

Long Term Demand Forecasting and Power Procurement of Distribution Licensees in Jharkhand



Agenda for Discussion

- Comparison of Projected and Actual Sales of the Discoms
- Trend of Power Purchase by the Discoms
- Comparison of ABR of the Discoms
- Comparison of Distribution Losses of the Discoms



Comparison of Projected and Actual Sales In MU

Discom	FY 2013-14			FY 2014-15			FY 2015-16		
	MYT Petition	MYT Order	True- up	MYT Petition	MYT Order	True- up	MYT Petition	MYT Order	True- up
DVC (Jh)	9611	9611	9611	11549	10439	9815	12336	10977	10253
JBVNL*	1892	1892	1697	7970	7970	7545	8196	8246	9059
JUSCO	310	300	300	333	321	384	354	342	466
BSL	1322	1291	928	1379	1291	930	1440	1291	644
TSL	3029	2560	2558	3160	2721	2757	3463	2904	2887

Discom	FY 2016-17			FY 2017-18			FY 2018-19		
	MYT Petition	MYT Order	True- up	MYT Petition	MYT Order	True- up	MYT Petition	MYT Order	APR
DVC (Jh)	10997	10338	10361	11662	10897	10984	12386	11442	10259
JBVNL	9760	8651	8721	12205	11111	9614	15483	14201	10010
JUSCO	506	497	481	528	509	583	561	541	727
BSL	664	655		677	673		702	694	
TSL	3010	3004	2877	3070	3081	3003	3185	3202	2935

* Values of JBVNL for FY 2013-14 is for 3 months from January 2014 due to unbundling from JSEB

Comparison of Projected and Actual Sales

In MU

Discom	FY 2019-20			FY 2020-21	
	MYT Petition	MYT Order	ARR	MYT Petition	MYT Order
DVC (Jh)	13158	12014	7188	13963	12614
JBVNL	16266	14556	11011	17133	14961
JUSCO	601	584	774	618	600
BSL	731	723	NA	765	761
TSL	3249	3283	2958	3332	3365



Trend of Power Purchase

Discom	Term	FY 2016-17			FY 2017-18		
		MYT Petition	MYT Order	True-up	MYT Petition	MYT Order	True-up
DVC	Long Term (%)	100.66%	100.68%	100.69%	100.00%	100.00%	100.00%
	Medium Term (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Short Term (%)	-0.66%	-0.68%	-0.69%	0.00%	0.00%	0.00%
JBVNL	Long Term (%)	99.37%	100.00%	96.40%	96.15%	100.00%	96.87%
	Medium Term (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Short Term (%)	0.63%	0.00%	3.60%	3.85%	0.00%	3.13%
JUSCO	Long Term (%)	100.00%	100.00%		100.00%	100.00%	
	Medium Term (%)	0.00%	0.00%		0.00%	0.00%	
	Short Term (%)	0.00%	0.00%		0.00%	0.00%	
BSL	Long Term (%)	100.00%	100.00%		100.00%	100.00%	
	Medium Term (%)	0.00%	0.00%		0.00%	0.00%	
	Short Term (%)	0.00%	0.00%		0.00%	0.00%	
TSL	Long Term (%)	99.87%	100.00%		99.87%	100.00%	
	Medium Term (%)	0.00%	0.00%		0.00%	0.00%	
	Short Term (%)	0.13%	0.00%		0.13%	0.00%	

Comparison of ABR (Average Billing Rate)

In Rs./kWh

Discom	DVC	JBVNL	JUSCO	BSL	TSL
ABR (Domestic)	4.29	6.16	3.13	3.55	4.21
ABR (Non-domestic)	4.54	6.60	5.20	6.75	6.41
ABR (IAS-Agriculture)		5.09			
ABR (LTIS)		6.92	5.28	7.18	5.50
ABR (HTS/HTSS)	4.52	6.65	5.58	5.68	6.61
ABR (MES, RTS)	4.60	7.00			6.50
ABR (Average)*	4.57	6.32	5.54	6.36	6.11



Comparison of Distribution Losses

Discom	DVC	JBVNL	JUSCO	SAIL[#]	TSL
Distribution Loss for FY 2017-18	3.23%	23.19%	0.98%	42.43%	2.30%

#- Actual Value for FY 2015-16



Thank You



Discom	Term	FY 2013-14			FY 2014-15			FY 2015-16			FY 2016-17			FY 2017-18		
		MYT Petition	MYT Order	True-up	MYT Petition	MYT Order	True-up	MYT Petition	MYT Order	True-up	MYT Petition	MYT Order	True-up	MYT Petition	MYT Order	True-up
DVC	CGS	18654	16325	16400	19684	19796	16125	20955	20302	16672	19361	18683	18243	20787	19946	18909
	SGS															
	IPPs	1179	1141	1179	1829	228	1278	1931	816	1583	897	897	897	763	763	1042
	Long Term Total	19832	17466	17579	21513	20024	17403	22886	21117	18256	20258	19580	19140	21549	20709	19951
	Medium Term Total															
	Power Exchanges															
	UI	113	113				66					-132	-132	-132		
	Other						136									
	Short Term Total	113	113	0	0	0	202	0	0	0	-132	-132	-132	0	0	0
	Grand Total	19945	17579	17579	21513	20024	17605	22886	21117	18256	20126	19449	19008	21549	20709	19951
	Long Term (%)	99.44%	99.36%	100.00%	100.00%	100.00%	98.85%	100.00%	100.00%	100.00%	100.00%	100.66%	100.68%	100.69%	100.00%	100.00%
	Medium Term (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Short Term (%)	0.56%	0.64%	0.00%	0.00%	0.00%	1.15%	0.00%	0.00%	0.00%	0.00%	-0.66%	-0.68%	-0.69%	0.00%	0.00%
	CGS	1683	1864	1589	7651	7651	7124	7854	7286	7924	8905	8351	8711	10440	10181	8987
	SGS	821	821	775	3153	3153	2770	2798	3153	2761	2945	3575	3575	1573	3575	1862
IPPs	283	283	284	1023	1023	1131	1347	1297	1570	1492	1407	1756	1407	1407	1627	
Long Term Total	2787	2968	2647	11827	11827	11024	11999	11736	12255	13342	12703	12040	15422	15164	12475	
Medium Term Total																
Power Exchanges																
UI	13	13	-57			-54							296		248	
Other	181	169	169	128	128	528	192	0	124	85	0	154	618	0	155	
Short Term Total	194	13	112	128	128	475	0	0	124	85	0	450	618	0	403	
Grand Total	2981	2981	2759	11955	11955	11499	11999	11736	12380	13427	11999	12703	12489	16040	15164	
Long Term (%)	93.50%	99.57%	95.94%	98.93%	98.93%	95.87%	100.00%	100.00%	99.00%	99.37%	100.00%	96.40%	96.15%	100.00%	96.87%	
Medium Term (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Short Term (%)	6.50%	0.43%	4.06%	1.07%	1.07%	4.13%	0.00%	0.00%	1.00%	0.63%	0.00%	3.60%	3.85%	0.00%	3.13%	
CGS	236	235	220	53	55	285	33	35	340	324	338	307	338	338	338	
SGS	82	72	83	287	269	102	328	303	132	195	169	235	181	181	181	
IPPs																
Long Term Total	318	307	303	340	324	387	361	338	471	519	507	0	542	519	0	
Medium Term Total																
Power Exchanges																
UI																
Other	8		10			12										
Short Term Total	8	0	0	10	0	12	12	0	0	0	0	0	0	0	0	
Grand Total	326	307	303	350	324	387	373	338	471	519	507	0	542	519	0	
Long Term (%)	97.50%	100.00%	100.00%	97.09%	100.00%	100.00%	96.72%	100.00%	100.00%	100.00%	100.00%	#DIV/0!	100.00%	100.00%	#DIV/0!	
Medium Term (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	#DIV/0!	0.00%	0.00%	#DIV/0!	
Short Term (%)	2.50%	0.00%	0.00%	2.91%	0.00%	0.00%	3.28%	0.00%	0.00%	0.00%	0.00%	#DIV/0!	0.00%	0.00%	#DIV/0!	
CGS	1377	1319	951	1432	1314	950	1489	1312	665	812	798	0	778	772	0	
SGS																
IPPs																
Long Term Total	1377	1319	951	1432	1314	950	1489	1312	665	812	798	0	778	772	0	
Medium Term Total																
Power Exchanges																
UI																
Other																
Short Term Total																
Grand Total	1377	1319	951	1432	1314	950	1489	1312	665	812	798	0	778	772	0	
Long Term (%)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	#DIV/0!	100.00%	100.00%	#DIV/0!	
Medium Term (%)																
Short Term (%)																
CGS	1608	1608	1417	1608	1608	1539	1612	1612	1489	1545	1608		1549	1608		
SGS	1549	872	1243	1678	985	1298	1967	1160	1485	1566	1482		1625	1563		
IPPs	223	223	7	284	284	19	292	292	17	20	20		20	20		
Long Term Total	3157	2703	2667	3286	2877	2855	3579	3064	2991	3131	3110	0	3193	3191	0	
Medium Term Total																
Power Exchanges																
UI																
Other	24			24			24		1	4			4			
Short Term Total	24	0	0	24	0	0	24	0	1	4	0	0	4	0	0	
Grand Total	3181	2703	2667	3310	2877	2855	3603	3064	2992	3135	3110	0	3197	3191	0	
Long Term (%)	99.25%	100.00%	100.00%	99.27%	100.00%	100.00%	99.33%	100.00%	99.97%	99.87%	100.00%	#DIV/0!	99.87%	100.00%	#DIV/0!	
Medium Term (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	#DIV/0!	0.00%	0.00%	#DIV/0!	
Short Term (%)	0.75%	0.00%	0.00%	0.73%	0.00%	0.00%	0.67%	0.00%	0.03%	0.13%	0.00%	#DIV/0!	0.13%	0.00%	#DIV/0!	
TSL																

