

Punjab State Power Corporation Ltd.

Aggregate Revenue Requirement & Tariff Petition

For FY 2015-16

Volume – II

Evidential Documents

Submitted to

**Hon'ble Punjab State Electricity Regulatory Commission
Chandigarh**

Submitted by:

PUNJAB STATE POWER CORPORATION LIMITED

The Mall, Patiala – 147001

November 2014

Point No. 1

The Commission in the Tariff Oder for FY 2014-15 had decided to undertake the true up for FY 2012-13 along with the ARR Tariff petition for FY 2015-16 when the Audited Annual accounts for FY 2012-13 are likely to be available. It is therefore, requested to submit the audited annual accounts along with the audit certificates and comments for FY 2012-13, to enable the Commission to carry out the true up for these years.

Reply:- The statement of accounts are submitted in Volume III of this Petition. The annual accounts for the FY 2012-13 have been audited by CAG of India and audited certificate is awaited..As & when it is received will be supplied.

Point No 2

The Commission is to determine the separate tariffs for Generation and Distribution (Wheeling and Retail Supply) of electricity as per Electricity Act and the Tariff Regulations notified by the commission. Further as per Orders of Hon'ble APTEL dated 11.09.2014, the Commission has been directed to determine the separate tariffs for Generation and Distribution. As such, the audited details of costs/figures be filed separately for Generation (Plant wise), Wheeling and Retail Supply business so that Commission could determine the Generation Tariff (Plant wise Fixed/Capacity Charges and Energy charges), wheeling charges and retail supply charges separately. The existing performas may be used this purpose and for any left out information, additional performas may be designed at your level.

Reply: - The detail of segregated cost/figures for generation, transmission and distribution for the FY 2012-13 has already been supplied vide this office Memo no 920/924/A-45 dated 27 October, 2014. So for as, the information for FY 2013-14 & FY 2014-15 is concerned, it is intimated that the accounts for FY 2013-14 is under preparation. Thereafter the accounts for the year FY 2014-15 will be prepared.

Point No 3

Category wise half-yearly sales (Actual) for FY 2011-12 to FY 2013-14 and 1st half of 2014-15 may be supplied.

Reply:- Category wise half-yearly sales (Actual) for FY 2011-12 to FY 2013-14 and 1st half of 2014-15 are as under.

Sr. No.	Consumer Category	FY 2011-12			FY 2012-13			FY 2013-14			(In MU) FY 2014-15
		H1	H2	Total	H1	H2	Total	H1	H2	Total	H1
1	Domestic	4699	4129	8828	5070	4433	9503	5679	4880	10559	6201
2	Commercial (NRS)	1415	1274	2689	1502	1288	2790	1611	1405	3016	1755
3	Industrial										
(a)	Small Supply	444	439	883	453	450	903	463	444	907	473
(b)	Medium Supply	918	904	1822	908	925	1833	961	947	1908	974
(c)	Large Supply	4143	4851	8994	4837	4726	9563	4628	5179	9807	5565
(d)	Total	5505	6194	11699	6198	6101	12299	6052	6570	12622	7012

Sr. No.	Consumer Category	FY 2011-12			FY 2012-13			FY 2013-14			FY 2014-15
		H1	H2	Total	H1	H2	Total	H1	H2	Total	H1
4	Street Lighting	60	80	140	65	83	148	80	90	170	89
5	Bulk Supply	272	278	550	290	280	570	303	301	604	318
6	Railway Traction	68	70	138	69	66	135	71	72	143	79
7	Total Metered Sales (except AP) within State	12019	12025	24044	13194	12251	25445	13795	13320	27115	15454
8	AP Consumption	6635	3621	10256	7649	3145	10794	7738	2494	10232	8213
9	TOTAL	18654	15646	34300	20843	15396	36239	21533	15814	37347	23667

Point No 4

Category wise and voltage wise number of consumers, load/contract demand and energy sales (actual/projections) for various category of consumers for FY 2012-13, FY 2013-14, FY 2014-15 (revised projections) and projections of FY 2015-16 may be supplied.

Reply: Category wise and voltage wise number of consumers, load/contract demand and energy sales (actual/projections) for various category of consumers for FY 2012-13, FY 2013-14, FY 2014-15 (revised projections) and projections of FY 2015-16 is submitted as under:

Supply Voltage	Consumer Category	FY 2012-13			FY 2013-14		
		Connected Load (kW)	Sales (MU)	No of Consumers	Connected Load (kW)	Sales (MU)	No of Consumers
220kV	INDUSTRIAL	87965.46	188.51	6	91960.5	193.33	7
	TRACTION	60726.69	120.16	7	60680.89	127.82	5
132KV	INDUSTRIAL	238816.8	289.31	9	249662.9	296.69	9
	BULK	20898.3	49.39	2	22567.01	52.31	2
	TRACTION	12196.31	14.69	2	12187.11	15.63	2
66KV	INDUSTRIAL	1574644	3195.09	130	1646158	3276.65	134
	BULK	80491.68	171.61	10	86918.84	181.75	10
	COMMON POOL	43024	309.00	1	43024	303.00	1
	COMMERCIAL	9032.869	11.33	1	9490.239	12.25	1
33KV	INDUSTRIAL	60954.62	97.08	4	63722.93	99.55	4
	BULK	13989.54	31.22	1	15106.59	33.07	1
	DOMESTIC	7324.506	2.91	1	7538.594	3.24	1
11KV	INDUSTRIAL	3386613	5792.95	6548	3540420	5940.82	6737
	DOMESTIC	87097.23	87.39	178	89642.99	97.10	184
	COMMERCIAL	439394.6	470.33	1401	461642.9	508.44	1423
	BULK	157703.6	280.97	208	170296	297.56	211
LT	INDUSTRIAL S.P	982064	903.10	90372	985962	906.53	90020
	INDUSTRIAL M.S	1608848	1833.66	26361	1652375	1907.94	27117
	INDUSTRIAL	0	0.00	0	0	0.00	0

Supply Voltage	Consumer Category	FY 2012-13			FY 2013-14		
		Connected Load (kW)	Sales (MU)	No of Consumers	Connected Load (kW)	Sales (MU)	No of Consumers
	L.S						
	IND - SUB-TOTAL	2590912	2736.76	116733	2638337	2814.47	117137
	DOMESTIC	10044519	9413.55	5642671	10338110	10458.86	5820421
	AGRICULTURE	8116407	10794.27	1191407	8388961	10232.06	1223066
	COMMERCIAL	2681983	2308.63	922452	2817783	2495.72	937148
	BULK	18342.88	37.08	287	19807.54	39.27	290
	PUBLIC LIGHTING	46963	148.28	3015	48853	170.21	3491
	Total	29780001	36550.52	7885074	30822871	37649.8	8110284

Supply Voltage	Consumer Category	FY 2014-15			FY 2015-16		
		Connected Load (kW)	Sales (MU)	No of Consumers	Connected Load (kW)	Sales (MU)	No of Consumers
220kV	INDUSTRIAL	97801.67	221.81	7	103168.3	232.2934	7
	TRACTION	60339.73	136.11	5	59890.52	135.9385	5
132KV	INDUSTRIAL	265521.1	340.40	10	280090.9	356.495	10
	BULK	24969.26	54.86	2	27668.16	57.47771	2
	TRACTION	12118.59	16.64	2	12028.37	16.6172	2
66KV	INDUSTRIAL	1750719	3759.37	140	1846786	3937.095	146
	BULK	96171.32	190.59	10	106566.4	199.7037	10
	COMMON POOL	43024	309.00	1	43024	312	1
	COMMERCIAL	10278.02	13.18	1	10943.42	14.08628	1
33KV	INDUSTRIAL	67770.5	114.22	4	71489.25	119.6211	4
	BULK	16714.68	34.68	1	18521.35	36.33363	1
	DOMESTIC	8007.737	3.52	1	8363.207	3.838529	1
11KV	INDUSTRIAL	3765301	6816.03	7049	3971913	7138.256	7370
	DOMESTIC	95221.67	105.65	191	99448.64	115.0906	198
	COMMERCIAL	499963.8	547.07	1461	532331.3	584.5973	1497
	BULK	188424	312.05	219	208790.5	326.9657	225
LT	INDUSTRIAL S.P	1019774	923.50	91062	1038745	947.2658	91676
	INDUSTRIAL M.S	1744354	1942.65	27913	1810126	1991.86	28708
	INDUSTRIAL L.S	0	0.00	0	0	0	0
	IND - SUB-TOTAL	2764128	2866.15	118975	2848870	2939.126	120384
	DOMESTIC	10981473	11380.30	6047377	11468951	12396.75	6271958
	AGRICULTURE	8971751	10832.33	1250885	9350587	11373.95	1281531
	COMMERCIAL	3051686	2685.32	962288	3249252	2869.529	985975
	BULK	21916.04	41.18	302	24284.92	43.14501	309

Supply Voltage	Consumer Category	FY 2014-15			FY 2015-16		
		Connected Load (kW)	Sales (MU)	No of Consumers	Connected Load (kW)	Sales (MU)	No of Consumers
	PUBLIC LIGHTING	51907.22	186.88	3879	54423.96	203.4087	4331
	Total	32845208	40967.35	8392811	34397391	43412.31	8673969

Point No. 5

The Breakup of actual energy sales and revenue for LT & HT bulk supply category for FY 2011-12, FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections for 2nd half for FY 2014-15 and FY 2015-16 may be supplied.

Reply:- The breakup of actual energy sales and revenue for LT & HT bulk supply category for FY 2011-12, FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections for 2nd half for FY 2014-15 and FY 2015-16 is as under.

Sr. No.	Description	FY 2011-12		FY 2012-13		FY 2013-14		FY 2014-15		FY 2015-16	
		Actual as per A/cs		Actual as per A/cs		As per Prov. A/cs		Projected		Projected	
		Sale (MU)	Revenue (Rs. Cr.)	Sale (MU)	Revenue (Rs. Cr.)	Sale (MU)	Revenue (Rs. Cr.)	Sale (MU)	Revenue (Rs. Cr.)	Sale (MU)	Revenue (Rs. Cr.)
	Bulk Supply & Grid Supply										
a)	HT	517	262	536	301	567	357	595	382	623	400
b)	LT	33	17	34	19	36	23	38	25	40	26
	Sub-total	550	279	570	320	603	380	633	407	663	426

Point No 6

Details (Source wise) of outside state sales for FY 2012-13, FY 2013-14 and 1st half of FY 2014-15 may be supplied.

Reply:- Details (Source wise) of outside state sales for FY 2012-13, FY 2013-14 and 1st half of FY 2014-15 is as under.

Sr. No.	Generating Station	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (H1)
1	Sale to other States (other than Power Exchange)	-	-	-
2	Sale through Power Exchange	44.71	121.29	19.84
3	Royalty/Free Share to HP			
4	Royalty to HP from Shanan	54.68	52.95	36.45
	Total Sale	99.39	174.24	56.29

Point No 7

The half yearly AP consumption for FY 2008-09 to FY 2013-14 and 1st half of FY 2014-15 may be supplied.

Reply:- The half yearly AP consumption for FY 2008-09 to FY 2013-14 and 1st half of FY 2014-15 is as under.

Sr. No .	Description	FY 2008-09		FY 2009-10		FY2010-11		FY 2011-12		FY 2012-13		FY 2013-14		FY 2014- 15
		H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1
1	AP Consumption	5726	3623	6548	3957	6637	3514	6635	3621	7649	3145	7738	2494	8213



Point No 8: AP Consumption Data

A. Un-Metered AP Consumption data - For Un-metered AP consumption the following data on the format mentioned below from April-2012 to September 2014 (Monthly and separately for each financial year) may be supplied.

Reply:- Un- Metered AP consumption data for the Period April, 2012 to September 2014 is submitted as under:

For FY 2012-13

Sr. No.	Month/ year	No. of 3-Ph 3-wire AP feeders	No. of 3-Ph 4-wire AP feeders	No. of Kandi Area AP Feeders	Total Feeders	Connected AP Load of 3-Ph 3-wire AP feeders	Connected AP Load of 3-Ph 4-wire AP feeders	Connected AP Load of Kandi Area AP Feeders	Total connected AP Load	Pumped Energy of 3-Ph 3-wire AP feeders (MUs)	Pumped Energy of 3-Ph 4-wire AP feeders (MUs)	Pumped Energy of Kandi Area AP Feeders (MUs)	Adj for high bus bar losses	Total Pumped Energy (MUs)	Consumption as per sample meter data (MUs)
1	2	3	4	5	6	7	8	9	10	11	12	13		14	15
1	Apr-12	3896	33	183	4112	7390715	53533	316439	7760687	423	7	87	5	522	545
2	May-12	3894	33	177	4104	7399480	53571	319508	7772559	680	10	132	2	824	768
3	Jun-12	3894	33	183	4110	7407354	53617	319869	7780840	1595	16	171	6	1787	1450
4	Jul-12	3905	33	184	4122	7434615	54002	314913	7803530	2147	19	184	16	2366	1825
5	Aug-12	3907	33	183	4123	7464379	54049	317737	7836165	1952	18	163	8	2142	1718
6	Sept-12	3913	33	184	4130	7470324	54079	261874	7786276	1355	13	132	12	1511	1340
7	Oct-12	3915	33	184	4132	7472072	54089	322582	7848743	904	10	135	9	1059	827
8	Nov-12	3919	33	184	4136	7479256	54128	323626	7857010	358	6	88	5	456	475
9	Dec-12	3895	33	184	4112	7500639	54233	328861	7883733	455	5	81	5	546	543
10	Jan-13	3828	42	225	4095	7461571	58178	276430	7796179	330	6	83	0	418	480
11	Feb-13	3847	43	228	4118	7461571	58178	276430	7796179	199	3	59	0	262	317
12	Mar-13	3842	45	230	4117	7461571	58178	276430	7796179	413	5	91	0	509	507
	Total	46655	427	2329	49411					10811	118	1406	68	12402	10794

For FY 2013-14

Sr. No.	Month/ year	No. of 3-Ph 3-wire AP feeders	No. of 3-Ph 4-wire AP feeders	No. of Kandi Area AP Feeders	Total Feeders	Connecte d AP Load of Ph 3-wire AP feeders	Connecte d AP Load of Ph 4-wire AP feeders	Connecte d AP Load of Kandi Area AP Feeders	Total connecte d AP Load	Pumpe d Energy of 3-Ph 3-wire AP feeders (MUs)	Pumpe d Energy of 3-Ph 4-wire AP feeders (MUs)	Pumpe d Energy of Kandi Area AP Feeders (MUs)	Total Pumped Energy (MUs)	Consumpti on as per sample meter data (MUs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Apr-13	4333	33	242	4608					298	5	112	414	513
2	May-13	4333	33	242	4608					819	8	163	990	839
3	Jun-13	4333	33	242	4608					1333	10	158	1501	1345
4	Jul-13	4333	33	242	4608					1970	12	186	2168	1843
5	Aug-13	4333	33	242	4608					1613	13	169	1795	1539
6	Sep-13	4333	33	242	4608					1703	11	153	1867	1658
7	Oct-13	4333	33	242	4608					676	5	112	794	727
8	Nov-13	4333	33	243	4609					274	3	85	362	326
9	Dec-13	4361	24	245	4630					429	3	90	522	476
10	Jan-14	4386	17	245	4648					252	1	68	322	308
11	Feb-14	4402	10	250	4662					275	1	53	329	296
12	Mar-14	4374	12	248	4634					349	1	72	422	362
	Total									9992	72	1421	11486	10232

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For FY 2014-15 (H1)

Sr. No.	Month/year	No. of 3-Ph 3-wire AP feeders	No. of 3-Ph 4-wire AP feeders	No. of Kandi Area AP Feeders	Total Feeders	Connected Load of 3-Ph 3-wire AP feeders	Connected Load of 3-Ph 4-wire AP feeders	Connected Load of Kandi Area AP Feeders	Total connected Load	Pumped Energy of 3-Ph 3-wire AP feeders (MUs)	Pumped Energy of 3-Ph 4-wire AP feeders (MUs)	Pumped Energy of Kandi Area AP Feeders (MUs)	Total Pumped Energy (MUs)	Consumption as per sample meter data (MUs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Apr-14	4413	7	249	4669					244	1	99	345	295
2	May-14	4427	7	249	4683					494	2	138	634	539
3	Jun-14	4550	7	250	4807					1745	3	206	1954	1706
4	Jul-14	4642	7	259	4908					2346	4	232	2582	2257
5	Aug-14	4671	2	264	4937					2225	1	241	2467	2179
6	Sep-14	4700	3	265	4968					1230	1	179	1410	1236
	Total	27403	33	1536	28972					8284	12	1095	9392	8212

- B. Metered AP Consumption - For metered AP consumption the following data on the format mentioned below for April, 2012 to September, 2014 (Monthly and separately for each financial year) may be supplied.

Reply:- Metered AP consumption for the Period April, 2012 to September 2014 is as under.

For the FY 2012-13 (Actual)

Sr. No	Month	No. of Metered AP connections	Load (KW)	Metered Energy Consumption (MU)
1	April 12	12960	84787	10757638
2	May 12	12964	86185	15954111
3	June 12	12811	88293	19352237
4	July 12	13047	87469	20936897
5	August 12	12611	84983	19030660
6	September 12	12623	85125	17109996
7	October 12	12621	85435	14876791
8	November 12	12712	85889	13111044
9	December 12	12723	85852	12239059
10	January 13	12672	87404	13284630
11	February 13	12687	87535	10286603
12	March 13	12552	87489	9730871

For the FY 2013-14 (Provisional)

Sr. No	Month	No. of Metered AP connections	Load (KW)	Metered Energy Consumption (MU)
1	April 13	12107	85554	14591445
2	May 13	11873	84366	18342529
3	June 13	11887	84666	17895295
4	July 13	11904	84992	20274485
5	August 13	11982	85892	19480709
6	September 13	12473	87104	28452420
7	October 13	12471	89580	23284526
8	November 13	12447	88963	12245995
9	December 13	12391	88616	12999766
10	January 14	12290	87532	11919586
11	February 14	12294	87555	11329937
12	March 14	12325	88221	11570916

For the FY 2014-15 (H1)

S.No	Month	No. of Metered AP connections	Load (KW)	Metered Energy Consumption (MU)
1	April 14	12235	85044	12967312
2	May 14	12284	85573	17386088
3	June 14	12287	85662	30662423
4	July 14	12416	86539	33003779
5	August 14	12361	86159	33851259
6	September 14	12354	86174	23733813

- C. AMR Data regarding AP consumption- AMR data regarding 3-Ph 3-wire AP feeders on the format mentioned below from April 2012 to September 2014 (Monthly and separately for each financial year) may be supplied.

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Reply:- AMR data regarding 3-Ph 3-wire AP feeders for the period April 2012 to September 2014 is as under.

For FY 2012-13

S.No	Month and year	No. of feeder Count	Pumped Energy (MU)
1	April 12	2004	201
2	May 12	2059	359
3	June 12	2025	839
4	July 12	2034	1092
5	August 12	AMR data not available due to technical problem in AMR server	
6	September 12		
7	October 12		
8	November 12		
9	December 12		
10	January 13	1659	147
11	February 13	1578	71
12	March 13	1588	166

For FY 2013-14

S.No	Month and year	No. of feeder Count	Pumped Energy (MU)
1	April 13	1647	126
2	May 13	1670	373
3	June 13	1909	692
4	July 13	1999	1063
5	August 13	2016	847
6	September 13	2054	913
7	October 13	1973	334
8	November 13	1958	148
9	December 13	1968	217
10	January 14	1899	105
11	February 14	1850	110

The AMR data for March 2014 to September 2014 is not available due to discontinuation of GPRS service in all 600 no. Sub-stations by AMR vendor, M/s Easun Reyrolle Ltd., Bangalore from M/s Reliance. Due to various defaults and stoppage of GPRS connectivity by AMR vendor, the W.O placed upon M/s ERL has been cancelled upon by competent authority. After the exit of AMR vendor, GPRS service in all sub-stations have again started by taking connectivity from M/s Airtel. As on 15 October, 2014, AMR data from 350 number sub-stations with approx 1200 no. AP feeders have already started at AMR data center.

Point No 9

The actual unit-wise generation and availability of different thermal stations for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 may be supplied

Reply:- The actual unit-wise generation and availability of different thermal stations for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 is as provided on following page:

For FY 2012-13

GHTP unit wise generation and availability for FY 2012-13

Unit		
(Unit 1)	1647.90	93.21%
(Unit 2)	1470.35	89.06%
(Unit 3)	1983.55	93.33%
(Unit 4)	2113.23	98.88%
TOTAL	7215.02	93.84%

GGSSSTP unit wise generation and availability for FY 2012-13

Unit		
(Unit 1)	1288.20	84.70%
(Unit 2)	1679.79	97.17%
(Unit 3)	1340.07	84.89%
(Unit 4)	1747.29	99.06%
(Unit 5)	1441.29	89.61%
(Unit 6)	1669.93	97.65%
TOTAL	9166.57	92.11%

GNDTP unit wise generation and availability for FY 2012-13

Unit		
(Unit 1)	610.21	86.06%
(Unit 2)	636.40	85.97%
(Unit 3)	385.08*	29.65%
(Unit 4)	0.00	0.00%
TOTAL	1631.70*	54.65%

* including generation of Unit-3 of 145.067 MUs during its trial run (18.07.2012 to 06.12.2012)

For FY 2013-14

GHTP unit wise generation and availability for FY 2013-14

Unit		
(Unit 1)	1449.04	99.27
(Unit 2)	1475.33	98.43
(Unit 3)	1871.33	96.66
(Unit 4)	1869.25	95.33
TOTAL	6664.94	97.30

GGSSSTP unit wise generation and availability for FY 2013-14

Unit		
(Unit 1)	1228.19	84.66
(Unit 2)	1264.29	88.22
(Unit 3)	1461.08	97.75
(Unit 4)	1392.49	90.46

Unit		
(Unit 5)	1445.59	94.49
(Unit 6)	1214.24	83.46
TOTAL	8005.87	89.84

GNDTP unit wise generation and availability for FY 2013-14

Unit		
(Unit 1)	628.23	85.60
(Unit 2)	544.11	97.64
(Unit 3)	463.12	71.85
(Unit 4)	0	0.00
TOTAL	1635.46	63.95

For FY 2014-15 (H1)

GHTP unit wise generation and availability for FY 2014-15 (H1)

Unit		
(Unit 1)	571.18	86.05
(Unit 2)	676.02	99.97
(Unit 3)	755.47	97.97
(Unit 4)	781.61	98.24
TOTAL	2784.28	95.78

GGSSTP unit wise generation and availability for FY 2014-15 (H1)

Unit		
(Unit 1)	692.61	97.07
(Unit 2)	659.93	97.24
(Unit 3)	731.46	98.44
(Unit 4)	680.33	96.10
(Unit 5)	659.41	78.16
(Unit 6)	595.80	97.31
TOTAL	4019.53	94.05

GNDTP unit wise generation and availability for FY 2014-15 (H1)

Unit		
(Unit 1)	300.05	74.81
(Unit 2)	229.97	96.55
(Unit 3)	355.06	95.97
(Unit 4)	127.60	2.38*
TOTAL	1012.69	68.03

*(Unit 4) PAF for GNDTP is considered as 100% calculated on the basis of effective capacity in operation during the period after excluding R&M period.

For FY 2014-15 (H2)

GHTP unit wise generation and availability for FY 2014-15 (H2)

Unit		
(Unit 1)	662	76.52

Unit		
(Unit 2)	756	87.51
(Unit 3)	773	77.62
(Unit 4)	980	98.50
TOTAL	3171	85.30

GGSSTP unit wise generation and availability for FY 2014-15 (H2)

Unit		
(Unit 1)	747	96.00
(Unit 2)	565	71.27
(Unit 3)	600	76.77
(Unit 4)	748	96.00
(Unit 5)	748	96.00
(Unit 6)	749	96.00
TOTAL	4157	88.67

GNDTP unit wise generation and availability for FY 2014-15 (H2)

Unit		
(Unit 1)	336	95.00
(Unit 2)	252	70.27
(Unit 3)	310	78.52
(Unit 4)	372	95.00
TOTAL	1270	84.79

For FY 2015-16

GHTP unit wise generation and availability for FY 2015-16

Unit		
(Unit 1)	1705	98.5
(Unit 2)	1705	98.5
(Unit 3)	1927	96.59
(Unit 4)	1858	93.04
TOTAL	7195	96.5

GGSSTP unit wise generation and availability for FY 2015-16

Unit		
(Unit 1)	1412	89.17
(Unit 2)	1516	96.00
(Unit 3)	1516	96.00
(Unit 4)	1392	87.80
(Unit 5)	1372	86.44
(Unit 6)	1392	87.80
TOTAL	8600	90.54

GNDTP unit wise generation and availability for FY 2015-16

Unit		
(Unit 1)	613	86.80

Unit		
(Unit 2)	622	86.80
(Unit 3)	730	95.00
(Unit 4)	681	86.80
TOTAL	2646	88.94

Point No 10

The actual PLF of different thermal stations for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 may be supplied.

Reply:- The actual PLF of different thermal stations for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 is as under.

S.No	Station	2012-13	2013-14	2014-15 (H1)	2014-15 (H2)	2015-16 (Proj.)
1	GNDTP	42.03%	41.49%	51.21%	63.21%	65.48%
2	GGSSTP	83.05%	72.53%	72.63%	75.53%	77.70%
3	GHTP	89.53%	82.70%	68.91%	78.91%	89.03%

Point No 11

The station wise auxiliary consumption for the hydro stations for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 may be supplied.

Reply:- The station wise auxiliary consumption for the hydro stations for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 is as provided on following page.

Sl. No.	Stations	FY 2012-13	FY 2013-14	FY 2014-15 (H1)	FY 2014-15 (H2)	FY 2015-16 (projections)
1	Shanan	0.220	0.211	0.122	0.089	0.77
2	UBDC Stage I & II	0.927	1.012	0.528	0.565	1.84
3	RSD	2.95	2.9	2.63	1.28	3.36
4	MHP	2.4	2.05	0.989	1.82	2.95
	MHP stage-II					1.07
5	ASHP	0.594	0.613	0.302	0.586	1.08
6	Micro Hydel					0.44
7	Total	7.091	6.786	4.571	4.43	11.51

Point No. 12

Separate generation figures for UBDC Stage-I and UBDC Stage-2 for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 may be supplied.

Reply:- The gross generation for UBDC Stage I and Stage II is as under.

Stations	FY 2012-13	FY 2013-14	FY 2014-15 (H1)	FY 2014-15 (H2) (RE)	FY 2015-16 (Proj)
UBDC Stage 1	142.659	194.774	108.805	57.00	184.5
UBDC Stage 2	175.779	166.852	139.177	56.00	184.5
TOTAL	318.438	361.626	247.982	113.00	369.00

Point No 13

Necessary proposal to meet the projected revenue gap as required under the Tariff Regulations may be supplied along-with the ARR & Tariff Petition.

Reply:- The Past experience of PSPCL revealed that the revenue gap is finally determined by the Hon'ble Commission by applying its own yardsticks/norms which differs from what was projected by the PSPCL in the ARR & Tariff Petition.

Due to non clarity of all the norms/yardsticks applied by the Hon'ble Commission for determining ARR for the FY 2014-15, it is prayed that the Hon'ble Commission may determine the gap and fix the tariff according to the details furnished by PSPCL in the ARR & Tariff Petition filed.

Point No 14

Transmission Charges, Wheeling charges, Cross subsidy Surcharge and any other charges collected from the Open Access Customers and the energy purchased/sold by the Open Assess Customers during FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 may be supplied.

Reply: - The requisite information is as under:

Financial Year	Open Access Units purchased (in MUs)	Cross Subsidy Surcharges (Rs. In Cr)	Transmission Charges*	Wheeling Charges (Rs. In Cr.)
FY 2012-13	1769.80	148.47		189.46
FY 2013-14	1556.15	134.35		199.80
FY 2014-15 (H1)	268.17	17.28		34.21
FY 2014-15 (H2)	100	17.28		257.714
FY 2015-16	250	32.86		318.217

*As per FRP scheme of GoP (Government of Punjab) the transmission business of was transferred to PSTCL (Punjab State Transmission Corporation Limited) hence the transmission charges from the open access consumers are now being collected by PSTCL only.

Point No. 15

The actual and projected usage of PANAM coal and other coal for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 may be intimated for different stations.

Reply:- The requisite information is provided excluding transit loss.

For FY 2012-13

S.No.	Particulars	Unit	GNDTP	GGSTP	GHTP
1	Total Coal Consumption	MT	1125405	5729310	4118122
2	Quantity of PANEM coal	MT	680969	3215682	2944195
3	Other coal	MT	444436	2513628	1173927

For FY 2013-14

S.No.	Particulars	Unit	GNDTP	GGSTP	GHTP
1	Total Coal Consumption	MT	1083388	5015010	3921189
2	Quantity of PANEM coal	MT	708159	2529993	2610513
3	Other coal	MT	375229	2485017	1310676

For FY 2014-15 (H1)

S.No.	Particulars	Unit	GNDTP	GGSTP	GHTP
1	Total Coal Consumption	MT	670158	2818050	1707668
2	Quantity of PANEM coal	MT	356070	942976	724589
3	Other coal	MT	314088	1875074	983079

For FY 2014-15 (H2)

S.No.	Particulars	Unit	GNDTP	GGSTP	GHTP
1	Total Coal Consumption	MT	845845	2868330	1966020
2	Quantity of PANEM coal	MT	600000	0	0
3	Other coal	MT	245845	2868330	1966020

For FY 2015-16

S.No.	Particulars	Unit	GNDTP	GGSTP	GHTP
1	Total Coal Consumption	MT	1765656	5178594	4072207
2	Quantity of PANEM coal	MT	1200000	0	0
3	Quantity of imported Coal	MT	0	932147	732997
4	Other coal	MT	565656	4246447	3339210

Point No 16

The information regarding power purchase for the year FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16 on the enclosed performa may be supplied.

Reply:- The requisite information has been provided in the **Format 6 & 7** annexed in **Volume I** of the Tariff Petition for the FY 2014-15.

Point No 17

Supply the details of the actual receipt of washed (non PANAM) coal received at GNDTP, GGSTP and GHTP during FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16.

Reply:- The requisite information for actual receipt of washed (non PANAM) coal for each station is as under.

S. No	Particulars	Unit	GNDTP	GGSTP	GHTP
1	FY 2012-13	MT	278191	1071324	772283.69

S. No	Particulars	Unit	GNDTP	GGSSSTP	GHTP
2	FY 2013-14	MT	181211	902536	576394.06
3	FY 2014-15 (H1)	MT	81393	565423	157636.38
4	FY 2014-15 (H2)	MT	90000	795087	217998.00
5	FY 2015-16	MT	200000	1767300	411316.8

Point No 18

As per Tariff Regulations of the Commission, the distribution capacity for working out the wheeling charges shall be the sum of power imported at each interface point of exchange of power at electrical boundary of distribution licensee and generation from captive plants and co-generation plants (To the extent fed into the distribution system) and plants injecting electricity generation from Renewable Sources of Energy located in the area of such licensee. It is therefore, requested to intimate the distribution capacity of the PSPCL system keeping in view the above for FY 2015-16.

Reply: The requisite information is as under

Name of Project	No. of Units	MW	Gross Installed Capacity (MW)	Aux. Consumption (%)	Inter State Transmission Losses (%)	Net Installed Capacity (MW)
GNDTP, Bathinda	3	110	330	11.00%	Nil	293.7
	1	120	120	11.00%	Nil	106.8
	Total		450			400.5
GGSSSTP, Ropar	6	210	1260	8.50%	Nil	1152.9
GHTP, Lehra Mohabbat (Unit # 1 & 2) (Stage-I)	2	210	420	8.50%	Nil	384.3
GHTP, Lehra Mohabbat (Unit # 3 & 4) (Stage-II)	2	250	500	8.50%	Nil	457.5
	Total		920			841.8
TOTAL THERMAL			2630			2395
Shanan	4	15	60	0.67%	Nil	59.6
	1	50	50	0.67%	Nil	49.7
	Total		110			109.3
UBDC-I	3	15	45	0.87%	Nil	44.6
UBDC-II	3	15.45	46	0.87%	Nil	45.9
	Total		91			90.6
**RSPP	4	150	600			
Less 20% J&K and 4.6% HP share from RSD			-148			
Net RSD share of Punjab			452	0.20%	Nil	451.5
ASHP	4	33.5	134	0.86%	Nil	132.8
MHP-1&2	6	15	90	0.13%	Nil	89.9
MHP-3&4	6	19.5	117	0.13%	Nil	116.9
	Total		207			206.7
Mukerian Hydel Project Stage-II	2	9	18	0.50%	Nil	17.9
TOTAL HYDRO			1013			1009
TOTAL (HYDRO+THERMAL)			3643			3404
PEDA & NRSE Projects			840	10.27%	Nil	753.4
Micro Hydel			6	0.00%	Nil	5.6
Rajpura TPP	2	700	1400	0.00%	Nil	1400.0
Goindwal Sahib TPS	1	270	270	0.00%	Nil	270.0

Name of Project	No. of Units	MW	Gross Installed Capacity (MW)	Aux. Consumption (%)	Inter State Transmission Losses (%)	Net Installed Capacity (MW)
Talwandi Sabo TPP	2	660	1320	0.00%	Nil	1320.0
Central Sector (FIRM Share only)			3671	*	3.71%	3423.0
BBMB			1161	0.50%	3.71%	1155.5
Total Installed Capacity (from all sources)			12311			11732

Point No 19

Supply source-wise/plant wise/project wise/ details of power purchase from various NRSE for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16. Statement showing the RPO Targets (MU) and RPO achievements (MU) and short fall, if any, to be carried forward for each year from FY 2012-13 to FY 2015-16 may be supplied.

Reply:- The source wise NRSE power purchase information is enclosed as **Annexure I**

Particulars	2012-13			2013-14			2014-15 (H1)		
	Target	Achieved	Shortfall	Target	Achieved	Shortfall	Target	Achieved	Shortfall
Non Solar	1232.41	1117.61	114.8	1439.87	1389.2	50.67	1143.95	474.27	669.68
Solar	30.5	12.49	18.01	55.54	18.95	36.59	57.05	4.15	52.9
Total	1262.91	1130.1	132.81	1495.41	1408.15	87.26	1201	478.42	722.58

Particulars	2014-15 (H2)			2015-16		
	Target	Achieved	Shortfall	Target	Achieved	Shortfall
Non Solar	858.74	580.38	278.36	2445.2	510.64	1934.56
Solar	42.82	63.36	-20.54	174.66	565.54	-390.88
Total	901.56	643.74	257.82	2619.86	1076.18	1543.68

Point No 20

The details of working sheet of revenue with relevant tariff/existing tariff duly giving the category/slab wise sales, fixed charge rates, energy rates, other charges etc. may be supplied for FY 2012-13, FY 2013-14, 1st half of FY 2014-15, projections of 2nd half of FY 2014-15 and FY 2015-16

Reply:-The requisite information is as under.

For FY 2012-13 (Actual)

Category	Sales (MUs)	Energy charges*	MMC	PLEC	Surcharge /Incentive (Net)	Theft charges	Total
Domestic	9503.86	4545.82	51.18	0	0.01	28.32	4625.33
Non-residential	2790.28	1647.66	126.44	0	-1.33	3.84	1776.61
Small power	903.10	432.31	33.76	0	-0.03	1.02	467.06
Medium supply	1833.66	985.36	62.68	0	-6.12	0.67	1042.59
Large supply	9562.94	5350.45	36.24	172.19	-37.06	8.94	5530.76
Public lighting	148.28	103.22	0.54	0	0	0	103.76
Bulk & Grid Supply	570.27	320.77	0.29	0	-1.83	0.13	319.36
Railway traction	134.86	71.45	11.85	0	-0.26	0	83.04
Sales within the state	25447.25	13457.04	322.98	172.19	-46.62	42.92	13948.51
Agriculture	10794.27	4618.51	0	0	0	6.93	4625.44
Common Pool	309	134.97	0	0	0	0	134.97
Outside state	100	16.70	0	0	0	0	16.70
Total	36650.52	18227.22	322.98	172.19	-46.62	49.85	18725.62

For FY 2013-14 (Provisional)

Category	Sales (MUs)	Energy charges*	MMC	PLEC	Surcharge /Incentive (Net)	Theft charges	Total
Domestic	10559.2	5260.35	60.87	0	-0.87	40.90	5361.25
Non-residential	3016.41	1942.09	157.68	0	-1.87	4.89	2102.79
Small power	906.53	510.09	37.54	0	0.34	1.91	549.88
Medium supply	1907.95	1166.04	74.64	0	-5.90	2.46	1237.24
Large supply	9807.05	6299.89	32.05	366.72	-104.10	2.84	6597.40
Public lighting	170.21	122.63	0.21	0	0	0	122.84
Bulk & Grid Supply	603.95	380.46	4.40	0	-1.95	0	382.91
Railway traction	143.45	81.33	11.20	0	-0.15	0	92.38
Sales within the state	27114.75	15762.88	378.59	366.72	-114.5	53.00	16446.69
Agriculture	10232.06	3837.34	0	0	0	2.95	3840.29
Common Pool	303	131.46	0	0	0	0	131.46
Outside state	174	44.12	0	0	0	0	44.12
Total	37823.81	19775.80	378.59	366.72	-114.5	55.95	20462.56

For FY 2014-15 (Revised Estimate)

Sr. No	Description	Tariff Rate	Energy charges
1	Domestic		
	<i>upto 100 units</i>	456	2634.83
	<i>101-300 units</i>	614	2339.88
	<i>Above. 300 units</i>	656	1246.70

Sr. No	Description	Tariff Rate	Energy charges
2	Non-domestic		
	upto 100 units	657	537.91
	Above. 100 units	671	1628.41
3	Small power	585	540.25
4	Medium supply	638	1239.50
5	Large supply	646	7272.24
6	Agriculture	456	4939.54
7	Public lighting	669	125.02
8	Bulk & Grid Supply		
	HT	641	382.69
	LT	668	24.31
9	Common Pool	467	144.30
10	Railway traction	671	102.52
11	Outside state	104	7.63
12	Add: MMC, PLEC, etc		745
13	Less: Rebate to consumers catered to high voltage		-143.75
14	Less: TOD rebate due to extension of two months and rate from Rs. 1.00 to Rs. 1.50 and extension to MS.		-132
15	Less: revenue due to increased metered sale		-271.13
16	Impact of TOD rebate for adjusting the PLEC		-129
17	Total		23234.85

For FY 2015-16 (Projections)

Sr. No.	Description	Tariff Rate	Energy charges
1	Domestic		
	upto 100 units	456	2870.90
	101-300 units	614	2548.40
	Abv. 300 units	656	1357.50
2	Non-domestic		
	upto 100 units	657	567.11
	Abv. 100 units	671	1747.98
3	Small power	585	554.15
4	Medium supply	638	1270.89
5	Large supply	646	7616.03
6	Agriculture	456	5186.52
7	Public lighting	669	136.08
8	Bulk & Grid Supply		
	HT	641	401
	LT	668	25.46
9	Common Pool	467	145.70
10	Railway traction	671	102.39
11	Outside state	104	5.62

Sr. No.	Description	Tariff Rate	Energy charges
12	Add: MMC, PLEC, etc.		745
13	Less: Rebate to consumers catered to high voltage		-143.75
14	Less: TOD rebate due to extension of two months and rate from Rs. 1.00 to Rs. 1.50 and extension to MS		-132
15	Less: revenue due to increased metered sale		-461.16
16	Impact of TOD rebate for adjusting the PLEC		-129
17	Total		24414.82

Point No 21

Estimated subsidy from State Government for FY 2015-16 may be supplied

Reply:-The estimated subsidy on the basis of existing tariff rates is as under:

Particulars	Consumption as per account (in Mus)	Revenue required			Revenue actually receivable from consumers	Amount of subsidy due from GOP	Amount of subsidy received from GOP	Amount of subsidy received from GOP excess/short (+/-)
		Energy charges	Meter rentals and service charges etc.	Total				
1	2	3	4	5	6	7	8	9
(i) AP Consumers	11373.95	5186.52	9	5195.52	0	5195.52		
(ii) Scheduled Caste DS Consumers	1707.03	852.97	21.9	874.87	0	874.87		
(iii) Non-SC BPL DS Consumers	114.59	57.44	1.86	59.3	0	59.3		
Total	13196	6097	33	6130	0	6130	0	0

Point No 22

No. of employees deployed for each activity viz generation & distribution during the years FY 2012-13, FY 2013-14, FY 2014-15 and FY 2015-16 be supplied.

Reply: - Estimated No. of employees deployed for each activity viz generation & distribution as on 30.09.14

S.No	Activity	No. of Employees
1	Generation	6021
2	Distribution	34869

Point No 23

It needs to be certified that the income from MMC, PLEC, Wheeling charges & cross subsidy charges has not been included in the Revenue from existing Tariff for the year 2013-14 & 2014-15. Income received/receivable for the years FY 2012-13, FY 2013-14, FY 2014-15 & FY 2015-16 from the aforementioned charges may be supplied separately for these years.

Reply: - It is submitted that the income from MMC & PLEC has been included in revenue from existing tariff for FY 2013-14 and FY 2014-15. However, the same has been shown separately in Format 27 annexed with **Volume I** of ARR Petition for FY 2015-16. Further, it is certified that the income from wheeling charges and cross-subsidy charges has not been included in the revenue from existing tariff for FY 2014-15 and FY 2015-16.

The separate details for income from MMC & PLEC for FY 2012-13, FY 2013-14, FY 2014-15 & FY 2015-16 has been provided separately in Format no. 27 annexed with **Volume I** of ARR Petition for FY 2015-16.

Point No 24

Expenses incurred/to be incurred on out-sourced services (with particular of such services) and the major/minor sub head under which such charges are accounted for needs to be mentioned distinctly for FY 2012-13 to FY 2015-16.

Reply: - The information is being obtained and will be submitted separately later on.

Point No 25

Amount of Pay Revision Arrears paid/to be paid for FY 2012-13 to FY 2013-14.

Reply:- The requisite information is provided below:

Acctt. Code	Particulars	FY 2012-13	FY 2013-14
44.111	Provision for arrear of Gratuity due to revision of pay scale	5,60,84,439	5,17,01,582
44.121	Provision for arrear of Pension due to revision of pay scale	5,16,36,624	41,02,27,584
44.122	Provision for arrear of commutation of pension due to revision of pay scale	1,12,65,164	1,29,57,247
75.127	Arrear of pay due to revision of pay scales w.e.f.1/1/06 to 31/10/09 (Permanent & Reg. Emp.)	2,05,64,23,317	1,86,78,69,175
75.147	Arrear of pay due to revision of pay scales w.e.f.1/1/06 to 31/10/09 work charged employees	4,43,38,034	3,38,03,807
75.618	Arrear of leave encashment due to revision of pay scales w.e.f.1/1/06 to 31/10/09	1,02,69,748	59,07,643
	Total	2,23,00,17,326	2,38,24,67,038

Point No. 26

Complete details head-wise break up of 'Other expenses' for FY 2012-13 to FY 2015-16 particularly indicating the items accounted for/to be accounted for under terminal benefits.

Reply:- The requisite information is provided with Format 8 & Format 14 of Volume-I.

Point No. 27

Segregated expenses in respect of Fixed Medical Allowance pertaining to working employees and the Retirees for FY 2012-13 to FY 2015-16

Reply:-The requisite information is as under.

Acctt. Code	Particulars (Rs Cr)	Actual for FY 2012-13	Prov. for FY 2013-14	FY 2014-15 upto 9/2014
75.480	Fixed Medical Allowance-regular employees	29,62,01,674	26,96,08,003	12,58,36,528
75.481	Fixed Medical Allowance-work charged employees	65,79,570	59,75,889	26,13,666
75.861	Fixed Medical Allowance to pensioners	22,58,23,200	26,52,52,546	14,54,42,865
	Total	52,86,04,444	54,08,36,438	27,38,93,059

Point No 28

Break up of other operating Expenses A/c group/head- 71.5, 71.6 and 71.7 accounted for under Generation under head-Repair & Maintenance for the years FY 2012-13 to FY 2013-14

Reply:- The Requisite Information is as under:-

A/c Code	Particulars	FY 2012-13	FY 2013-14 (prov.)
71.5	Cost of Water- Thermal Projects	13,28,75,676	22,28,14,872
71.6	Lubricant & Consumable stores	3,78,67,785	4,07,54,744
71.7	Station Supplies	-	-

Point No 29

Station wise statement in case of generation showing detailed year wise source wise loans taken and paid back with rate of interest and actual interest paid/payable for each year separately.

Reply: Attached as **Annexure-II**

Point No. 30

Separate statements showing the details of short term/medium term loans taken for WCL indicating rate of interest and interest due/paid/payable for the above noted years.

Reply:- The requisite information is provided in the **Format 15** annexed in Volume-I of the ARR Tariff Petition for The FY 2015-16.

Point No 31

Complete details of loans taken in lieu of recalled/adjusted against subsidy to be provided distinctively.

Reply:- PSPCL has been raising working capital loans from time to time on the basis of cash deficit every month. As such the loans raised against.

Point No 32

SBI Prime Lending Rate/SBI advance Rate and WPI (All Commodities) index for FY 2012-13, FY 2013-14, FY 2014-15 and FY 2015-16.

Reply:-The requisite information is as under.

Sr. No.	Financial Year	SBI Prime Lending Rate/SBI advance Rate
1	2012-13	14.75%
2	2013-14	14.45%
3	2014-15	14.75%
4	FY 2015-16	Not Available

Source: Reuters (India Prime Lending Rate of Banks)

Sr.No.	Period	WPI	Increase over previous year
1	As on April of n-2 year (FY 2012-13)	167.62	7.36%
2	As on April of n-1 year (FY 2013-14)	177.64	5.98%
3	As on April of n (current) year (FY 2014-15)	186.04	4.73%
4	As on April of n + 1 (ensuing) year (FY 2015-16)	194.84	4.73%

Source: Office of Economic Advisor website

Point No. 33

Actual equity employed in creation of assets for all the years

Reply:

S.No	Year	Particulars	Amount (in Cr.)
1	2012-13	Actual Equity employed for Asset creation	6081.43
2	2013-14	Actual Equity employed for Asset creation	6081.43
3	2014-15	Actual Equity employed for Asset creation	6081.43
4	2015-16	Actual Equity employed for Asset creation	6081.43

Point No 34

Details of fixed assets and depreciation provided may please be supplied as per format attached herewith.

Reply: The requisite information is being collected and will be submitted later on.

Point No. 35

For each True up year, Cost Audit report and Report by Comptroller & Auditor General of India as per the Companies Act, 1956/2013 may also be furnished.

Reply: The cost audit for the FY 2012-13 is under process and the cost audit report for the said year is expected to be received from the cost auditor shortly and the copy of same will be supplied on receipt.

Report by Comptroller & Auditor General of India for FY 2012-13 is still awaited and will be submitted as and when it is received.

Point No. 36

Detailed particulars against each of the following for FY 2012-13, FY 2013-14 and FY 2014-15 years be supplied.

- i) Net Fixed assets. - The requisite information is provided in the **Format 23** annexed in Volume I of the ARR Tariff Petition for The FY 2015-16.
- ii) Capital W.I.P.- The requisite information is provided in the **Format 26** annexed in Volume I of the ARR Tariff Petition for The FY 2015-16.
- iii) Inventory at Construction stores-

S. No	Particulars	FY 2012-13 (Actual) (Rs. Crore)	FY 2013-14 (prov.) (Rs. Crore)	FY 2014-15 (proj.) (Rs. Crore)
1	Inventory at Construction stores	344.04	386.44.	.

- iv) Consumer's Contribution, grants & subsidies received for Capital Works. - The requisite information is already provided in the **Format 23** annexed in Volume-I of the Tariff Petition for FY 2015-16.
- v) Value of assets created out of consumer contribution- No separate accounts are prepared
- vi) Value of assets created out of subsidies and grants- No separate accounts are prepared
- vii) Depreciation charges on the value of assets created out of consumer contribution, subsidies and grants. -- No separate accounts are prepared
- viii) Average GoP loans for the year. -- No Govt. Of Punjab loan is outstanding during FY 2012-13, FY 2012-14 & FY 2014-15. However there is outstanding liability of RBI bonds as follows:

Period	Amount (Rs. Crore)
31/03/2012	221.13

31/03/2013	156.46
31/03/2014	91.46 (Provisional)
31/03/2015	23.73 (Projected)

- ix) Other Loans- The requisite information is provided in the **Format 15** annexed in Volume I of the ARR Tariff Petition for FY 2015-16.
- x) Equity- The requisite information is as under:-

Sr. No.	Period	Amt. of Equity (Rs. Crore)
1	As on 31-03-2013	6081.43
2	As on 31-03-2014	6081.43
3	As on 30-09-2014	6081.43

- xi) Amount of GPF utilized by the Utility for Capital works: - No separate accounts are prepared



Power Purchase from Punjab NRSE Projects/NRSE Fuel on long/Short term Basis							
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Source of fuel	Previous Month Upto 2/2013 (In MU)	During 3/2013 (in MU)	G. Total Up to 3/2013 (in MU)
i	Rana Sugars Ltd	12.0 MW	10.20	Bagasse	0.000000	0.000000	0.000000
ii	Rana Sugars Ltd	34.0 MW	20.00	Bagasse	30.773124	9.278590	40.051714
iii	A.B. Sugars Ltd	23.0 MW	20.00	Bagasse	36.600300	8.930880	45.531180
iv	Chadha Sugars Ltd	23.0 MW	18.00	Bagasse	6.517395	3.448575	9.965970
b	Biomass						
i	Chandigarh Distillers & Bottlers	3.9 MW	2.50	Biomass	3.674000	0.334000	4.008000
ii	Indian Acrylics Pvt Ltd	7.75 MW	1.50	Biomass	1.376200	0.236900	1.613100
iii	NV Distilleries	10 MW	6.00	Biomass	22.924116	4.140840	27.064956
iv	A.B. Grain & Spirits	5.5 MW	3.00	Biomass	4.651380	0.787905	5.439285
	Total Co-Gen.		81.20		106.516515	27.157690	133.674205
B	Biomass/IPP						
i	Malwa Power Pvt.Ltd	6.0 MW	6.00	Biomass	25.935000	0.989000	26.924000
ii	Universal Biomass	14.5 MW	14.50	Biomass	70.442000	3.709000	74.151000
iii	Punjab Biomass	12.0 MW	12.00	Biomass	26.930040	1.500360	28.430400
iv	Dee.Dev.	8.0 MW	8.00	Biomass	51.069950	4.949230	56.019180
v	A2Z Mtc.						
a	Nakoder	15 MW	15.00	Biomass	4.607940	0.000000	4.607940
b	Fazilka	15 MW	15.00	Biomass	5.121684	1.086300	6.207984
vi	Green Plant	10.0 MW	10.00	Biomass	8.165256	0.004218	8.169474
vii	Jalkheri Power Plant	10.0 MW	10.00	Biomass	0.000000	0.000000	0.000000
	Total Biomass/IPP		90.50		192.271870	12.238108	204.509978
C	Mini Hydel						
a	Punjab Hydro Ltd.						
i	Dolowal MHP	1.5 MW	1.50	Hydel	6.173190	0.696140	6.869330
ii	Salar MHP	1.4 MW	1.40	Hydel	6.196010	0.722940	6.918950
iii	Bhanubura MHP	1.3 MW	1.30	Hydel	6.404860	0.761730	7.166590
	Punjab Hydro Ltd. Total.		4.20		18.774060	2.180810	20.954870
b	Kotla Hydro Ltd						
i	Babanpur MHP	1.25 MW	1.25	Hydel	4.994040	0.598350	5.592390
ii	Killa	1.75 MW	1.75	Hydel	8.893210	1.100750	9.993960
iii	Sahoke	1.2 MW	1.20	Hydel	5.647680	0.677030	6.324710
	Kotla Hydro Ltd. Total		4.20		19.534930	2.376130	21.911060
c	Aqua Power Plant Ltd.						
i	Chakbhai MHP	2.0 MW	2.00	Hydel	11.700070	1.112720	12.812790
ii	Lohgarh	2.0 MW	2.00	Hydel	9.858680	0.923710	10.782390
iii	Sadana	1.2 MW	1.20	Hydel	6.674240	0.856680	7.530920
	Aqua Power Plant Ltd. Total		5.20		28.232990	2.893110	31.126100
d	Abohar Power Generation						
i	Gholia MHP	1x800 KW	0.80	Hydel	4.297451	0.314838	4.612289
ii	Channuwal MHP	1x900 KW	0.90	Hydel	4.429913	0.295600	4.725513
iii	Akhara MHP	2x550 KW	1.10	Hydel	5.309463	0.356771	5.666234
iv	Khanpur	2x550 KW	1.10	Hydel	5.827956	0.436198	6.264154
v	Sudhar	2x700 KW	1.40	Hydel	5.698342	0.428185	6.126527
	Total		5.30		25.563125	1.831592	27.394717
D	Gill Power Ltd Babbali	2.7 MW	2.70	Hydel	9.176248	0.521972	9.698220
F	Atlantic Power	1x650 KW	0.65	Hydel	4.353280	0.415000	4.768280
G	Sam India	2x600 KW	1.20	Hydel	0.000000	0.009426	0.009426
H	PEDA						

i	Narangwal MHP	2x750 KW	1.50	Hydel	6.888962	0.582320	7.421282
ii	Dalla MHP	2x500 KW	1.00	Hydel	4.838080	0.337600	5.175680
iii	Tugal MHP	2x750 KW	1.50	Hydel	6.255805	0.425780	6.681585
iv	Chupki MHP	2x750 KW	1.50	Hydel	6.694177	0.509165	7.203342
v	Khatra MHP	2x500 KW	1.00	Hydel	4.274785	0.571246	4.846031
vi	Kanganwal MHP	2x650 KW	1.30	Hydel	4.214740	0.535340	4.750080
vii	Bowani MHP	2x750 KW	1.50	Hydel	2.283200	0.204210	2.487410
viii	Jagera MHP	2x500 KW	1.00	Hydel	4.924217	0.428203	5.352420
	Total PEDA		10.30		40.373766	3.543864	43.917630
	Total Mini Hydel		32.55		146.008399	13.851904	159.860303
I	Waste						
i	Hebowal Biometh.LDH	1.0 MW	1.00	Waste	2.037169	0.170297	2.207466
	Total for Non solar		205.25		446.833953	53.417999	500.251952
J	Solar						
a	PEDA						
i	Bajak SPV	50KW	0.05	Solar	0.000000	0.000000	0.000000
ii	Khatkar Kalan SPV	200 KW	0.20	Solar	0.132360	0.019255	0.151615
iii	Phulokheri SPV	1.0 MW	1.00	Solar	1.124924	0.134768	1.259692
b	Azure Solar Plant (SPV)	2.0 MW	2.00	Solar	2.595320	0.270822	2.866142
c	Somar Plant	1 MW	1.00	Solar	1.617728	0.149382	1.767110
d	Carlill Energy Bhagsar	1.5 MW	1.50	Solar	1.875370	0.247490	2.122860
e	Econenergy Boparai	1.MW	1.00	Solar	1.022522	0.119100	1.141622
f	G.S.Awal Bhuttiwal	1.5 MW	1.50	Solar	2.008001	0.233787	2.241788
g	Sovax Renewables Solar	1 MW	1.00	Solar	0.832281	0.109978	0.942259
	Total Solar		9.25		11.208508	1.284582	12.493089
	Total (non solar and solar)		214.50		458.042459	54.702581	512.745040
Short Term Power Purchase							
1	KRBL Ltd Dhuri	10.5 MW	8.00	Biomass	0.063120	0.000000	0.063120
2	CDBL	8.25 MW	6.0	Bagasse	5.739623	0.281941	6.021564
3	Lakshmi Energy & food	30 MW	28.0	Biomass	9.267600	0.333840	9.601440
4	Wahid Sandhar	12 MW	7.0	Bagasse	8.353530	2.498400	10.851930
5	Nahar Sugars	8 MW	7.0	Bagasse	1.953000	0.506700	2.459700
6	Indian Sucrose Ltd	12 MW	6.0	Bagasse	8.223252	3.342918	11.566170
7	Rana Sugars			Bagasse	0.000000	1.486206	1.486206
8	A.B.Sugars			Bagasse	0.000000	0.265320	0.265320
	Total for Short Term		62.00		33.600125	8.715325	42.315450
	Total Long & Short Terms		276.50		491.642584	63.417906	555.060490

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43

29

- 14/44 -



Sr.No	Name of Project	Inst.Cap.in MW	Source of fuel	Privous Month up to 2/2013 (In MU)	During 3/2013 (in MU)	G. Total Up to 3/2013 (in MU)
Own Hydel/Micro Hydel						
1	UBDC Stage I&II	91.35	Hydel	302.32	14.13	316.45
2	Micro Hydel					0.00
i	Daudhar	1.5	Hydel	0.00	0	0.00
ii	Nidampur	0.8	Hydel	0.00	0	0.00
iii	Thuhi	0.8	Hydel	0.00	0	0.00
iv	Rothi	0.8	Hydel	0.00	0	0.00
v	Ropar	1.7	Hydel	6.92	0.92	7.84
	Total	5.6		6.92	0.92	7.84
	Total Own Hydel	96.95		309.24	15.05	324.29
(D) Short Term NRSE Power Out side Punjab						
	Name of Trader/Projects	Power Purchased	Source of fuel	Privous Month Upto 2/2013 (In MU)	During 3/2013 (in MU)	G. Total Up to 3/2013 (in MU)
	BVPCL Himachal			234.13	16.62	250.75
TOTAL OF A+ B + C +D						
	Long Term			458.04	54.70	512.75
	Short Term			33.60	8.72	42.32
	Own Hydel			309.24	15.05	324.29
	Out Side Punjab			234.13	16.62	250.75
	G.Total			1035.02	95.09	1130.10
	NON SOLAR			1023.81	93.80	1117.61
	SOLAR			11.21	1.28	12.49

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44

Power Purchase from Punjab NRSE Projects/NRSE Fuel on long/Shot term Basis							
Sr. No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Source of fuel	Upto Previous Month 02/2014 (In MU)	During 03/2014 (in MU)	G. Total Up to 03/2014 (in MU)
(A) Co Generation		(K) Long Term					
a	Bagasse						
i	Rana Sugars Ltd	12 MW	10.20	Bagasse	0.000000	0.000000	0.000000
ii	Rana Sugars Ltd	34 MW	20	Bagasse	41.644260	7.883100	49.527360
iii	A.B. Sugars Lts	23 MW	20	Bagasse	40.857660	9.131220	49.988880
iv	Chadha Sugars Ltd	23 MW	18	Bagasse	21.214800	7.433460	28.648260
vi	Wahid Sandhar Sugars M	12 MW	7	Bagasse	10.900710	1.464030	12.364740
	Biomass						0.000000
i	Chandigarh Distillers & B	3.9 MW	2.50	Biomass	3.340000	0.668000	4.008000
ii	Chandigarh Distillers & B	8.25 MW	5	Biomass	2.664900	0.295189	2.960089
iii	Indian Acrylics Pvt Ltd	7.75 MW	1.50	Biomass	1.286100	0.273800	1.559900
iv	NV Distilleries	10 MW	6	Biomass	40.961640	4.119120	45.080760
v	A.B. Grain & Spirits	5.5 MW	3	Biomass	7.440345	0.832140	8.272485
vi	Lakshmi Energy & food	30 MW	24	Biomass	14.126160	0.037440	14.163600
vii	A2Z Nakoder	15 MW	15	Biomass	0.890100	0.000000	0.890100
viii	A2Z Fazilka	15 MW	15	Biomass	0.590724	0.000000	0.590724
	Total Co-Gen.		147.20		185.917399	32.137499	218.054898
(B) Biomass/IPP							
i	Malwa Power Pvt.Ltd	6 MW	6	Biomass	38.882000	4.526500	43.408500
ii	Universal Biomass	14.5 MW	14.50	Biomass	70.682000	7.901000	78.583000
iii	Punjab Biomass	12 MW	12	Biomass	20.084280	2.606160	22.690440
iv	Dee.Dev,	8 MW	8	Biomass	44.300990	4.745600	49.046590
v	Green Planet Binzon	6 MW	6	Biomass	3.424800	0.032616	3.457416
vi	Green Planet BirPind	10 MW	10	Biomass	0.000000	5.952825	5.952825
vii	Jalkheri Power Plant	10 MW	10	Biomass	0.000000	0.000000	0.000000
viii	Viaton Energy Ltd.	10 MW	10	Biomass	5.900880	4.419408	10.320288
	Total Biomass/IPP		76.50		183.274950	30.184109	213.459059
(C) Mini Hydel							
a	Punjab Hydro Ltd.						
i	Dolowal MHP	1.5 MW	1.50	Hydel	6.919890	0.464570	7.384460
ii	Salar MHP	1.4 MW	1.40	Hydel	7.215160	0.472510	7.687670
iii	Bhanbhaura MHP	1.3 MW	1.30	Hydel	7.463610	0.529310	7.992920
	Punjab Hydro Ltd. Total.		4.20		21.598660	1.466390	23.065050
b	Kotla Hydro Ltd						
i	Babanpur MHP	1.25 MW	1.25	Hydel	5.790740	0.440700	6.231440
ii	Killa	1.75 MW	1.75	Hydel	10.690620	0.777670	11.468290
iii	Sahoke	1.2 MW	1.20	Hydel	6.807040	0.580400	7.387440
	Kotla Hydro Ltd. Total		4.20		23.288400	1.798770	25.087170
c	Aqua Power Plant Ltd.						
i	Chakbhai MHP	2 MW	2	Hydel	10.815350	0.57526	11.390610
ii	Lohgarh	2 MW	2	Hydel	8.327790	0.65887	8.986660
iii	Sadana	1.2 MW	1.20	Hydel	6.654260	0.55362	7.207880
	Aqua Power Plant Ltd. Total		5.20		25.797400	1.787750	27.585150
d	Abohar Power Generation						

i	Gholia MHP	1x800 KW	0.80	Hydel	3.629327	0.28685	3.916177
ii	Channuwal MHP	1x900 KW	0.90	Hydel	3.762265	0.297694	4.059959
iii	Akhara MHP	2x550 KW	1.10	Hydel	4.715237	0.321546	5.036783
iv	Khanpur	2x550 KW	1.10	Hydel	5.525343	0.391434	5.916777
v	Sudhar	2x700 KW	1.40	Hydel	5.300901	0.370216	5.671117
	Total		5.30		22.933073	1.667740	24.600813
(D)	Gill Power Ltd Babbeli	2.7 MW	2.70	Hydel	10.310887	0.700750	11.011637
(F)	Altantic Power	650 KW	0.65	Hydel	3.689311	0.433500	4.122811
(G)	Sam India	650 KW	0.65	Hydel	4.163263	0.296296	4.459559
	Total						
(H)	PEDA						
i	Narangwal MHP	2x750 KW	1.50	Hydel	6.319963	0.388055	6.708018
ii	Dalla MHP	2x500 KW	1	Hydel	4.509625	0.324900	4.834525
iii	Tugal MHP	2x750 KW	1.50	Hydel	5.697326	0.371130	6.068456
iv	Chupki MHP	2x750 KW	1.50	Hydel	5.404653	0.403760	5.808413
v	Khatra MHP	2x500 KW	1	Hydel	5.406446	0.385890	5.792336
vi	Kanganwal MHP	2x650 KW	1.30	Hydel	5.089281	0.389884	5.479164
vii	Bowani MHP	2x750 KW	1.50	Hydel	3.776145	0.261435	4.037580
viii	Jagera MHP	2x500 KW	1	Hydel	5.389305	0.411973	5.801278
	Total PEDA		10.30		41.592743	2.937026	44.529769
	Total Mini Hydel		33.20		153.373737	11.088222	164.461959
(I)	Waste						
i	Hebawal Biometh.LDH	1 MW	1	Waste	1.965288	0.223260	2.188548
	Total for Non solar		257.90		524.531374	73.633090	598.164464
(J)	Solar						
a	PEDA						
i	Bajak SPV	50KW	0.05	Solar	0.000000		0.000000
ii	Khatkar Kalan SPV	200 KW	0.20	Solar	0.148978	0.015866	0.164844
iii	Phulokheri SPV	1 MW	1	Solar	1.241418	0.148932	1.390350
iv	NVVN Bundled (+Azure)	27 MW	27	Solar	29.126494	4.757713	33.884207
v	Soma Plant	1 MW	1	Solar	1.127552	0.128582	1.256134
vi	Carlill Energy Bhagsar	1.5 MW	1.50	Solar	1.998157	0.209988	2.208145
vii	Econenergy Boparai	1 MW	1	Solar	1.032756	0.129690	1.162446
viii	G.S.Atwal Bhuttiwal	1.5 MW	1.50	Solar	2.048993	0.231037	2.280030
ix	Sovax Renewables Solar	1 MW	1	Solar	0.808608	0.094410	0.903018
x	EBS	1.5 MW	1.50	Solar	1.363056	0.131398	1.494454
	Total Solar		35.75		38.896012	5.847616	44.743628
	Total (solar + non solar)		293.65		563.427386	79.480706	642.908092
(L) Short Term							
Short Term Power Purchase							
i	Indian Sucrose Ltd	12 MW	6	Bagasse	1.743708	0.000000	1.743708
ii	Nahar Sugars	8 MW	7	Bagasse	4.072020	0.430680	4.502700
	Total for Short Term		13		5.815728	0.430680	6.246408
	Total Long & Short Terms		306.65		569.243114	79.911386	649.154500

31A

(M) POWERCOM Own Hydel Project below 25 MW

Sr.No	Name of Project	Inst.Cap.in MW	Source of fuel	Upto Previous Month 02/2014 (In MU)	During 03/2014 (in MU)	G. Total Up to 03/2014 (in MU)
1	UBDC Stage I&II	91.35	Hydel	342.98	16.53	359.51
2	Micro Hydel					
i	Daudhar	1.5	Hydel	0.00	0.00	0.00
ii	Nidampur	0.8	Hydel	0.00	0.00	0.00
iii	Thuhi	0.8	Hydel	0.00	0.00	0.00
iv	Rothi	0.8	Hydel	0.00	0.00	0.00
v	Ropar	1.7	Hydel	9.91	0.90	10.81
	Total	5.6		9.91	0.90	10.81
	Total Own Hydel	96.95		352.89	17.42	370.31

(N) Short Term NRSE Power Out side Punjab

	Name of Trader/Projects	Power Purchased	Source of fuel	Upto Previous Month 02/2013 (In MU)	During 03/2014 (In MU)	G. Total Up to 03/2014 (in MU)
	PTC India		Hydel	44.43	1.53	45.96
	TOTAL OF K+ L +M +N					
	Long Term			563.43	79.48	642.91
	Short Term			5.81	0.43	6.24
	Own Hydel			352.89	17.42	370.31
	Out Side Punjab			44.43	1.53	45.96
	G.Total			966.56	98.86	1065.42
	NON SOLAR			927.66	93.01	1020.67
	SOLAR			38.90	5.85	44.75
	Total			966.56	98.86	1065.42

48

46

32

Projected Mus for 2014-15

Sr. No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Source of fuel	Total MUS (04.14 to 09.14)	Total MUS (10.14 to 03.15)	Total Mus Actual upto July 14 and projected for the rest year
A (Long Term)							
A Co Generation							
a Bagasse							
i	Rana Sugars Ltd	12.0 MW	10.20	Bagasse			
ii	Rana Sugars Ltd	34.0 MW	20.00	Bagasse	3	47	50
iii	A.B. Sugars Lts	23.0 MW	20.00	Bagasse	1	47	48
iv	Chadha Sugars Ltd	23.0 MW	18.00	Bagasse	1	39.5	40
vi	Wahid Sandhar Sugars Mill	12 MW	7.0	Bagasse	0	13	13
ii	Indian Sucre Ltd	12 MW	6	Bagasse	12	13	25
					0	0	0
b Biomass							
					0	0	0
i	Chandigarh Distillers & Bottlers	3.9 MW	2.50	Biomass	1	0.76	1
	Chandigarh Distillers & Bottlers	8.25 MW	5.00	Biomass	0	0	0
ii	Indian Acrylics Pvt Ltd	7.75 MW	1.50	Biomass	1	0.85	1
iii	NV Distilleries	10 MW	6.00	Biomass	15	22.18	37
iv	A.B. Grain & Spirits	5.5 MW	3.00	Biomass	1	1.67	3
v	Lakshmi Energy & food	30.0 MW	24	Biomass	0	0.42	1
vii	A2Z Nakoder	15 MW	15.00	Biomass	0	0	0
viii	A2Z Fazilka	15 MW	15.00	Biomass	0	0	0
ix	Viaton				16	24.08	40
	Total Co-Gen.		153.20	0.00	50	209.45	260
					0	0	0
B Biomass/IPP							
					0	0	0
i	Malwa Power Pvt.Ltd	6.0 MW	6.00	Biomass	16	23.95	40
ii	Universal Biomass	14.5 MW	14.50	Biomass	29	43.80	73
iii	Punjab Biomass	12.0 MW	12.00	Biomass	7	10.56	18
iv	Dee.Dev,	8.0 MW	8.00	Biomass	15	10.02	25
vi	Green Plant (Binzon)	10.0 MW	6.00	Biomass	7	8.82	15
	Green Plant (Birpind)	10 MW	6.00	Biomass	6	24.60	30
vii	Jalkheri Power Plant	10.0 MW	10.00	Biomass	0	0.00	0
					0	0.00	0
	Total Biomass/IPP		62.50		80	121.76	202
					0	0.00	0
C Mini Hydel							
					0	0.00	0
a Punjab Hydro Ltd.							
					0	0.00	0
i	Colowal MHP	1.5 MW	1.50	Hydel	3	4.13	7
ii	Salar MHP	1.4 MW	1.40	Hydel	3	4.18	7
iii	Bhanubura MHP	1.3 MW	1.30	Hydel	3	4.09	7
	Punjab Hydro Ltd. Total.		4.20		8	12.40	21
					0	0.00	0
b Kotla Hydro Ltd							
					0	0.00	0
i	Babanpur MHP	1.25 MW	1.25	Hydel	2	3.40	6
ii	Killa	1.75 MW	1.75	Hydel	4	6.44	11
iii	Sahoke	1.2 MW	1.20	Hydel	3	3.79	6
	Kotla Hydro Ltd.Total		4.20		9	13.64	23
					0	0	0
c Aqua Power Plant Ltd.							
					0	0	0
i	Chakbhai MHP	2.0 MW	2.00	Hydel	4	4.57	8

33

ii	Lohgarh	2.0 MW	2.00	Hydel	3	4.19	7
iii	Sadana	1.2 MW	1.20	Hydel	2	3.49	6
Aqua Power Plant Ltd. Total			5.20		10	12.24	22
					0	0.00	0
d	Abohar Power Generation				0	0.00	0
i	Gholia MHP	1x800 KW	0.80	Hydel	1	2.14	4
ii	Channuwal MHP	1x900 KW	0.90	Hydel	2	2.64	4
iii	Akhara MHP	2x550 KW	1.10	Hydel	2	3.22	5
iv	Khanpur	2x550 KW	1.10	Hydel	2	3.60	6
v	Sudhar	2x700 KW	1.40	Hydel	2	3.50	6
	Total		5.30		10	15.10	25
Individual Generators							
D	Gill Power Ltd Babbeli	2.7 MW	2.70	Hydel	4	5.59	9
E	Altantic Power	1x650 KW	0.65	Hydel	1	1.94	3
F	Sam India	2x600 KW	1.20	Hydel	1	3.00	4
G	Sidhwan Hydro	700 KW	0.70	Hydel	0	13.20	14
H	Atlantic Power Phoola	600 KW	0.60	Hydel	0	1.20	1
	Total				7	0	7
I	PEDA						
i	Narangwal MHP	2x750 KW	1.50	Hydel	3	3.81	6
ii	Dalla MHP	2x500 KW	1.00	Hydel	2	2.89	5
iii	Tugal MHP	2x750 KW	1.50	Hydel	3	3.85	6
iv	Chupki MHP	2x750 KW	1.50	Hydel	3	3.86	6
v	Khatra MHP	2x500 KW	1.00	Hydel	2	2.53	4
vi	Kanganwal MHP	2x650 KW	1.30	Hydel	1	2.15	4
vii	Bowani MHP	2x750 KW	1.50	Hydel	2	2.39	4
viii	Jagera MHP	2x500 KW	1.00	Hydel	2	2.92	5
	Total PEDA		10.30		16	24.40	41
	Total Mini Hydel		32.55		60	108.40	169
					0	0	0
					0	0	0
J	Waste						
i	Hebawal Biometh.LDH	1.0 MW	1.00	Waste	1	1.17	2
						0	0
	Total for Non solar		249.25		192	440.77	633
K Solar							
a	PEDA						
i	Bajak SPV	50KW	0.05	Solar	0	0	0
ii	Khalkar Kalan SPV	200 KW	0.20	Solar	0	0.09	0
iii	Phulokheri SPV	1.0 MW	1.00	Solar	1	0.80	1
iv	Azure Solar Plant (Bundled Power)	2.0 +25 MW	27.00	Solar	20	22.79	43
v	Somar Plant	1 MW	1.00	Solar	0	0.71	1
vi	Carlill Energy Bhagsar	1.5 MW	1.50	Solar	1	1.31	2
vii	Econenergy Boparai	1.MW	1.00	Solar	0	0.74	1
viii	G.S.Atwal Bhuttiwal	1.5 MW	1.50	Solar	1	1.33	2
ix	Sovax Renewables Solar	1 MW	1.00	Solar	0	0.54	1
xii	EBS	1.5 MW	1.50	Solar	0	0.74	1
xi	RSSB	7.5 MW	7.50	Solar	4	5.51	9
x	Madhav	2 MW	2.00	Solar	0	5.69	6
	Total Solar		45.25		28	40.25	68
	Total (non solar and solar)		294.50		219	481.02	701
	B (Short Term)				0		
	Short Term				0		
i	Nahar Sugars	8 MW	7	Bagsase	0	4.50	5
	Total Short term				0	4.50	5

33A

-17/42-

Annexure 2/4
(29)

Projected		Mus 2015-16			
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Source of fuel	Total FY 2015-16
A	Co Generation				
a	Bagasse				
i	Rana Sugars Ltd	12.0 MW	10.20	Bagasse	
ii	Rana Sugars Ltd	34.0 MW	20.00	Bagasse	50
iii	A.B. Sugars Ltd	23.0 MW	20.00	Bagasse	50
iv	Chadha Sugars Ltd	23.0 MW	18.00	Bagasse	30
vi	Wahid Sandhar Sugars Mill	12 MW	7.0	Bagasse	13
vii	Indian Sucrose Ltd	12 MW	6.0	Bagasse	13
b	Biomass				
i	Chandigarh Distillers & Bottlers	3.9 MW	2.50	Biomass	6
	Chandigarh Distillers & Bottlers	8.25 MW	5.00	Biomass	0.996
ii	Indian Acrylics Pvt Ltd	7.75 MW	1.50	Biomass	2.004
iii	NV Distilleries	10 MW	6.00	Biomass	39.996
iv	A.B.Grain & Spirits	5.5 MW	3.00	Biomass	7.5
v	Lakshmi Energy & food	30.0 MW	24	Biomass	3
vii	A2Z Nakoder	15 MW	15.00	Biomass	0
viii	A2Z Fazilka	15 MW	15.00	Biomass	0
	Viator				50.004
	Total Co-Gen.		153.20	0.00	265.5
B	Biomass/IPP				
i	Malwa Power Pvt.Ltd	6.0 MW	6.00	Biomass	45
ii	Universal Biomass	14.5 MW	14.50	Biomass	80.004
iii	Punjab Biomass	12.0 MW	12.00	Biomass	23.004
iv	Dee.Dev,	8.0 MW	8.00	Biomass	50.004
vi	Green Plant (Binzon)	10.0 MW	6.00	Biomass	20.004
	Green Plant (Birpind)	10.0 MW	6.00	Biomass	20.004
vii	Jalkheri Power Plant	10.0 MW	10.00	Biomass	0
	Total Biomass/IPP		62.50		238.02
C	Mini Hydel				
a	Punjab Hydro Ltd.				
i	Dolowal MHP	1.5 MW	1.50	Hydel	7.5
ii	Salar MHP	1.4 MW	1.40	Hydel	8.004
iii	Bhanubura MHP	1.3 MW	1.30	Hydel	8.004
	Punjab Hydro Ltd. Total.		4.20		23.4996
b	Kotla Hydro Ltd				
i	Babanpur MHP	1.25 MW	1.25	Hydel	6
ii	Killa	1.75 MW	1.75	Hydel	11.004
iii	Sahoke	1.2 MW	1.20	Hydel	6.996
	Kotla Hydro Ltd.Total		4.20		24
c	Aqua Power Plant Ltd.				
i	Chakbhai MHP	2.0 MW	2.00	Hydel	11.004
ii	Lohgarh	2.0 MW	2.00	Hydel	9
iii	Sadana	1.2 MW	1.20	Hydel	6.996
	Aqua Power Plant Ltd. Total		5.20		27
d	Abohar Power Generation				
i	Gholia MHP	1x800 KW	0.80	Hydel	3.996

48

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(34)

ii	Channuwal MHP	1x900 KW	0.90	Hydel	5.004
iii	Akhara MHP	2x550 KW	1.10	Hydel	5.496
iv	Khanpur	2x550 KW	1.10	Hydel	6
v	Sudhar	2x700 KW	1.40	Hydel	6
	Total		5.30		26.496
D	Gill Power Ltd Babheli	2.7 MW	2.70	Hydel	11.004
E	Atlantic Power	650 KW	0.65	Hydel	3.504
F	Sam India	2x600 KW	1.20	Hydel	4.5
G	Sidhwan Hydro	700 KW	0.70	Hydel	26.4
H	Atlantic Power Phoola	600 KW	0.60	Hydel	2.4
I	PEDA				
i	Narangwal MHP	2x750 KW	1.50	Hydel	6.9996
ii	Dalla MHP	2x500 KW	1.00	Hydel	5.004
iii	Tugal MHP	2x750 KW	1.50	Hydel	6.996
iv	Chupki MHP	2x750 KW	1.50	Hydel	6.996
v	Khatra MHP	2x500 KW	1.00	Hydel	5.004
vi	Kanganwal MHP	2x650 KW	1.30	Hydel	5.496
vii	Bowani MHP	2x750 KW	1.50	Hydel	4.5
viii	Jagera MHP	2x500 KW	1.00	Hydel	5.496
	Total PEDA		10.30		46.4916
	Total Mini Hydel		35.05		202.2948
J	Waste				
i	Hebawal Biometh.LDH	1.0 MW	1.00	Waste	2.196
	Total for Non solar		251.75		708.0108
K	Solar				
a	PEDA				
i	Bajak SPV	50KW	0.05	Solar	0
ii	Khatkar Kalan SPV	200 KW	0.20	Solar	0.15
iii	Phulokheri SPV	1.0 MW	1.00	Solar	1.2996
iv	Azure Solar Plant (Bundled Power)	2+25 MW	27.00	Solar	50.004
v	Somar Plant	1 MW	1.00	Solar	1.5
vi	Carlill Energy Bhagsar	1.5 MW	1.50	Solar	2.3004
vii	Econenergy Boparai	1.MW	1.00	Solar	1.404
viii	G.S Atwal Bhuttiwal	1.5 MW	1.50	Solar	2.4
ix	Sovax Renewables Solar	1 MW	1.00	Solar	0.9996
x	Madhav	2 MW	2.00	Solar	6.9996
xi	RSSB	7.52 MW	7.52	Solar	12
xii	EBS	1.5 MW	1.50	Solar	1.5
	Total Solar		45.27		80.5572
	Total (non solar and solar)		297.02		788.568

Short Term				
i	Nahar Sugars	8 MW	7	Baggase
	Total Short Term			4.50

340

STATEMENT SHOWING LOANS FOR GENERATION & R & M SCHEMES FOR THE YEAR 2012-13

A. REC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2012	Rate of Interest	Additions from 01.04.12 to 31.03.13	Repayment from 01.04.12 to 31.03.2013	Closing Balance as on 31.03.2013	Amount of Interest paid
1	161196	Mukerian Hydel Project	35,06,97,095	7.00%-12.75%		35,06,97,095	-	2,37,18,263
2	161272	GHTP-II Tehra Moh.	10,78,37,32,247	7.00%-12.75%		2,05,40,43,672	8,72,96,86,041	1,14,27,03,233
3	161274	RM&U Ropar	16,58,64,967	8.00%-12.50%		2,76,44,158	13,82,20,800	1,30,51,660
4	161275	R&M Works Ropar	1,76,01,772	11.00%-12.75%		26,07,670	1,49,94,102	19,81,355
5	161348	R&M Ganguwal & Kotla	20,46,85,483	11.00%-12.50%		2,92,43,452	17,54,23,348	2,34,03,656
6	161354	R&M Gen. Ropar	11,64,03,848	11.00%-12.50%	5,79,300	1,50,83,332	10,18,99,813	1,32,97,605
7	161353	R&M GGSSTP Ropar	42,21,007	11.00%-11.50%		8,44,202	33,76,805	3,49,697
8	161405	R&M GNDPT Bathinda	2,25,29,54,367	11.00%-12.50%	46,82,19,325	41,20,57,031	2,30,91,16,661	26,76,70,504
9	161349	R&M UBDC	3,20,84,632	11.00%-12.50%		53,47,439	2,67,37,193	35,44,518
10	161408	RLA Studies Ropar	6,29,13,786	11.00%-12.50%		96,79,046	5,32,34,740	71,40,705
11	161350	R&M Dehar	1,89,69,476	12.50%		27,09,925	1,62,59,551	23,11,788
12	162914	R&M Bhakra Left Bank	88,51,36,875	12.25%-12.50%	4,44,08,000		92,95,44,875	10,27,08,520
13	161437	R&M Works of 4 no. activities	3,85,62,786	11.00%-12.50%	4,87,200		3,90,49,986	43,12,887
14	162933	R&M Ropar	23,08,22,300	11.00%-12.50%	6,49,43,500		29,57,65,800	3,12,04,472
15	3134315	R&M Ropar	97,84,300	12.50%	5,63,28,400		6,61,12,700	57,85,110
16	3136103	R&M GGSSTP Ropar			3,81,46,000		3,81,46,000	
		Total	15,17,44,34,941		67,31,11,725	2,90,99,57,022	12,93,75,68,415	1,64,31,83,973
Less :		AGSP Subsidy (TEO NO. 15,24,37,49)						37,07,367
Less :		Accrued interest as on 31.03.12 (TEO No.35,36,51)						1,39,92,215
Add :		Accrued interest as on 31.03.12 (TEO No.39,40)						1,39,77,875
		Net Interest charged to P&L						1,63,94,62,266

B. PFC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2012	Rate of Interest	Additions from 01.04.12 to 31.03.13	Repayment from 01.04.12 to 31.03.2013	Closing Balance as on 31.03.2013	Amount of Interest paid
1	5006	SHANAN POWER HOUSE	18,36,832	6.50%-11.50%		18,36,849	-	56,716
2	5007	SHANAN POWER HOUSE	4,08,26,481	7.15%-7.75%		90,72,559	3,17,53,922	25,98,073
3	4003	RMU BATHINDA	92,51,78,217	6.80%-12.75%		16,82,14,206	75,69,64,011	6,50,87,732
		Total	96,78,41,530			17,91,23,614	78,87,17,916	6,77,42,521
		Provision for 2011-12						(1,55,76,057)
		Provision for 2012-13						1,29,53,364
		Total Charged to P & L						6,51,19,828

STATEMENT SHOWING LOANS FOR GENERATION & R & M SCHEMES FOR THE YEAR 2013-14

A. REC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2013	Rate of Interest	Additions from 01.04.13 to 31.03.14	Repayment from 01.04.13 to 31.03.2014	Closing Balance as on 31.03.2014	Amount of Interest paid
1	161272	GHTP-II Ielra Mob.	8,72,96,86,041	7.00%-12.75%		2,05,40,43,768	6,67,56,42,273	94,21,09,300
2	161274	RM&U Ropar	13,82,20,800	8.00%-12.50%		2,76,44,160	11,05,76,640	1,07,32,166
3	161275	R&M Works Ropar	1,49,94,102	12.25%-12.50%		26,07,670	1,23,86,432	17,38,677
4	161348	R&M Gangwal & Kodla	17,54,23,348	12.25%-12.50%		2,92,43,452	14,61,79,896	2,05,13,681
5	161354	R&M Gen. Ropar	10,18,99,813	11.75%-12.50%		1,50,96,269	8,68,03,544	1,16,18,390
6	161353	R&M GGSSTP Ropar	33,76,805	12.25%-12.50%		8,44,203	25,32,602	4,10,176
7	161405	R&M GNDPT Bathinda	2,30,91,16,661	12.25%-12.50%	35,91,31,060	48,39,03,362	2,18,43,44,359	26,69,51,934
8	161349	R&M UBDC	2,67,37,193	11.00%-12.50%		53,47,439	2,13,89,754	29,70,103
9	161408	RLA Studies Ropar	5,32,34,740	11.00%-12.50%		96,79,048	4,35,55,692	61,14,825
10	161350	R&M Dehar	1,62,59,551	12.50%		27,09,925	1,35,49,626	19,73,048
11	162914	R&M Bhakra Left Bank	92,95,44,875	12.25%-12.50%			92,95,44,875	11,17,85,540
12	161437	R&M Works of 4 no. activities	3,90,49,986	12.25%-12.50%		55,78,569	3,34,71,417	47,24,217
13	162933	R&M Ropar	29,57,65,800	11.00%-12.50%	10,38,93,500		39,96,59,300	4,55,54,589
14	3134315	R&M Ropar	6,61,12,700	12.50%			5,61,12,700	82,64,089
15	3136103	R&M GGSSTP Ropar	3,81,46,000	12.25%-12.50%	8,76,80,300		12,58,26,300	1,27,78,304
16	7139	Generator Stator at GNDTP BTI	-	12.25%	9,71,86,900		9,71,86,900	39,34,992
17	7140	R&M GGSSTP Ropar	-	12.25%-12.50%	10,38,13,800		10,38,13,800	49,57,272
Total			12,93,75,68,415		75,17,05,560	2,63,66,97,865	11,05,25,76,110	1,45,71,31,303
Less:		AGSP Subsidy						26,66,579
Less:		Accrued interest as on 31.03.13						1,39,77,875
Add:		Accrued interest as on 31.03.14						1,46,68,003
		Net Interest charged to P&L						1,45,51,54,852

B. PFC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2013	Rate of Interest	Additions from 01.04.13 to 31.03.14	Repayment from 01.04.13 to 31.03.2014	Closing Balance as on 31.03.2014	Amount of Interest paid
1	5,007	SHANAN POWER HOUSE	3,17,53,922	7.15%-7.75%		90,72,560	2,26,81,362	20,34,796
2	4,003	RMU BATHINDA	75,69,64,011	7.18%-12.75%		16,82,14,200	58,87,49,811	5,53,72,502
3	8,001	Loan for Oddisha UMPP	-	12.75%	71,90,00,000		71,90,00,000	5,43,30,706
		Total	78,87,17,933		71,90,00,000	17,72,86,760	1,33,94,31,173	11,17,38,004
Less:		Accrued interest as on 31.03.13						(1,58,21,920)
Add:		Accrued interest as on 31.03.14						2,93,91,442
		Total						12,53,07,526

STATEMENT SHOWING LOANS FOR GENERATION & R & M SCHEMES FOR THE YEAR 2014-15 (Upto 30.9.2014)

A. REC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2014	Rate of Interest	Additions from 01.04.14 to 30.09.14	Repayment from 01.04.14 to 30.09.14	Closing Balance as on 30.09.2014	Amount of Interest paid
1	161272	GHTP-II Iehra Mob.	6,67,56,42,273	7.00%-12.75%	-	1,02,70,21,883	5,64,86,20,390	38,41,95,123
2	161274	RM&U Ropar	11,05,76,640	8.00%-12.50%	-	1,38,22,080	9,67,54,560	45,06,429
3	161275	R&M Works Ropar	1,23,86,432	12.25%-12.50%	-	13,03,835	1,10,82,597	7,49,831
4	161348	R&M Ganguwal & Kotla	14,61,79,896	12.25%-12.50%	-	1,46,21,726	13,15,58,170	89,21,777
5	161354	R&M Gen. Ropar	8,68,03,544	11.75%-12.50%	-	75,48,135	7,92,55,409	52,20,741
6	161353	R&M GGSSTP Ropar	25,32,602	12.25%-12.50%	-	-	25,32,602	1,56,756
7	161405	R&M GNDPT Bathinda	2,18,43,44,359	11.50%-12.50%	9,60,11,000	56,73,49,650	1,71,30,05,709	13,78,55,481
8	161349	R&M UBDC	2,13,89,754	11.50%-12.50%	-	-	2,13,89,754	13,20,014
9	161408	RLA Studies Ropar	4,35,55,692	12.25%-12.50%	-	48,39,524	3,87,16,168	26,17,876
10	161350	R&M Dehar	1,35,49,626	12.50%	-	-	1,35,49,626	8,53,812
11	162914	R&M Bhakra Left Bank	92,95,44,875	12.25%-12.50%	33,13,01,300	-	1,26,08,46,175	6,35,38,288
12	161437	R&M Works of 4 no. activities	3,34,71,417	12.25%-12.50%	-	-	3,34,71,417	20,68,740
13	162933	R&M Ropar	39,96,59,300	11.50%-12.50%	1,56,75,400	5,93,33,527	35,60,01,173	2,54,40,678
14	3134315	R&M Ropar	6,61,12,700	12.50%	-	-	6,61,12,700	41,66,006
15	3136103	R&M GGSSTP Ropar	12,58,26,300	12.25%-12.50%	-	-	12,58,26,300	78,13,676
16	3137139	Genetior Stator at GNDTP BTI	9,71,86,900	12.25%	-	-	9,71,86,900	60,01,624
17	3137140	R&M GGSSTP Ropar	10,38,13,800	12.25%-12.50%	1,66,80,000	-	12,04,93,800	73,19,703
18	3137361	SHAHPURKANDI	-	12.50%	61,61,07,050	-	61,61,07,050	1,20,09,981
Total			11,05,25,76,110		1,07,57,74,750	1,69,58,40,360	10,43,25,10,500	67,47,56,536

B. PFC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2014	Rate of Interest	Additions from 01.04.14 to 30.09.14	Repayment from 01.04.14 to 30.09.14	Closing Balance as on 30.09.2014	Amount of Interest paid
1	5007	SHANAN POWER HOUSE	2,26,81,362	7.15%-7.75%	-	45,36,277	1,81,45,085	7,68,325
2	4003	RMU BATHINDA	58,87,49,811	7.18%-12.75%	-	8,41,08,106	50,46,41,705	2,29,77,515
3	8001	Loan for Oddisha UMPP	71,90,00,000	12.75%	-	-	71,90,00,000	4,54,59,714
Total			1,33,04,31,173		-	8,86,44,383	1,24,17,86,790	6,92,05,554

STATEMENT SHOWING LOANS FOR GENERATION & R & M SCHEMES FOR THE YEAR 2014-15 (From 01.10.2014 to 31.03.2015)

A. REC

Sr.	Loan No.	Name of Loan	Opening Balance as on 01.10.2014	Rate of Interest	Additions from 01.10.2014 to	Repayment from 01.10.2014 to	Closing Balance as on 31.03.2015	Amount of Interest payable
1	161272	GHTP-II lehra Moh.	5,64,86,20,390	7.00%-12.75%	-	1,02,70,21,946	4,62,15,98,444	32,43,06,503
2	161274	RM&U Ropar	9,67,54,560	8.00%-12.50%	-	1,38,22,078	8,29,32,482	39,05,784
3	161275	R&M Works Ropar	1,10,82,597	12.25%-12.50%	-	13,03,836	97,78,761	6,65,433
4	161348	R&M Ganguwal & Kotla	13,15,58,170	12.25%-12.50%	-	1,46,21,720	11,69,36,450	79,66,585
5	161354	R&M Gen. Ropar	7,92,55,409	11.75%-12.50%	-	75,43,136	7,17,07,273	48,55,075
6	161353	R&M GGSSTP Ropar	25,32,602	12.25%-12.50%	-	3,61,800	21,70,802	1,55,904
7	161405	R&M GNDPT Bathinda	1,71,30,05,709	11.50%-12.50%	-	-	1,71,30,05,709	10,37,80,329
8	161349	R&M UBDC	2,13,89,754	11.50%-12.50%	-	53,47,439	1,60,42,315	13,17,928
9	161408	RLA Studies Ropar	3,87,16,168	12.25%-12.50%	-	48,39,524	3,38,76,644	24,49,023
10	161350	R&M Dehar	1,35,49,626	12.50%	-	27,09,925	1,08,39,701	8,49,172
11	162914	R&M Bhakra Left Bank	1,26,08,46,175	12.25%-12.50%	-	-	1,26,08,46,175	7,75,83,493
12	161437	R&M Works of 4 no. activities	3,34,71,417	12.25%-12.50%	-	47,81,631	2,86,89,786	20,57,494
13	162933	R&M Ropar	35,60,01,173	11.50%-12.50%	-	-	35,60,01,173	2,20,97,843
14	3134315	R&M Ropar	6,61,12,700	12.50%	-	82,64,088	5,78,48,612	40,13,884
15	3136103	R&M GGSSTP Ropar	12,58,26,300	12.25%-12.50%	-	-	12,58,26,300	77,71,210
16	3137139	Generator Stator at GNDTP BTI	9,71,86,900	12.25%	-	-	9,71,86,900	59,69,006
17	3137140	R&M GGSSTP Ropar	12,04,93,800	12.25%-12.50%	-	-	12,04,93,800	74,80,356
18	3137361	SHAHPURKANDI	61,61,07,050	12.50%	-	-	61,61,07,050	2,40,19,962
Total			10,43,25,10,500		-	1,09,06,22,123	9,34,18,88,377	60,12,44,984

B. PFC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.10.2014	Rate of Interest	Additions from 01.10.14 to 31.03.15	Repayment from 01.10.15 to	Closing Balance as on 31.03.2015	Amount of Interest payable
1	5007	SHANAN POWER HOUSE	1,81,45,085	7.15%-7.75%	-	45,36,277	1,36,08,808	6,17,782
2	4003	RMU BATHINDA	50,46,41,705	12.25%-12.75%	-	8,41,08,106	42,05,33,599	2,72,67,984
3	8001	Loan for Oddisha UMPP	71,90,00,000	12.75%	-	-	71,90,00,000	4,62,12,986
Total			1,24,17,86,790		-	8,86,44,383	1,15,31,42,407	7,40,98,752

STATEMENT SHOWING LOANS FOR GENERATION & R & M SCHEMES FOR THE YEAR 2014-15 (Projected)

A. REC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2014	Rate of Interest	Additions from 01.04.14 to 31.03.2015	Repayment from 01.04.14 to 31.03.2015	Closing Balance as on 31.03.2015	Amount of Interest paid
1	161272	GHTP-II lehra Moh.	6,67,56,42,273	7.00%-12.75%	-	2,05,40,43,829	4,62,15,98,444	70,85,01,626
2	161274	RM&U Ropar	11,05,76,640	8.00%-12.50%	-	2,76,44,158	8,29,32,482	84,12,213
3	161275	R&M Works Ropar	1,23,86,432	12.25%-12.50%	-	26,07,671	97,78,761	14,15,264
4	161348	R&M Gangwal & Kotla	14,61,79,896	12.25%-12.50%	-	2,92,43,446	11,69,36,450	1,68,88,362
5	161354	R&M Gen. Ropar	8,68,03,544	11.75%-12.50%	-	1,50,96,271	7,17,07,273	1,00,75,816
6	161353	R&M GGSSTP Ropar	25,32,602	12.25%-12.50%	-	3,61,800	21,70,802	3,12,660
7	161405	R&M GNDPT Bathinda	2,18,43,44,359	11.50%-12.50%	9,60,11,000	56,73,49,650	1,71,30,05,709	24,16,35,810
8	161349	R&M UBDC	2,13,89,754	11.50%-12.50%	-	53,47,439	1,60,42,315	26,37,942
9	161408	RLA Studies Ropar	4,35,55,692	12.25%-12.50%	-	96,79,048	3,38,76,644	50,66,899
10	161350	R&M Dehar	1,35,49,626	12.50%	-	27,09,925	1,08,39,701	17,02,984
11	162914	R&M Bhakra Left Bank	92,95,44,875	12.25%-12.50%	33,13,01,300	-	1,26,08,46,175	14,11,21,781
12	161437	R&M Works of 4 no. activities	3,34,71,417	12.25%-12.50%	-	47,81,631	2,86,89,786	41,26,234
13	162933	R&M Ropar	39,96,59,300	11.50%-12.50%	1,56,75,400	5,93,33,527	35,60,01,173	4,75,38,521
14	3134315	R&M Ropar	6,61,12,700	12.50%	-	82,64,088	5,78,48,612	81,79,890
15	3136103	R&M GGSSTP Ropar	12,58,26,300	12.25%-12.50%	-	-	12,58,26,300	1,55,84,886
16	3137139	Generator Stator at GNDTP BTI	9,71,86,900	12.25%	-	-	9,71,86,900	1,19,70,630
17	3137140	R&M GGSSTP Ropar	10,38,13,800	12.25%-12.50%	1,66,80,000	-	12,04,93,800	1,48,00,059
18	3137361	SHAHPURKANDI	-	12.50%	61,61,07,050	-	61,61,07,050	3,60,29,943
Total			11,05,25,76,110		1,07,57,74,750	2,78,64,62,483	9,34,18,88,377	1,27,60,01,520

B. PFC

Sr. No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2014	Rate of Interest	Additions from 01.04.14 to 31.03.15	Repayment from 01.04.15 to	Closing Balance as on 31.03.2015	Amount of Interest payable
1	5007	SHANAN POWER HOUSE	2,26,81,362	7.15%-7.75%	-	90,72,554	1,36,08,808	13,86,107
2	4003	RMU BATHINDA	58,87,49,811	12.25%-12.75%	-	16,82,16,212	42,05,33,599	5,02,45,499
3	8001	Loan for Oddisha UMPP	71,90,00,000	12.75%	-	-	71,90,00,000	9,16,72,700
Total			1,33,04,31,173		-	17,72,88,766	1,15,21,42,407	14,33,04,306

Not Additions given above are upto 30/09/2014.No addition from 01/10/2014 to 31/03/2015 has been considered.

STATEMENT SHOWING LOANS FOR GENERATION & R & M SCHEMES FOR THE YEAR 2015-16 (Projected)

A. REC

Sr. Loan No.	Name of Loan	Opening Balance as on 01.4.2015	Rate of Interest	Additions from 01.4.15 to 31.03.16	Repayment from 01.04.2015	Closing Balance as on 31.03.2016	Amount of Interest payable
1	161272 GHTP-II Iehra Moh.	4,62,15,98,444	7.00%-12.75%	-	2,05,40,43,892	2,36,75,54,552	44,75,91,592
2	161274 RM&U Ropar	8,29,32,482	8.00%-12.50%	-	2,76,44,156	5,52,88,326	61,06,561
3	161275 R&M Works Ropar	97,78,761	12.25%-12.50%	-	25,07,672	71,71,089	10,94,510
4	161348 R&M Gangwal & Kotla	11,69,36,450	12.25%-12.50%	-	2,92,43,440	8,76,93,010	1,32,70,138
5	161354 R&M Gen. Ropar	7,17,07,273	11.75%-12.50%	-	1,50,96,272	5,66,11,001	1,24,96,062
6	161353 R&M GGSSTP Ropar	21,70,802	12.25%-12.50%	-	3,61,800	18,09,002	3,11,807
7	161405 R&M GNDPT Bathinda	1,71,30,05,709	11.50%-12.50%	-	56,73,49,650	1,14,56,56,059	15,41,42,274
8	161349 R&M UBDC	1,60,42,315	11.50%-12.50%	-	53,47,439	1,06,94,876	26,35,856
9	161408 RLA Studies Ropar	3,38,76,644	12.25%-12.50%	-	96,79,048	2,41,97,596	45,94,886
10	161350 R&M Dehar	1,08,39,701	12.50%	-	27,09,925	81,29,776	16,98,344
11	162914 R&M Bhakra Left Bank	1,26,08,46,175	12.25%-12.50%	-	18,01,20,882	1,08,07,25,293	15,52,29,458
12	161437 R&M Works of 4 no. activities	2,86,89,786	12.25%-12.50%	-	47,81,631	2,39,08,155	41,14,989
13	162933 R&M Ropar	35,60,01,173	11.50%-12.50%	-	5,93,33,527	29,66,67,646	4,93,88,172
14	3134315 R&M Ropar	5,78,48,612	12.50%	-	82,64,088	4,95,84,524	80,71,636
15	3136103 R&M GGSSTP Ropar	12,58,26,300	12.25%-12.50%	-	1,57,28,287	11,00,98,013	1,56,27,351
16	3137139 Generator Stator at GNDTP BTI	9,71,86,900	12.25%	-	-	9,71,86,900	1,20,03,248
17	3137140 R&M GGSSTP Ropar	12,04,93,800	12.25%-12.50%	-	-	12,04,93,800	1,34,30,771
18	3137361 SHAHPURKANDI	61,61,07,050	12.50%	-	-	61,61,07,050	7,69,39,924
Total		9,34,18,88,377			2,98,23,11,709	6,35,95,76,668	97,87,47,579

B. PFC

Sr. Loan No.	Name of Loan	Opening Balance as on 01.4.2015	Rate of Interest	Additions from 01.3.15 to 31.03.16	Repayment from 01.3.15 to 31.03.2016	Closing Balance as on 31.03.2016	Amount of Interest payable
1	5007 SHANAN POWER HOUSE	1,36,08,808	7.15%-7.75%	-	90,72,552	45,36,256	7,37,419
2	4003 RMU BATHINDA	42,03,33,599	12.25%-12.75%	-	16,82,14,208	25,23,19,391	3,85,87,302
3	8001 Loan for Oddisha UMPP	71,90,00,000	12.75%	-	-	71,90,00,000	9,16,72,700
Total		1,15,31,42,407			17,72,86,760	97,58,55,647	13,09,97,421

Note No addition has been considered for the above projections.

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Annexure - III

(Rs. in crores)

Source	sp.	Depreciation			Interest & Finance Charges			Fixed Cost			Total Cost (Actual)			Return on equity @15.5%	Grand Total	Cost per unit including return on equity (in Rs.)		
		Total	Actual	Segregated	Total	Actual	Segregated	Total	Actual	Segregated	Total	Actual	Segregated				Total	
Annexure - III	11	12	13	14	15	16	17	18(3+6+9+12+15)	19(4+7+10+13+16)	20(18+19)	21(2+18)	22(19)	23	24(23*10/11)	25	26(23+25)	27(26*10/11)	
	GNDFP, Barhinda	1.25	17.95	0.21	18.16	0.00	284.23	284.23	144.91	335.56	480.47	545.95	335.56	881.51	6.07	94.73	976.24	6.72
	GGSTP, Roar	3.77	19.27	0.34	19.61	0.00	228.03	228.03	280.03	313.39	593.42	235.01	313.39	2669.40	3.18	96.46	2765.86	3.20
	GHTP, Lakra Mohabbat	3.54	140.85	0.00	140.85	0.00	247.61	247.61	270.28	285.68	555.96	1676.12	285.68	1951.80	2.95	110.5	2060.30	3.15
	Total Thermal/ Average	8.56	178.07	0.55	178.62	0.00	759.87	759.87	695.22	934.63	1629.85	4578.08	934.63	5512.71	3.34	309.69	5872.40	3.33
	Shanan	0.42	2.30	0.19	2.49	0.00	6.28	6.28	13.69	11.37	25.06	13.69	11.37	25.06	0.58	2.41	27.47	0.63
	UDOC	0.31	5.49	0.12	5.61	0.00	98.20	98.20	23.89	66.49	90.38	23.89	66.49	90.38	2.86	21.84	112.22	3.55
	RSD	0.65	210.06	0.01	210.07	0.00	498.57	498.57	221.76	503.76	725.52	221.76	503.76	725.52	5.10	201.59	927.10	6.51
	MHP	0.49	17.33	0.36	17.69	0.00	52.78	52.78	37.67	62.21	99.88	37.67	62.21	99.88	0.71	24.77	124.65	0.99
	ASHP	0.15	1.28	1.66	2.94	0.00	40.39	40.39	17.01	49.19	66.20	17.01	49.19	66.20	1.04	13.49	79.69	1.26
	Micro	0.00	0.41	0.00	0.41	0.00	1.01	1.01	0.41	1.01	1.42	0.41	1.01	1.42	1.81	0.07	2.09	2.67
	SVL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	-0.67	0.00	0.67	-0.67	0.00		2.57	2.57	
	Own Hydro Total / Average	2.02	236.87	2.34	239.21	0.00	657.23	657.23	315.10	693.36	1008.46	315.10	693.36	1008.46	2.39	207.33	1275.79	1.03
	BBMB Total/Average	1.20	0.00	6.31	6.31	0.00	6.57	6.57	135.05	12.88	147.93	135.05	12.88	147.93	0.39	2.39	150.32	0.39
	Total Own/ BBMB Hydro	3.22	236.87	8.65	245.52	0.00	663.80	663.80	450.15	706.24	1156.39	450.15	706.24	1156.39	1.44	209.62	1456.01	1.77
	Total Generation Cost	11.78	414.94	9.20	424.14	0.00	1423.67	1423.67	1145.37	1640.87	2786.24	1145.37	1640.87	2786.24	2.72	579.31	7248.41	2.85
	Power Purchase	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	3.81	0.00	7247.66	3.81
Total Gen/Power Purchase	11.78	414.94	9.20	424.14	0.00	1423.67	1423.67	1145.37	1640.87	2786.24	1145.37	1640.87	2786.24	2.72	579.31	7248.41	2.85	
Transmission Loss	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	0.00	0.00	
Transmission Charges to PSTCL	1.23	0.00	0.00	0.00	0.00	0.00	0.00	77.39	9.15	86.54	878.83	9.15	887.98	0.00	0.00	887.98	0.00	
Cost at Transmission End	13.01	414.94	9.20	424.14	0.00	1423.67	1423.67	1222.76	1650.02	2872.78	13154.72	1650.02	14804.74	3.58	579.31	15364.05	3.72	
Distribution Loss	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	0.00	0.00	
Distribution Exp	99.72	369.47	2.71	372.18	0.00	1006.12	1006.12	2524.64	2151.81	4676.45	2524.64	2151.81	4676.45	0.60	363.31	5039.76	0.53	
Head Office	0.00	11.91	-11.91	0.00	0.00	0.00	0.00	1372.04	-1372.04	0.00	1372.04	-1372.04	0.00		0.00	0.00	0.00	
Cost at Consumer End	112.73	786.32	0.00	786.32	0.00	2429.79	2429.79	5119.44	2429.79	7549.23	17051.40	2429.79	19481.19	5.38	942.62	20423.81	5.64	

7

Source wise cost of Power Generation/ Purchase for the year 2012-13

Source	Net Gen. In Mus	Salary				Repair & Mtc.				Admn. & General	
		1	2	3	4	5	6	7	8	9	10
GNDP, Bathinda	1451.98	401.04	107.43	158.34	18.47	0.02	18.49	1.06	0.19		
GGSTP, Ropar	8399.37	2075.98	178.12	84.40	282.52	79.43	0.06	79.49	3.21	0.56	
GTP, Lehra Mohabbat	6603.08	1405.84	79.11	37.50	116.61	47.31	0.04	47.35	3.01	0.51	
Total Thermal/ Average	16494.43	3882.86	172.81	537.47	145.21	0.12	145.33	7.28	1.28		
Shanani	432.78	0.00	10.08	4.78	14.86	1.01	0.00	1.01	0.30	0.12	
LRDC	316.45	0.00	17.05	8.08	25.13	1.13	0.00	1.13	0.22	0.09	
RSD	1423.74	0.00	10.52	4.99	15.51	0.72	0.00	0.72	0.46	0.19	
MRHP	1397.62	0.00	18.84	8.93	27.77	1.15	0.00	1.15	0.35	0.14	
ASHP	634.75	0.00	14.99	7.09	22.08	0.64	0.00	0.64	0.10	0.05	
Micro	7.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SYL	0.00	0.00	0.64	-0.64	0.00	0.00	0.00	0.00	0.03	-0.03	
Down Hydro Total/ Average	4213.18	0.00	72.12	33.23	105.35	4.65	0.00	4.65	1.46	0.56	
BBMB Total/ Average	3836.74	0.00	111.84	0.00	111.84	22.01	0.00	22.01	1.20	0.00	
Total Own/ BBMB Hydro	8049.92	0.00	183.96	33.23	217.19	26.66	0.00	26.66	2.66	0.56	
Total Generation Cost	24544.35	3882.86	548.62	206.04	754.65	171.87	0.12	171.99	9.94	1.84	
Power Purchase	19003.86	7247.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Gen/Power Purchase	43548.21	11130.52	548.62	206.04	754.65	171.87	0.12	171.99	9.94	1.84	
Transmission Loss	2177.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Transmission Charges to PSTCL	0.00	801.44	71.79	8.96	807.19	4.56	0.00	4.56	1.04	0.19	
Cost at Transmission End	41370.80	11931.96	620.41	215.00	835.41	176.43	0.12	176.55	10.98	2.03	
Distribution Loss	5129.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Distribution Exp	0.00	0.00	1916.30	1116.70	3033.00	165.15	0.28	165.43	73.72	26.00	
Head Office	0.00	0.00	1331.70	-1331.70	0.00	0.40	-0.40	0.00	28.03	-28.03	
Cost at Consumer End	36241.51	11031.96	3868.41	0.00	3868.41	341.98	0.00	341.98	112.73	0.00	

Note: 1

The figures of SYL and RSTP, Jalkheri have been included in distribution

2 The figure of Other Debits amounting to Rs. 18.58 crore pertaining to Distribution has not been shown in the above data

3 The return on equity has been apportioned on the basis of Gross Assets as on 31-3-13 of respective function

4 The figure of equity of the functions is as decided in the FRP

5 The Total cost is based on the accounts

6 The debt services of the company are at corporate level therefore the interest has been segregated on the basis of net assets as on 31-3-13

7 The column 'Segregated' shows the Corporate expenses. The Segregated column of Salary mainly shows the terminal benefits.

7

Annexure - IV

Recd. on 22.1.14

(70)

PUNJAB STATE ELECTRICITY REGULATORY COMMISSION
SCO NO. 220-221, SECTOR 34-A, CHANDIGARH
Ph. 0172-2645164-66, Fax 0172-2664758

Diary No. 150
Date 22.1.14
Dy. CE/TR-II
✓ CAO/TR (F)
DY CAO/TR (F)
Addl. SE/TR-II
Addl. SE/TR-IV
Addl. SE/TR-V

To

Chief Engineer/ARR & TR,
Shed No. F-4, Shaki Vihar,
PSPCL, Patiala.

Fax: 0175-2302416

Memo No. 702 /PSERC/DTJ-105

Dated: 20.1.14

Sub: Assessment of AP consumption-Percentage Share of Pumped Energy of Kandi Feeders to be counted towards AP unmetered Pumped Energy.

Ref: Your office Memo No. 2944/CC/DTR-121/Vol.ii/TR-II dated 23.12.2013.

In your above referred letter, it has been mentioned that although the percentage of sanctioned load of AP consumer fed from mixed kandi area feeders is around 30% but the billed energy of these consumers is around 45% so the pumped energy counted towards unmetered AP consumers of kandi area feeders may be taken as 45% of the total pumped energy of kandi area feeders for assessing the AP consumption.

On the onset, it is pointed out that in your above referred letter, the figures of AP billed energy have been taken on the basis of sample meter readings and it has been established beyond any doubt that the AP consumption worked out by PSPCL on the basis of sample meter readings is inaccurate and are usually overestimated by the field officers to claim lower T&D losses. It was precisely due to this reason that during processing of ARR & tariff petition for FY 2013-14, the Commission decided to assess AP consumption for FY 2012-13 on the basis of pumped energy figures. PSPCL was also directed to supply monthly pumped energy data for assessment of AP consumption. Thus, AP consumption worked out on the basis of sample meter readings cannot be used as a yardstick to estimate pumped energy of AP loads fed from kandi area feeders.

To assess the AP consumption of Kandi area feeders more accurately, PSPCL was directed in the Tariff Order for FY 2013-14 to segregate AP load of Kandi area feeders from other mixed loads and in case of some practical difficulty, all AP motors on such Kandi area feeders should be metered during the year 2013-14. Your office while submitting the status of compliance of directives ending June, 2013 vide Memo no. 2719 dated 26.8.2013 informed that DPRs for segregating 182 number Kandi area feeders are under sanction

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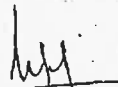
(43)

by REC and compliance of the directive shall be ensured during the year 2013-14. Same assurance was reiterated in the status report ending September, 2013, submitted vide your office Memo no. 2867 dated 14.11.2013. However, it is a matter of serious concern that till date not even a single Kandi area feeder has either been segregated or covered under 100% metering which might have helped the Commission to assess the consumption of AP consumers running on Kandi area mixed feeders with more precision.

It has further been observed that in case 45% of the pumped energy of all kandi area feeders is taken for assessing AP consumption then for the year 2012-13, the total pumped energy for agriculture sector will work out to be 7020.86 LU and assuming distribution loss (11 KV and below) of 13.12 % as worked out by the Commission for the year 2012-13, the AP consumption shall be 6099.73 LU which will be 731.24LU i.e 13.63% more than even the AP consumption of 5368.49 LU indicated by PSPCL in the data on the basis of sample meters. Similarly during the first half of 2013-14, the AP consumption will be 3740.29 LU (considering the target distribution loss of 12.24% fixed for the year 2013-14 by Commission in TO for FY 2013-14) which will be 577.96 LU i.e 18.28% more than the AP consumption of 3162.33 LU claimed on the basis of sample meter consumption.

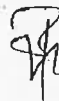
Further, in case T&D losses of AP and non AP loads during FY 2013-14 are segregated on the basis of data submitted by PSPCL then T&D losses for non-AP loads works out to be 27.16 % whereas T&D losses of AP loads works out to be 18.87% which is highly improbable, since due to use of inefficient, over sized AP motors by farmers and rampant theft in AP sector, the losses in the AP sector are usually much more than that prevailing in non-AP sector. Thus the above data, again points out towards inaccuracy of AP consumption on the basis of sample meter readings.

From the above, it is evident that estimation of AP consumption on the basis of sample meter readings cannot be relied upon to work out any formula, as suggested by PSPCL, to assess the percentage of energy being pumped into the agriculture sector in the areas fed from kandi area mixed feeders. PSPCL is advised to implement the directive of the Commission as referred above in letter and spirit at the earliest. PSPCL may submit its comments on the observations brought out above, if any, within 7 days positively.


Secretary

CC

Director/Distribution, PSPCL, Patiala



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PUNJAB STATE POWER CORPORATION LIMITED
CHIEF ENGINEER/ARR & TR, F-4, SHAKTI VIHAR, PATIALA

To

Secretary,
PSERC, SCO-220-221,
Sector-34 A, Chandigarh.

FAX No.0172-2664758
E-mail percchd8@hotmail.com

Memo No. 2944. /CC/DTR-121/Vol.11/TR-II
Dated 23/12/2013.

Subject: **Assessment of AP consumption – Percentage Share of Pumped Energy of Kandi Feeders to be counted towards AP unmetered Pumped Energy.**

It is submitted that in PSPCL, there are around 236 Kandi Area Feeders feeding both AP and other loads. In order to determine the share of pumped energy towards AP unmetered consumers in 2012-13, it was assumed that %age usage of AP and Non AP consumers will be proportional to their load. As AP unmetered consumers load was around 30%. Therefore, 30% share of pumped energy of these feeders was counted towards AP. This resulted in negative AP losses on these feeders and high non AP losses of the respective divisions. On analysis, it was found out that although the connected load of AP consumers is around 30%, but billed energy is around 45%. In order to verify the data of all Kandi Area feeders was compiled for the period 2012-13, up to Sep.2013 for 2013-14 (analysis attached) with respect to:

- i) No. of Consumers.
- ii) Sanctioned load.
- iii) Units Billed.

The above data clearly points out that although the %age sanctioned load of AP consumers is around 30%, but billed energy proportion is 45%. It is requested that 45% of the Pumped Energy of Kandi Area feeders be counted towards AP unmetered Pumped Energy, please.

DA/As above.

[Signature]
Chief Engineer/ARR & TR,
PSPCL, Patiala.

o/c AR
23/12/13

[Signature]
23/12/13

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Drinking Water Area Information

Sr. No.	Circle	Units Pumped (1-4-13 to 30-9-13)	Number of Connections										Sanctioned Load (Kw)										Units Billed (1-4-13 to 30-9-13)										Share Losses	
			DS	NRS	SP	MS	LS	Others	AP	Total	Age AP No. of Conn.	Age AP No. of Conn.	DS	NRS	SP	MS	LS	Others	AP	Total	Age AP No. of Conn.	Age AP No. of Conn.	DS	NRS	SP	MS	LS	Others	AP	Total	Age AP No. of Conn.	Age AP No. of Conn.		
1	Hoshiarpur	76	3052.77	146984	16885	1329	169	25	3	15350	378839	9.00	91.00	174631	27424	13766	8316	6750	60	97232	328179	30.78	63.77	84932	13503	88.88	86.49	40.11	1.09	859.02	2059.94	47.71	57.79	32.52
2	Jalandhar	2	72.05	2902	92	13	12	0	0	393	2812	13.98	66.02	2982	72	132	324	0	0	3138	6648	47.20	52.60	3748	0.69	1.24	3.08	0.00	0.00	18.41	70.89	53.63	46.17	1.61
3	Gurdaspur	23	773.60	38303	4956	630	121	92	2	1691	45795	4.92	95.08	31156	11546	5719	8053	18693	195	7686	84048	10.46	80.54	18940	57.59	23.67	56.03	80.78	3.54	104.78	515.84	25.32	74.66	33.32
4	Ropar	54	2157.57	101472	10651	862	217	28	41	11323	124550	11.93	88.07	137466	24451	8974	10787	7884	836	70484	260882	33.20	66.81	628.61	108.40	58.64	32.21	18.71	14.36	755.27	1616.20	50.91	49.02	15.09
5	Mohali	39	1702.39	52341	3476	330	153	1	78	5903	62182	9.48	90.52	104250	13977	4290	5602	0	364	58696	186179	31.53	68.47	56652	112.87	44.17	39.63	0.00	6.38	563.85	1333.41	42.29	57.71	21.67
6	Nawanshahr	42	1712.62	62798	4205	400	69	7	1	8453	75933	11.13	88.87	78388	9499	4960	3282	1317	10	59613	157043	37.46	62.04	40127	40.57	37.59	32.48	7.62	0.05	841.00	1360.55	62.64	37.36	20.36
PSCL TOTAL		236	9471.00	402310	40249	3164	697	153	125	43113	490211	8.79	91.21	528673	89969	37841	36344	34644	1465	256949	1022985	29.02	70.03	266759	655.14	254.19	249.96	147.22	75.42	3182.33	6958.84	35.40	54.54	26.55

7

**Before the Appellate Tribunal for Electricity
(Appellate Jurisdiction)**

Appeal No. 96 of 2008

Dated: March 03 , 2009.

Present: - Hon'ble Mrs. Justice Manju Goel, Judicial Member
Hon'ble Shri H.L. Bajaj, Technical Member

Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.
Shakti Bhawan, 14, Ashok Marg
Lucknow-226001

.....Appellant

Versus

1. Uttar Pradesh Electricity Regulatory Commission
Kisan Mandi Bhawan, Gomti Nagar
Lucknow-226010
2. Uttar Pradesh Power Corporation Ltd.
7th floor, Shakti Bhawan
14, Ashok Road
Lucknow-226001
3. Madhyanchal Vidyut Vitran Nigam Ltd.
PN Road
Lucknow-226001
4. Poorvanchal Vidyut Vitaran Nigam Ltd.
132 KVS/S Bhikari Vidyut Nagar
Varanasi -221004
5. Paschimanchal Vidyut Vitaran Nigam Ltd.
Victoria Park
Meerut-250001
6. Dakshinanchal Vidyut Vitaran Nigam Ltd.

GB
No. of corrections

Gailana Road
Agra-282007

7. Kanpur Electricity Supply Company Ltd.
Kesa House
Kanpur-208001

8. NOIDA Power Company Ltd.
Commercial Complex, H Block
Alpha II Sector
Greater NOIDA(UP) -201308

....Respondents

Counsel for the appellant(s) : Mr. M.G.Ramachandran with
Mr. Anand K.Ganesan and
Ms. Swapna Seshadri

Counsel for the respondent(s): Mr. N.K. Sahoo for
Mr. Suresh Tripathi

Judgment

Per Hon'ble Mr. H.L. Bajaj, Technical Member.

In this appeal Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd. (UPRVUNL in short) has challenged Tariff Order dated March 26, 2007 passed by the Uttar Pradesh Electricity Regulatory Commission (Commission in short) in petition No. 435 of 2007 for the ARR of FY 2007-08 and as modified by the Commission on October 10, 2007 partly allowing the review petition of the appellant. Thus Original Tariff order dated

48

March 26, 2007 has merged with the Review Order dated October 10, 2007.

2. We now proceed to deal with the two issues the appellant has agitated before us:

3. Issue No. 1 Exclusion of Capacity of Units under Renovation and Modernization (R&M).

4. Mr. M.G. Ramachandran, learned counsel for the appellant submitted that in the impugned order dated October 10, 2007 the Commission accepted the submissions of the appellant to the effect that the units under Renovation and Modernization (R&M) should not be considered for calculation of the Plant Load Factor (PLF) and the effective capacity left after discounting the capacity under renovation and modernization should alone be considered for the same. He stated that the Commission was pleased to hold as under:

"8. Since R&M of units of a generating plant brings consequential impossibility of operation of such capacity, the plant capacity which remains under R&M shall not be considered for calculation of PLF and the effective capacity, left after discounting

capacity under R&M, shall be considered for the purpose of PLF and plant availability during 2007-08 and 2008-09. However, target PLF and target availability specified in the tariff order dated March 26, 2007 shall remain unchanged.

The capacity charges specified in the tariff order shall be prorated to the effective capacities.

9. The petition is disposed of"

5. Mr. Ramachandran contended that the appellant is aggrieved by the second part of para 8 of the order dated October 10, 2007(quoted above) which states that the capacity charges specified in the tariff order shall be prorated to the effective capacity which is sought to be applied with reference to the total capacity including the capacity of the units under R&M. This takes away the decision made by the Commission in the first part of para 8 of the order dated October 10, 2007 giving the relief to the appellant.

6. Learned counsel contended that by Notification dated March 19, 2008, the Commission has amended its UPERC (Terms and Conditions of Tariff) Regulations, 2004 and has

provided as under with respect to the above issue raised in this appeal:

"Amendments to regulation -16 'Norms of operation'

.....

(c) Note-2 shall be inserted after Note-1 to clause (i) as below:

In the case of non-availability of unit(s) due to Renovation and Modernization, the effective capacity left after discounting capacity of such unit(s) shall be considered for the purpose of calculation of plant availability. The depreciation and interest on working capital in the annual capacity(fixed) charges shall only be prorated to such effective capacity. The return on equity shall be utilized for repayment of loan. The above provision shall apply in case of generating stations covered under sub clause(a) and (b) above".

7. He submitted that amendment to the Regulations clearly indicates that the Commission has recognized this issue raised by the appellant in the present appeal and corrected the same for the subsequent period to some extent by providing that the depreciation and interest on working capital in the

24

51

annual capacity (fixed) charges shall only be prorated to such effective capacity.

8. He urged that in the circumstances the last part of para 8 of the order dated October 10, 2007 which states 'that the capacity charges specified in the tariff order shall be prorated to the effective capacity' should be deleted and the effect should be fully given to the earlier part of para 8 of the said order.

Analysis and decision

9. When a plant is taken out for renovation and modernization, obviously the machine cannot be operated and has to necessarily remain out of service during the R&M work. In view of this, the Commission has rightly considered this period as "consequential impossibility of operation of such capacity". Having reached this right conclusion, the Commission could not have taken away the effect of this factual ground reality. Moreover, the Commission itself has amended its Regulation 16 "Norms of Operation" in which it has specified that, "the depreciation and interest on working

74

52

capital in the annual capacity (in fixed) charges shall only be prorated to such effective capacity”.

10. In view of the aforesaid discussion we decide that the last sentence of para 8 of the order of the Commission reading “the charges specified in the tariff order shall be prorated to the effected capacity” needs to be deleted.

11. Issue No. 2- Unrealistic operating norms of operation for Old stations

12. Mr. Ramachandran submitted that the five generating stations namely Obra A, Obra B; Harduaganj, Pankhi and Parichha are old generating stations of the vintage of 1968 onwards. These are smaller capacity generating stations with unit capacity of 32 MW, 50 MW, 55 MW, 60 MW, 100 MW, 110 MW and 200 MW. These plants have lived their normal life and are being continuously run in the larger public interest as the fixed charges are low and these result in a benefit much more than the loss on account of the relaxed operation norms sought for.

13. He contended that in the order dated March 26, 2007 the Commission has specified norms on Target Availability, Auxiliary Consumption, and Gross Station Heat Rate. The comparison of what the appellant claimed and what the Commission has allowed is as under:

1. Plant availability

Plants	Actual availability (%)		Target Availability approved as per T.O. (%)	
	FY 06-07	Up to Nov. 07	FY 06-07	FY 07-08
Obra A (442 MW)	18.05	19.20	69.00	74.00
Obra A (188 MW) (excluding R&M/Refurbishment Units)		45.14		
Obra B (1000 MW)	51.47	51.75	80.00	80.00
Harduaganj (275 MW)	22.97 34.70*	30.80	45.00	50.00
Harduaganj (215 MW) (Excluding R&M/Refurbishment Units)		39.40		
Parichha (220 MW)	59.61	36.07	65.00	70.00
Panki (210 MW)	51.18	48.27	65.00	70.00

*Harduaganj unit 1 & 6 deleted on February 08, 2007
(availability calculated for 52 days w.e.f. February 08, 2007)

II. Auxiliary Consumption

Plants	Actual Aux Cons (%)			Target Aux Cons Approved as per T.O (%)	
	FY 06-07	Upto 07	Nov.	FY 06-07	FY 07-08
Anpara A	10.14	10.31		8.00	8.00
Anpara B	7.64	7.79		7.00	7.00
Obra A	13.22	15.18		11.00	10.00
Obra B	11.56	12.25		9.00	8.50
Harduaganj	14.41	15.80		11.5	11.00
Panki	13.47	13.76		11.00	10.00
Parichha	16.38	18.89		11.00	11.00

III. Gross Station Heat Rate.

Plants	Actual GSHR			Approved by Commission 07-08	
	FY 06-07	Upto 07	Nov.	FY 06-07	FY 07-08
Obra A	2985	3083		2850	2850
Obra B	3314	3081		2650	2550
Harduaganj	3650	4069		3350	3300
Panki	3574	3597		3000	2950
Parichha (2X110 MW)	3886	3378		3250	3100




14. Mr. Ramachandran further contended that despite the fact that the specific generating stations of the appellant mentioned above are old with smaller and varying capacity of 32 MW, 50 MW, 55 MW, 60 MW, 100 MW, 110 MW and 200 MW requiring extensive R&M, the Commission has proceeded to fix norms in regard to the Target Availability Auxiliary Consumption and Gross Heat Rate at a level higher than the achievable level. The Commission has not applied the relevant principles in deciding such norms applicable to old stations.

15. He stated that in the order dated March 26, 2007 the Commission has itself recognized its power of granting relaxation of norms (Regulation 13 of the UPERC Tariff Regulations). The Commission by notification dated March 19, 2008 has amended its earlier Tariff Regulations and has granted substantial relief on the issues of target availability, auxiliary consumption, gross station heat rate with effect from April 01, 2008. However, the Commission has denied to the

56

appellant such relief for the previous periods namely 2006-07 and 2007-08.

16. He submitted that the norms for operation of old generating stations such as Obra A, Obra B; Harduaganj, Pankhi and Parichha pending R&M be directed to be considered and determined in a pragmatic manner keeping in view the following aspects:

- (a) The normal life of the Thermal Power Station recognized by the Government of India in the notification dated March 26, 1994 issued in exercise of the powers under Section 43A of the Electricity (Supply) Act, 1948 (since repealed) is 25 years;
- (b) The old stations should normally be abandoned after the above life period and new plant established in its place;
- (c) The old plants cannot have the same operating parameters as compared to new plants;
- (d) The plants of smaller size such as 32 MW, 50 MW, 55 MW, 60 MW, 100 MW, 110 MW etc. cannot be

equated with plants of size of 210 MW and above in regard to operating parameters;

(e) The Central Electricity Authority (CEA) had recognized the above position and had proposed progressive improvement based on R&M work to be carried;

(f) The old plants have low fixed charges and per unit charges is competitive compared with new plants and this is great advantage;

17. Mr. Ramachandran contended that in the circumstances the operating parameters such as PLF, auxiliary consumption and Gross Heat rate should be fixed based on actual instead of going on assumption and surmises of inefficiency in the operation of the appellant unless there is a specific fact shown in support of such conclusion of inefficient operation.

18. Learned counsel has drawn our attention to the following documents in support of his contentions:

(a) Extracts of the Central Electricity Authority Report on Technical Standards on Operational norms of coal/lignite fired thermal power station

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58

- (b) Extracts of the CERC (Terms and Conditions of Tariff) Regulations, 2004 making exceptions for Talcher TPS and Tanda TPS
- (c) Order dated January 10, 2008 passed by this Tribunal in appeal No. 81 of 2007, IPGCL v/s DERC & Ors
- (d) GSECL v. GERC & Ors, 2007 APTEL 1066
- (e) Extracts of the orders dated June 19, 2002, March 23, 2002 and August 20, 2007 passed by the CERC fixing relaxed norms of operation for tariff determination of Talcher TPS.

19. Learned counsel submitted that in view of his contentions the appeal be allowed and the impugned order dated October 10, 2007 be set aside on the issues mentioned above. The appellant may be granted relief in regard to the exclusion of units under R&M for deciding on the capacity on which the fixed charges are recoverable and also direct the Commission to reconsider the norms for the appellant's generating stations mentioned above taking into account the relevant factors such as actuals, CEA report, the decisions of

the Tribunal and Central Commission and absence of any fact establishing inefficient operation on the part of the appellant.

Analysis and decision

20. The appellant has cited the Technical Standard on "Operation Norms for Coal and Lignite Fire Stations" prepared by Central Electricity Authority (CEA) in December, 2004. It is relevant for this appeal to reproduce below para 11 of the Technical Standard which gives operation norms for smaller capacity units:

" 11. Finalized Operation Norms

Based on the analysis, the following norms are recommended for coal/lignite fired thermal power stations for thermal power stations.

11.2 Smaller Capacity Units- Less than 200 MW (Coal Based).

I. HEAT Rate

In view of the foregoing discussions at para 9.4, it is proposed that average existing heat rate may be adopted as normative heat rate for these units for some time. However, the fact is that the performance of most of the smaller units is extremely poor for various reasons

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60

attributable to basic design deficiencies, lack of appropriate R&M ageing, coal quality determination etc. The average variation in GHR at present is up to 60% from design heat rates. A certain time frame may thus have to be allowed to these units to attain the performance level of 110% of guaranteed heat rate. It is therefore proposed to allow a time frame of 5 years to these stations with targets for specific improvement each year so as to attain normative heat rate of 110% of design heat rate within 5 years, the following norms of heat rate are recommended for old smaller size units of various sizes from 30 MW to 200 MW:

(a) Old units (existing)

Normative Heat Rate = 10% above the design heat rate of the units

(b) New Units

The normative heat rate shall be 5% above the design heat rates.

Notes:

1) The normative heat rate shall be applicable for a station PLF of 80%.

** The station PLF for the month shall be computed based on operating units only. Units under planned*

maintenance or long shut down (exceeding 1 day) shall not be considered for station PLF

2) Additional heat rate of 2.5 kcal/kWh shall be allowed for each 1% reduction in station PLF

(3) Existing Unit- means a generating unit declared under commercial operation from a date prior to April 01, 2004.

4) New Unit- means a generating unit declared under commercial operation from a date after April 01, 2004.

5) The design heat rate to be considered shall be the guaranteed heat rate at 100% name plate rating of the unit, 0% make up, design ambient conditions.

6) Lower of the guaranteed value of heat rate or actual obtained during PG test shall be considered.

7) Stations which are presently operating at much higher heat rates than the proposed normative heat rate may be allowed a time frame of 5 years for implementing renovation and modernization schemes to achieve the normative heat rates. A target for progressive reduction of heat rates may be set for these stations, which may be monitored by the respective regulatory commission or CEA.

62

8) *The recommendations made above for smaller unit however would need to be considered with due consideration to the expenditure involved in R&M of these units and even the feasibility of implementing R&M of these units.*

9) *Most of these units being very old, have very low fixed cost component and thus the average cost of generation from these units is very low, despite their higher variable charges on account of low operation efficiencies. Thus, the State Regulatory Commissions may consider dispatch of these units based on the total cost of generation or work out some other special provisions to keep these units in operation. Considering the variable charges alone for merit order dispatch of the units as being proposed would prevent large number of such units from being dispatched despite their lower overall generation costs.*

II) AUXILIARY POWER CONSUMPTION

The average auxiliary power consumption for units in 100-200 MW range and for less than 100 MW units are 12.01% and 11.29% respectively. Large variations up to 15% are reported from various power stations and most of the units are very old. The

norms recommended for auxiliary power for these units are:

- 1 11.5% with open cycle CW system*
- 2 12.0% with cooling towers.*

However, it is proposed that more exhaustive data with detailed breakup would need to be obtained for working out the Auxiliary Power consumption norms in future.

III) SECONDARY FUEL CONSUMPTION

The average Secondary Fuel Consumption (SFC) for category B units (100 to 200 MW) is 7.47 ml/kWh. However, this includes certain units with exceedingly high SFC of 8 to 19 ml/kWh which is rather abnormal. Thus excluding such abnormally high SFC the average SFC for this category works out to 3.9 ml/kWh. For category A (100 MW); the average SFC considering all units is 6.96 ml/kWh. However, after excluding abnormally high SFC data the average works out to 3.2 ml/kWh. Also the above values of SFC are at a comparatively lower PLF of about 55 to 65% and accordingly the SFC at higher PLF expected to be lower. Further, with improved performance after R&M activities, the SFC shall get reduced substantially. The recommended norms for SFC for units of less than 200 MW are:



64

<i>PLF</i>	<i>SFC</i>
<i>PLF up to 80% and above</i>	<i>2 (two) ml/kWh for each unit KWh generated.</i>
<i>PLF below 60%</i>	<i>2.5 (two and half) kWh for each unit KWh generated</i>
<i>PLF between 80% and 60%</i>	<i>On prorata basis with PLF</i>

It is also seen that number of stations are operating at specific fuel consumption significantly higher than the proposed normative heat rates. These stations may be asked to submit the reasons for such abnormally SFC to the respective Regulatory Commissions & CEA. Based on the above, a target for reduction of SFC over a period of 3-5 years could be assigned to the stations.

21. The aforesaid recommendation of CEA recognize that the smaller old units which are still under operation are operating at much higher heat rates, Auxiliary Power and Secondary Fuel Consumption levels and that these units require Renovation and Modernization. In the interregnum relaxed operating norms can be set for these before carrying out R&M for such low performing units. A period of 3-5 years had been indicated by CEA and it was expected that the utilities would

have meticulously planned R&M and by this time would have progressed well on execution front.

22. It is also noticed that CERC in their order dated June 19, 2002 in the petition No. 62 of 2000 had allowed relaxed operational norms in case of Talchar Thermal Power Station comprising of four units of 60 MW and two units of 110 MW.

23. This Tribunal in its judgment in appeal No. 129 of 2006 dated November 23, 2006 has also recognized that relaxation in norms needs to be allowed in case of smaller old units. A similar dispensation was also allowed by this Tribunal in appeal No. 81 of 2007 vide its judgment dated January 10, 2008 in the case of Indraprastha Power Generation Co. which also has smaller units of 4X62.5 MW in IP Station, 2X67.5 MW in Rajghat Power House and six Gas Turbines of 30 MW rating and with Waste Heat Recovery Boiler and Steam Turbine.

24. The appellant has indeed been saddled with the operation of many power plants which have been in operation

for more than 30 years. It is also a fact that normally operational life of thermal power plants is of the order of 25 years. However, by carrying out proper Residual Life Assessment (RLA) studies and Renovation and Modernization (R&M) as and when required, the life of these plants can be extended by 10-15 years. It is of no use running plants with lower availability and operational efficiencies. Such plants need immediate Renovation and Modernization if these have to remain in operation. Need for proper R&M has been rightly recognized by CEA and CERC who have, fixed lower operational norms for old plants of lower ratings. This Tribunal has also passed order dated January 10, 2008 in appeal No. 81 of 2007, IPGCL v/s DERC & Ors and GSECL v/s GERC & Ors, 2007 APTEL 1066 to allow lower operational parameters for older plants.

25. In view of the foregoing discussion and analysis we direct that the Commission redetermines various parameters for the year 2006-07 and 2007-08 as prayed for by the appellant.

26. In conclusion we allow the appeal but with no order as to costs. The Commission is directed to: i) delete the last sentence of para 8 of its order and ii) redetermine various operational parameters for the year 2006-07 and 2007-08 as prayed for by the appellant.

27. Before parting we direct that the appellant immediately undertakes studies such as RLA (Residual Life Assessment) and plans for Renovation and Modernization of older plants without further delay. A report to this effect and plan for Renovation and Modernization for all old power plants be submitted to the Commission as well as to this Tribunal in the next six months i.e. by September 01, 2009. Higher operational parameters may be determined by the Commission after R&M works are completed.

(H.L. Bajaj)
Technical Member

(Mrs. Justice Manju Goel)
Judicial Member



**Before the Appellate Tribunal for Electricity
(Appellate Jurisdiction)**

Appeal No. 223 of 2006

Dated the October 4, 2007.

**Present: - Hon'ble Mr. Justice Anil Dev Singh, Chairperson
Hon'ble Mr. H.L. Bajaj, Technical Member**

**M.P. Electricity Consumers' Society
C/o AIMO (MPSEB), Industrial Estate
Pologround, Indore-452015**

-Appellant

Versus

**1 to 3. Madhya Pradesh Poorva/Madhya/
Paschim Kshetra Vidyut Vitaran Companies
Ltd. Jabalpur
Bhopal, Indore**

**4. Madhya Pradesh Electricity Regulatory
Commission, Urja Bhawan
Shivaji Nagar, Bhopal**

**5. Govt. of Madhya Pradesh
through Principal Secretary
Energy Department, Vallabh Bhawan
Bhopal**

-Respondents

**Counsel for Appellant :Ms Sampada Narang, Advocate
Mr. Ajay Porwal (Elec.Consultant)**

**Counsel for Respondents :Mr. Rohit Singh, Advocate for
Resp.Nos. 1,3,4&5**



Mr. Sakesh Kumar, Advocate for
MPERC
Mr. Ahok Sharma, Secretary (MPERC)
Ms Manisha for MPMKVVCL
Mr. Rajesh Chaurasia

Judgment

Per Hon'ble Mr. H.L. Bajaj, Technical Member

This appeal has been preferred by Madhya Pradesh Electricity Consumer Society against the Tariff Order dated March 31, 2006 issued by Madhya Pradesh Electricity Regulatory Commission (MPERC or Commission in short) whereby retail supply tariff for the Financial Year 2006-07 has been determined.

2. Aggrieved by the impugned order, the appellant has sought the following relief:

- (i) The amount earned by the distribution companies on account of delayed payment surcharge be considered as part of revenue and tariffs reviewed.
- (ii) The Agriculture tariff be re-determined taking into account the cost of supply and taking into consideration the subsidy from state Government. The additional revenue available be redistributed amongst other consumers as tariff relief.

70

- (iii) The billing demand definition be reintroduced in the tariff order.
- (iv) The power factor rebate be restored to the extent of 7.5% and be made applicable both on fixed cost and energy cost.
- (v) The minimum charge based on load factor be abolished.

3. As the appellant has raised several issues in its appeal, we proceed to deal with each issue one by one.

Revenue from surcharge levied on delayed payment:

4. Learned counsel for the appellant stated that whereas MPERC vide its orders dated September, 2001, November 30, 2002 and December 10, 2005 had considered revenue receipt from surcharge on delayed payments as miscellaneous revenue, in the tariff petition filed by MPSEB on March 21, 2005 revenue accrued from delayed payment surcharge was not considered as available by giving reference to tariff Regulations framed by the Commission. She submitted that several consumers had raised objections to this revenue not being considered in the Annual Revenue Requirement (ARR) but, the revenue and expenditure were not elaborated in the tariff order of MPERC issued on June 29, 2005 and, therefore, the issue remained unclarified. She

stated that once again this point was raised during the hearing on retail supply tariff for the FY 2006-07 to which MPERC has recorded as issue No. 4 under heading A3- Public Objections and Comments on the licensees petition as under:

"Issue No. 4 Delayed Payment Surcharge

Issue raised by stakeholders

3.15 Some of the respondents made strong objections against not including huge amount of revenue collected through delayed payment surcharge from the consumers. They have contended that during last few tariffs, the revenue income from this surcharge has increased considerably. They made request to devise a way through which the revenue is accounted for.

Response from Discoms.

3.16 The Commission has opined that delayed payment surcharge received by the company is not source of income. Hence it is not included in the income of the company.

Commission's views

3.17 The Commission has considered that the entire revenue billed shall be collected by the Company. Delayed payment surcharges are on account of delayed payment // non payment of dues by the consumers. Since the Commission has considered that the company shall collect its dues in a timely manner, the Commission has not taken delayed payment charges for the purpose of tariff determination. The Commission will not be allowing interest / penal interest on overdue

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72

principal repayment while calculating ARR as the licensees are expected to collect 100% of billed amount. This is also in line with Multi Year tariff principle as it will be very difficult to determine the interest / penal interest on overdue payments and also estimate the surcharge income when the licensees are expected to file petitions for the control period”.

5. Learned counsel for the appellant contended that the view of the Commission cannot be accepted as the Commission has erred in respect of the following:-

- a) *The view of the Commission that the entire revenue billed shall be collected, has always been the principle in estimating ARR. If revenue was not collected, it was carried forward as receivables. There is also a provision for bad and doubtful debts through which the uncollected revenue is waived of and shown as expenditure.*
- b) *The Commission in working out the ARR have allowed the licensees as working capital. In the working capital estimates two months receivables are allowed as working capital. Thus the Commission has already accepted the view that the dues can get delayed by a period of two months. The Commission's views “the company shall collect its dues in a timely manner” are contradictory to the provision which allowed working capital.*
- c) *The Commission has expressed the view that the Commission will not be allowing interest/penal interest on overdue principal repayment while calculating ARR” is incorrect as any expenditure*

74

73

legitimately incurred has to be allowed. However, such default because of non collection of revenue is a remote possibility as unlike in earlier years, working capital is available with the licensee to make such payments. If at all any such payments arising out of default are likely to be meager and do not get offset against delayed payment surcharge. The Commission, therefore, have hesitated to workout the estimated amounts.

- d) *The Commission has also expressed the view that "This is also in line with multi year tariff principle as it will be very difficult to determine the interest/penal interest on overdue payments and also estimate the surcharge income when the licensee are expected to file petition for control period". The multi year tariff principle has been specified in "Tariff Policy" dated January 06, 2006 by Ministry of Power. In 5.3(b) sub para 4 the following is stated:*

"4) Uncontrollable costs should be recovered speedily to ensure that future consumers are not burdened with past costs. Uncontrollable costs will include (but not limited to) fuel cost, costs on account of inflation, taxes and cess, variations in power purchase unit costs including on account of hydro thermal mix in case of adverse natural events"

It will thus be seen that mid term corrections in tariff is available and thus there will hardly be occasions when interest/penal interest will arise.

Against this the estimating of delayed payment surcharge is not difficult and is a regular income and has a ratio to total revenue bills. Such estimates have earlier been made when the Electricity

74

74

Boards projected their revenue for Five Year Plans and for Finance Commission.

- e) *Thus the view of the Commission that the revenue cannot be estimated or the revenue gets offset against other elements is not supported by facts.*

6. She contended that the Commission has erred in not directing the respondent Discoms to account for the amount of Rs. 300 crores per year collected on account of levy of delayed payment surcharge and that the Commission ought to have considered this amount while conducting the exercise of truing up while determining the tariff for the respondent Discoms. She stated that though the tariff policy advocates the multi-year tariff principle, it does not restrain the Commission from giving appropriate directions to the Discoms to account for such huge sum of monies collected. Moreover, she said, the multi-year tariff principle is made applicable from the date of the impugned order, however, the Commission has done precious little in this behalf to utilize such amounts in the hands of the Discoms for the benefit of the industry.

3

7. Per contra, learned counsel appearing for the Commission contended that it is not true that the 10th December, 2004 order considered revenue received from surcharge on delayed payment

as miscellaneous revenue. In fact, in para 6.197 of the order, the Commission had stated as under:

"Delayed payment surcharges are on account of delayed payment/non-payment of dues by consumers. Since, the Commission had considered that the licensee shall collect its dues in a timely manner, the Commission has not taken the delayed payment charges for the purpose of tariff determination"

8. He further stated that again in paragraph 6.199 of the order, in the approved figures of the non-tariff income given in the Table No. 136, the delayed payment charges have been shown as Rs. 0 against Rs. 274.16 crores as proposed by the MPSEB and that it is also not true that in the tariff petition, reference was given to tariff regulations framed by the Commission. In paragraph 5.13 the petitioner had stated as under:-

"In the tariff order dated December 10, 2004, the Commission has not considered providing for any bad debts (receivable) on normative basis. At the same time, non-tariff income by way of surcharge was also not considered. Accordingly, the Board has also followed the same approach and have not considered any normative provisions towards bad debts and have excluded delayed payment surcharge for computation of non-tariff income as elaborated below".

9. Learned counsel for the Commission stated that it is not true that several consumers raised objection to this revenue not being considered and that In its tariff order dated June 26, 2005 under paragraph 16, the Commission had given the gist of the comments/objections/suggestions received during the hearing and there was only a mention of delayed payment charge of Rs.10 be reduced. He contended that the issue regarding: non-elaboration of revenue and expenditure in tariff order dated June 29, 2005 and therefore the point remained un-clarified, is not relevant in this appeal as this appeal pertains to the tariff order dated March 31, 2006. However, the reason for not elaborating the revenue and expenditure had been provided by the Commission in paragraphs 21 to 42 of the order dated June 29, 2005 and in paragraph 43 the Commission had stated as under:-

" The licensees and generating company are directed to file their separate tariff petitions before 31st July and if they are not in a position to file the tariff petitions for FY 2006 by the above date on account of the opening balance sheets not becoming final, the Commission would consider treating the difference between the revenue and expenditure (which will be subject to prudence check) as regulatory asset. The regulatory asset will be adjusted during the tariff period when the Commission introduces multi year tariff for the generating company and the licensees from the Financial Year, 2007".

10. Learned counsel for the Commission stated that as per the clause 2.27 of the Regulations notified on December 23, 2005

(G-27 of 2005), the provision for bad and doubtful debts shall be allowed to the extent the distribution licensee has identified/actually written off bad debts subject to a maximum of 1% of sales revenue and according to a transparent policy approved by the Commission. He stated that hence it is not true that licensee can write off whatever they consider as bad or doubtful and the Commission had not allowed the provision for bad and doubtful debts projected by the MPSEB in the previous petitions. He further stated that it is not true that the expression, "company shall collect its dues in a timely manner" is contradictory to allowance of two months receivables in the working capital. He contended that supply by a licensee is made for a whole month and then bills are issued after the meter readings are taken. 15 days time is given to the consumers for making payment of the bills and thus it is almost two months before the payment can be received by the licensee after supplies have started and that the collections of the last two months of the previous year will be collected during first two months of the current year and thus the collections are for a period of 12 months in a year and hence it is not contradictory to the expression that the company shall collect its dues in a timely manner. He stated that the Regulations also provide that the consumer security deposit of 45 days consumption is to be deducted from the two months receivables for arriving at the amount of working capital. He further stated that one month power purchase cost will also be deducted from the two months



receivables. Clause 3.31 (a) of the Regulations notified on December 23, 2005(G-27 of 2005) pertinent to this issue is reproduced below:-

" 3.31 (a) Working capital for supply of electricity shall consists of:

(1) Receivables of two months of billing less any consumer security and less power purchase cost of one month".

11. Learned counsel for the Commission contended that it is not incorrect to say that overdue interest and penal interest are not legitimate expenditure even though these have been incurred legitimately as per loan agreements. He asserted that the appellant is also wrong in assuming that such default because of non collection of revenue is a remote possibility as unlike in earlier years, working capital is available with the licensee to make such payments. He contended that as per the Regulations notified on December 23, 2005, the licensee will be having only a much lesser amount of working capital after deduction of the consumer security deposit and one month energy procurement cost from the two months' receivables. He stated that the licensee will be getting only the interest cost on such reduced amount in their annual revenue requirement and in case the licensee is not in a position to collect the billed amount, as is happening in the last few years (the collection is only around 80 to 82% of the billing), there is bound to be default by the Discoms in payment of interest and principal installments due. He stated that MPSEB,

79

in the past, had been claiming huge amounts as penal interest and overdue interest and the Commission had not allowed the same.

12. Learned counsel for the Commission contended that the appellant is wrongly quoting the provisions contained in the National Tariff Policy issued by the Government of India on January 6, 2006. Sub para 4 of Clause 5.3 (b) of the policy talks only about uncontrollable costs. He emphasized that the Commission does not consider poor collection by the licensee is uncontrollable but it expects the licensee to collect 100% of the billing in view of various provisions available in The Electricity Act, 2003. He said that while calculating tariff under multi-year principles, the loans are expected to be paid back as per the loan agreements along with the interest and the interest liability is calculated for the period on the remaining amounts only every year and that this is the principle being followed by the Central Electricity Regulatory Commission also. He contended that in view of the fact that the licensee is collecting only 80 to 82% of the billed amount, there is bound to be increase in receivables (Arrears on account of current demand) and defaults can occur in payment of interest and principal installments due and that the default will result in payment of overdue/penal interest by Discoms and will also increase the interest cost in the following year and that this situation requires to be avoided while calculating tariff in a multi year frame work and that in view of



this it is justified that surcharge on delayed payments is not considered in the ARR.

Analysis and Decision:

13. On a consideration of contentions of all parties, we are inclined to agree with the decision of the Commission to not include delayed surcharge revenue in the ARR in view of the fact that the working capital amount has been reduced to the bare minimum, 100% collection is not happening as of now, and therefore, to meet its cash requirements, the Discoms will have to borrow from Banks to compensate for the outstanding payments from consumers.

Revenue from Agriculture and subsidy from State Government.

14. Learned counsel for the appellant contended that in fixing the tariff for Agriculture, the Commission has not followed the provisions of law and has helped the State Government in reducing the burden of subsidy. She stated that in effect the reduction in subsidy has been passed on to other consumers of electricity which is not equitable. She submitted that the State Government is in a position to pay higher subsidy as the revenue of electricity duty and cess are increasing every year and that additional revenue to the extent of Rs. 250 crores per year will be

81