

BSES RAJDHANI POWER LIMITED		
Form 5.1 : Shunt Capacitor Addition/Repair Program		
S.NO.	PARTICULARS	CAPACITY (MVAR)
	Capacitor Additions	Total for FY 2004-05
1	Total Capacitors requirement at the end of Previous year*	931.76
2	Actual installed Capacitors at the end of the Previous year	911.00
3	Backlog / shortfall at the end of previous year (1-2)	20.76
4	Additional requirement for the Current Year	362
5	Total capacity required to be added during current year (3+4)	382.76
6	Actual installed during first six months of Current year	62.00
7	Target for remaining three months of the Current year	162.3
8	Total Capacitors likely to be added during Current Year (6+7)	224.30
9	Total capacity likely to be available by the end of the current year (2+8)	1135.30
10	Shortfall if any (5-8)	158.46
Repair of Defective Shunt Capacitors		
11	At the end of the Previous year (as 31-03-04)	72.909
12	Net capacity available by the end of previous year (2-11)	838.09
13	Capacitors damaged during first six months of the current year	289.65
14	Capacitors repaired during first six months of the current year	140.068
15	Net Capacity available by the end of 1st six months of the year (12-13+14+6)	750.51
16	Target level of damaged capacitors by the end of the current year	100
17	Net capacity likely to be available by the end of the current year (9-16)	1035.30
18	Net shortfall, by the end of the year (9-17)	100.00

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Form 5.2: Electrical Accidents

Type of Accident	No. of Accidents							
	2002-03 (Nine months)			Preceding year FY'03-04			ar FY'04-05 (Period.....)	
	FATAL	NON FATAL	Total	FATAL	NON FATAL	Total	FATAL	NON FATAL
HUMAN	2	5	7		6	6		
ANIMAL								
Total	2	5	7	0	6	6	0	0

Total
0
0

BSES RAJDHANI POWER LIMITED***Form 5.3 Abstract of outages due to feeder tripping***

S.NO	ITEM	YEAR : 2003 FY 2003-04 (Actual) up to Sept'03			YEAR : 2004 FY 03-04 Oct.-03 - March'04			FY 04-05 April-04 - September'04		
		NO. OF FEEDERS	NO. OF TRIPPINGS	TOTAL DURATION OF TRIPPINGS (Hrs.)	NO. OF FEEDERS	NO. OF TRIPPINGS	TOTAL DURATION OF TRIPPINGS (Hrs.)	NO. OF FEEDERS	NO. OF TRIPPINGS	TOTAL DURATION OF TRIPPINGS (Hrs.)
1	Feeder Voltage Level-66 KV	53	398	2617	57	179	554	64	474	1195
2	Feeder Voltage Level-33 KV	110	510	5975	86	342	965	89	800	1154
3	Feeder Voltage Level-11 KV	679	8408	34089	751	8005	19765	767	12965	30065
4	Average duration of interruption per feeder for voltage level-66 KV	0.1240			0.0543			0.0394		
5	Average duration of interruption per feeder for voltage level-33 KV	0.1065			0.0328			0.0162		
6	Average duration of interruption per feeder for voltage level-11 KV	0.0060			0.0033			0.0030		

Average interruption per feeder = Total duraion of interruptions / (no.of feeders x no.of trippings)

No. of feeders at 33 kv level for the period April - Sept. were sent 110 & for the period July - March 107 due to typographical error & area of MES transferred to Delhi Cantt.

Form 5.7 CATEGORY WISE LOAD SHEDDING
BSES RAJDHANI POWER LIMITED

S.NO.	PARTICULARS	TRANSCO LOW FREQUENCY / CONSTRAINTS /BD-SD	BSES 11 KV SHUTDOWN	BSES 11 KV BREAK DOWN	BSES 66/33 KV SHUTDOWN	BSES 66/33 KV BREAK DOWN	BSES 66/33 KV OVER LOADING	TOTAL IN MUS
(APRIL-2003 TO SEPTEMBER-2003)								
1	ON SLDC'S INSTRUCTION (TO CONTROL DRAWAL)	1.918	NIL	NIL	NIL	NIL	NIL	1.918
2	ON SLDC'S INSTRUCTION (TO AVOID OVERLOADING IN TRANSMISSION LICENSEE'S NETWORK)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	ON SLDC INSTRUCTIONS (DUE TO LOW VOLTAGE IN DPCL NETWORK)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	DUE TO OUTAGE IN TRANSMISSION LICENSEE'S NETWORK	5.264	NIL	NIL	NIL	NIL	NIL	5.264
5	DUE TO OUTAGE IN OWN NETWORK	NIL	NIL	58.3193	NIL	5.46	NIL	63.7793
6	DUE TO OUTAGE IN THE NETWORK OF SOME OTHER DISTRIBUTION LICENSEE	NIL	NIL	NIL	NIL	NIL	NIL	NIL
7	DUE TO TRANSMISSION CONSTRAINTS IN TRANSMISSION LICENSEE'S NETWORK	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8	TO AVOID OVERLOADING IN OWN NETWORK	NIL	NIL	NIL	NIL	NIL	17.018	17.018
9	TO AVOID OVERLOADING IN THE NETWORK OF SOME OTHER DISTRIBUTION LICENSEE	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	ANY OTHER REASON	NIL	8.965	NIL	5.808	NIL	NIL	14.773
	TOTAL FOR CURRENT YEAR	7.182	8.965	58.3193	5.808	5.46	17.018	102.8
(OCT-2003 TO MARCH-2004)								
1	ON SLDC'S INSTRUCTION (TO CONTROL DRAWAL)	1.617	NIL	NIL	NIL	NIL	NIL	1.617
2	ON SLDC'S INSTRUCTION (TO AVOID OVERLOADING IN TRANSMISSION LICENSEE'S NETWORK)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	ON SLDC INSTRUCTIONS (DUE TO LOW VOLTAGE IN DPCL NETWORK)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	DUE TO OUTAGE IN TRANSMISSION LICENSEE'S NETWORK	0.693	NIL	NIL	NIL	NIL	NIL	0.693
5	DUE TO OUTAGE IN OWN NETWORK	NIL	NIL	33.4504	NIL	3.991	NIL	37.441
6	DUE TO OUTAGE IN THE NETWORK OF SOME OTHER DISTRIBUTION LICENSEE	NIL	NIL	NIL	NIL	NIL	NIL	NIL
7	DUE TO TRANSMISSION CONSTRAINTS IN TRANSMISSION LICENSEE'S NETWORK	0	NIL	NIL	NIL	NIL	NIL	0.000
8	TO AVOID OVERLOADING IN OWN NETWORK	NIL	NIL	NIL	NIL	NIL	3.397	3.397
9	TO AVOID OVERLOADING IN THE NETWORK OF SOME OTHER DISTRIBUTION LICENSEE	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	ANY OTHER REASON	0.048	6.606	NIL	5.892	NIL	NIL	12.546
	TOTAL	2.358	6.6061	33.4504	5.892	3.991	3.397	55.6945
(APRIL-04 TO SEPTEMBER-04)								
1	ON SLDC'S INSTRUCTION (TO CONTROL DRAWAL)	8.289	NIL	NIL	NIL	NIL	NIL	8.289
2	ON SLDC'S INSTRUCTION (TO AVOID OVERLOADING IN TRANSMISSION LICENSEE'S NETWORK)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	ON SLDC INSTRUCTIONS (DUE TO LOW VOLTAGE IN DPCL NETWORK)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	DUE TO OUTAGE IN TRANSMISSION LICENSEE'S NETWORK	3.878	NIL	NIL	NIL	NIL	NIL	3.878
5	DUE TO OUTAGE IN OWN NETWORK	NIL	NIL	61.305	NIL	9.672	NIL	70.977
6	DUE TO OUTAGE IN THE NETWORK OF SOME OTHER DISTRIBUTION LICENSEE	NIL	NIL	NIL	NIL	NIL	NIL	NIL
7	DUE TO TRANSMISSION CONSTRAINTS IN TRANSMISSION LICENSEE'S NETWORK	0.349	NIL	NIL	NIL	NIL	NIL	0.349
8	TO AVOID OVERLOADING IN OWN NETWORK	NIL	NIL	NIL	NIL	NIL	5.169	5.169
9	TO AVOID OVERLOADING IN THE NETWORK OF SOME OTHER DISTRIBUTION LICENSEE	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	ANY OTHER REASON	0.891	9.3151	NIL	5.146	NIL	NIL	15.352
	TOTAL	13.407	9.3151	61.3054	5.146	9.672	5.169	104.0145

BSES RAJDHANI POWER LIMITED
Form 5.8 Overloaded Feeders
As on Oct'04

S.NO	AREA	NO. OF FEEDERS	LINE LENGTH (CKT. KM)	NO. OF FEEDERS OVERLOADED	LINE LENGTH OVERLOADED FEEDER (CKT. KM)	% NO. OF OVERLOADED FEEDER IN AREA	% LENGTH OF OVERLOADED FEEDER IN AREA
I	CIRCLE : WEST						
A	66 KV	30	164.58	6	62.9	20	38
B	33 KV	23	68.1	4	17.2	17	25
C	11 KV						
	JKP	69	310	0	0	0%	0%
	VKP	40	140	8	48	20%	34%
	PLM	51	286	13	45	25%	16%
	PJB	75	195	7	0	9%	0%
	NJF	25	390	10	141.73	40%	36%
	NGL	45	112	8	60	18%	54%
	SUB TOTAL CIRCLE 11 KV	305	1433	46	294.73	15%	21%
II	SOUTH						
A	66 KV	31	143.4	2	10	6.5	6.97
B	33 KV	66	288	9	39	13.6	13.54
C	11 KV						
	NHP	62	76.26	7	13.75	11.3	18.03
	ALN	72	105.41	2	5.3	2.8	5.03
	NZD	145	221.3	12	59.9	8.3	27.07
	RKP	91	136.5	25	31.38	27.5	22.99
	MLI	92	244.6	15	90	16.3	36.79
	SUB TOTAL CIRCLE 11 KV	462	784.07	61	200.33	13.2	25.55
TOTAL FOR COMPANY AT 66 KV		61	307.98	8	72.9	8.77	13.44
TOTAL FOR COMPANY AT 33 KV		89	356.1	13	56.2	6.97	11.2
TOTAL FOR COMPANY AT 11 KV		767	2217.07	107	495.06	20.77	20.32

Form 5.9 FAILURE OF TRANSFORMERS

S.NO.	ITEM	Year : 2003			Year : 2003			YEAR : 2004		
		FY 2003-04 (Actual) up to Sept'03			FY 03-04 Oct.-03 - March'04			FY 04-05 April-04 - September'04		
		NO. OF TRANSFORMERS	NO. OF FAILURES	TOTAL DURATION OF FAILURES (Hrs.)	NO. OF TRANSFORMERS	NO. OF FAILURES	TOTAL DURATION OF FAILURES (Hrs.)	NO. OF TRANSFORMERS	NO. OF FAILURES	TOTAL DURATION OF FAILURES (Hrs.)
	Transformation ratio									
1	Transformation ratio-1 (66/33 KV)	18	-	-	18	-	-	18	-	-
2	Transformation ratio-2 (66/11 KV)	52	1	180	53	-	-	56	1	309
3	Transformation ration-3 (33/11 KV)	87	-	-	92	-	-	93	-	-
4	Transformation ratio-4 (11 KV)	5291	128	1350	5461	20	502	5490	-	-
	Average duration of interruption									
5	Average duration of interruption per transformer for transformation ratio-1	-			-			-		
6	Average duration of interruption per transformer for transformation ratio-2	3.4615			-			5.5179		
7	Average duration of interruption per transformer for transformation ratio-3	-			-			-		
8	Average duration of interruption per transformer for transformation ratio-4	0.0020			0.0046			-		

Transformation ratios for Transmission Licensee are 400/220 kV, 220/66 kV, 220/33 kV while for Distribution Licensee, it is 66/33 kV, 66/11 kV, 33/11 kV and 11kV/400V .

Average duration of interruption per transformer = Total duration of interruptions /(no. of transformers x no.of failures)

BSES RAJDHANI POWER LIMITED
Form 5.10 Overloaded Transformers (DTRs)
As on Sep'04

S.NO.	Area	No. of DTRs in Area	No. of Overloaded DTRs in area	% number of overloaded DTRs
1	Circle : SOUTH			
	DISTRICT			
	66 KV			
	NHP	nil	nil	nil
	NZD	6	nil	0
	ALN	4	3	75
	RKP	3	nil	nil
	MLI	11	2	18
	SUB- TOTAL CIRCLE 66 KV	24	5	21
	33 KV			
	NHP	11	3	27
	NZD	16	3	19
	ALN	5	1	20
	RKP	23	4	17
	MLI	11	0	0
	SUB- TOTAL CIRCLE 33 KV	66	11	17
	11 KV			
	NHP	308	20	6.5
	NZD	886	32	3.6
	ALN	624	20	3.2
	RKP	575	25	4.3
	MLI	807	51	6.3
	SUB- TOTAL CIRCLE 11 KV	3200	148	4.6
2	Circle : WEST			
	DISTRICT			
	66 KV			
	JKP	9	7	78
	VKP	6	5	83
	PLM	8	--	nil
	PJB	--	--	nil
	NJF	2	2	100
	NGL	11	7	64
	SUB- TOTAL CIRCLE 66 KV	36	21	58
	33 KV			
	JKP	6	4	67
	VKP	--	--	--
	PLM	--	--	--
	PJB	15	12	80
	NJF	--	--	--
	NGL	1	0	0
	SUB- TOTAL CIRCLE 33 KV	22	16	73
	11 KV			
	JKP	415	111	27
	VKP	374	129	34
	PLM	374	60	16
	PJB	495	211	43
	NJF	656	76	12
	NGL	421	67	16
	SUB- TOTAL CIRCLE 11 KV	2735	654	24
	COMPANY AT 66 KV	60	26	43
	COMPANY AT 33 KV	88	27	31
	COMPANY AT 11 KV	5935	802	14

* The Petitioner planned to adopt the international norms i.e the transformer/equipment loading factor as 70%

Form 5.11: Ageing Schedule of Receivables as on 10th OCT 2004

BSES Rajdhani Power Limited

For Domestic and SIP consumers

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AS ON 10-OCT-2004 (As per database)

Sl. No.	Receivables						
		< 6 mths	6 mths to 1 year	1 to 2 years	2 to 3 years	3 to 4 years	>4 years
1	1.DOMESTIC SLAB	348587220	171613869	332076108	476508152	0	0
	2.DOMESTIC POWER	19577831	11370594.00	7507319.60	21979866.59	0.00	0.00
	3.STAFF	974585.57	1047790.90	131459.83	639068.25	0.00	0.00
	4.PLOT	1197187.9	1768535.20	14194127.00	84472220.96	0.00	0.00
	5.COMMERCIAL	210854915	110908876.00	470382451.00	496121060.48	0.00	0.00
	6.INDUSTRIAL	115996614	44214961.00	168185141.00	92874469.66	0.00	0.00
	7.AGRICULTURE	6717611.5	2024785.80	5069020.70	34237460.08	0.00	0.00
Total		703905964.97	342949411.90	997545627.13	1206832298.01	0	0

BSES Rajdhani Power Limited**Form 5.11: Ageing Schedule of Receivables as on 30th September of the current year**

(For Distribution Licensee)

In crores

For Key Consumers

Sl. No.	Receivables	Receivables of Holding Company*							
		As on the date transfer	Amount realised till the end of preceding year	< 6 month	6 month to 1 year	1 to 2 years	2 to 3 years	3 to 4 years	> 4 years
	BRPL								
a	LIP	113.63		0.31	0.30	7.02			
b	MLHT	179.24		1.27	1.64	17.70			
c	SIP	5.32		0.07	0.16	1.75			
d	NDLT	13.40		0.01	0.00	0.33			
e	CGHS	4.50		0.00	0.00	1.64			
	TOTAL	316.09		1.65	2.10	28.44	0.00	0.00	0.00

BSES Rajdhani Power Limited

BSES RAJDHANI POWER LIMITED**Form 5.12 : Status of Metering (For Distribution License)**

For Domestic and SIP consumers

Sl. No.	Item	Agriculture	Commercial	Domestic	Industrial	Other Sale	Total
A	Previous Year						
1	No. of metered Consumers at the beginning of the previous year	13122	127293	761166	17742		919323
2	No. of unmetered consumers at the beginning of the previous year	0	0	42387	0		42387
3	Total no. of consumers at the beginning of the previous year (1+2)	13122	127293	803553	17742		961710
4	No. of consumers with defective meters at the beginning of the previous year	2966	11580	75606	2069		92221
5	Consumers with defective meters as % of metered consumers at the beginning of the previous year(4/1)	22.60%	9.10%	9.93%	11.66%		10.03%
6	Unmetered consumers as % of total consumers at the beginning of the previous year	0.00%	0.00%	5.27%	0.00%		4.41%
B	Current Year						
1	No. of metered Consumers at the beginning of the current year	8934	141259	814233	16066		980492
2	No. of unmetered consumers at the beginning of the current year	0	0	45771	0		45771
3	Total no. of consumers at the beginning of the current year (1+2)	8934	141259	860004	16066		1026263
4	No. of consumers with defective meters at the beginning of the previous year	3529	6924	39372	860		50685
5	Consumers with defective meters as % of metered consumers at the beginning of the current year(4/1)	23.16%	4.06%	4.50%	3.02%		5.17%
6	Unmetered consumers as % of total consumers at the beginning of the current year (2/3)	0%	0%	4.97%	0%		4.46%

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Form 5.13: Release of Customer Bills (For Distribution Licensee)

Category	2002-03 (Nine months)		Preceding year FY'03-04		Current year (Period 01-04-2004 to 30-09-2004)	
	No. of customer bills served within 30 days of billing period	No. of customer bills served after 30 days of billing period	No. of customer bills served within 30 days of billing period	No. of customer bills served after 30 days of billing period	No. of customer bills served within 30 days of billing period	No. of customer bills served after 30 days of billing period
Agricultural	1723	12368	18536	388	9196	NIL
Domestic	238294	615723	785896	31095	835517	NIL
Industrial (SIF)	16627	11145	30594	592	14827	NIL
Non - Domestic	51221	100423	129159	6179	140377	NIL
Total	307865	739659	964185	38254	999917	NIL

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for

The information to be provided for the previous year and the actual period of the current year

Attach supporting documents for each of the entries made.

Assumptions made, if any, should be clearly indicated at appropriate places.

Data requirements are indicated by:

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SHEDDING DETAIL OF BSES RAJDHANI & YAMUNA POWER LTD. FROM JULY-02 TO SEPTEMBER-04

JULY 2002 TO MARCH-2003	BSES RAJDHANI POWER LIMITED				
MONTH	TRANSCO low frequency /constraints/b/d-s/d	SHUT DOWN	BREAKDOWN	OVER LOADING	TOTAL
	IN MUS	IN MUS	IN MUS	IN MUS	IN MUS
JULY(2002)	3.249	1.421	4.638	16.463	25.771
AUGUST(2002)	2.326	1.620	3.238	3.634	10.818
SEPTEMBER(2002)	0.046	0.693	1.441	0.458	2.638
OCTOBER(2002)	7.126	0.666	0.517	0.237	8.546
NOVEMBER(2002)	0.009	0.211	0.901	0.072	1.193
DECEMBER(2002)	7.169	0.183	0.097	1.497	8.946
JANUARY(2003)	31.202	0.047	0.313	6.433	37.995
FEBRUARY(2003)	3.869	0.635	0.269	2.239	7.012
MARCH(2003)	0.640	1.869	4.455	1.088	8.052
TOTAL	55.636	7.345	15.869	32.121	110.971

APRIL -2004 TO SEPTEMBER-2004	BSES RAJDHANI POWER LIMITED				
Apil-Sept'04	BSES RAJDHANI POWER LIMITED				
MONTH	TRANSCO low frequency /constraints/b/d-s/d	SHUT DOWN	BREAKDOWN	OVER LOADING	TOTAL
	IN MUS	IN MUS	IN MUS	IN MUS	IN MUS
APRIL (2004)	2.065	0.945	1.462	1.555	6.026
MAY (2004)	1.000	0.711	1.820	1.610	5.141
JUNE (2004)	0.822	0.473	1.650	0.180	3.124
JULY (2004)	2.352	1.012	1.094	0.237	4.695
AUGUST (2004)	2.633	1.227	1.957	0.167	5.984
SEPTEMBER (2004)	4.515	0.510	0.759	0.115	5.898
TOTAL	24.065	16.581	18.184	24.277	83.107