0.12218	132.54940	0.13255	122.182	20.77	0.19	0.00	0	250.00
\$ / R		On 04/03/2019	Any day expiry		14.48510	14.48510	14.51330	14.51330		18.27	0.00	0.00	0	74.00	
\$ / R		On 05/03/2019	Any day expiry		14.48690	14.48690	14.51510	14.51510		18.30	0.00	0.00	0	80.00	
\$ / R		On 11/03/2019	Any day expiry		14.49750	14.49750	14.52570	14.52570		18.27	0.00	0.00	0	0.00	
\$ / R		On 11/03/2019	Any day expiry	13.94	Put	210.76480	0.21076	205.23950	0.20524	210.765	17.47	0.29	0.00	0	27,500.00
\$ / R		On 11/03/2019	Any day expiry	15.15	Call	246.93180	0.24693	261.66870	0.26167	246.932	19.62	0.32	0.00	0	27,500.00
\$ / R		On 18/03/2019	Foreign Exchange Future		14.50990	14.50990	14.53810	14.53810		18.27	0.00	74,508,336.50	5,135	485,050.00	
\$ / R		On 18/03/2019	Foreign Exchange Future	10.33	Put	0.41840	0.00042	0.40190	0.00040	0.418	24.17	0.00	0.00	0	1,000.00
\$ / R		On 18/03/2019	Foreign Exchange Future	11.74	Put	6.33890	0.00634	5.94510	0.00595	6.339	21.06	0.01	0.00	0	1,000.00
\$ / R		On 18/03/2019	Foreign Exchange Future	12.47	Put	17.84580	0.01785	17.55700	0.01756	17.846	18.66	0.04	0.00	0	721.00
\$ / R		On 18/03/2019	Foreign Exchange Future	12.51	Put	18.88990	0.01889	18.62290	0.01862	18.890	18.53	0.04	0.00	0	720.00
\$ / R		On 18/03/2019	Foreign Exchange Future	12.80	Put	28.54320	0.02854	28.52020	0.02852	28.543	17.58	0.06	0.00	0	8,132.00
\$ / R		On 18/03/2019	Foreign Exchange Future	12.90	Put	32.91880	0.03292	33.01960	0.03302	32.919	17.25	0.06	0.00	0	16,000.00
\$ / R		On 18/03/2019	Foreign Exchange Future	12.92	Put	33.87120	0.03387	33.99960	0.03400	33.871	17.19	0.07	0.00	0	139,342.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.00	Put	37.97030	0.03797	38.21800	0.03822	37.970	16.92	0.07	0.00	0	15,434.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.05	Put	40.78090	0.04078	41.11140	0.04111	40.781	16.76	0.08	0.00	0	1,155.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.12	Put	48.01570	0.04802	46.34830	0.04635	48.016	16.81	0.09	0.00	0	138,000.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.15	Put	51.40570	0.05141	49.64670	0.04965	51.406	16.83	0.09	0.00	0	10,125.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.25	Put	64.06330	0.06406	61.96930	0.06197	64.063	16.89	0.11	0.00	0	225,407.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.33	Put	75.79840	0.07580	73.41040	0.07341	75.798	16.95	0.13	0.00	0	135,043.00
\$ / R		On 18/03/2019	Foreign Exchange Future	13.36	Put	80.59400	0.08059	78.08630	0.07809	80.594	16.97	0.14	0.00	0	134,750.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
\$ / R	On 18/03/2019	Foreign Exchange Future	13.46	Put	98.22520	0.09823	95.29810	0.09530	98.225	17.04	0.16	0.00	0	20,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.50	Put	106.01970	0.10602	102.91300	0.10291	106.020	17.06	0.17	0.00	0	2,550.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.55	Put	116.38780	0.11639	113.04440	0.11304	116.388	17.10	0.18	0.00	0	10,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.60	Put	127.46850	0.12747	123.87930	0.12388	127.469	17.13	0.19	0.00	0	6,570.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.62	Put	132.10490	0.13210	128.41470	0.12841	132.105	17.14	0.20	0.00	0	6,432.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.68	Put	146.73770	0.14674	142.73260	0.14273	146.738	17.18	0.22	0.00	0	14,200.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.70	Put	151.85810	0.15186	147.74730	0.14775	151.858	17.20	0.22	0.00	0	2,500.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.72	Put	157.10460	0.15710	152.88240	0.15288	157.105	17.21	0.23	0.00	0	10,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.75	Put	165.20650	0.16521	160.81800	0.16082	165.207	17.23	0.24	0.00	0	17,981.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.79	Put	176.45560	0.17646	171.83850	0.17184	176.456	17.26	0.25	0.00	0	262,812.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.82	Put	185.56390	0.18556	180.78100	0.18078	185.564	17.29	0.26	0.00	0	1,800.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.85	Put	195.13950	0.19514	190.22230	0.19022	195.140	17.34	0.27	0.00	0	1,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.86	Put	198.39950	0.19840	193.44020	0.19344	198.400	17.35	0.27	0.00	0	721.00
\$ / R	On 18/03/2019	Foreign Exchange Future	13.90	Put	211.79340	0.21179	206.65300	0.20665	211.793	17.41	0.28	0.00	0	720.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.00	Call	757.64510	0.75765	780.24240	0.78024	757.645	17.55	0.69	0.00	0	100.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.00	Put	247.74510	0.24775	242.14240	0.24214	247.745	17.55	0.31	0.00	0	35,606.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.04	Put	263.11920	0.26312	257.32920	0.25733	263.119	17.61	0.33	0.00	0	7,100.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.20	Call	640.21140	0.64021	661.83900	0.66184	640.211	17.84	0.62	0.00	0	2,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.25	Call	613.07240	0.61307	634.44680	0.63445	613.072	17.91	0.60	0.00	0	750.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.28	Put	367.30920	0.36731	360.33110	0.36033	367.309	17.95	0.41	0.00	0	7,028.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.30	Put	376.90960	0.37691	369.82910	0.36983	376.910	17.98	0.41	0.00	0	3,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.30	Call	586.80960	0.58681	607.92910	0.60793	586.810	17.98	0.59	0.00	0	250.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.35	Put	401.52080	0.40152	394.17610	0.39418	401.521	18.05	0.43	0.00	0	139,342.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.44	Put	447.98440	0.44798	440.16070	0.44016	447.984	18.18	0.46	0.00	0	7,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.45	Put	453.31840	0.45332	445.44100	0.44544	453.318	18.20	0.46	0.00	0	1,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.46	Call	508.58340	0.50858	528.85210	0.52885	508.583	18.21	0.53	0.00	0	6,332.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.48	Call	499.41640	0.49942	519.57690	0.51958	499.416	18.24	0.53	0.00	0	1,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.50	Call	490.38220	0.49038	510.43180	0.51043	490.382	18.27	0.52	0.00	0	224,707.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.50	Put	480.48220	0.48048	472.33180	0.47233	480.482	18.27	0.48	0.00	0	10,050.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.53	Put	497.63150	0.49763	488.86290	0.48886	497.632	18.33	0.49	0.00	0	108.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.56	Put	515.07520	0.51508	505.83330	0.50583	515.075	18.39	0.50	0.00	0	138,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.65	Put	569.13660	0.56914	559.34150	0.55934	569.137	18.57	0.53	0.00	0	10,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.74	Put	625.70660	0.62571	615.35880	0.61536	625.707	18.75	0.56	0.00	0	24,326.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.80	Call	374.65490	0.37465	392.13650	0.39214	374.655	18.87	0.43	0.00	0	2,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.81	Put	671.36280	0.67136	660.58360	0.66058	671.363	18.89	0.58	0.00	0	135,043.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.82	Put	677.99900	0.67800	667.15890	0.66716	677.999	18.91	0.58	0.00	0	4,145.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.83	Put	684.66590	0.68467	673.76240	0.67376	684.666	18.93	0.58	0.00	0	10,010.00
\$ / R	On 18/03/2019	Foreign Exchange Future	14.84	Put	691.35830	0.69136	680.39400	0.68039	691.358	18.95	0.59	0.00	0	134,750.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.00	Call	312.01530	0.31202	328.26790	0.32827	312.015	19.27	0.37	0.00	0	1,260.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.04	Put	830.83420	0.83083	818.64320	0.81864	830.834	19.35	0.64	0.00	0	63,500.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.10	Put	874.64230	0.87464	862.08620	0.86209	874.642	19.47	0.66	0.00	0	1,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.12	Put	889.43450	0.88943	876.75900	0.87676	889.434	19.51	0.66	0.00	0	99,824.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.13	Put	896.86410	0.89686	884.12880	0.88413	896.864	19.53	0.66	0.00	0	7,100.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.17	Call	266.71180	0.26671	281.93600	0.28194	266.712	19.61	0.33	0.00	0	720.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
\$ / R	On 18/03/2019	Foreign Exchange Future	15.19	Put	941.92070	0.94192	928.82390	0.92882	941.921	19.65	0.68	0.00	0	41,300.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.20	Put	949.50680	0.94951	936.35090	0.93635	949.507	19.67	0.68	0.00	0	2,500.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.22	Call	254.64650	0.25465	269.57010	0.26957	254.647	19.71	0.31	0.00	0	2,785.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.25	Call	247.66470	0.24766	262.40940	0.26241	247.665	19.77	0.31	0.00	0	1,500.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.32	Put	1,042.15810	1.04216	1,028.28310	1.02828	1,042.158	19.91	0.71	0.00	0	262,812.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.40	Call	215.40850	0.21541	229.14380	0.22914	215.408	20.07	0.27	0.00	0	2,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.45	Call	205.61070	0.20561	218.98550	0.21899	205.611	20.17	0.26	0.00	0	20,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.46	Call	203.70570	0.20371	217.00630	0.21701	203.706	20.19	0.26	0.00	0	108.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.50	Call	196.26110	0.19626	209.27680	0.20928	196.261	20.27	0.25	0.00	0	224,757.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.52	Call	192.63990	0.19264	205.51670	0.20552	192.640	20.31	0.25	0.00	0	1.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.54	Call	189.08810	0.18909	201.82480	0.20182	189.088	20.35	0.25	0.00	0	721.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.66	Call	169.12600	0.16913	181.04390	0.18104	169.126	20.58	0.22	0.00	0	139,342.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.81	Call	147.16780	0.14717	158.11790	0.15812	147.168	20.88	0.20	0.00	0	10.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.83	Call	144.47120	0.14447	155.29680	0.15530	144.471	20.92	0.20	0.00	0	135,043.00
\$ / R	On 18/03/2019	Foreign Exchange Future	15.89	Call	136.68340	0.13668	147.14360	0.14714	136.683	21.04	0.19	0.00	0	4,145.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.00	Call	123.21690	0.12322	133.33750	0.13334	123.217	21.24	0.17	0.00	0	1,906.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.13	Call	108.64350	0.10864	118.03970	0.11804	108.644	21.45	0.15	0.00	0	138,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.18	Call	103.51410	0.10351	112.63960	0.11264	103.514	21.53	0.15	0.00	0	1,800.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.30	Call	92.18250	0.09218	100.68530	0.10069	92.183	21.72	0.13	0.00	0	10,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.38	Call	85.34100	0.08534	93.44830	0.09345	85.341	21.85	0.12	0.00	0	134,750.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.58	Call	70.43030	0.07043	77.61930	0.07762	70.430	22.18	0.10	0.00	0	10,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.60	Call	69.09670	0.06910	76.19750	0.07620	69.097	22.21	0.10	0.00	0	50.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.96	Call	49.11450	0.04911	54.80840	0.05481	49.114	22.79	0.08	0.00	0	12,600.00
\$ / R	On 18/03/2019	Foreign Exchange Future	16.97	Call	48.65470	0.04865	54.31400	0.05431	48.655	22.81	0.07	0.00	0	63,500.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.02	Call	46.42700	0.04643	51.91330	0.05191	46.427	22.89	0.07	0.00	0	262,812.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.08	Call	43.89550	0.04390	49.18130	0.04918	43.896	22.98	0.07	0.00	0	7,028.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.09	Call	43.48840	0.04349	48.74190	0.04874	43.488	23.00	0.07	0.00	0	99,824.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.10	Call	43.08450	0.04308	48.30590	0.04831	43.084	23.02	0.07	0.00	0	2,500.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.23	Call	38.19000	0.03819	43.00660	0.04301	38.190	23.23	0.06	0.00	0	41,300.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.30	Call	35.80490	0.03580	40.41670	0.04042	35.805	23.34	0.06	0.00	0	10,125.00
\$ / R	On 18/03/2019	Foreign Exchange Future	17.50	Call	29.34900	0.02935	33.47860	0.03348	29.349	23.59	0.05	0.00	0	16,000.00
\$ / R	On 18/03/2019	Foreign Exchange Future	18.00	Call	17.14080	0.01714	18.89620	0.01890	17.141	24.03	0.03	0.00	0	14,200.00
\$ / R	On 18/03/2019	Foreign Exchange Future	18.40	Call	11.14900	0.01115	11.83700	0.01184	11.149	24.38	0.02	0.00	0	7,100.00
\$ / R	On 27/03/2019	Any day expiry			14.52590	14.52590	14.55400	14.55400		18.36	0.00	0.00	0	3,731.00
\$ / R	On 27/03/2019	Any day expiry	13.88	Put	222.99500	0.22299	218.20590	0.21821	222.995	17.39	0.28	0.00	0	32,000.00
\$ / R	On 27/03/2019	Any day expiry	14.00	Put	266.70460	0.26670	261.35010	0.26135	266.705	17.57	0.32	0.00	0	65,000.00
\$ / R	On 29/03/2019	Any day expiry			14.52950	14.52950	14.55760	14.55760		18.39	0.00	0.00	0	5,111.00
\$ / R	On 29/03/2019	Any day expiry	13.00	Put	50.03470	0.05003	48.40150	0.04840	50.035	17.12	0.09	0.00	0	500.00
\$ / R	On 29/03/2019	Any day expiry	14.20	Put	355.39940	0.35540	349.11040	0.34911	355.399	17.88	0.38	0.00	0	250.00
\$ / R	On 29/03/2019	Any day expiry	14.25	Put	378.46540	0.37847	371.91470	0.37191	378.465	17.96	0.40	0.00	0	250.00
\$ / R	On 29/03/2019	Any day expiry	14.67	Call	464.99520	0.46500	484.13240	0.48413	464.995	18.62	0.48	0.00	0	500.00
\$ / R	On 29/03/2019	Any day expiry	15.43	Call	244.88590	0.24489	259.16250	0.25916	244.886	20.08	0.29	0.00	0	250.00
\$ / R	On 29/03/2019	Any day expiry	15.79	Call	180.42870	0.18043	192.56180	0.19256	180.429	20.77	0.22	0.00	0	250.00
\$ / R	On 02/04/2019	Any day expiry			14.53660	14.53660	14.56470	14.56470		18.34	0.00	0.00	0	55.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
\$ / R		On 05/04/2019	Any day expiry		14.54200	14.54200	14.57010	14.57010		18.39	0.00	0.00	0	0.00
\$ / R	13.76	Put	On 05/04/2019	Any day expiry	201.14310	0.20114	196.20190	0.19620	201.143	17.28	0.25	0.00	0	100.00
\$ / R	14.35	Call	On 05/04/2019	Any day expiry	633.43780	0.63344	654.26590	0.65427	633.438	18.10	0.58	0.00	0	100.00
\$ / R		On 26/04/2019	Any day expiry		14.58100	14.58100	14.60860	14.60860		18.42	0.00	0.00	0	0.00
\$ / R		On 30/04/2019	Any day expiry		14.58840	14.58840	14.61590	14.61590		18.38	0.00	0.00	0	1,580.00
\$ / R	13.00	Put	On 30/04/2019	Any day expiry	76.56550	0.07657	74.17950	0.07418	76.566	16.91	0.11	0.00	0	3,000.00
\$ / R	13.49	Call	On 30/04/2019	Any day expiry	1,261.43410	1.26143	1,283.25060	1.28325	1,261.434	16.99	0.80	0.00	0	2,500.00
\$ / R	14.20	Put	On 30/04/2019	Any day expiry	411.50370	0.41150	403.56540	0.40357	411.504	17.79	0.38	0.00	0	250.00
\$ / R	14.25	Put	On 30/04/2019	Any day expiry	434.99500	0.43499	427.00860	0.42701	434.995	17.86	0.39	0.00	0	250.00
\$ / R	14.84	Call	On 30/04/2019	Any day expiry	514.48670	0.51449	532.59540	0.53260	514.487	18.80	0.46	0.00	0	500.00
\$ / R	15.61	Call	On 30/04/2019	Any day expiry	300.58990	0.30059	315.55520	0.31556	300.590	20.15	0.30	0.00	0	250.00
\$ / R	15.96	Call	On 30/04/2019	Any day expiry	236.39170	0.23639	249.61510	0.24962	236.392	20.78	0.24	0.00	0	250.00
\$ / R		On 31/05/2019	Any day expiry		14.64580	14.64580	14.67260	14.67260		18.43	0.00	0.00	0	875.00
\$ / R	13.00	Put	On 31/05/2019	Any day expiry	102.07660	0.10208	96.33330	0.09633	102.077	16.83	0.12	0.00	0	500.00
\$ / R	14.20	Put	On 31/05/2019	Any day expiry	457.88560	0.45789	449.61250	0.44961	457.886	17.76	0.37	0.00	0	250.00
\$ / R	14.25	Put	On 31/05/2019	Any day expiry	481.61730	0.48162	473.33080	0.47333	481.617	17.83	0.38	0.00	0	250.00
\$ / R	15.01	Call	On 31/05/2019	Any day expiry	554.78610	0.55479	572.36000	0.57236	554.786	19.00	0.44	0.00	0	500.00
\$ / R	15.79	Call	On 31/05/2019	Any day expiry	346.87030	0.34687	362.11950	0.36212	346.870	20.27	0.30	0.00	0	250.00
\$ / R	16.15	Call	On 31/05/2019	Any day expiry	280.51570	0.28052	294.55480	0.29455	280.516	20.86	0.25	0.00	0	250.00
\$ / R		On 03/06/2019	Any day expiry		14.65140	14.65140	14.67810	14.67810		18.39	0.00	0.00	0	0.00
\$ / R		On 04/06/2019	Any day expiry		14.65320	14.65320	14.67990	14.67990		18.40	0.00	0.00	0	74.00
\$ / R		On 14/06/2019	Foreign Exchange Future		14.67180	14.67180	14.69820	14.69820		18.41	0.00	7,335,900.00	500	112,532.00
\$ / R	10.69	Put	On 14/06/2019	Foreign Exchange Future	5.48020	0.00548	4.77890	0.00478	5.480	20.11	0.01	0.00	0	1,000.00
\$ / R	12.28	Put	On 14/06/2019	Foreign Exchange Future	38.32540	0.03833	34.21390	0.03421	38.325	16.90	0.05	0.00	0	1,000.00
\$ / R	12.75	Put	On 14/06/2019	Foreign Exchange Future	79.52640	0.07953	73.91260	0.07391	79.526	16.82	0.10	0.00	0	1,000.00
\$ / R	12.98	Put	On 14/06/2019	Foreign Exchange Future	109.67840	0.10968	103.46750	0.10347	109.678	16.78	0.13	0.00	0	911.00
\$ / R	13.00	Put	On 14/06/2019	Foreign Exchange Future	112.66930	0.11267	106.41410	0.10641	112.669	16.77	0.13	0.00	0	165,703.00
\$ / R	13.24	Put	On 14/06/2019	Foreign Exchange Future	154.68970	0.15469	146.98180	0.14698	154.690	16.77	0.17	0.00	0	30,000.00
\$ / R	13.83	Put	On 14/06/2019	Foreign Exchange Future	322.25160	0.32225	313.96380	0.31396	322.252	17.27	0.29	0.00	0	25,000.00
\$ / R	13.88	Put	On 14/06/2019	Foreign Exchange Future	340.25940	0.34026	332.02170	0.33202	340.259	17.31	0.30	0.00	0	5,035.00
\$ / R	13.98	Call	On 14/06/2019	Foreign Exchange Future	1,071.65710	1.07166	1,088.82850	1.08883	1,071.657	17.44	0.68	0.00	0	1,000.00
\$ / R	14.00	Put	On 14/06/2019	Foreign Exchange Future	388.16940	0.38817	378.94880	0.37895	388.169	17.47	0.32	0.00	0	143,900.00
\$ / R	14.07	Put	On 14/06/2019	Foreign Exchange Future	418.08170	0.41808	408.89230	0.40889	418.082	17.57	0.34	0.00	0	39,589.00
\$ / R	14.20	Put	On 14/06/2019	Foreign Exchange Future	476.95760	0.47696	467.86780	0.46787	476.958	17.76	0.37	0.00	0	13,600.00
\$ / R	14.42	Call	On 14/06/2019	Foreign Exchange Future	838.01840	0.83802	855.60160	0.85560	838.018	18.08	0.58	0.00	0	30.00
\$ / R	14.58	Call	On 14/06/2019	Foreign Exchange Future	764.80660	0.76481	782.64070	0.78264	764.807	18.31	0.54	0.00	0	1,000.00
\$ / R	14.63	Put	On 14/06/2019	Foreign Exchange Future	701.34280	0.70134	692.86420	0.69286	701.343	18.39	0.47	0.00	0	8,203.00
\$ / R	14.65	Put	On 14/06/2019	Foreign Exchange Future	712.83800	0.71284	704.39320	0.70439	712.838	18.41	0.47	0.00	0	1,000.00
\$ / R	14.82	Call	On 14/06/2019	Foreign Exchange Future	666.36810	0.66637	684.09590	0.68410	666.368	18.67	0.49	0.00	0	30,000.00
\$ / R	15.10	Call	On 14/06/2019	Foreign Exchange Future	567.03950	0.56704	584.34880	0.58435	567.039	19.10	0.44	0.00	0	1,500.00
\$ / R	15.32	Call	On 14/06/2019	Foreign Exchange Future	499.41460	0.49941	516.39130	0.51639	499.415	19.44	0.40	0.00	0	1,980.00
\$ / R	15.50	Call	On 14/06/2019	Foreign Exchange Future	450.64750	0.45065	467.05810	0.46706	450.648	19.72	0.36	0.00	0	143,900.00
\$ / R	15.62	Call	On 14/06/2019	Foreign Exchange Future	421.15880	0.42116	437.21700	0.43722	421.159	19.92	0.34	0.00	0	5,035.00
\$ / R	15.64	Call	On 14/06/2019	Foreign Exchange Future	416.44930	0.41645	432.44770	0.43245	416.449	19.95	0.34	0.00	0	39,589.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
\$ / R	On 14/06/2019	Foreign Exchange Future	15.80	Call	380.75850	0.38076	396.29430	0.39629	380.758	20.21	0.32	0.00	0	1,000.00
\$ / R	On 14/06/2019	Foreign Exchange Future	15.89	Call	362.16240	0.36216	377.43860	0.37744	362.162	20.36	0.30	0.00	0	6,800.00
\$ / R	On 14/06/2019	Foreign Exchange Future	15.92	Call	356.18570	0.35619	371.37690	0.37138	356.186	20.41	0.30	0.00	0	911.00
\$ / R	On 14/06/2019	Foreign Exchange Future	16.00	Call	340.78110	0.34078	355.74380	0.35574	340.781	20.54	0.29	0.00	0	20.00
\$ / R	On 14/06/2019	Foreign Exchange Future	16.09	Call	324.33310	0.32433	339.03950	0.33904	324.333	20.69	0.28	0.00	0	6,800.00
\$ / R	On 14/06/2019	Foreign Exchange Future	17.96	Call	118.84690	0.11885	127.15520	0.12716	118.847	23.36	0.11	0.00	0	8,203.00
\$ / R	On 20/06/2019	Any day expiry			14.68290	14.68290	14.70920	14.70920		18.46	0.00	0.00	0	0.00
\$ / R	On 20/06/2019	Any day expiry	14.72	Put	760.50080	0.76050	752.18730	0.75219	760.501	18.49	0.48	0.00	0	20,000.00
\$ / R	On 20/06/2019	Any day expiry	17.22	Call	179.75110	0.17975	190.91900	0.19092	179.751	22.07	0.16	0.00	0	20,000.00
\$ / R	On 28/06/2019	Any day expiry			14.69770	14.69770	14.72380	14.72380		18.46	0.00	0.00	0	505.00
\$ / R	On 28/06/2019	Any day expiry	13.00	Put	122.71340	0.12271	115.42210	0.11542	122.713	16.72	0.13	0.00	0	500.00
\$ / R	On 28/06/2019	Any day expiry	14.20	Put	494.03350	0.49403	485.20720	0.48521	494.033	17.74	0.37	0.00	0	250.00
\$ / R	On 28/06/2019	Any day expiry	14.25	Put	517.89020	0.51789	509.10300	0.50910	517.890	17.81	0.38	0.00	0	250.00
\$ / R	On 28/06/2019	Any day expiry	15.17	Call	584.67650	0.58468	601.81610	0.60182	584.677	19.16	0.43	0.00	0	500.00
\$ / R	On 28/06/2019	Any day expiry	15.96	Call	382.02840	0.38203	397.28830	0.39729	382.028	20.38	0.31	0.00	0	250.00
\$ / R	On 28/06/2019	Any day expiry	16.32	Call	314.85450	0.31485	329.05780	0.32906	314.855	20.89	0.26	0.00	0	250.00
\$ / R	On 01/07/2019	Any day expiry			14.70330	14.70330	14.72930	14.72930		18.43	0.00	0.00	0	55.00
\$ / R	On 03/07/2019	Any day expiry			14.70700	14.70700	14.73300	14.73300		18.45	0.00	0.00	0	0.00
\$ / R	On 03/07/2019	Any day expiry	13.45	Put	224.37590	0.22438	215.22260	0.21522	224.376	16.94	0.21	0.00	0	39,250.00
\$ / R	On 03/07/2019	Any day expiry	16.44	Call	305.28110	0.30528	320.29560	0.32030	305.281	21.00	0.25	0.00	0	39,250.00
\$ / R	On 31/07/2019	Any day expiry			14.75990	14.75990	14.78550	14.78550		18.49	0.00	0.00	0	0.00
\$ / R	On 31/07/2019	Any day expiry	13.00	Put	141.88050	0.14188	132.87060	0.13287	141.880	16.48	0.14	0.00	0	500.00
\$ / R	On 31/07/2019	Any day expiry	14.20	Put	529.66890	0.52967	519.86580	0.51987	529.669	17.68	0.36	0.00	0	250.00
\$ / R	On 31/07/2019	Any day expiry	14.25	Put	553.70780	0.55371	543.92700	0.54393	553.708	17.76	0.37	0.00	0	250.00
\$ / R	On 31/07/2019	Any day expiry	15.34	Call	623.69010	0.62369	639.54560	0.63955	623.690	19.33	0.43	0.00	0	500.00
\$ / R	On 31/07/2019	Any day expiry	16.14	Call	425.54750	0.42555	439.83210	0.43983	425.548	20.52	0.31	0.00	0	250.00
\$ / R	On 31/07/2019	Any day expiry	16.50	Call	357.95510	0.35796	371.86560	0.37187	357.955	20.99	0.27	0.00	0	250.00
\$ / R	On 01/08/2019	Any day expiry			14.76180	14.76180	14.78740	14.78740		18.49	0.00	0.00	0	55.00
\$ / R	On 13/08/2019	Any day expiry			14.78440	14.78440	14.80990	14.80990		18.53	0.00	0.00	0	0.00
\$ / R	On 13/08/2019	Any day expiry	14.48	Put	683.67110	0.68367	674.22420	0.67422	683.671	18.06	0.41	0.00	0	3,147.00
\$ / R	On 13/08/2019	Any day expiry	16.35	Call	414.15710	0.41416	427.85760	0.42786	414.157	20.75	0.30	0.00	0	3,147.00
\$ / R	On 30/08/2019	Any day expiry			14.81650	14.81650	14.84180	14.84180		18.52	0.00	0.00	0	0.00
\$ / R	On 30/08/2019	Any day expiry	13.00	Put	157.48570	0.15749	146.99180	0.14699	157.486	16.30	0.15	0.00	0	500.00
\$ / R	On 30/08/2019	Any day expiry	14.20	Put	558.55570	0.55856	548.20740	0.54821	558.556	17.64	0.36	0.00	0	250.00
\$ / R	On 30/08/2019	Any day expiry	14.25	Put	582.69390	0.58269	572.34170	0.57234	582.694	17.72	0.37	0.00	0	250.00
\$ / R	On 30/08/2019	Any day expiry	15.52	Call	648.85450	0.64885	663.86630	0.66387	648.854	19.50	0.42	0.00	0	500.00
\$ / R	On 30/08/2019	Any day expiry	16.33	Call	456.43380	0.45643	470.30350	0.47030	456.434	20.66	0.31	0.00	0	250.00
\$ / R	On 30/08/2019	Any day expiry	16.70	Call	387.77070	0.38777	400.78990	0.40079	387.771	21.10	0.27	0.00	0	250.00
\$ / R	On 02/09/2019	Any day expiry			14.82220	14.82220	14.84740	14.84740		18.49	0.00	0.00	0	55.00
\$ / R	On 04/09/2019	Any day expiry			14.82600	14.82600	14.85110	14.85110		18.57	0.00	0.00	0	74.00
\$ / R	On 05/09/2019	Any day expiry			14.82790	14.82790	14.85300	14.85300		18.57	0.00	0.00	0	0.00
\$ / R	On 05/09/2019	Any day expiry	19.00	Call	179.12620	0.17913	189.30760	0.18931	179.126	24.50	0.13	0.00	0	20,000.00
\$ / R	On 16/09/2019	Foreign Exchange Future			14.84860	14.84860	14.87360	14.87360		18.54	0.00	0.00	0	14,250.00
\$ / R	On 16/09/2019	Foreign Exchange Future	10.75	Put	11.79140	0.01179	10.00630	0.01001	11.791	18.10	0.01	0.00	0	1,000.00

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
\$ / R	On 16/09/2019	Foreign Exchange Future	12.50	Put	72.03150		0.07203		66.08150	0.06608	72.031	15.20	0.08	0.00	0	1,000.00
\$ / R	On 16/09/2019	Foreign Exchange Future	13.25	Put	228.82990		0.22883		219.71300	0.21971	228.830	16.58	0.19	0.00	0	3,900.00
\$ / R	On 16/09/2019	Foreign Exchange Future	13.91	Put	447.10860		0.44711		437.15640	0.43716	447.109	17.27	0.30	0.00	0	81,930.00
\$ / R	On 16/09/2019	Foreign Exchange Future	13.97	Put	471.04900		0.47105		461.09920	0.46110	471.049	17.33	0.31	0.00	0	800.00
\$ / R	On 16/09/2019	Foreign Exchange Future	14.09	Put	521.13930		0.52114		511.21520	0.51122	521.139	17.44	0.33	0.00	0	33,715.00
\$ / R	On 16/09/2019	Foreign Exchange Future	14.21	Put	576.98230		0.57698		567.01210	0.56701	576.982	17.61	0.36	0.00	0	2,700.00
\$ / R	On 16/09/2019	Foreign Exchange Future	14.33	Put	636.08980		0.63609		626.09670	0.62610	636.090	17.78	0.38	0.00	0	33,151.00
\$ / R	On 16/09/2019	Foreign Exchange Future	15.38	Put	1,265.30700		1.26531	1,254.84260	1.25484	1,265.307	19.25	0.55	0.55	0.00	0	5,000.00
\$ / R	On 16/09/2019	Foreign Exchange Future	15.56	Put	1,390.61890		1.39062	1,379.96050	1.37996	1,390.619	19.49	0.58	0.58	0.00	0	2,571.00
\$ / R	On 16/09/2019	Foreign Exchange Future	15.87	Call	596.05550		0.59606	609.92420	0.60992	596.056	19.93	0.38	0.38	0.00	0	1,000.00
\$ / R	On 16/09/2019	Foreign Exchange Future	17.23	Call	339.74210		0.33974	351.25360	0.35125	339.742	21.64	0.23	0.23	0.00	0	800.00
\$ / R	On 16/09/2019	Foreign Exchange Future	17.64	Call	288.66340		0.28866	299.47670	0.29948	288.663	22.12	0.20	0.20	0.00	0	5,000.00
\$ / R	On 16/09/2019	Foreign Exchange Future	17.85	Call	267.06570		0.26707	277.60780	0.27761	267.066	22.39	0.19	0.19	0.00	0	2,700.00
\$ / R	On 16/09/2019	Foreign Exchange Future	17.93	Call	260.58520		0.26059	271.10960	0.27111	260.585	22.53	0.18	0.18	0.00	0	2,571.00
\$ / R	On 16/09/2019	Foreign Exchange Future	18.29	Call	234.29900		0.23430	244.74680	0.24475	234.299	23.17	0.17	0.17	0.00	0	81,930.00
\$ / R	On 16/09/2019	Foreign Exchange Future	18.47	Call	222.74120		0.22274	233.15330	0.23315	222.741	23.49	0.16	0.16	0.00	0	1,200.00
\$ / R	On 16/09/2019	Foreign Exchange Future	18.63	Call	213.25130		0.21325	223.62670	0.22363	213.251	23.77	0.15	0.15	0.00	0	33,715.00
\$ / R	On 16/09/2019	Foreign Exchange Future	19.32	Call	178.49820		0.17850	188.67130	0.18867	178.498	24.95	0.13	0.13	0.00	0	33,151.00
\$ / R	On 30/09/2019	Any day expiry			14.87510		14.87510	14.89990	14.89990			18.59	0.00	0.00	0	0.00
\$ / R	On 30/09/2019	Any day expiry	13.00	Put	169.24410		0.16924	160.74830	0.16075	169.244	16.03	0.15	0.15	0.00	0	500.00
\$ / R	On 30/09/2019	Any day expiry	14.20	Put	583.72440		0.58372	573.65700	0.57366	583.724	17.57	0.35	0.35	0.00	0	250.00
\$ / R	On 30/09/2019	Any day expiry	14.25	Put	607.91290		0.60791	597.81400	0.59781	607.913	17.65	0.36	0.36	0.00	0	250.00
\$ / R	On 30/09/2019	Any day expiry	15.68	Call	679.94460		0.67994	693.83670	0.69384	679.945	19.62	0.41	0.41	0.00	0	500.00
\$ / R	On 30/09/2019	Any day expiry	16.50	Call	489.73830		0.48974	502.40930	0.50241	489.738	20.73	0.31	0.31	0.00	0	250.00
\$ / R	On 30/09/2019	Any day expiry	16.89	Call	418.50590		0.41851	430.50660	0.43051	418.506	21.18	0.27	0.27	0.00	0	250.00
\$ / R	On 02/10/2019	Any day expiry			14.87890		14.87890	14.90360	14.90360			18.60	0.00	0.00	0	55.00
\$ / R	On 31/10/2019	Any day expiry			14.93480		14.93480	14.96000	14.96000			18.63	0.00	0.00	0	55.00
\$ / R	On 31/10/2019	Any day expiry	13.00	Put	180.13500		0.18014	173.28700	0.17329	180.135	15.82	0.15	0.15	0.00	0	500.00
\$ / R	On 31/10/2019	Any day expiry	14.20	Put	608.60420		0.60860	597.98260	0.59798	608.604	17.56	0.35	0.35	0.00	0	250.00
\$ / R	On 31/10/2019	Any day expiry	14.25	Put	632.80070		0.63280	622.13460	0.62213	632.801	17.63	0.35	0.35	0.00	0	250.00
\$ / R	On 31/10/2019	Any day expiry	15.87	Call	703.39250		0.70339	716.72370	0.71672	703.393	19.81	0.40	0.40	0.00	0	500.00
\$ / R	On 31/10/2019	Any day expiry	16.70	Call	516.87580		0.51688	529.09310	0.52909	516.876	20.86	0.31	0.31	0.00	0	250.00
\$ / R	On 31/10/2019	Any day expiry	17.09	Call	447.66890		0.44767	459.31370	0.45931	447.669	21.30	0.28	0.28	0.00	0	250.00
\$ / R	On 29/11/2019	Any day expiry			14.99080		14.99080	15.01630	15.01630			18.66	0.00	0.00	0	0.00
\$ / R	On 29/11/2019	Any day expiry	13.00	Put	197.02130		0.19702	188.84120	0.18884	197.021	15.87	0.15	0.15	0.00	0	500.00
\$ / R	On 29/11/2019	Any day expiry	14.20	Put	630.57980		0.63058	619.42340	0.61942	630.580	17.56	0.34	0.34	0.00	0	250.00
\$ / R	On 29/11/2019	Any day expiry	14.25	Put	653.47520		0.65348	642.27570	0.64228	653.475	17.61	0.35	0.35	0.00	0	250.00
\$ / R	On 29/11/2019	Any day expiry	16.03	Call	728.72860		0.72873	741.55820	0.74156	728.729	19.94	0.40	0.40	0.00	0	500.00
\$ / R	On 29/11/2019	Any day expiry	16.87	Call	543.97360		0.54397	555.82750	0.55583	543.974	20.95	0.31	0.31	0.00	0	250.00
\$ / R	On 29/11/2019	Any day expiry	17.26	Call	476.18420		0.47618	487.54420	0.48754	476.184	21.39	0.28	0.28	0.00	0	250.00
\$ / R	On 02/12/2019	Any day expiry			14.99660		14.99660	15.02210	15.02210			18.64	0.00	0.00	0	55.00
\$ / R	On 04/12/2019	Any day expiry			15.00050		15.00050	15.02600	15.02600			18.65	0.00	0.00	0	321.00
\$ / R	On 13/12/2019	Foreign Exchange Future			15.01780		15.01780	15.04350	15.04350			18.64	0.00	0.00	0	9,900.00
\$ / R	On 13/12/2019	Foreign Exchange Future	11.89	Put	32.70770		0.03271	33.34900	0.03335	32.708	14.02	0.04	0.04	0.00	0	1,000.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
\$ / R	On 13/12/2019	Foreign Exchange Future	13.66	Put	421.65860	0.42166	410.75080	0.41075	421.659	17.07	0.26	0.00	0	1,000.00
\$ / R	On 13/12/2019	Foreign Exchange Future	14.07	Put	582.59450	0.58259	571.85020	0.57185	582.594	17.43	0.32	0.00	0	1,351.00
\$ / R	On 13/12/2019	Foreign Exchange Future	16.85	Call	575.71430	0.57571	587.73650	0.58774	575.714	20.87	0.32	0.00	0	1,351.00
\$ / R	On 13/12/2019	Foreign Exchange Future	17.38	Call	483.41820	0.48342	494.54530	0.49455	483.418	21.47	0.28	0.00	0	1,000.00
\$ / R	On 13/12/2019	Foreign Exchange Future	20.00	Call	232.96060	0.23296	243.41040	0.24341	232.961	24.55	0.14	0.00	0	2,000.00
\$ / R	On 31/12/2019	Any day expiry			15.05260	15.05260	15.07850	15.07850		18.67	0.00	0.00	0	0.00
\$ / R	On 31/12/2019	Any day expiry	13.00	Put	211.96680	0.21197	203.60670	0.20361	211.967	15.84	0.16	0.00	0	500.00
\$ / R	On 31/12/2019	Any day expiry	14.20	Put	651.85250	0.65185	641.16390	0.64116	651.853	17.54	0.34	0.00	0	250.00
\$ / R	On 31/12/2019	Any day expiry	14.25	Put	674.74830	0.67475	664.14580	0.66415	674.748	17.59	0.34	0.00	0	250.00
\$ / R	On 31/12/2019	Any day expiry	16.21	Call	753.52550	0.75353	766.24590	0.76625	753.526	20.05	0.39	0.00	0	500.00
\$ / R	On 31/12/2019	Any day expiry	17.05	Call	573.22100	0.57322	585.20900	0.58521	573.221	21.02	0.31	0.00	0	250.00
\$ / R	On 31/12/2019	Any day expiry	17.44	Call	506.86260	0.50686	518.14670	0.51815	506.863	21.46	0.28	0.00	0	250.00
\$ / R	On 02/01/2020	Any day expiry			15.05650	15.05650	15.08240	15.08240		18.68	0.00	0.00	0	55.00
\$ / R	On 31/01/2020	Any day expiry			15.11750	15.11750	15.14360	15.14360		18.81	0.00	0.00	0	55.00
\$ / R	On 02/03/2020	Any day expiry			15.18300	15.18300	15.20910	15.20910		18.96	0.00	0.00	0	55.00
\$ / R	On 16/03/2020	Foreign Exchange Future			15.21260	15.21260	15.23870	15.23870		18.98	0.00	0.00	0	4,566.00
\$ / R	On 16/03/2020	Foreign Exchange Future	11.91	Put	67.33880	0.06734	61.94490	0.06194	67.339	15.01	0.06	0.00	0	1,000.00
\$ / R	On 16/03/2020	Foreign Exchange Future	14.01	Put	619.75940	0.61976	602.18270	0.60218	619.759	17.51	0.30	0.00	0	1,000.00
\$ / R	On 16/03/2020	Foreign Exchange Future	17.73	Call	616.29040	0.61629	623.40630	0.62341	616.290	21.73	0.30	0.00	0	1,000.00
\$ / R	On 02/04/2020	Any day expiry			15.24850	15.24850	15.27460	15.27460		19.06	0.00	0.00	0	55.00
\$ / R	On 29/04/2020	Any day expiry			15.30560	15.30560	15.33170	15.33170		19.13	0.00	0.00	0	55.00
\$ / R	On 02/06/2020	Any day expiry			15.37740	15.37740	15.40360	15.40360		19.25	0.00	0.00	0	1,055.00
\$ / R	On 12/06/2020	Foreign Exchange Future			15.39850	15.39850	15.42470	15.42470		19.26	0.00	0.00	0	0.00
\$ / R	On 28/07/2020	Any day expiry			15.49570	15.49570	15.52190	15.52190		19.36	0.00	0.00	0	84,000.00
\$ / R	On 14/09/2020	Foreign Exchange Future			15.59710	15.59710	15.62330	15.62330		19.45	0.00	0.00	0	0.00
\$ / R MAXI	On 18/03/2019	Foreign Exchange Future			14.50990	14.50990	14.53810	14.53810		18.27	0.00	507,846.50	35	416.00
\$ / R MAXI	On 14/06/2019	Foreign Exchange Future			14.67180	14.67180	14.69820	14.69820		18.41	0.00	0.00	0	0.00
\$ / R MAXI	On 16/09/2019	Foreign Exchange Future			14.84860	14.84860	14.87360	14.87360		18.54	0.00	0.00	0	0.00
\$ / R MAXI	On 13/12/2019	Foreign Exchange Future			15.01780	15.01780	15.04350	15.04350		18.64	0.00	0.00	0	0.00
\$ / R MAXI	On 16/03/2020	Foreign Exchange Future			15.21260	15.21260	15.23870	15.23870		18.98	0.00	0.00	0	0.00
£ / R	On 21/01/2019	Any day expiry			18.37790	18.37790	18.33410	18.33410		17.04	0.00	0.00	0	4,112.00
£ / R	On 31/01/2019	Any day expiry			18.40690	18.40690	18.36550	18.36550		17.40	0.00	0.00	0	27.00
£ / R	On 28/02/2019	Any day expiry			18.49420	18.49420	18.45380	18.45380		17.48	0.00	0.00	0	47.00
£ / R	On 18/03/2019	Foreign Exchange Future			18.55140	18.55140	18.51070	18.51070		17.45	0.00	0.00	0	397,720.00
£ / R	On 18/03/2019	Foreign Exchange Future	18.00	Put	348.45490	0.34845	369.24740	0.36925	348.455	17.42	0.34	0.00	0	500.00
£ / R	On 18/03/2019	Foreign Exchange Future	19.00	Call	415.77100	0.41577	409.85410	0.40985	415.771	17.86	0.40	0.00	0	2,500.00
£ / R	On 18/03/2019	Foreign Exchange Future	19.19	Put	993.89600	0.99390	1,030.21910	1.03022	993.896	18.03	0.64	0.00	0	1,000.00
£ / R	On 18/03/2019	Foreign Exchange Future	20.00	Call	177.29170	0.17729	176.90530	0.17691	177.292	18.85	0.20	0.00	0	500.00
£ / R	On 18/03/2019	Foreign Exchange Future	20.18	Call	151.38090	0.15138	151.39080	0.15139	151.381	19.04	0.18	0.00	0	1,500.00
£ / R	On 18/03/2019	Foreign Exchange Future	21.44	Call	42.54250	0.04254	41.48380	0.04148	42.543	19.76	0.06	0.00	0	500.00
£ / R	On 29/03/2019	Any day expiry			18.58660	18.58660	18.54570	18.54570		17.52	0.00	0.00	0	80.00
£ / R	On 14/06/2019	Foreign Exchange Future			18.83620	18.83620	18.79230	18.79230		17.46	0.00	9,418,100.00	500	5,764.00

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
£ / R	On 16/09/2019	Foreign Exchange Future			19.14450		19.14450		19.09670	19.09670		17.51	0.00	0.00	0	16,150.00
£ / R	On 13/12/2019	Foreign Exchange Future			19.43790		19.43790		19.39040	19.39040		17.62	0.00	0.00	0	247.00
£ / R	On 16/03/2020	Foreign Exchange Future			19.76550		19.76550		19.71800	19.71800		18.34	0.00	0.00	0	0.00
¥ / R	On 18/03/2019	Foreign Exchange Future			0.13251		0.13251		0.13257	0.13257		23.76	0.00	0.00	0	0.00
¥ / R	On 14/06/2019	Foreign Exchange Future			0.13498		0.13498		0.13501	0.13501		23.13	0.00	0.00	0	0.00
¥ / R	On 16/09/2019	Foreign Exchange Future			0.13768		0.13768		0.13771	0.13771		22.66	0.00	0.00	0	0.00
¥ / R	On 13/12/2019	Foreign Exchange Future			0.14030		0.14030		0.14033	0.14033		22.56	0.00	0.00	0	0.00
¥ / R	On 16/03/2020	Foreign Exchange Future			0.14331		0.14331		0.14334	0.14334		22.73	0.00	0.00	0	0.00
€ / R	On 03/01/2019	Any day expiry			16.45100		16.45100		16.50400	16.50400		14.44	0.00	0.00	0	0.00
€ / R	On 03/01/2019	Any day expiry	15.85	Put	2.35230		0.00235		6.74290	0.00674	2.352	20.27	0.02	0.00	0	13,000.00
€ / R	On 21/01/2019	Any day expiry			16.51100		16.51100		16.56300	16.56300		16.24	0.00	0.00	0	4,830.00
€ / R	On 28/02/2019	Any day expiry			16.63670		16.63670		16.69420	16.69420		16.88	0.00	0.00	0	29.00
€ / R	On 18/03/2019	Foreign Exchange Future			16.69990		16.69990		16.75750	16.75750		16.88	0.00	0.00	0	123,587.00
€ / R	On 18/03/2019	Foreign Exchange Future	16.00	Call	909.85720		0.90986		953.79580	0.95380	909.857	16.06	0.73	0.00	0	650.00
€ / R	On 29/03/2019	Any day expiry			16.69000		16.69000		16.74740	16.74740		16.89	0.00	0.00	0	53.00
€ / R	On 14/06/2019	Foreign Exchange Future			17.01490		17.01490		17.07050	17.07050		17.09	0.00	8,507,450.00	500	24,250.00
€ / R	On 14/08/2019	Any day expiry			17.23770		17.23770		17.29250	17.29250		17.24	0.00	0.00	0	0.00
€ / R	On 14/08/2019	Any day expiry	17.01	Put	800.64050		0.80064		779.57710	0.77958	800.641	16.94	0.43	0.00	0	16,200.00
€ / R	On 14/08/2019	Any day expiry	19.65	Call	337.10750		0.33711		353.76660	0.35377	337.108	20.22	0.23	0.00	0	62,400.00
€ / R	On 16/09/2019	Foreign Exchange Future			17.35930		17.35930		17.41350	17.41350		17.25	0.00	0.00	0	10,459.00
€ / R	On 16/09/2019	Foreign Exchange Future	18.60	Call	617.59430		0.61759		639.90360	0.63990	617.594	18.75	0.36	0.00	0	55,000.00
€ / R	On 13/12/2019	Foreign Exchange Future			17.69040		17.69040		17.74500	17.74500		17.41	0.00	0.00	0	277.00
€ / R	On 13/12/2019	Foreign Exchange Future	13.73	Put	57.84620		0.05785		57.69250	0.05769	57.846	16.28	0.05	0.00	0	17,150.00
€ / R	On 13/12/2019	Foreign Exchange Future	16.15	Put	447.37890		0.44738		434.13910	0.43414	447.379	15.85	0.25	0.00	0	17,150.00
€ / R	On 13/12/2019	Foreign Exchange Future	20.62	Call	485.56250		0.48556		500.53760	0.50054	485.563	20.51	0.25	0.00	0	17,150.00
€ / R	On 16/03/2020	Foreign Exchange Future			18.00940		18.00940		18.06550	18.06550		17.63	0.00	0.00	0	0.00
5Y STND	On 21/12/2021	Interest Rate Swap			97.07000		97.07000		97.16000	97.16000			0.00	0.00	0	51.00
AL37	On 07/02/2019	Index Future			612.04600		612.04600		611.88800	611.88800			0.00	0.00	0	0.00
AL37	On 02/05/2019	Index Future			622.73600		622.73600		622.57800	622.57800			0.00	0.00	0	0.00
AL37	On 01/08/2019	Index Future			634.88000		634.88000		634.72200	634.72200			0.00	0.00	0	0.00
AL7T	On 07/02/2019	Index Future			705.50400		705.50400		705.06000	705.06000			0.00	0.00	0	0.00
AL7T	On 02/05/2019	Index Future			717.82600		717.82600		717.37900	717.37900			0.00	0.00	0	0.00
AL7T	On 01/08/2019	Index Future			731.82500		731.82500		731.37200	731.37200			0.00	0.00	0	0.00
ALBI	On 07/02/2019	Index Future			638.00100		638.00100		637.37100	637.37100			0.00	6,380,010.00	1	907.00
ALBI	On 02/05/2019	Index Future			649.14400		649.14400		648.50600	648.50600			0.00	0.00	0	0.00
ALBI	On 01/08/2019	Index Future			661.80300		661.80300		661.15600	661.15600			0.00	0.00	0	0.00
AU\$ / R	On 18/03/2019	Foreign Exchange Future			10.25760		10.25760		10.26420	10.26420		14.14	0.00	0.00	0	5,944.00

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
AU\$ / R	On 14/06/2019	Foreign Exchange Future			10.38610		10.38610		10.39060	10.39060		14.25	0.00	2,596,525.00	250	15,743.00
AU\$ / R	On 16/09/2019	Foreign Exchange Future			10.52590		10.52590		10.52910	10.52910		14.23	0.00	1,052,590.00	100	0.00
AU\$ / R	On 13/12/2019	Foreign Exchange Future			10.66020		10.66020		10.66270	10.66270		14.21	0.00	0.00	0	400.00
AU\$ / R	On 13/12/2019	Foreign Exchange Future	11.00	Call	464.03760		0.46404		467.98170	0.46798	464.038	14.71	0.44	0.00	0	1,000.00
AU\$ / R	On 16/03/2020	Foreign Exchange Future			10.81340		10.81340		10.81660	10.81660		14.87	0.00	0.00	0	0.00
CAD/ R	On 18/03/2019	Foreign Exchange Future			10.67870		10.67870		10.67870	10.67870		15.01	0.00	25,094,945.00	2,350	2,100.00
CAD/ R	On 14/06/2019	Foreign Exchange Future			10.81690		10.81690		10.81450	10.81450		15.04	0.00	0.00	0	0.00
CAD/ R	On 16/09/2019	Foreign Exchange Future			10.96580		10.96580		10.96240	10.96240		15.20	0.00	0.00	0	250.00
CAD/ R	On 13/12/2019	Foreign Exchange Future			10.98200		10.98200		10.97840	10.97840		15.25	0.00	0.00	0	0.00
CAD/ R	On 16/03/2020	Foreign Exchange Future			11.12400		11.12400		11.11880	11.11880		15.79	0.00	0.00	0	0.00
CF CANDO CAHF	On 18/03/2019	Can-Do Future			172.71000		172.71000		187.40000	187.40000			0.00	0.00	0	0.00
CHF / R	On 18/03/2019	Foreign Exchange Future			14.83580		14.83580		14.93630	14.93630		17.23	0.00	0.00	0	1,143.00
CHF / R	On 14/06/2019	Foreign Exchange Future			15.13060		15.13060		15.23210	15.23210		17.77	0.00	1,513,060.00	100	150.00
CHF / R	On 16/09/2019	Foreign Exchange Future			15.45450		15.45450		15.55630	15.55630		18.23	0.00	0.00	0	0.00
CHF / R	On 13/12/2019	Foreign Exchange Future			15.76460		15.76460		15.87290	15.87290		18.56	0.00	0.00	0	0.00
CHF / R	On 16/03/2020	Foreign Exchange Future			16.05980		16.05980		16.16260	16.16260		18.72	0.00	0.00	0	0.00
CNH / R	On 18/03/2019	Foreign Exchange Future			2.10920		2.10920		2.11170	2.11170		15.91	0.00	0.00	0	0.00
CNH / R	On 14/06/2019	Foreign Exchange Future			2.13250		2.13250		2.13470	2.13470		16.26	0.00	0.00	0	0.00
DKK / R	On 18/03/2019	Foreign Exchange Future			2.25070		2.25070		2.25830	2.25830		15.71	0.00	0.00	0	0.00
DKK / R	On 14/06/2019	Foreign Exchange Future			2.29440		2.29440		2.30190	2.30190		15.81	0.00	0.00	0	0.00
DKK / R	On 16/09/2019	Foreign Exchange Future			2.34120		2.34120		2.34860	2.34860		16.04	0.00	0.00	0	0.00
DKK / R	On 13/12/2019	Foreign Exchange Future			2.38240		2.38240		2.38930	2.38930		16.24	0.00	0.00	0	0.00
DKK / R	On 16/03/2020	Foreign Exchange Future			2.52450		2.52450		2.53200	2.53200		17.13	0.00	0.00	0	0.00
E170	On 01/08/2021	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
ES23	On 25/01/2023	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
ES23A	On 25/01/2023	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
ES26	On 25/01/2023	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
ES26A	On 02/04/2026	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
ES33	On 07/02/2019	Bond Future			11.06491		77.57247		11.07129	77.53561			0.00	0.00	0	494.00
ES33	On 02/05/2019	Bond Future			11.16451		75.13628		11.17106	75.09901			0.00	0.00	0	0.00
ES33	On 01/08/2019	Bond Future			11.26748		76.60201		11.27425	76.56410			0.00	0.00	0	0.00
ES33	On 15/09/2033	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
ES33A	On 15/09/2033	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
ES42	On 07/02/2019	Bond Future	11.29724		79.71488		11.30862	79.64021			0.00	0.00	0	5,169.00
ES42	On 02/05/2019	Bond Future	11.39686		76.84675		11.40860	76.77092			0.00	0.00	0	0.00
ES42	On 01/08/2019	Bond Future	11.49788		78.34615		11.51002	78.26893			0.00	0.00	0	0.00
ES42	On 25/04/2042	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
GOVI	On 07/02/2019	GOVI	631.44100		631.44100		630.79100	630.79100			0.00	6,314,410.00	1	450.00
GOVI	On 02/05/2019	GOVI	642.47000		642.47000		641.81100	641.81100			0.00	0.00	0	0.00
GOVI	On 01/08/2019	GOVI	654.99900		654.99900		654.33000	654.33000			0.00	0.00	0	0.00
HK\$/R	On 18/03/2019	Foreign Exchange Future	1.85680		1.85680		1.86010	1.86010		18.14	0.00	0.00	0	0.00
HK\$/R	On 14/06/2019	Foreign Exchange Future	1.88150		1.88150		1.88450	1.88450		18.58	0.00	0.00	0	0.00
I2025	On 07/02/2019	Bond Future	132.40368		132.40368		132.39964	132.39964			0.00	0.00	0	355.00
I2025	On 02/05/2019	Bond Future	134.74642		134.74642		134.74262	134.74262			0.00	0.00	0	0.00
I2025	On 01/08/2019	Bond Future	137.35968		137.35968		137.35593	137.35593			0.00	0.00	0	0.00
I2025	On 31/01/2025	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
I2029	On 07/02/2019	Bond Future	100.33257		100.33257		100.32915	100.32915			0.00	0.00	0	2,954.00
I2029	On 02/05/2019	Bond Future	101.03491		101.03491		101.03160	101.03160			0.00	0.00	0	0.00
I2029	On 01/08/2019	Bond Future	103.02937		103.02937		103.02617	103.02617			0.00	0.00	0	0.00
I2033	On 14/08/2015	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
I2033	On 07/02/2019	Bond Future	102.19927		102.19927		102.19562	102.19562			0.00	0.00	0	5,890.00
I2033	On 02/05/2019	Bond Future	102.86228		102.86228		102.85876	102.85876			0.00	0.00	0	0.00
I2033	On 01/08/2019	Bond Future	104.89284		104.89284		104.88939	104.88939			0.00	0.00	0	0.00
I2033	On 28/02/2033	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
I2038	On 07/02/2019	Bond Future	120.24027		120.24027		120.23596	120.23596			0.00	0.00	0	9,955.00
I2038	On 02/05/2019	Bond Future	122.36775		122.36775		122.36379	122.36379			0.00	0.00	0	0.00
I2038	On 01/08/2019	Bond Future	124.73086		124.73086		124.72689	124.72689			0.00	0.00	0	0.00
I2038	On 31/01/2038	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
I2046	On 07/02/2019	Bond Future	114.38615		114.38615		114.38210	114.38210			0.00	0.00	0	12,458.00
I2046	On 02/05/2019	Bond Future	114.72422		114.72422		114.72015	114.72015			0.00	0.00	0	0.00
I2046	On 01/08/2019	Bond Future	116.98901		116.98901		116.98507	116.98507			0.00	0.00	0	0.00
I2046	On 31/03/2046	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
I2050	On 07/02/2019	Bond Future	118.14788		118.14788		118.14349	118.14349			0.00	0.00	0	10,568.00
I2050	On 02/05/2019	Bond Future	120.23836		120.23836		120.23418	120.23418			0.00	0.00	0	0.00
I2050	On 01/08/2019	Bond Future	120.79356		120.79356		120.78940	120.78940			0.00	0.00	0	0.00
I2050	On 31/12/2050	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
IGOV	On 07/02/2019	Index Future			253.77600		253.77600		253.75200	253.75200			0.00	0.00	0	518.00
IGOV	On 02/05/2019	Index Future			258.26500		258.26500		258.24200	258.24200			0.00	0.00	0	215.00
IGOV	On 01/08/2019	Index Future			263.36300		263.36300		263.34100	263.34100			0.00	0.00	0	0.00
JIBAR FUTURE	On 20/03/2019	Jibar Tradeable Future			7.01000		92.99000		7.01000	92.99000			0.00	0.00	0	0.00
JIBAR FUTURE	On 19/06/2019	Jibar Tradeable Future			7.03000		92.97000		7.03000	92.97000			0.00	0.00	0	0.00
KES / R	On 18/03/2019	Foreign Exchange Future			0.14060		0.14060		0.14090	0.14090			0.00	0.00	0	0.00
KES / R	On 14/06/2019	Foreign Exchange Future			0.13970		0.13970		0.14080	0.14080			0.00	0.00	0	2,166.00
KES / R	On 16/09/2019	Foreign Exchange Future			0.13900		0.13900		0.14060	0.14060			0.00	0.00	0	0.00
KES / R	On 13/12/2019	Foreign Exchange Future			0.13940		0.13940		0.13840	0.13840			0.00	0.00	0	0.00
KES / R	On 16/03/2020	Foreign Exchange Future			0.14030		0.14030		0.13590	0.13590			0.00	0.00	0	0.00
NOK/R	On 18/03/2019	Foreign Exchange Future			1.67890		1.67890		1.68280	1.68280		15.00	0.00	0.00	0	0.00
NOK/R	On 14/06/2019	Foreign Exchange Future			1.70380		1.70380		1.70750	1.70750		14.76	0.00	0.00	0	0.00
NZ\$ / R	On 18/03/2019	Foreign Exchange Future			9.75090		9.75090		9.75850	9.75850		14.26	0.00	0.00	0	0.00
NZ\$ / R	On 14/06/2019	Foreign Exchange Future			9.87410		9.87410		9.88040	9.88040		14.31	0.00	0.00	0	0.00
NZ\$ / R	On 16/09/2019	Foreign Exchange Future			10.00800		10.00800		10.01310	10.01310		14.68	0.00	0.00	0	0.00
NZ\$ / R	On 13/12/2019	Foreign Exchange Future			10.13480		10.13480		10.14040	10.14040		15.00	0.00	0.00	0	0.00
NZ\$ / R	On 16/03/2020	Foreign Exchange Future			10.67130		10.67130		10.67320	10.67320		16.13	0.00	0.00	0	0.00
PULA / R	On 18/03/2019	Foreign Exchange Future			1.34860		1.34860		1.34880	1.34880			0.00	0.00	0	0.00
PULA / R	On 14/06/2019	Foreign Exchange Future			1.35520		1.35520		1.35260	1.35260			0.00	0.00	0	0.00
QUANTO £ / \$	On 18/03/2019	Foreign Exchange Future			1.27850		1.27850		1.27330	1.27330			0.00	0.00	0	400.00
QUANTO £ / \$	On 14/06/2019	Foreign Exchange Future			1.28380		1.28380		1.27850	1.27850			0.00	0.00	0	0.00
QUANTO £ / \$	On 16/09/2019	Foreign Exchange Future			1.28930		1.28930		1.28390	1.28390			0.00	0.00	0	0.00
QUANTO £ / \$	On 13/12/2019	Foreign Exchange Future			1.29430		1.29430		1.28900	1.28900			0.00	0.00	0	0.00
QUANTO £ / \$	On 16/03/2020	Foreign Exchange Future			1.29930		1.29930		1.29390	1.29390			0.00	0.00	0	0.00
QUANTO € / \$	On 18/03/2019	Foreign Exchange Future			1.15090		1.15090		1.15270	1.15270			0.00	0.00	0	10.00
QUANTO € / \$	On 14/06/2019	Foreign Exchange Future			1.15970		1.15970		1.16140	1.16140			0.00	0.00	0	582.00
QUANTO € / \$	On 16/09/2019	Foreign Exchange Future			1.16910		1.16910		1.17080	1.17080			0.00	0.00	0	0.00
QUANTO € / \$	On 13/12/2019	Foreign Exchange Future			1.17800		1.17800		1.17960	1.17960			0.00	0.00	0	0.00
QUANTO € / \$	On 16/03/2020	Foreign Exchange Future			1.18380		1.18380		1.18550	1.18550			0.00	0.00	0	0.00
R186	On 07/02/2019	Bond Future			8.90265		110.39530		8.90847	110.36105		6.82	0.00	0.00	0	74,462.00
R186	On 07/02/2019	Bond Future	8.30	Call	53.52000		0.05352		61.70000	0.06170	53.520	6.28	0.06	0.00	0	210.00
R186	On 07/02/2019	Bond Future	8.50	Call	165.99000		0.16599		180.94000	0.18094	165.990	6.27	0.15	0.00	0	1,000.00
R186	On 07/02/2019	Bond Future	8.77	Call	581.26000		0.58126		602.21000	0.60221	581.260	6.46	0.37	0.00	0	1,170.00
R186	On 07/02/2019	Bond Future	9.10	Put	482.24000		0.48224		526.01000	0.52601	482.240	6.72	0.31	0.00	0	1,000.00
R186	On 07/02/2019	Bond Future	9.20	Call	2,061.90000		2.06190		2,064.76000	2.06476	2,061.900	6.79	0.77	0.00	0	3,000.00
R186	On 07/02/2019	Bond Future	9.23	Call	2,197.42000		2.19742		2,198.19000	2.19819	2,197.420	6.81	0.79	0.00	0	3,000.00

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
R186	On 07/02/2019	Bond Future	9.27	Call	2,383.27000		2.38327	2,381.27000	2.38127	2,383.270	6.84	0.81	0.00	0	1,170.00	
R186	On 07/02/2019	Bond Future	9.30	Put	219.77000		0.21977	249.98000	0.24998	219.770	6.86	0.17	0.00	0	7,500.00	
R186	On 07/02/2019	Bond Future	9.38	Call	2,918.96000		2.91896	2,909.62000	2.90962	2,918.960	6.92	0.87	0.00	0	6,000.00	
R186	On 07/02/2019	Bond Future	9.50	Put	90.47000		0.09047	108.32000	0.10832	90.470	7.02	0.08	0.00	0	5,000.00	
R186	On 07/02/2019	Bond Future	9.90	Put	13.75000		0.01375	18.51000	0.01851	13.750	7.52	0.01	0.00	0	1,000.00	
R186	On 07/02/2019	Bond Future	9.92	Put	12.46000		0.01246	16.89000	0.01689	12.460	7.54	0.01	0.00	0	1,170.00	
R186	On 02/05/2019	Bond Future			8.95715	112.32360		8.96319	112.28897		6.83	0.00	0.00	0	3,050.00	
R186	On 02/05/2019	Bond Future	8.50	Call	622.54000		0.62254	629.41000	0.62941	622.540	6.17	0.26	0.00	0	7,000.00	
R186	On 02/05/2019	Bond Future	8.62	Call	847.38000		0.84738	854.11000	0.85411	847.380	6.29	0.32	0.00	0	90.00	
R186	On 02/05/2019	Bond Future	8.65	Call	910.55000		0.91055	917.16000	0.91716	910.550	6.32	0.34	0.00	0	3,250.00	
R186	On 02/05/2019	Bond Future	8.70	Call	1,022.08000		1.02208	1,028.41000	1.02841	1,022.080	6.37	0.37	0.00	0	200.00	
R186	On 02/05/2019	Bond Future	8.80	Call	1,266.90000		1.26690	1,272.38000	1.27238	1,266.900	6.46	0.42	0.00	0	7,500.00	
R186	On 02/05/2019	Bond Future	9.00	Call	1,843.71000		1.84371	1,846.37000	1.84637	1,843.710	6.64	0.53	0.00	0	7,000.00	
R186	On 02/05/2019	Bond Future	9.20	Call	2,525.33000		2.52533	2,523.92000	2.52392	2,525.330	6.79	0.63	0.00	0	90.00	
R186	On 02/05/2019	Bond Future	9.25	Call	2,711.35000		2.71135	2,708.79000	2.70879	2,711.350	6.83	0.65	0.00	0	3,250.00	
R186	On 02/05/2019	Bond Future	9.30	Call	2,903.98000		2.90398	2,900.26000	2.90026	2,903.980	6.87	0.68	0.00	0	200.00	
R186	On 02/05/2019	Bond Future	9.75	Put	429.71000		0.42971	450.21000	0.45021	429.710	7.34	0.17	0.00	0	7,000.00	
R186	On 02/05/2019	Bond Future	9.96	Put	298.00000		0.29800	314.48000	0.31448	298.000	7.62	0.12	0.00	0	90.00	
R186	On 02/05/2019	Bond Future	10.02	Put	268.61000		0.26861	284.05000	0.28405	268.610	7.70	0.11	0.00	0	3,250.00	
R186	On 02/05/2019	Bond Future	10.07	Put	246.66000		0.24666	261.29000	0.26129	246.660	7.77	0.10	0.00	0	200.00	
R186	On 01/08/2019	Bond Future			9.00787	109.21297		9.01418	109.17780		6.89	0.00	0.00	0	0.00	
R186	On 01/08/2019	Bond Future	8.30	Call	581.20000		0.58120	583.63000	0.58363	581.200	5.84	0.21	0.00	0	6,000.00	
R186	On 01/08/2019	Bond Future	9.05	Call	2,345.93000		2.34593	2,343.05000	2.34305	2,345.930	6.70	0.53	0.00	0	6,000.00	
R186	On 01/08/2019	Bond Future	10.08	Put	662.59000		0.66259	681.19000	0.68119	662.590	7.98	0.18	0.00	0	6,000.00	
R186	On 21/12/2026	Price Contribution			100.00000	100.00000		100.00000	100.00000			0.00	0.00	0	0.00	
R186/R207	On 21/12/2026	Price Contribution			100.00000	100.00000		100.00000	100.00000			0.00	0.00	0	0.00	
R186/R208	On 21/12/2026	Price Contribution			100.00000	100.00000		100.00000	100.00000			0.00	0.00	0	0.00	
R197	On 07/02/2019	Bond Future			299.44723	299.44723		299.43988	299.43988			0.00	0.00	0	2,355.00	
R197	On 02/05/2019	Bond Future			304.74553	304.74553		304.73858	304.73858			0.00	0.00	0	0.00	
R197	On 01/08/2019	Bond Future			303.20243	303.20243		303.19575	303.19575			0.00	0.00	0	0.00	
R197	On 07/12/2023	Price Contribution			100.00000	100.00000		100.00000	100.00000			0.00	0.00	0	0.00	
R202	On 07/02/2019	Bond Future			230.94814	230.94814		230.93991	230.93991			0.00	0.00	0	8,805.00	
R202	On 02/05/2019	Bond Future			235.03453	235.03453		235.02685	235.02685			0.00	0.00	0	0.00	
R202	On 01/08/2019	Bond Future			235.65914	235.65914		235.65152	235.65152			0.00	0.00	0	0.00	
R202	On 07/12/2033	Price Contribution			100.00000	100.00000		100.00000	100.00000			0.00	0.00	0	0.00	
R2023	On 07/02/2019	Bond Future			8.12204	102.26523		8.12779	102.24589		3.20	0.00	0.00	0	62,040.00	
R2023	On 02/05/2019	Bond Future			8.15085	100.12198		8.15693	100.10253		3.63	0.00	0.00	0	0.00	
R2023	On 01/08/2019	Bond Future			8.16564	102.07497		8.17217	102.05525		3.49	0.00	0.00	0	0.00	
R2023	On 28/02/2023	Price Contribution			100.00000	100.00000		100.00000	100.00000			0.00	0.00	0	0.00	

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
R2030	On 07/02/2019	Bond Future			9.41371		90.71807		9.42970	90.61725		9.62	0.00	0.00	0	56,795.00
R2030	On 07/02/2019	Bond Future	8.90	Call	122.63000		0.12263		129.92000	0.12992	122.630	8.69	0.10	0.00	0	1,320.00
R2030	On 07/02/2019	Bond Future	9.18	Call	470.05000		0.47005		475.53000	0.47553	470.050	8.93	0.29	0.00	0	3,960.00
R2030	On 07/02/2019	Bond Future	9.60	Call	1,778.23000		1.77823		1,750.97000	1.75097	1,778.230	9.47	0.67	0.00	0	1,320.00
R2030	On 07/02/2019	Bond Future	9.68	Call	2,127.25000		2.12725		2,090.91000	2.09091	2,127.250	9.55	0.73	0.00	0	3,960.00
R2030	On 07/02/2019	Bond Future	10.20	Put	61.68000		0.06168		79.79000	0.07979	61.680	10.24	0.05	0.00	0	3,960.00
R2030	On 02/05/2019	Bond Future			9.47355		92.30290		9.49006	92.20051		9.48	0.00	0.00	0	0.00
R2030	On 02/05/2019	Bond Future	8.90	Call	568.53000		0.56853		562.41000	0.56241	568.530	8.52	0.22	0.00	0	3,000.00
R2030	On 02/05/2019	Bond Future	9.40	Call	1,724.87000		1.72487		1,700.46000	1.70046	1,724.870	9.12	0.47	0.00	0	3,000.00
R2030	On 02/05/2019	Bond Future	10.20	Put	593.87000		0.59387		632.44000	0.63244	593.870	10.05	0.19	0.00	0	3,000.00
R2030	On 01/08/2019	Bond Future			9.53399		90.09811		9.55111	89.99388		9.63	0.00	0.00	0	0.00
R2030	On 31/01/2030	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2032	On 07/02/2019	Bond Future			9.63520		92.84377		9.64613	92.76917		10.41	0.00	278,531.31	3	43,475.00
R2032	On 02/05/2019	Bond Future			9.69498		90.30896		9.70625	90.23315		10.73	0.00	0.00	0	0.00
R2032	On 01/08/2019	Bond Future			9.75350		92.07068		9.76513	91.99359		10.37	0.00	0.00	0	0.00
R2032	On 31/03/2032	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2035	On 07/02/2019	Bond Future			9.79618		96.66034		9.80714	96.57748		10.81	0.00	0.00	0	71,434.00
R2035	On 02/05/2019	Bond Future			9.85420		93.84877		9.86546	93.76469		11.35	0.00	0.00	0	0.00
R2035	On 01/08/2019	Bond Future			9.91209		95.67944		9.92371	95.59380		10.88	0.00	0.00	0	0.00
R2035	On 28/02/2035	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2037	On 07/02/2019	Bond Future			9.85884		88.93835		9.86972	88.85558		12.22	0.00	0.00	0	57,970.00
R2037	On 02/05/2019	Bond Future			9.91903		90.49210		9.93021	90.40804		12.04	0.00	0.00	0	0.00
R2037	On 01/08/2019	Bond Future			9.98077		88.00171		9.99229	87.91619		12.22	0.00	0.00	0	0.00
R2037	On 31/01/2037	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2040	On 06/10/2015	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2040	On 07/02/2019	Bond Future			9.92866		92.16465		9.94461	92.03435		12.61	0.00	0.00	0	31,965.00
R2040	On 02/05/2019	Bond Future			9.98846		93.77480		10.00485	93.64241		12.43	0.00	0.00	0	0.00
R2040	On 02/05/2019	Bond Future	9.60	Call	1,172.06000		1.17206		1,157.23000	1.15723	1,172.060	11.17	0.31	0.00	0	1,150.00
R2040	On 02/05/2019	Bond Future	10.20	Call	3,575.38000		3.57538		3,526.06000	3.52606	3,575.380	12.36	0.61	0.00	0	1,150.00
R2040	On 01/08/2019	Bond Future			10.04992		91.09807		10.06681	90.96330		12.63	0.00	0.00	0	0.00
R2040	On 31/01/2040	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2044	On 07/02/2019	Bond Future			9.95261		89.26927		9.96853	89.13719		13.19	0.00	0.00	0	37,400.00
R2044	On 02/05/2019	Bond Future			10.01017		90.82881		10.02651	90.69466		13.00	0.00	0.00	0	0.00
R2044	On 01/08/2019	Bond Future			10.06925		88.21985		10.08609	88.08317		13.23	0.00	0.00	0	0.00
R2044	On 31/01/2044	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R2048	On 07/02/2019	Bond Future			9.92801		92.82549		9.94901	92.64641		12.58	0.00	0.00	0	107,561.00
R2048	On 02/05/2019	Bond Future			9.98022		90.01032		10.00177	89.82832		13.26	0.00	0.00	0	0.00

Contract Details			Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
R2048	On 01/08/2019	Bond Future			10.03231		91.76614		10.05449	91.58069		12.74	0.00	0.00	0	0.00
R2048	On 28/02/2048	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R207	On 07/02/2019	Bond Future			5.78404		101.85295		5.75125	101.88234		0.31	0.00	0.00	0	15,739.00
R207	On 02/05/2019	Bond Future			5.16051		103.63213		5.11624	103.66225		0.35	0.00	0.00	0	0.00
R207	On 01/08/2019	Bond Future			3.56394		102.01138		3.49477	102.04222		0.20	0.00	0.00	0	0.00
R207	On 15/01/2020	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R207/R203	On 15/01/2020	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R208	On 07/02/2019	Bond Future			6.97069		102.06257		6.97011	102.06370		1.13	0.00	0.00	0	17,335.00
R208	On 02/05/2019	Bond Future			6.88054		100.44449		6.87976	100.44586		1.45	0.00	0.00	0	0.00
R208	On 01/08/2019	Bond Future			6.71427		102.40386		6.71329	102.40537		1.34	0.00	0.00	0	0.00
R208	On 31/03/2021	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R208/R204	On 31/03/2021	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R208/R207	On 31/03/2021	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R209	On 07/02/2019	Bond Future			9.73148		73.55436		9.73723	73.51727		12.12	0.00	0.00	0	117,572.00
R209	On 07/02/2019	Bond Future	9.04	Call	43.35000		0.04335		51.08000	0.05108	43.350	10.92	0.04	0.00	0	4,000.00
R209	On 07/02/2019	Bond Future	9.54	Call	573.98000		0.57398		599.63000	0.59963	573.980	11.39	0.33	0.00	0	4,000.00
R209	On 07/02/2019	Bond Future	10.20	Put	234.60000		0.23460		267.80000	0.26780	234.600	12.43	0.15	0.00	0	4,000.00
R209	On 02/05/2019	Bond Future			9.78384		71.69025		9.78973	71.65264		12.78	0.00	0.00	0	0.00
R209	On 02/05/2019	Bond Future	9.35	Call	875.28000		0.87528		884.74000	0.88474	875.280	11.77	0.29	0.00	0	760.00
R209	On 02/05/2019	Bond Future	9.95	Call	2,653.30000		2.65330		2,656.03000	2.65603	2,653.300	12.71	0.59	0.00	0	760.00
R209	On 02/05/2019	Bond Future	10.50	Put	661.72000		0.66172		688.92000	0.68892	661.720	13.64	0.20	0.00	0	11,560.00
R209	On 02/05/2019	Bond Future	10.71	Put	475.81000		0.47581		498.47000	0.49847	475.810	14.12	0.15	0.00	0	760.00
R209	On 01/08/2019	Bond Future			9.83496		73.08877		9.84101	73.05051		12.37	0.00	0.00	0	0.00
R209	On 31/03/2036	Price Contribution			6.25000		6.25000		6.25000	6.25000			0.00	0.00	0	0.00
R209/R186	On 31/03/2036	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R209/R204	On 31/03/2036	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R209/R208	On 31/03/2036	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R210	On 07/02/2019	Bond Future			185.96500		185.96500		185.95880	185.95880			0.00	0.00	0	2,448.00
R210	On 02/05/2019	Bond Future			186.69976		186.69976		186.69377	186.69377			0.00	0.00	0	0.00
R210	On 01/08/2019	Bond Future			190.38535		190.38535		190.37949	190.37949			0.00	0.00	0	0.00
R210	On 31/03/2028	Price Contribution			100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R212	On 07/02/2019	Bond Future			155.80611		155.80611		155.80241	155.80241			0.00	0.00	0	4,976.00
R212	On 02/05/2019	Bond Future			158.56303		158.56303		158.55953	158.55953			0.00	0.00	0	0.00

Contract Details	Strike	Call / Put	MTM	Yield	Mark Price	Spot Rate	Previous MTM	Previous Price	Premium On Option	Volatility	Delta	Delta Value	Contracts Traded	Open Interest
R212	On 01/08/2019	Bond Future	161.62197		161.62197		161.61863	161.61863			0.00	0.00	0	0.00
R212	On 31/01/2022	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R213	On 07/02/2019	Bond Future	9.51972		85.35063		9.53065	85.28293		9.86	0.00	0.00	0	32,702.00
R213	On 02/05/2019	Bond Future	9.57435		83.29217		9.58559	83.22350		10.38	0.00	0.00	0	0.00
R213	On 01/08/2019	Bond Future	9.62800		84.91689		9.63961	84.84700		10.04	0.00	0.00	0	0.00
R213	On 28/02/2031	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R213/R186	On 28/02/2031	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R214	On 07/02/2019	Bond Future	9.90776		72.64189		9.91861	72.56932		12.93	0.00	0.00	0	31,531.00
R214	On 02/05/2019	Bond Future	9.95951		70.61503		9.97063	70.54131		13.65	0.00	0.00	0	0.00
R214	On 01/08/2019	Bond Future	10.01108		71.99244		10.02250	71.91743		13.16	0.00	0.00	0	0.00
R214	On 28/02/2041	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
R214/R209	On 28/02/2041	Price Contribution	100.00000		100.00000		100.00000	100.00000			0.00	0.00	0	0.00
SGD / R	On 18/03/2019	Foreign Exchange Future	10.66890		10.66890		10.66490	10.66490		15.64	0.00	0.00	0	0.00
SGD / R	On 14/06/2019	Foreign Exchange Future	10.81520		10.81520		10.80910	10.80910		15.64	0.00	0.00	0	0.00
TRY / R	On 18/03/2019	Foreign Exchange Future	2.63930		2.63930		2.65150	2.65150		20.65	0.00	0.00	0	14,000.00
TRY / R	On 14/06/2019	Foreign Exchange Future	2.55250		2.55250		2.56200	2.56200		20.95	0.00	0.00	0	0.00

Total for Derivatives : **194,545,706.71** **13,019** **7 827 105.00**

Grand Total: **194,545,706.71** **13,019** **7 827 105.00**