

Punjab State Power Corporation Ltd.

Aggregate Revenue Requirement & Tariff Petition

For FY 2012-13

Reply to PSERC: ARR Petition Deficiencies

Submitted to

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

Submitted by:

PUNJAB STATE POWER CORPORATION LIMITED

The Mall, Patiala – 147001

January 2012

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A. TECHNICAL**Query of the Hon'ble Commission****1 Metered energy sales**

- (i) *Category-wise half yearly sales for the year FY 2007-08 to FY 2010-11 and 1st half of 2011-12 may be supplied*

Reply:

The details of category wise half yearly sales is provided below in Table 1 for the period FY 2007-08 to FY 2010-11 & for 1st half of FY 2011-12.

Table 1: Category-wise Metered Energy Sales (MUs)

Sl.	Category	FY 2007-08		FY 2008-09		FY 2009-10		FY 2010-11		FY 2011-12
		H1	H2	H1	H2	H1	H2	H1	H2	H1
1.	Domestic	3382	3109	3335	3360	3671	3640	4213	3963	4657
2.	Commercial (NRS)	964	955	998	969	1078	1069	1247	1221	1405
3.	Industrial									
(a)	Small Supply	370	368	362	381	377	398	406	434	442
(b)	Medium Supply	756	823	732	824	777	842	860	908	910
(c)	Large Supply	4266	4467	4329	4418	4158	4637	4572	3950	4129
(d)	Total	5392	5658	5423	5623	5312	5877	5839	5292	5481
4.	Street Lighting	65	75	66	81	62	75	57	74	59
5.	Bulk Supply	245	256	236	244	244	255	258	282	276
6.	Railway Traction	53	60	57	69	73	75	77	67	68
7.	Total Metered Sales (except AP) within State (total 1 to 6)	10101	10113	10115	10346	10440	10991	11690	10900	11946

Query of the Hon'ble Commission

- (ii) *The Break-up of actual energy sales and revenue for LT & HT bulk supply category for FY 2010-11 in Table-34 and projection for FY 2011-12 and FY 2012-13 may be supplied*

Reply:

The breakup of energy sales in Bulk and Grid HT and Bulk LT categories and the corresponding revenue is as under:

Table 2: Breakup of sales and revenue in Bulk HT and Bulk LT categories

Category	Energy Sale (MU)			Revenue (Rs. Crores)		
	2010-11 (Actual)	2011-12 (RE)	2012-13 (Projected)	2010-11 (Actual)	2011-12 (RE)	2012-13 (Projected)
HT	505.61	526.48	539.56	221.99	266.40	273.02
LT	33.92	35.22	36.19	14.89	17.82	18.31
Total	539.53	561.70	575.75	236.88	284.22	291.33

Query of the Hon'ble Commission

- (iii) *Details of outside state sales for FY 2010-11 and 1st half of FY 2011-12 may be supplied*

Reply:

The details of outside state sales for FY 2010-11 and 1st half of FY 2011-12 sales are as under:

Table 3: Details of outside state sales (MUs)

Sale of power FY 2010-11		
S. No	Particulars	Units (MUs)
1	HPSEB (Shanan Royalty)	52.93
2	Tata power trading co. Ltd	129.45
3	Knowledge Infrastructures	180.01
4	RSDP	75.53
	Total	437.93
Sale of power FY 2011-12 (H1)		
1	HPSEB (Shanan Royalty)	36.47
2	NETS	243.61
3	RSDP	52.73
	Total	332.81

Query of the Hon'ble Commission

- (iv) *Projection of energy sales to LS category consumers during 2nd half of FY 2011-12 and for FY 2012-13 may be reviewed in view of reduction in purchase of energy through open access by these consumers*

Reply:

PSPCL humbly submits that the data already furnished to the Hon'ble Commission does not need any review.

Query of the Hon'ble Commission

- (v) *The Annual statement of Accounts for metered and outside state sales for the period 16.04.2010 to 31.03.2011 may be supplied*

Reply:

The details of metered and outside state sales for the period 16.04.2010 to 31.03.2011 are as under:

Table 4: Sales for different categories from 16.04.2010 to 31.03.2011

Category	Sales in MU from 16.04.2010 to 31.03.2011
Domestic	7924.6
NRS	2374.2
Small power	804.2
Medium Supply	1682.4
Large Supply	8054.1
Public lighting	119.2
Bulk and Grid supply	518.5
Railway traction	137.7
Total metered	21614.8
Agriculture pump-sets	9944.0
Grand total	31558.8
Sale outside state*	727.9

*Including sale to common pool consumers

Query of the Hon'ble Commission

2 Agriculture Consumption

- (i) *The half yearly AP consumption of FY 2007-08 to FY 2010-11 and 1st half of 2011-12 may be supplied*

Reply:

The details of half yearly AP consumption are as under:

Table 5: Half yearly details of AP Consumption (MUs)

Sl.	Category	FY 2007-08		FY 2008-09		FY 2009-10		FY 2010-11		FY 2011-12
		H1	H2	H1	H2	H1	H2	H1	H2	H1
1.	AP Consumption	6281	3749	5726	3623	6548	3957	6605	3545	6630

Query of the Hon'ble Commission

- (ii) *In Para 2.3.6 of the petition, it is stated that PSPCL has started "a pilot project by installing 50 Nos. meter with inbuilt modem for remote metering of AP connection in one of its distribution circles". The data regarding recorded consumption, number of connection and connected load of these meters may be supplied*

Reply:

PSPCL submits that the firm M/s A2Z Maintenance & Engineering Service Ltd., which is carrying out the pilot project of installing the 50 Nos. meters have already installed 10 Nos. meters at Mauli Feeder (DS Circle, Mohali) and are receiving the metering data. Installation of the balance 40 Nos. meter is expected by 10th January, 2012. After, completion of the work, PSPCL will furnish the details.

Query of the Hon'ble Commission

- (iii) *A comparative statement of AP consumption as recorded in the AMR feeders data vis-à-vis the consumption recorded in the sample meter data of about 100 feeders out of 3239 AP feeders, wherein AMR are provided (para 2.3.11 of petition) may be supplied*

Reply:

The comparative statement as required by the Commission is attached as Annexure-A.

Query of the Hon'ble Commission

- (iv) *AP consumption arrived at kWh/HP/Annum based on sample metering in each area may be supplied*

Reply:

PSPCL submits that the consumption of AP connections for the period FY 2010-11 & FY 2011-12 (Upto October, 2011) is calculated on the basis of division wise AP factor (Kwh/HP/Month) and AP load in that division. The division wise AP factor is calculated on the basis of consumption of AP sample meters. The division wise AP load is multiplied with AP factor to assess the AP consumption. The whole PSPCL consumption is worked out adding these divisional consumption. The circle-wise AP consumption data is provided below:

Sr. No.	Name Of Circle	Total Flat Rate AP Cons. 4/2010 To 3/2011 (Kwh)	Load In Kw	Load In Hp	Kwh/HP/Annum
1	Patiala	956048680	819105	1097996	870.721
2	Sangrur	1558160741	1394857	1869782	833.338
3	Mohali	153480862	94014	126024	1217.869
4	Ropar	340462063	220417	295465	1152.292
South Zone Total		3008152343	2528393	3389267	887.553
5	Ludhiana (S/U)	498674403	398233	533824	934.154
6	Ludhiana (East)	12706660	14063	18851	674.050
7	Ludhiana (West)	21469386	19805	26548	808.693
8	Khanna	399743808	363102	486732	821.281
Central Zone Total		932594256	795203	1065956	874.890
9	Jalandhar	214062365	143514	192378	1112.717
10	Kapurthala	605816915	468832	628461	963.969
11	Hoshiarpur	532633944	235375	315516	1688.136
12	Nawa Shahr	309691141	219113	293717	1054.386
North Zone Total		1453004363	1066834	1430072	1016.036
13	Bathinda	597148927	587611	787682	758.109

14	Mukatsar	370374426	325391	436181	849.130
15	Faridkot	946610065	666530	893472	1059.474
16	Ferozepur	615133933	489132	655673	938.172
West Zone Total		2529267350	2068664	2773008	912.102
17	Amritsar (S/U)	713754903	392495	526133	1356.606
18	Tarn-Taran	792950311	512937	687583	1153.243
19	Gurdaspur	527659313	281979	377988	1395.969
Border Zone Total		2034364527	1187411	1591704	1278.105
All Zone Total		9957382839	7646505	10250007	971.4513

S.NO	NAME OF CIRCLE	CONSUMPTION 4/2011 TO 10/2011			
		CONSUMPTION	LOAD IN KW	LOAD IN HP	KWH/HP/ANNUM
1	Patiala	744307645	832124	1115448	667.273
2	Sangrur	1247084699	1417977	1900773	656.093
3	Mohali	93591008	96765	129712	721.530
4	Ropar	252145222	224401	300806	838.233
South Zone Total		2337128574	2571267	3446739	678.070
5	Ludhiana (S/U)	387424845	409001	548259	706.646
6	Ludhiana (East)	6830275	14100	18901	361.375
7	Ludhiana (West)	9587660	19989	26795	357.817
8	Khanna	319455395	369298	495038	645.316
Central Zone Total		723298175	812388	1088992	664.191
9	Jalandar	149464900	147893	198248	753.929
10	Kapurthala	474121705	480195	643693	736.565
11	Hushiarpur	239808019	242118	324555	738.883
12	Nawanshahr	232198448	222927	298830	777.026
North Zone Total		1095593072	1093133	1465326	747.679
13	Bathinda	465268904	599460	803566	579.005
14	Mukatsar	266691651	337078	451847	590.225
15	Faridkot	681195274	700485	938988	725.457
16	Ferozepur	398097138	489032	655539	607.282
West Zone Total		1811252967	2126055	2849940	635.541
17	Amritsar (S/U)	532214089	394266	528507	1007.015
18	Tarntaran	551669312	528544	708504	778.640
19	Gurdaspur	377060217	292893	392618	960.374
Border Zone Total		1460985072	1215703	1629629	896.514
ALL ZONE TOTAL		7428257860	7818546	10480626	708.761

Query of the Hon'ble Commission

- (v) *The annual statement of accounts for agricultural consumption for the period 16.04.2010 to 31.03.2011 may be supplied*

Reply:

The data for agriculture sales in the stated period has already been provided in Table-4 above.

Query of the Hon'ble Commission**3 Thermal generation & fuel cost**

- (i) *The actual generation and availability for GHTP stage-I (unit-I & II) for the years FY 2009-10 and FY 2010-11 may be supplied*

Reply:

The details of actual generation and availability for GHTP stage-I (Unit-1 & 2) for FY 2009-10 and FY 2010-11 are as under:

Table 6: Generation and availability details for GHTP stage-I (Unit-1 & 2)

Year	Generation (MUs)	Plant Availability (%)
2009-10	3507.269	94.52
2010-11	3196.125	90.35

- (ii) *The actual generation and availability for GHTP stage-II (unit-III & IV) for the years FY 2008-09, FY 2009-10 and FY 2010-11 may be supplied*

Reply:

The details of actual generation and availability for GHTP stage-II (Unit-3 & 4) for FY 2008-09, FY2009-10 and FY 2010-11 are as under:

Table 7: Generation and availability details for GHTP stage-II (Unit-3 & 4)

Year	Generation (MUs)	Plant Availability (%)
2008-09	910.209	92.17
2009-10	2534.993	98.28
2010-11	3636.962	86.22

PSPCL further intimates that GHTP Unit-3 and Unit-4 has been declared as commercial w.e.f. 16.10.2008 and 25.01.2010 respectively. The above generation and plant availability have been calculated for the commercial period i.e. after their CODs. However, GHTP Stage-II (Unit-3 & 4) has generated the following infirm energy prior to their declaration as commercial:

Table 8: Generation details for GHTP stage-II (Unit-3 & 4) prior to their declaration as commercial

Year	Generation (MUs)
2008-09	1168.171
2009-10	1472.896

Query of the Hon'ble Commission

- (iii) *The Actual PLF of different thermal station for the years FY 2009-10, FY 2010-11 and projection for FY 2011-12 and FY 2012-13 may be supplied*

Reply:

The details of Actual PLF of GNDTP, GGSSTP and GHTP thermal station for the years FY 2009-10, FY 2010-11 and projection for FY 2011-12 and FY 2012-13 are as under:

Table 9: Details of PLF of GNDTP, GGSSTP and GHTP thermal stations

S. No	Station	FY 2009-10 (Actual)	FY 2010-11 (Actual)	FY 2011-12 (Projected)	FY 2012-13 (Projected)
1	GNDTP	70.66%	46.06%	48.65%	71.22%
2	GGSSTP	91.11 %	88.04 %	84.03 %	84.26 %
3	GHTP*	96.44%	84.79%	87.16%	86.72%

*GHTP Unit-3 and Unit-4 has been declared as commercial w.e.f. 16.10.2008 and 25.01.2010 respectively. As such the above data pertains to the periods after COD of Unit-3 and Unit-4.

Query of the Hon'ble Commission

- (iv) *Clarify as to how transit loss of coal for FY 2010-11 for GNDTP station is negative (-0.15%)*

Reply:

The transit loss is negative on account of coal weighted at plant end being more than colliery end. This trend of negative shortage is being observed generally in the supplies from the collieries like Dhori, Tarmi, Jarangidh etc of CCL (i.e. CIL). As during 2010-11, coal received at GNDTP is mainly from these collieries of CIL, the shortage is negative. Further, during the rainy season, addition of water in the coal (coal being transported in open wagons) also leads to plant end weight being more than colliery end weight.

Query of the Hon'ble Commission

- (v) *The fuel cost calculation as per actual for each thermal station similar to the Table-41 in which details for arriving at the fuel cost for FY 2012-13 are given, may be supplied for the year FY 2010-11*

Reply:

The details of fuel cost calculation have already been provided in the Format-2 of petition on page number 117 to 119.

Query of the Hon'ble Commission

- (vi) *The actual weighted average calorific value of coal and oil for FY 2010-11 and for the 1st half of FY 2011-12 with details of how they are computed may be supplied.*

Reply:

The PSPCL's Thermal plant-wise information of Actual weighted average calorific value of coal and oil is as under:

GNDTP**Table 10: Actual weighted average calorific value of coal and oil for GNDTP**

S. No	Year	Weighted Average calorific value of coal (Kcal/Kg)	Weighted Average calorific value of oil (Kcal/Litre)
1	2010-11	3935.05	9400
2	2011-12 (H1)	3932.79	9400

Method of Computation

Actual weighted average C.V. of coal is computed by summing up the product of daily coal consumption and C.V. and then dividing by the total coal consumption over the period for which weighted average C.V. is required.

GGSSSTP**Table 11: Actual weighted average calorific value of coal and oil for GGSSSTP**

S. No	Year	Weighted Average calorific value of coal (Kcal/Kg)	Weighted Average calorific value of oil (Kcal/Litre)
1	2010-11	3950	10000
2	2011-12 (H1)	3938	10000

Method of Computation

The actual weighted average calorific value is calculated as under:

Coal samples are being collected every day from coal belts feeding coal bunkers on two hourly bases. Then one composite sample is made from all these incremental samples which represents station coal sample of that day for all the units. Proximate analysis of this sample is done and GCV is analyzed by using Automatic Bomb Calorimeter. This value of GCV is then converted into fired basis by the following formulae.

$$GCV (f/b) = \frac{100 - TM}{100 - ADM} * GCV (By Bomb Calorimeter)$$

Where i) TM: Total Moisture (%)

ii) ADM: Air Dried Moisture (%)

From these daily values of GCV (fired), monthly GCV (fired) is calculated arithmetically & yearly cumulative weighted average is worked out (Annexure- B).

GHTP

Table 12: Actual weighted average calorific value of coal and oil for GHTP

S. No	Year	Weighted Average calorific value of coal (Kcal/Kg)	Weighted Average calorific value of oil (Kcal/Litre)
1	2010-11	3932	9500
2	2011-12 (H1)	4046	9500

Method of Computation

Coal calorific value as on fired basis is calculated in GHTP laboratory on daily basis. The daily calorific value so measured is used to determine total calories in the coal used for daily generation. These calories are summed up to determine the total calories used for monthly generation. Then these total calories are divided by the monthly coal consumption to get the monthly weighted average calorific value of the coal. Similar procedure is adopted to get the weighted average calorific value for the whole year.

Method of computation of calorific value of oil

The method for calculating the weighted average calorific value of oil is explained as under:

The weighted average calorific value of oil is dependent on the mix of the type of oil used in a particular station in a year. The calorific value of Furnace oil is 10000 Cal/g which comes to 9600-9700 KCal/lt. Further, as per the reports received from M/s IOCL, the LDO tested at its labs has a density of 0.88 kg/m³. The GCV of LDO is related to its specific gravity by the following formula:

$$GCV = 12400 - 2100d^2$$

Using the above formula and the specific gravity provided by M/s IOCL, the GCV of LDO works out to approximately 10600 kcal per kg, which is equivalent to 9300 kcal per litre. Using these values and the actual mix of FO and LDO used in the thermal stations (in litres) in the entire year, the weighted average calorific value of oil is worked out.

Query of the Hon'ble Commission

- (vii) *In the Table-41,42,43 it is found that the weighted average calorific value of coal for 1st half year of FY 2011-12 differs from those projected for the 2nd half. The reasons for it may be explained.*

Reply:

The underlying reason for the observation made by Hon'ble commission is provided below:

GNDTP: Weighted average C.V. of coal for 1st half year 2011-12 was 3932.79 Kcal/Kg. The same was projected as 3935 Kcal/Kg during the 2nd half after suitably rounding. Moreover, actual C.V. during the previous year, 2010-11 was 3935.05 Kcal/Kg.

GGSSSTP: In the table no 43, pertaining to GGSSTP, weighted calorific value of coal for H-I of FY 2011-12 was 3938 Kcal/Kg and the projected GCV for H-2 has been presumed to be 3935 Kcal/Kg.

GHTP: The actual weighted average calorific value of coal for 2011-12 (H1) is 4046Kcal/Kg. The actual calorific value of coal during September 2011 was 4025 Kcal/Kg. On pattern of calorific value of the last month of H1 i.e. September 2011, calorific value of 4025 Kcal/Kg has been projected for 2011-12 (H2) and 2012-13.

Query of the Hon'ble Commission

- (viii) *The actual weighted average price of coal per MT for different station for the FY 2010-11 and 1st half of FY 2011-12 may be supplied, with details of how it is computed. Is the price based on the quantity dispatched and does the cost include the amount billed by the coal companies and railway freight including royalties etc. and include the handling charges also? This may be clarified.*

Reply:

The details of plant-wise coal prices are listed below:

Table 13: Average weighted price of coal per MT (Rs.)

S. No	Year	GNDTP	GHTP	GGSSSTP
1	2010-11	2766	2757	2883
2	2011-12 (H1)	2891	2879	2993

The Calculation sheet of weighted average price of coal is attached as Annexure-C.

Further, the summary of coal consumption and cost for GNDTP and GHTP is provided in the above stated annexure. As regards GGSSTP the quarterly details are provided in the annexure and the summary of the same is being reproduced hereunder.

Table 14: Average weighted price of coal per MT (Rs.)

Quarter	Quantity of coal (MT)	Total cost (Rs.)
2010-11 Q1	1654250	4561712569
2010-11 Q2	1481819	4067711431
2010-11 Q3	1614791	4980350999
2010-11 Q4	1686185	4949986000
Total for 2010-11	6437045	18559760999

Average rate for FY 2010-11 (Rs. Per MT)	2883	
2011-12 Q1	1563393	4555154000
2011-12 Q2	1567760	4816745000
Total for 2011-12 (H1)	3131153	9371899000
Average rate for FY 2011-12(H1) (Rs. Per MT)	2993	

The price of Coal is based on the quantity dispatched except supply from M/s Panem. In case of Panem, the payment is made on the basis of quantity received at the plant and the cost include the amounts billed by the coal companies. It is further to clarify that Railway Freight including royalties, taxes etc. and handling charges are included in the cost of coal.

Query of the Hon'ble Commission

- (ix) *Changes in the prices of coal, if any, from 01/04/2011 to September, 2011 and copies of such notification may be supplied.*

Reply:

The PSPCL submits that there is no change in prices of coal from 01.04.2011 to 30.09.2011

Query of the Hon'ble Commission

- (x) *Any changes in freight charges for coal along with notification issued by Railway after 01/04/2011 may be supplied*

Reply:

The PSPCL would like to inform that Railways have started the levy of busy season and congestion surcharge on the freight, @ 5%, w.e.f. 01.04.2011, as per their Circular No. 13/2011, as conveyed by TCR/1078/2008/11 dated 29-03-2011. This busy season and congestion surcharge are applicable from 1st April, 2011 to 30th June, 2011 and 1st Oct, 2011 to 31st March, 2012. (Copy of letter enclosed as Annexure-D). Subsequently Railways issued another circular no. 38/2011, as conveyed vide TCR/1078/2008/11 dated 12-10-2011 vide which busy season surcharge was enhanced to 10% from 1st Oct, 2011 to 30th June, 2012(copy of the letter enclosed as Annexure-E).

Query of the Hon'ble Commission

- (xi) *Any Changes in other expenses, such as royalties, taxes etc which influences the price of coal per MT for FY 11-12 may be supplied.*

Reply:

Changes in other expenses, such as royalties, taxes etc which influences the price of coal per MT for FY 11-12 are as under:

1. Development surcharge has been increased from 2% to 5% w.e.f. 15.10.2011 as per Railway rates circular No. 38 of 2011 dated 12.10.2011

2. Railway freight increased by Rs. 64 per MT on PANEM coal and Rs. 52.50 per MT on CCL coal w.e.f. 27.12.2010 vide Railway rates circular No. 33 of 2010 from previous rates.
3. Central Government vide notification No. 03/2010 dated 22-06-2010 and notification No. 06/2010 dated 22-06-2010 levied Clean Energy Cess @ Rs.50/MT w.e.f. 01-07-2010.
4. Punjab Government vide notification dated 15-08-2010 levied Entry Tax on coal @ 4% w.e.f. 18-08-2010.
5. Coal India has started levying Excise Duty @ 5.15% (basic 5% + 3% Edu. cess) w.e.f. 01.03.2011 as per notification of Govt. of India, conveyed vide SECL/BSP/GM(F)/FM(Tax)/3745, dated 07/08-03-2011. However on M/s Panem, the applicable Central Excise duty is 1.03 % w.e.f. 01.03.2011 (Earlier it was nil).

Above notifications are attached as Annexure-F

Query of the Hon'ble Commission

- (xii) *The details of any demurrages paid to the Railways during the years FY 2010-11 and FY 2011-12 for different stations may be supplied and it may be clarified whether the demurrages paid are included in the cost of coal.*

Reply:

The details of demurrages paid to the Railways during the years FY 2010-11 and FY 2011-12 for different stations are as under:

Table 15: Details of demurrages paid to the Railways (Rs)

S. No	Year	GNDTP	GGSTP	GHTP
1	2010-11	8133310	31701885	12151000
2	2011-12 (H1)	3819505	18284950	266000

It is further to clarify that demurrages charges are included in the price of coal.

Query of the Hon'ble Commission

- (xiii) *Is imported coal being used in any of the stations? If so, the ratio of usage and other details may be supplied.*

Reply:

The PSPCL submits that none of its plants are using imported coal for their operation.

Query of the Hon'ble Commission

- (xiv) *The details of arriving at the weighted average calorific value and price of oil for different station for FY 2010-11 and FY 2011-12 may be supplied.*

Reply:

The method for calculating the weighted average calorific value of oil is explained as under:

The weighted average calorific value of oil is dependent on the mix of the type of oil used in a particular station in a year. The calorific value of Furnace oil is 10000 Cal/g which comes to 9600-9700 KCal/lt. Further, as per the reports received from M/s IOCL, the LDO tested at its labs has a density of 0.88 kg/m³. The GCV of LDO is related to its specific gravity by the following formula:

$$\text{GCV} = 12400 - 2100d^2$$

Using the above formula and the specific gravity provided by M/s IOCL, the GCV of LDO works out to approximately 10600 kcal per kg, which is equivalent to 9300 kcal per litre. Using these values and the actual mix of FO and LDO used in the thermal stations (in litres) in the entire year, the weighted average calorific value of oil is worked out.

The price of oil for FY 2010-11 and FY 2011-12 in respect of GHTP, GNDTP and GGSSTP is provided in Annexure-G.

Query of the Hon'ble Commission

(xv) *The ratio of mix fuel oil and LD oil in the thermal station and relative cost may be supplied.*

Reply:

The ratio of mix of different types of oil used in the three stations of PSPCL as well as the total cost of each type of oil is as under:

Table 16: Breakup of fuel mix for GGSSTP

Period	Description	LDO	HFO			Cumulative Total
			FO	HPS	Sub-total	
FY 2010-11	Quantity used (kL)	234.46	2700.00	678.01	3378.01	3612.41
	Amount in Cr.	0.43	8.32	1.08	9.39	9.83
FY 2011-12 (H1)	Quantity used (kL)	21.16	2101.25	-	2101.25	2122.41
	Amount in Cr.	0.09	6.77	-	6.77	6.86

Table 17: Breakup of fuel mix for GHTP

Period	Description	LDO	FO	Cumulative Total
FY 2010-11	Quantity used (kL)	1105	2858	3963
	Amount in Cr.	4.77	8.73	13.50
FY 2011-12 (H1)	Quantity used (kL)	574	1441	2015
	Amount in Cr.	2.60	5.34	7.94

Table 18: Breakup of fuel mix for GNDTP

Period	Description	LDO	FO	Cumulative Total
FY 2010-11	Quantity used (kL)	2137	4497	6634
	Amount in Cr.	9.27	14.13	23.40
FY 2011-12 (H1)	Quantity used (kL)	454	2010	2464
	Amount in Cr.	1.99	6.53	8.52

Query of the Hon'ble Commission**4 Hydel generation**

- (i) *The station-wise auxiliary consumption for the hydro station for FY 2010-11 and projection for FY 2011-12 and FY 2012-13 may be supplied.*

Reply:

The station-wise auxiliary consumption for the hydro station for FY 2010-11 and projection for FY 2011-12 and FY 2012-13 are provided as under:

Table 19: Station-wise auxiliary consumption for the hydro station (MUs)

S. No	Stations	FY 2010-11	FY 2011-12 (Proj)	FY 2012-13 (Proj)
1	Shanan	6.25	5.10	5.70
2	UBDC	4.29	3.61	3.95
3	MHP	11.18	12.19	11.63
4	ASHP	7.75	7.64	7.09
5	RSPP	18.16	16.14	15.20
6	Micro	0.11	0.08	0.10
	Total	47.74	44.76	43.67

Query of the Hon'ble Commission

- (ii) *Separate generation figures for UBDC stage-1 and UBDC stage-2 for FY 2010-11, 1st half of FY 2011-12 and projection and 2nd half of 2011-12 and FY 2012-13 may be supplied.*

Reply:

Stage wise generation figures for UBDC are provided as under:

Table 20: Generation figures for UBDC stage-1 and UBDC stage-2 (MUs)

S. No	Stations	Stage 1	Stage 2	Total
1	FY 2010-11	169.10	240.91	410.01
2	FY 2011-12 (H1)	106.47	116.75	223.22
3	FY 2011-12 (H2)	65.98	73.07	139.05
4	FY 2012-13	160.83	217.59	378.43

B. NON TECHNICAL**Query of the Hon'ble Commission****Year 2010-2011**

- 1 *Various costs/expenses/receipts under different heads for the period 1-4-2010 to 16-04-2010 for PSEB as an integrated utility needs to be bifurcated in the ratio of no. of employees/assets/loans/equity allocated between the two successor entities. Thereafter, all costs/expenses/receipts under different heads for the period 16-04-2010 to 31-03-2011 be added to arrive at the correct position of costs/expenses/receipts in respect of PSPCL. Various tables/formats need to be corrected/re-cast and re-submitted to the commission to facilitate determination of ARR for the year.*

Reply:

The PSPCL humbly submits that the Punjab State Transmission Corporation Limited came into existence only on 16-04-2010. Before the said date PSPCL and PSTCL were a single integrated entity operating as the erstwhile PSEB. Since for the first sixteen days of the financial year 2010-11 PSTCL was non-existent hence the PSPCL cannot furnish such details.

However, expenses incurred during this period are legitimate expenses made at supplying power to consumers. If the expenses incurred during this period are bifurcated, as directed by the Hon'ble Commission, the expenses which would fall in the pool of PSTCL would not be recovered as the PSTCL was not in existence. Consequently these expenses would be transferred to the accumulated losses of PSPCL thereby adversely affecting the financial health of PSPCL and the sector as a whole.

In light of the same, PSPCL has filed for complete recovery of these expenses from the consumers through the current ARR & tariff petition. It is prayed that the Hon'ble Commission look at these expenses in light of these facts and allow recovery of these expenses through the ARR of PSPCL thereby protecting the interests of PSPCL.

Query of the Hon'ble Commission

- 2 *For the perusal of the ARR petition it is seen that the Gap (deficit) of Rs2162.89 crore for the year 2009-10 determined by the commission in the Tariff order of 2011-12 has not been taken into account while working out the gap in the ARR for the year 2012-13. Consideration which weighed with the utility in doing so need to be elucidated apart from doing the needful now.*

Reply:

The PSPCL humbly submits that as a practice while determining the consolidated gap for the current year (FY 2011-12 in case of the current ARR and Tariff petition) PSPCL does not add up the approved revenue gap for the previous year. The same practice had been adopted in the last ARR petition filed by PSPCL and the Hon'ble Commission had considered the approved gap for FY 2008-09 while determining the gross revenue requirement of PSPCL.

In line with the above it is prayed to Hon'ble commission that while determining the tariff

for the year FY 2012-13 against the current ARR filed the already approved gap of Rs 2162.89 crore for the year FY 2009-10 be also taken into account.

Query of the Hon'ble Commission

- 3 *PSPCL in its ARR has stated that the opening balances of the assets and liabilities allocated to it have not been finalized by GoP and as such ARR contains provisional figures. The Commission understands that various costs/expenses/receipts mentioned in the ARR for the period from 16-04-2010 to 31-3-2011 are actuals as mentioned in the ARR. A certificate about the veracity of figures for this period needs to be furnished.*

Reply:

The PSPCL hereby certify that the figures incorporated in the accounts in respect of cost/expenses/receipts are provisional and subject to change while finalization of accounts.

Query of the Hon'ble Commission

- 4 *Audit certificate along with audit comments on the accounts of PSPCL for the year 2010-11 may be supplied.*

Reply:

PSPCL humbly submits that since the accounts of PSPCL are provisional therefore audit has yet not been conducted by statutory auditor.

Query of the Hon'ble Commission

- 5 *Detailed breakup of terminal benefits and the BBMB share as exhibited in Table 14 and its reconciliation with figure as given in Table 13 may be supplied.*

Reply:

Detailed breakup of terminal benefits and the BBMB share are as under:

Table 21: Break-up of terminal benefits & BBMB Share (Rs. crore)

S. No	Item	Actuals
Terminal Benefits		
A	Earned Leave Encashment	101.85
B	Gratuity	240.46
C	Commutation of Pension*	0.00
D	Workman's compensation	0.07
E	Ex-gratia	0.00
F	Fringe Benefit Tax	0.00
	Total (A to F)	342.38
Pension Payments		

G	Basic Pension	703.29
H	Dearness pension	
I	Dearness Allowance	
J	Any other expense **	99.73
K	Arrear of Pension	
	Total(G to K)	803.02
Add:	BBMB share	79.90
	Grant Total: Terminal Benefits & BBMB Share	1225.30

* Rs.703.29 Crore are inclusive of the amount booked under Commutation of pension

**Breakup of any other expenses has been given under reply to point no. 7

Query of the Hon'ble Commission

- 6 *PSPCL has compared the O&M expenses for PSPCL thermal plants for FY 2010-11 with O&M expenses as per the CERC norms and claimed that the actual O&M expenses for PSPCL are much lower than the expenses as per CERC norm. Since the O&M expenses includes the Employee cost, R&M expenses and A&G expenses the PSPCL may furnish the component-wise details viz. Employee cost, RM expenses and A&G charges for Rs.400 crores of actual O&M expenses for FY 2010-11 for meaningful comparison.*

Reply:

The PSPCL submits that due to inadvertent error it has wrongly quoted total O&M expenses for thermal plants as Rs 400 Cr. in petition submitted for FY 2012-13. However, the actual amount under this head is 395.68 Crore. It is prayed to the Hon'ble commission to condone this error and accept the revised figure for determining the tariff.

The Plant-wise O&M expense is listed below:

Table 22: Plant-wise O&M expense For FY 2010-11 (Rs Cr.)

Sr. No.	Item	01.04.2010 to 16.04.2010			16.04.2010 to 31.03.2011			FY 2010-11 (Prov)			Total
		GHTP	GGSSTP	GNDTP	GHTP	GGSSTP	GNDTP	GHTP	GGSSTP	GNDTP	
1											
2	R&M	1.34	3.6	0.51	40.01	59.75	17.46	41.35	63.35	17.97	122.67
3	Employee Cost	4.28	0.35	0.47	43.30	135.62	84.73	47.58	135.97	85.2	268.75
4	A&G	0.08	0.09	0.02	1.35	1.74	0.98	1.43	1.83	1.00	4.26
	Total	5.70	4.04	1.00	84.66	197.11	103.17	90.36	201.15	104.17	395.68

Query of the Hon'ble Commission

- 7 *Breakup/particulars of item of expenditure booked under Head "Any other expenses" of 99.73 crore in Table 13 of the ARR may be intimated*

Reply:

Breakup/particulars of item of expenditure booked under Head “Any other expenses” are provided as under:

Table 23: particulars of item of expenditure booked under Head “Any other expenses”

S.No.	Any other expenses	(Rs. Crore)
1	Leave Travel Assistance	0.74
2	Leave Travel concession	4.83
3	Staff welfare expenses	34.08
4	Terminal Benefits	60.08
	Total	99.73

Query of the Hon’ble Commission

- 8 *Particulars and the amount of grants received by PSPCL from the Government under APDRP/RAPDRP schemes during the year 2010-11 may be intimated. Similar information needs to be supplied for the year 2011-1 (till date).*

Reply:

The PSPCL hereby submits that it has not received any grants from the Government under the APDRP/RAPDRP schemes in the year 2010-11 and till date in the year 2011-12.

- 9 *Item-wise break-up of the expenditure booked under the Head “Other” in Table 17 relating to A&G expenses needs to be supplied*

Reply:

Item-wise break-up of the expenditure booked under the Head “Other” in Table 17 relating to A&G expenses are provided as under:

Table 24: Item-wise break-up of the expenditure booked under the Head “Other” (Rs Lacs)

Sr. No.	Item	01.04.2010 to 16.04.2010	16.04.2010 to 31.03.2011	FY 2010-11 (Prov)
1	Leased Telephone lines	0.00	0.84	0.84
2	Legal charges	11.41	293.21	304.62
3	Audit Fees	382.97	10.00	392.97
4	Credit rating charges	0.12	6.34	6.46
5	Fees and subscription	0.20	580.53	580.73
6	Books and Periodical	0.16	5.45	5.61
7	Printing and stationery	59.33	230.94	290.27
8	Computer time hire cost	0.00	726.09	726.09
9	Advertisement expense	0.97	203.45	204.42
10	Donations	0.00	0.04	0.04
11	Cost of revenue stamp for office use	0.00	0.38	0.38

Sr. No.	Item	01.04.2010 to 16.04.2010	16.04.2010 to 31.03.2011	FY 2010-11 (Prov)
12	Meter reading/Bill distribution exp by pvt parties	26.03	772.72	798.75
13	Expenses on training of ULDC/others	0.03	1.24	1.27
14	Free electricity to religious place	0.07	1.48	1.55
15	Entertainment	0.00	1.36	1.36
16	Hospitality	0.46	53.63	54.09
17	Coference expense	0.07	1.83	1.90
18	Mtc. Of guest house	0.31	9.90	10.21
19	Festival celebration	0.13	0.45	0.58
20	Other hospitality in offices	0.00	1.71	1.71
21	Misc. expenses	40.71	1254.52	1295.23
22	Adm & Gen Expenses school-PSEB	0.04	0.46	0.50
23	Adm & Gen Expenses PSEB colonies	0.00	1.69	1.69
24	Mobile set purchase expense	0.34	21.46	21.80
25	Sewak macine hire charges	0.00	97.44	97.44
26	Expenditure incurred by ombudsman	0.00	35.91	35.91
27	Total	523.35	4313.07	4836.42
	Less BBMB Share	1.00	131.00	132.00
28	Net Expenses	522.35	4182.07	4704.42

Query of the Hon'ble Commission

- 10 (i) Confirm that the Period 1.4.2011 to 16.4.2011 and 16.4.2011 to 31.3.2012 mentioned in Table 19 (Depreciation) is to be correctly read as 1.4.2010 to 16.04.2010 and 16.4.2010 to 31.3.2011.
- (ii) Details of classification-wise assets addition made during the period from 1.4.2010 to 16.4.2010 may be supplied
- (iii) It may be confirmed whether or not the rates of depreciation charged on the assets for the Period 1.4.2010 to 16.4.2010 are the same as notified by GoI in May 1994 and for the period 16.4.2010 to 31.3.2011 are in accordance with the rates notified under the companies act?
- (iv) Worksheet of the depreciation on the assets for the year 2010-11 in accordance with the above provision be submitted to the commission

Reply:

- (i) The PSPCL hereby submits that the period mentioned in the Table 19 (depreciation) is to be read as 1.4.2010 to 16.04.2010 and 16.4.2010 to 31.3.2011 instead of 1.4.2011 to 16.4.2011 and 16.4.2011 to 31.3.2012 as appearing in the petition submitted by us. It is prayed to the Hon'ble Commission to condone this inadvertent error and to accept the revised dates.
- (ii) The detail of classification-wise assets addition made during the period from 1.4.2010 to 16.4.2010 has already been submitted to the Hon'ble Commission as part of the Schedule-19 of the Annual Statement of Accounts in volume-III of the ARR

- (iii) The PSPCL hereby certify that the depreciation charged for 16 days during the period 01.04.10 to 16.04.10 is the same as notified by GoI during 1994 and as per schedule – XIV of companies Act, 1956 during the period 17.04.10 to 31.03.11 proportionate for 349 days.
- (iv) PSPCL hereby submits that the depreciation on assets is calculated by each of the field units separately for the assets under their use and the same is provided to the head office for compilation. Hence the detailed calculation sheet of depreciation is not available.

Query of the Hon'ble Commission

- 11 *Descriptive particulars as to the nature and period to which prior period employee expenses of Rs.9.49 crores relate may be intimated*
- And*
- 12 *Particulars of assets and reasons on account of which depreciation amounting to Rs.27.33 crores could not be provided for in previous year need to be intimated.*

Reply:

The PSPCL submits that on thrashing out the details it has been noticed that 131 field accounting units have booked expense under prior period employees' expenses and 40 offices (approx.) under prior period depreciation. In this code, therefore, the nature and the period to which it pertains are available there. For calling this information a considerable time is required.

Query of the Hon'ble Commission

- 13 *The detailed working sheet of revenue with relevant tariff/existing tariff duly giving the category/slab wise sales/fixed charge rates, energy charge rates, other charges etc. may be supplied for FY 2010-11, FY2011-12 and projections for FY2012-13.*

Reply:

The PSPCL hereby submits that as per the currently applicable tariff structure, PSPCL can only recover energy charges from its consumers. There are no fixed charges as per the current tariff structure. However, in order to protect the interest of PSPCL and to ensure a minimum recovery from each consumer there is a provision of MMC in each of the consumer categories. Accordingly, the breakup of the total revenue for the year 2010-11 into energy charges and MMC is as under:

Table 25: Category wise revenue details

Category	Energy charges (Rs. Cr.)	MMC (Rs. Cr.)	PLEC (Rs. Cr.)	Total (Rs. Cr.)
Domestic	2546.92	57.31	0.00	2604.23
Non-residential	1152.10	106.30	0.00	1258.40
Small power	309.29	29.59	0.00	338.88
Medium Supply	739.87	62.37	0.00	802.24
Large supply	3507.35	34.26	148.43	3690.04
Agriculture	520.60	0.00	0.00	520.60

Public lighting	82.24	1.76	0.00	84.00
Bulk supply & Grid supply	235.88	1.02	0.00	236.88
Common pool	111.14	0.00	0.00	111.14
Railway Traction	63.72	10.78	0.00	74.50
Outside state	87.41	-	-	87.41
Total	9356.55	303.38	148.43	9808.32

In order to project the revenue for the current year and the ensuing year PSPCL has projected the energy sales in each of the categories and then multiplied the projected sales with the effective tariff for that category. However the effective tariff for each category is computed by adding 8 paise as fuel surcharge to the notified tariff of that category. The details of projected energy sales, average per unit tariff and projected revenue from each category at that tariff have already been furnished to the Hon'ble Commission in Format 27B and Format 27C.

Year 2011-2012 & 2012-13**Query of the Hon'ble Commission**

- 1 *Details of Earned leave encashment and gratuity disbursed to the retirees uptill date (Sept/Dec, 2011) may be supplied.*

Reply:

The details of Earned leave encashment and gratuity disbursed to the retirees are provided as under:

Table 26: Earned leave encashment and gratuity disbursed to the retirees till Sept 2011

S. No.	Item	(Rs. Crore)
1	Earned Leave Encashment	49.68
2	Gratuity	101.23
	Total	150.91

Query of the Hon'ble Commission

- 2 *The function-wise classification of assets and depreciation thereon for FY 2010-11 are given in Table 19 of the petition. The details of GFA, asset classification-wise and the rates of depreciation and the actual depreciation required as per Format-11 are not submitted. These may be submitted by PSPCL for validation of depreciation charges for FY 2010-11 and determining depreciation for FY2011-12 (RE) and FY 2012-13 (Projection).*

Reply:

PSPCL humbly submits that the opening balance sheet of the two separated entities i.e. PSPCL and PSTCL are yet to be finalized. The State Government has appointed "Ernst & Young" as the consulting agency for preparing final balance sheets of PSPCL and PSTCL. PSPCL is not maintaining information relating to depreciation in a form which would enable it to submit the Format-11 as required by the Hon'ble Commission.

Hence PSPCL prays to the Hon'ble Commission to waive the requirement of submission of Format-11 for the purpose of determination of ARR and tariff for the year 2012-13.

Query of the Hon'ble Commission

- 3 *The function-wise capital expenditure incurred (actual) during FY 2010-11 and assets capitalized there against may be supplied. The PSPCL has projected the total capital expenditure at Rs. 1370.25 crore for FY 2011-12 (RE) and Rs 3286.19 crore for FY 2012-13 (projection) (Table 52). The details of actual capital expenditure till date may also be intimated. The utility has proposed the borrowing at Rs. 1377.10 crore for FY 2011-12 (RE) and Rs. 3286.00 crore for FY 2012-13 (Projection) to meet the projected capital expenditure for the year 2011-12 and 2012-13 respectively, PSPCL is requested to clarify as to why the provision for consumer contribution proposed at Rs. 115 crore for each year is not considered while proposing the borrowing for these years. The actual capital expenditure*

incurred and the actual capitalization during H1 of FY 2011-12 may be supplied with scheme-wise detail against the details projected for FY 2011-12 (RE)

Reply:

It is submitted that the function-wise capital expenditure incurred (actual) during FY 2010-11 has already been submitted to the Hon'ble Commission in Format-21 of the ARR petition for FY 12-13.

Further, the actual capital expenditure incurred upto October, 2011 has been attached as **Annexure-H**

As per the generally adopted practice by PSPCL, the component of consumer contribution is normally not considered while making calculations for capital expenditure, asset capitalization, loans and interest charges. The PSPCL has been filing its ARR petition on this concept and the same has been followed for this year as well. It is requested that Commission take a lenient view of the same and consider the ARR and tariff petition of PSPCL considering the figures submitted by the PSPCL.

Further, the actual capital expenditure incurred upto September (H1 of FY 2011-12), has been attached as **Annexure-I**.

Query of the Hon'ble Commission

- 4 *Details of receipt and payment of loans intimating effective dates of rate of interest may be substantiated with necessary documents.*

Reply:

The details of receipts and payments of loans with their effective dates and rates of interests are as provided in Annexure-J. However, PSPCL humbly submits that the details do not cover all the loans availed by the PSPCL. The details of long term project loan availed from REC/PFC/LIC has not been included primarily because project loans are received in 100 to 300 trenches and are reimbursed by concerned Financial Institution based on progress of works. The tenure of long term project loan is also ranging from 13 to 20 years including moratorium period. The rate of interest is also charged by FIs prevailing at the time of each disbursement which varies between 8.50% to 13% p.a. as per loan policy circular of FIs. Moreover long term project loans are lodged by concerned project authorities. Keeping in view the above, details of receipt and its repayment of long term project loans would be very voluminous and would also be a time consuming and cumbersome exercise. Accordingly, PSPCL prays that the Hon'ble Commission accept the information currently being supplied for the purpose of determining the interest and finance charges.

Furthermore, the interest rates for each of the loans keep changing and witness several revisions over the year. Hence the interest rates provided in the attached Annexure-J are only indicative so as to provide the Hon'ble Commission with an estimation as close to actual values as possible.

Query of the Hon'ble Commission

- 5 PSPCL has claimed finance charges including guarantee fee charged by GoP for the purpose of obtaining loans. Particulars/details of loans taken along with sources of loans and the amount of guarantee fee charged by GoP along with rate thereof may be made available to the Commission.

Reply:

The detail of Guarantee fee charged by the Government of Punjab is attached as **Annexure-K**

Query of the Hon'ble Commission

- 6 *PSPCL has claimed interest amounting to 88.57 crores on consumer security deposit as per provisional annual accounts for 2010-11. However, interest on consumer security deposit as approved by the commission in Tariff Order 2011-12 was 82.06 crore. PSPCL may clarify as to why the provisional accounts for the purpose of claiming interest may not be ignored and interest approval kept at par with the approval made in the tariff order 2011-12.*

Reply:

The interest on consumer security deposit of Rs.88.57 as claimed by PSPCL is the actual expenses incurred by PSPCL. Although the annual accounts of PSPCL have not been audited till now, yet the same are being prepared as per the generally accepted principles of accounting and accordingly it is prayed to the Hon'ble Commission that the amount appearing under interest on consumer security deposit in the annual accounts of PSPCL be approved being actual expenditure.

Query of the Hon'ble Commission

- 7 *PSPCL has claimed Other Debts, Extra ordinary Items amounting to Rs 27.77 crore for the year 2010-11. Necessary details of item covered under different heads may be supplied along with documentary evidence.*

Reply:

The head-wise details of Other Debts, Extra ordinary Items are provided in table 21 below.

The PSPCL submits that due to inadvertent error it has quoted amount under head "Other Debts, Extra ordinary Items" as Rs 27.77 Cr. in petition submitted for FY 2012-13. However, the actual amount under this head is 27.87 Crore. We pray to Hon'ble commission to consider the same.

Table 27: Head-wise details of Other Debts, Extra-Ordinary Items (Rs. Lacs)

S. No.	Items	01.04.2010 to 16.04.2010	16.04.2010 to 31.03.2011	FY 2010-11 (Prov.)
1	Material cost variance	7.30	21.32	0.29
2	Bad debt written off	13.04	761.12	7.74
3	Shortages on verification of stock	3.75	2.72	0.06

4	Loss of material in pilferage etc	0.48	5.20	0.06
5	Loss on shortage-outdoor equipment	15.50	240.62	2.56
6	Loss of cash written off	0.00	2.23	0.02
7	Compensation to staff	0.20	16.84	0.17
8	Comp. for injuries, death and damages (staff)	10.14	61.22	0.71
9	Loss of capital equipment & spares	0.00	0.39	0.00
10	Sundry debit balances written off	0.00	3.40	0.03
11	Loss on sale of stores	0.00	1.10	0.01
12	Infructuous capital expenditure written off	168.54	0.00	1.69
13	Misc. Work & write off w/c pay	195.17	0.93	1.96
14	Subsidy written off	1237.35	0.00	12.37
15	Write off deferred revenue expenditure	10.84	0.00	0.11
16	Loss on a/c of flood, cyclone, fire etc	0.30	7.54	0.08
	Total	1662.61	1124.63	2787.24

Query of the Hon'ble Commission

- 8 *PSPCL has claimed Rs.368.98 crores towards prior period expenses as actual for FY 2010-11. The ARR under Regulation 14 of PSERC Tariff Regulation does not include any prior period expenses. Further, the major portion of prior period expenses include substantial amount towards power purchase cost, employee cost and depreciation un-provided in the previous years. These expenses are analyzed and approved based on prudence check on a year to basis in the respective ARR and in the review and true-up. The PSPCL may explain the justification for claiming these expenses under the prior period expenses in the ARR.*

Reply:

PSPCL humbly submits that it has claimed Rs. 368.98 Crores as prior period expenses as actual for FY 2010-11 in the ARR petition for FY 12-13. It mainly comprises of Purchase of Power amounting to Rs. 325.04 Crores, Depreciation un-provided in previous years amounting to Rs 27.33 Crores and Prior period employee expense of Rs 9.49 Crores. The reasons for depreciation and employee expenses being booked under the head "Prior Period Expense" have already been stated above. As regards Prior period expenses relating to power purchase, the plant-wise breakup of the same is attached as Annexure-L. Further, this amount relates to bills received during the FY 2010-11 but pertains to the period prior to FY 2010-11 and is due to issue of CERC order 2004-09 and 2009-14.

Query of the Hon'ble Commission

- 9 *Estimated subsidy from State Government for FY 2012-13 may be supplied.*

Reply:

The estimated subsidy from GoP for FY 2012-13 based on Tariff rates for FY 2011-12 is provided as under:

Table 28: Estimated details of subsidy for FY 2012-13 (Rs. Crores)

Particulars	Consumption as per account for the FY 2010-11 (in Mus)	Revenue required			Revenue actually receivable from consumers	Amount of subsidy due from GOP
		Energy charges	Meter rentals and service charges etc.	Total		

(i) AP Consumers	11921.68	4351.41	9.00	4360.41	0.00	4360.41
(ii) Scheduled Castes DS Consumers	2448	1042.85	15.91	1058.76	0.00	1058.76
(iii) Non- SC BPL DS Consumers	1200	511.20	7.80	519.00	0.00	519.00
Total	15570	5905.46	32.71	5938.17	0.00	5938.17

The PSPCL hereby submit that due to below mentioned reasons the subsidy figures for FY 2011-12 are also revised and the details of which are provided as under:

- GoP (Energy Branch) vide its memo no. 11/68/2010-EB2/4171 dated 16.12.2011 has increased free power to SC & BPL consumers from 100 units to 200 units w.e.f. 01.12.2011.
- GoP (Energy Branch) vide its memo no. 11/68/2010-EB2/4167 dated 16.12.2011 has increased free power from 10 lac families to 15 lac families.
- It is submitted that a tariff of Rs. 50/ BHP per month was introduced for Agricultural consumers in the State with effect from January 22, 2010 which was subsequently withdrawn with effect from November 3, 2010. The PSPCL had billed the Agriculture Consumers in the State at the applicable tariff during the FY 2010-11 upto November 3, 2010 for a total amount of Rs. 520.60 crores. However, the PSPCL has been able to recover an amount of Rs. 161.89 crores only against the same. GoP (Energy Branch) vide its memo no. 11/68/2010-EB2/4175 dated 16.12.2011 has decided to waive off the pending bills and grant subsidy against it.
GOP notifications are attached as Annexure-M

Table 29: Revised Estimated details of subsidy for FY 2011-12 (Rs. Crores)

Particulars	Consumption as per account for the FY 2010-11 (in Mus)	Revenue required			Revenue actually receivable from consumers	Amount of subsidy due from GOP
		Energy charges	Meter rentals and service charges etc.	Total		
(i) AP Consumers	10993.00	4012.30	9.00	4021.30	0.00	4021.30
(ii) Scheduled Castes DS Consumers	1385.00	542.00	15.08	557.08	0.00	557.08
(iii) Non- SC BPL DS Consumers	77.00	30.53	0.95	31.48	0.00	31.48
(iv) Subsidy on account of pending bills of farmers				358.71	0.00	358.71
Total	12455.00	4584.83	25.03	4968.57	0.00	4968.57

PSPCL requests the Hon'ble Commission to consider the above subsidy for FY 2011-12.

Query of the Hon'ble Commission

- 10 *PSPCL has furnished the equity at Rs.15101.09 crores as on 31st March of the previous year in Format-30. PSPCL may explain how this equity has been arrived at.*

Reply:

The equity calculation is provided as under:

S. No.		Rs. in lacs
	Position as on 16-04-10	
1	Equity as per Accounts	294611.00
2	Accumulated Losses (Tentative)	993593.09
3	Consumer contribution grants & Subsidies (Tentative)	374153.53
4	Net Balance as on 16-04-10 [1+3-2]	-324828.56
5	Revaluation of Land (Tentative)	2000000.00
6	Equity after FRP Adjustment (Tentative)	1675171.44
7	Less Equity of PSTCL (Balancing figure of balance sheet)	165062.00
8	Equity of PSPCL	1510109.44

Query of the Hon'ble Commission

- 11 *The petition did not contain any proposal to cover the projected gap through increase in tariff or any other proposal. Necessary proposal to meet the projected revenue gap as required under the tariff regulations may be supplied.*

Reply:

The PSPCL humbly submits that the various cost allowances/disallowances made by the Hon'ble Commission are different from those proposed by the PSPCL. The submissions made by PSPCL for the various parameters are based on past trend observed / half-yearly data received from field / long term plans of PSPCL / other factors influencing specific parameters. However the allowances made by the Hon'ble Commission are based on yardsticks/norms which are different from those proposed by the PSPCL and are not known to the PSPCL in advance. As a result PSPCL is not in a position to accurately judge the gap that shall be allowed by the Hon'ble Commission. Hence it is not possible to submit a tariff proposal and hence the PSPCL prays to the Hon'ble Commission that the tariff proposal be decided by the Hon'ble Commission based on its own norms and yardsticks.

Query of the Hon'ble Commission

- 12 *Wheeling charges till date for the period 2011-12 may be supplied.*

Reply:

The wheeling charge recovered by PSPCL from its consumers till November 2011 is Rs.51.31 crores.

Query of the Hon'ble Commission

- 13 *Meter rental/service charges till date may be supplied. Income from various subheads may be supplied.*

Reply:

The details of meter rental and service line charges recovered from the various categories till 31st October 2011 is as provided in the table below:

Category	Charges (Rs. Lakhs)
Domestic	3051.63
Non-residential	818.13
Small power	234.35
Medium Supply	413.73
Large Supply	243.40
Public Lighting	45.75
Bulk supply and grid supply	30.10
Railway Traction	0.24
Others	0.54
Total	4837.87

Query of the Hon'ble Commission

14 *It may be confirmed that investment balances do not include interest on loans given to SPVs.*

Reply:

PSPCL hereby confirms that the investment and bank balances include interest on loans given to SPVs.

C. Other queries

1. *The copy of the CPRI report on performance parameters of GNDTP and GGSSTP may be supplied.*

Reply:

Plant-wise replies are provided as under:

GNDTP: Regarding CPRI report on Heat Rate study of GNDTP unit-1&2, it is intimated that only Draft Report has been received from M/s CPRI which is under study/deliberation at the plant. The final report shall be sent to the Hon'ble Commission immediately on its receipt from M/s CPRI.

GGSSTP: CPRI report on the performance parameters has not been finalized yet. It is likely to be finalized by Feb.2012. The final report shall be sent to the Hon'ble Commission immediately on its receipt from M/s CPRI.

2. *It may be clarified whether the GHTP station is, (1) Without cooling towers or (2) with natural draft cooling towers or (3) with induced draft cooling towers. Only in the case of induced draft cooling towers, 0.5% extra auxiliary consumption over 8.5% is to be allowed as per CERC Regulations.*

Reply:

PSPCL submits that GHTP is having natural Draft cooling tower.

3. *It is stated in the petition that the projection of hydel generation for FY 2012-13 is based on historical trend. The details of how projections are arrived at on historical trend may be intimated.*

Reply:

PSPCL submits that the projections for hydel generation for FY 2012-13 are made on the basis of average monthly hydel generation for the period FY 2007-08 to 2010-11. Details of Actual hydel generation for the above mentioned period is attached as Annexure-N.

4. *It is stated by PSPCL that projected price of coal for FY 2012-13 is escalated at CERC rate on the actual billing rate. The details of computation of the same for each station may be intimated.*

Reply:

PSPCL submits that CERC vide its notification No. Eco 1/2011-CERC dated 31.03.2011 (Attached as Annexure-O) has allowed escalation rate of 6.66% on the domestic coal price. The same rate has been applied on the previous year coal price to project the prices for FY 2012-13. The detailed calculation is provided as under:

Table 30: Details of Coal price calculation

Sl.	Category	FY 2011-12 (H1) (Actual)	FY 2011-12 (H2) (Projected)	FY 2012-13 (Projected)
8.	Price of Coal (Excl. Transit Losses)	Actual Coal Price (weighted avg of coal price for the period)	{Actual Coal Price for FY 2011-12 (H1)}*{1+(6.66/2)%}	{Projected Coal Price for FY 2011-12 (H2)}*{1+6.66%}

5. *It is stated by PSPCL that the projected price of oil for FY 2012-13 is escalated as per recent inflationary price levels. The details of computation of the same for each station may be intimated.*

Reply:

PSPCL submits that the yearly escalation factor of 10% applied on oil prices are based on assumption. The detailed calculation of oil prices are provided as under:

Table 31: Details of Oil price calculation

Sl.	Category	FY 2011-12 (H1) (Actual)	FY 2011-12 (H2) (Projected)	FY 2012-13 (Projected)
1.	Price of Oil	Actual Oil Price (weighted avg of Oil price for the period)	{Actual Oil Price for FY 2011-12 (H1)}*{1+(10/2)%}	{Projected Oil Price for FY 2011-12 (H2)}*{1+10%}

6. *The ratio of actual and projected usage of PANAM coal and other coal for FY 2010- 11, FY 2011-12 and FY 2012-13 may be intimated for different stations.*

Reply:

The plant-wise details for ratio of actual and projected usage of PANAM coal and other coal for FY 2010-11, FY 2011-12 & FY 2012-13 are provided below:

Table 32(A): Details of Coal usage for GHTP (MT)

Sl.	Category	FY 2010-11 (Actual)	FY 2011-12 (Projected)	FY 2012-13 (Projected)
1.	PANEM	3233454 (77.16%)	3357548 (78.28%)	3385002 (78.28%)
2.	Other Coal	957269 (22.84%)	931875 (21.72%)	939496 (21.72%)
	Total	4190723 (100%)	4289423 (100%)	4324498 (100%)

Table 3(B): Details of Coal usage for GNDTP (MT)

Sl.	Category	FY 2010-11 (Actual)	FY 2011-12 (Projected)	FY 2012-13 (Projected)
1.	PANEM	785220 (59.44%)	960000 (68.51%)	960000 (46.57%)
2.	Other Coal	535904 (40.46%)	441165 (31.49%)	1101353 (53.43%)
	Total	1321124 (100%)	1401165 (100%)	2061353 (100%)

Table 3(C): Details of Coal usage for GGSSTP (MT)

Sl.	Category	FY 2010-11 (Actual)	FY 2011-12 (Projected)	FY 2012-13 (Projected)
1.	PANEM	3031203 (49.72%)	2397005 (49.56%)	2447760 (49.50%)

2.	Other Coal	3065759 (50.28%)	2439718 (50.54%)	2496715 (50.50%)
	Total	6096962 (100%)	4836723 (100%)	4944475 (100%)

7. *It is stated that the gross generation for GNDTP and GHTP for FY 2012-13 is projected based on CEA target set for the year FY 2011-12 But the CEA targets for FY 2011-12 for GNDTP and GHTP are 2175 MU and 6837 MU respectively, whereas the projected generation is 2815 MU and 6989 MU. This may be clarified.*

Reply:

The plant wise replies are provided as under:

GHTP: The generation target of GHTP as per CEA for the FY 2011-12 is 6837 MUs. Based upon the maintenance schedules for the FY 2012-13, the projected generation of GHTP for FY 2012-13 is 6989 MUs, the approval of the same from CEA is awaited.

GNDTP: The CEA target for the financial year 2011-12 in respect of GNDTP, Bhatinda was 2175 MUs which was fixed keeping in view planned maintenance of 365 days of the units and pre-R&M operation of Unit-4 at lower load. The target of 2815 MUs for year 2012-13 is fixed as there is total planned maintenance of 203 days of the units only during the year. Further, Unit-3&4 will run at increased capacity of 120 MW each instead of 110 MW after R&M.

O&M Expenses

8. *Actual expenses during H1 of the current year FY 2011-12 in respect of (1) Employee cost (2) Repair & Maintenance expenses and Administrative and General Expenses may be supplied component wise.*

Reply:

Actual expenses during H1 of the current year FY 2011-12 in respect of (1) Employee cost (2) Repair & Maintenance expenses and Administrative and General Expenses are provided as under:

Table 4(A): Details of Employee Cost (Rs. Crore)

Sl. No.	Category	FY 2011-12 (H1)
1.	Basic Pay	855.61
2.	Overtime	4.92
3.	Dearness Allowance	297.85
4.	Fixed medical Allowance	15.97
5.	Other Allowances	101.81
6.	Bonus/ Generation Incentive	24.54
7.	Medical Expenses Reimbursement	6.40
	Total (1 to 7)	1307.10
	Terminal Benefits	
8.	Earned Leave Encashment	49.68
9.	Gratuity	101.23

10.	Commutation of Pension	
11.	Workman's compensation	0.11
12.	Ex-gratia	0.00
13.	Fringe Benefit Tax	0.00
	Total (8 to 13)	151.02
	Pension Payments	
14.	Basic Pension	375.87
15.	Dearness pension	
16.	Dearness Allowance	
17.	Any other expense	50.77
18.	Arrear of Pension	0.00
	Total	426.64
	Total Expenses	1884.76
Less	Amount capitalized	4.65
	Net amount	1880.11
Add	Prior Period	2.74
Add	BBMB share	19.70
	Net Employee's Cost	1902.55
19.	Arrear of Pay Revision	
	Total	1902.55

Table 4(B): Details of Repair & Maintenance Expense (Rs. Crore)

Sl. No.	Category	FY 2011-12 (H1)
1.	Plant & machinery	78.73
2.	Building	4.88
3.	Hydraulic works & civil works	3.12
4.	Line cable & network	17.86
5.	Vehicles	0.71
6.	Furniture & fixtures	0.09
7.	Office equipments	0.07
8.	Operating expenses	7.11
	Total	112.57
9.	Add BBMB share	62.07
	Total expenses	174.64
10.	Less capitalized	0.11
	Net expenses	174.53
11.	Add prior period	0.11
12.	R & M for asset addition during year	
	Total expenses charged to revenue	174.64

Table 4(C): Details of Administrative and General Expenses (Rs. Crore)

Sl. No.	Category	FY 2011-12 (H1)
1.	Rent Rates & taxes	1.74
2.	Insurance	0.40
3.	Telephone, postage & Telegram	2.76
4.	Consultancy Fee	0.17

5.	Technical Fee	0.01
6.	Other Professional Charges	0.14
7.	Conveyance & Travelling	10.95
8.	Electricity & Water	7.11
9.	Other	17.48
10.	Freight	2.10
11.	Other Material related expenses	3.27
	Total Expenses	46.13
12.	Add BBMB share	0.77
	Total Expenses	46.90
13.	Less capitalized	7.84
	Net Expenditure	39.06
14.	Add Prior Period	0.19
15.	A&G for Asset Addition During the Year	
	Total	39.25

Power Purchase Bills

9. (i) Para 2.104 of the petition it is stated that PSPCL is submitting the actual bills against the power purchase during FY 2010-11. Copies of the bills may be supplied.

(ii) In Para- 4.5.2 of the petition it is stated that the power purchase bills till September, 2011 have been attached as volume-IV. But copies of bills only for the month of September, 2011 are attached in Volume-IV. Copies of balance bills may also be supplied.

Reply:

(i) PSPCL submits that it has been inadvertently written that actual bills against power purchase during FY 2010-11 are being attached. Monthly power purchase statements for last six months of FY 2010-11 and first seven months of FY 2011-12 were demanded by PSERC's deputed consultant during their visit on 4th & 5th January, 2012 and the same have been handed over to them.

(ii) PSPCL submits that it has been inadvertently written that actual bills against power purchase till September, 2011 are being attached. As per previous practice, power purchase bills for September, 2011 have been attached in Volume-IV of the ARR petition for FY 2012-13.

Power Availability from Anticipated New Power Plant

10. From Table-45 and Format-7 for FY 2012-13 of the petition it is noted that about 1748.5 MW additional powers and about 8275 MU of additional energy will be available for purchase during FY 2012-13 (projected) from the expected new power stations. Any agreements entered and confirmation of availability of power from these new plants may be supplied for assessing power available for purchase during FY 2012-13.

Reply:

PSPCL submits that in table 45 of ARR Petition for FY 2012-13, 13 numbers new plants are indicated, from which PSPCL is expecting power in the FY 2012-13. The PPAs for all these projects have already been signed with various developers.

Further, regarding confirmation of availability of power, estimates regarding commissioning schedules of these new projects have been made based upon CEA sites, deliberations in various NRPC meeting and other sources. Following documents are attached as Annexure- P regarding latest position of commissioning schedules of these projects:

- 1.) Abstract of Minutes of 70th OCC meeting dated 28.12.2011 (regarding 7 projects): Expected commissioning schedules of Rihand-III, Parbati-III, chamera-III, Uri-II, Pragati-III (Bawana), Koteshwar (some units), Talwandi Sabo have been indicated in these minutes.
- 2.) CEA monthly progress report for December, 2011: Expected commissioning schedules of Durgapur and Rahunathpur have been indicated in Annexure-P (page 7 of 12) Regarding Udupi (Nagarjuna Plant), commissioning schedule has been indicated on page (6 of 12) of the Annexure –P. Its first unit is already commissioned and due to non-connectivity to CTU system, PSPCL is unable to draw power from Unit-I.
- 3.) Monthly Progress report of CGPL for Mundra Plant: Anticipated commissioning schedules are provided in Annexure-P (Page 8-11of 12)
- 4.) CEA report on Hydro capacity added during 11th plan (2007-12): As per this report, Malana-II project has been synchronized. As checked from developer, COD is expected in another 3-4 months.
- 5.) DVC Bokaro TPS: Minister of State, GoI has intimated Lok Sabha in march-2011 that DVC Bokaro Plant is likely to be commissioned in year 2012-13. (Attached as Annexure-P Page 12 of 12)

Entitlement from Central Generating Station

11. *The figure furnished in Format-6 for FY 2011-12 (H2) seems to be not for H2 of 2011-12 but for the entire FY 2011-12. Revised format for H2 of FY 2011-12 may be supplied.*

Reply:

Revised Format-6 for FY 2011-12 (H2) and FY 2012-13 has been enclosed as Annexure-Q. These formats have been prepared on the basis of average power scheduled to PSPCL from central sector plants during last four year on monthly basis.

Tariff Schedule with General Condition

13. *Retail Tariff Schedules showing applicability to each category, general conditions other charges such as meter rent etc. may be supplied.*

Reply:

PSPCL submits that the matter of retail Tariff Schedule showing applicability to each category, general conditions is under process/consideration, whereas other charges such as:

- (i) ED is @ 13%
- (ii) Octroi is @ 10 paisa per Unit
- (iii) Meter rental has been amended/ revised as per CC40/2011 (Attached as Annexure-R)

Compliance of Directives

12. Status of compliance of directive may be supplied in matrix form in the following format.

Reply:

Reply in the format provide by Hon'ble commission is provided as under:

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
(1)	(2)	(3)	(4)	(5)
Energy Audit and T&D Loss Reduction. (Dir.No.1)	Commission notes that the Board has quantified the specific steps that it proposes to take in 2010-11 with a view to reduce T&D losses. Commission expects that the Successor Entities would put in every effort to see that quantitative targets and Time-lines are achieved. It is also crucial to ensure that IT plan is initiated at the earliest and implemented in the	i)PSEB (now PSPCL) had already approved a scheme named "Bachat Lamp Yojna" to replace present inefficient incandescent lamps with CFLs of all domestic consumers in a phased manner. Three firms were short listed for implementation of BLY in 13 circles under Phase-I. Two firms failed to execute bilateral agreement & LOI has been cancelled. Bilateral Agreement with M/s CQC for implementation of BLY in 5 circles is	A) T&D Loss Reduction i) Replacement of incandescent lamps with CFL under Bachat Lamp Yojna. By 30.1.12.	i) PSEB (now PSPCL) has already approved a scheme named "Bachat Lamp Yojna" to replace present inefficient incandescent lamps with CFLs of 49 Lac domestic consumers in a phased manner. 13 circles, covering 28 lac consumers, are to be covered under phase-I and balance 7 No. under phase-II. Two bilateral agreements have been signed with C-Quest Malaysia for 13 (5&8) No. circles. Necessary data of 13 circles has already been submitted to M/s CQC for CPA designing. CPAs (5 Circles) registered with UNFCCC on 30.11.2011 & 55,343 no. CFLs distributed by 29.12.2011. For 8 Circles 2 no. CPAs registered with UNFCCC on 30.11.2011, CFLs distribution completed in

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
	<p>18 months. In addition to capital intensive measures proposed by the Board, sustained low cost technical interventions such as reduction in earthing resistance, tightening of joints and balancing of loads needs also to be considered.</p>	<p>being signed; also LOI for remaining 8 circles has been issued to M/s CQC. For the remaining 7 circles, matter has been taken up with Energy Efficiency Services Ltd. (EESL) a central Govt. Agency for execution of BLY under phase-II & bilateral agreement may be signed shortly. After implementation of the scheme it is estimated that more than 1500 MU's will be saved and reduction in peak will be 500 MW approximately.</p>	<p>ii) Shifting of meters outside: a) 32.14 Lac meters under non-APDRP schemes By - 31.3.12</p>	<p>Sohana Sub/Division in 11/2011. For balance 7 No. circles, EESL had earlier been allotted the work. Due to cancellation of agreement, fresh EOI was issued. Due to no bid received on 8.11.2011 & 21.12.2011 date further extended up to 08.02.2012. For 5 circles CFL distribution is likely to be completed by 30.06.2012. Activity wise schedule is as per Annexure-S.</p> <p>a) 11.45 lac. Meters shifted up to 31.12.11. Balance by 31.3.12. DPR's for balance 11.71 lac consumers are under preparation. Month wise target as per Annexure-T.</p>

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
	<p>ii) Replacement of Electro mechanical meters : Updated Progress status is enclosed as per Annexure-(I)-(ii and iv) Updated progress status (physical and financial) for following is enclosed as per Annexure-(I):-</p> <ul style="list-style-type: none"> • Conversion of LT distribution system to HVDS. 	<p>b) 9.74 lac meters (By PSPCL through outsourcing of labour - 31.3.12 and</p> <p>c) 9 Lac meters under R-APDRP schemes for urban areas.</p> <p>iii) Replacement of E/M meters:-</p> <p>a) 3-φ meters: SP/DS/NRS7,866 No AP47,671 No</p> <p>b) 1-φ meters (DS/NRS) 17,36,972 By....31.3.12.</p>	<p>b) 4.29 Lac meters shifted.</p> <p>c) Works allotted to 5 No. firms and 55 thousand meters stand shifted by 4-1-12.</p> <p>Work for replacement of E/M meters is being done side by side while shifting meters outside. Ending 11/2011 status of balance E/M is as :-</p> <p>a) 3-φ meters: SP/DS/NRS7,243 No AP44,108 No</p> <p>b) 1-φ meters (DS/NRS)14,84,009 No.</p>	

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
		<ul style="list-style-type: none"> • Replacement of Electro-mechanical meters. • Installation of capacitors on 11KV feeders. • Shifting of meters outside consumer premises 	<p>iv) PSPCL is directed to prepare technically and financially viable schemes to convert all AP connections to HVDS and a report be sent to the Commission. As far as possible, HVDS scope is extended to Urban and Suburban consumers as well.</p> <p>Conversion of LT DS to HVDS (Total 9.5 Lac connections) 1.89 lacs transformersby 31.12.11.</p> <p>Balance in phased manner for which PSPCL to submit year wise schedule.</p>	<p>Loss reduction schemes:</p> <p>Total No.1, 73,859 No. connections converted up to 31.12.2011. For monthly targets refer Annexure-U</p> <p>As for now instead of converting all AP tube-wells from LVDS to HVDS only 33000 AP tube wells of high loss feeders will be converted into HVDS. 4 no DPR's have been sanctioned by REC. As per the decision taken the conversion will be done under modified HVDS scheme allowing LT line upto 200 mt and installing higher rating DT's.</p>

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
		<p>Target for completion of</p> <p>a) Base line data</p> <p>Progress : In addition to reply as per Annexure-I after completion of ring fencing of all the towns compilation of base line data will be completed</p>	<p>v) 11 kV line capacitors to be installed as per standard practice while ensuring that it does not cause leading Power Factor (resulting into increase in losses). 11 kV line capacitors installations also need to be prioritized with higher priority on feeders carrying more inductive load.</p> <p>Installation of capacitors on 11kV feeders.</p> <p>2700 MVAR..... By 3/2012.</p> <p>vi) Commission is concerned about the slippages in time lines of IT implementation project. The GIS work needs to be executed at a fast track to match commissioning of IT</p>	<p>Out of total 2700 MVAR, 2015.072 MVAR (1961.993 MVAR line and 53.079 MVAR on sub stations) has been installed up to 30.11.2011. Balance by 31.3.2012.</p> <p>For monthly targets refer Annexure-V</p> <p>All the meters for Ring fencing and Boundary Metering have already been installed and have been put-up to PFC for establishment/verification of baseline data. For this purpose, PFC the Nodal agency in this case have appointed M/s WAPCOS as third party independent evaluating agency (TPIEA)</p>

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
	<p>by 31.3.2011.</p> <p>b) Segregation of technical and commercial losses.</p> <p>c) Energy Audit upto distribution level.</p>	<p>implementation project on 28.10.2011. / Establishment of baseline data also need to be expedited.</p> <p>Verification of Base Line data of 45 No. towns. By 31.7.2011</p> <p>vii) Segregation of Technical and commercial losses.</p> <p>(For strengthening of existing distribution system and sub-transmission system to reduce AT&C losses to 15% for urban areas of Punjab):</p> <p>Work target in 45 No. towns which qualify for grant/loan under R-APDRP (Part-B) of MoP/GoI is as under:-</p>	<p>Out of total eligible 47 no. towns, the base line data for 44 towns submitted to WAPCOS out of which data of 21 No. towns have been verified and found in order by M/s WAPCOS. The work of verification of data of balance towns is in progress By 30.4.2012</p> <p>Segregation of technical and commercial losses:</p> <p>R-APDRP is centrally sponsored scheme with an objective to reduce AT&C losses to 15% level of urban area of Punjab by investing in Sub-Transmission and Distribution sector.</p> <p>As per restructured APDRP (Part-B), MoP/GoI has sanctioned grant/loan for strengthening of existing sub transmission and distribution system and for reduction of AT&C losses level to 15%. PFC has been appointed by GoI as Nodal Agency. Basic qualifying criteria is that the population of the town as per census of year 2001 should be more than 30,000 and AT&C losses should be more than 15%.</p>	

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
			<p>-15 No. schemes already sanctioned.By 31.3.2014.</p> <p>-29 No, schemes under sanction.</p>	<p>Further, as per specific guidelines of PFC, the sanctioned schemes under APDRP (Part-B) can only be operated after verification of Base Line data i.e. existing losses by Third Party independent evaluation Agency (TPIEA). As per these criteria only 45 no. towns qualify for the scheme, all the schemes amounting to Rs.1550.0 Cr. were submitted to PFC and out of these 15 no. schemes amounting to Rs.511.83 Cr. were sanctioned and loan of Rs.68.55 Cr. was released. In March, 2011 the MoP/GoI decided that Part-B work of those towns which have AT&C Losses more than 20% be started immediately.</p> <p>Losses in all the 15 towns whose DPRs have been approved is more than 20%. So no base line data verification is required.</p> <p>Work of 15 no. towns of shifting meters outside into pillar boxes is under progress. Also the W.O. is issued for installation of L.T. shunt capacitors.</p> <p>27 no. DPRs amounting to Rs.984 Cr. have been sanctioned on 15.6.2011 and loan of</p>

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
	<p>iii) The Work Order for implementation of IT Plan under R-APDRP covering 47 No. RAPDRP towns and other non R-APDRP areas has been issued on 29.4.2010 on M/s Spanco Ltd. Mumbai. Scope of work of IT project under R-APDRP (Part-A) covers the creation/compilation of base line data and energy audit upto distribution</p>		<p>.....By 31.7.2014.</p> <p>viii) IT implementation: - Setting up of Data Centre at Patiala. By 31.3.2011. - Setting up of Data Recovery Centre at JalandharBy 30.4.2011. - Setting up of Centralized Complaint Centre at Ludhiana ...</p>	<p>Rs.147.65 Cr. was released. The work under the schemes is to be completed over a period of three years from the date of sanction of schemes. Out of DPRs of 27 no. towns sanctioned, loss of 25 no. towns is more than 20%, and the verification of base line is under process by TPIEA. For implementation of 27 No, schemes & remaining work of 15 No. schemes NIT has been floated.</p> <p>Implementation of IT Plan:</p> <p>Pilot data center has gone live w.e.f 30.12.2011.</p> <p>Building/Infrastructure completed on 12.4.2011. Work is going on. DRC is expected to be ready by 31.01.2012.</p> <p>Building/Infrastructure completed on 10/2010. Work is going on. CCC is ready w.e.f 5. 1.2012.</p>

Directive or Issue	PSERC's Directive in T.O. for FY 2010-11	PSPCL response in the ARR petition for FY 2011-12	PSERC's order in T.O for FY 2011-12	Progress/status of directives/Issues (Ending December, 2011)
	<p>level. IT implementation project be carried out by M/s Spanco under R-APDRP shall cover entire state of Punjab (i.e.47 Nos. R-APDRP towns and other non R-APDRP areas) for all the IT modules except GIS and Energy Audit and AMR of substations and DT meters. Thus Energy Audit and AMR of substations and DT's shall be carried out for 47 no. Towns, only. AMR of substations in non R-APDRP areas is being separately carried out under the ongoing AMR project being executed by M/s Easun Reyolle. Progress of IT implementation in terms of time line is attached as Annexure-I.</p>	<p>By 25.12.2010</p> <p>-Pilot Project of Patiala Town. By 28.4.2011</p> <p>- IT implementation in 46 No. towns. By 28.10.2011</p> <p>(ix) Low Cost Measures</p> <p>a) A time bound plan to reduce the earth</p>	<p>Hardware installation has been completed in data centre. DGPS Survey in Pilot town Patiala has been completed. Out of 2162 No. D/T meters for Patiala, Sirhind & Rajpura fast track towns, 1586 have been installed in Patiala, 92 No. modems have been installed. 6 No. DCUs have been installed. Installation work is in full swing. Data is being received in Data Centre.</p> <p>MDAS application has been completed - MDASP and demonstration & testing of the same is under process. 13579 No. DTs meters and 741 No. modems have been installed in various towns. DGPS survey in all 47 towns is likely to be completed by May, 2012.</p> <p>Work is expected to be completed by 31.5.2012. Month wise progress is given in Annexure-W.</p> <p>PSPCL has examined the issue. Presently there are about 4.25 lac. D/Ts which may require re-</p>	

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	<p>M/s Spanco the ITA selected under R-APDRP (Part-A) have mobilized their resources and have taken the execution of the R-APDRP IT implementation project in hand which is scheduled to be completed in 18 months starting 29.4.2010. Progress for MDAS : M/s Secure Ltd- the Meter Data Acquisition Service Partner for the job have mobilized their resources and already conducted survey of sub stations and HT consumers in Patiala town (Pilot Project Area) The tender floated for procurement of meters for distribution Transformers were opened on 1.10.2010 and are under evaluation. The</p>	<p>resistance of all distribution and grid substations of PSPCL as per standard laid down in IEEE Earthing Guide 80 be made in general and specifically to save costly equipments to be erected under IT implementation project and SCADA.</p> <p>b) An annual exercise (from Oct to May) to tighten loose joints and nuts/bolts of all equipment and conductors be done to save losses due to high resistance appearing at these points.</p>	<p>earthing with 2 earthing points per D/T. Exercise requires huge funds. It has been decided to provide water level earthing to approx. 80000 DTs feeding to GSC load. Total cost of project is Rs.72.00 Cr. and work will be completed by June, 2012 subject to availability of funds.</p> <p>PSPCL has also drawn plan for re-earthing of Grid S/Stns where ever required. A committee of 6 No. field SEs was formed to study the issue for 625 No. sub-stations. Committee has checked 580 sub-stations. PSPCL has created a new setup of SE, P&M under each zone and the offices are being set up. The strengthening of earthing of grids where values have been found beyond permissible limit will be taken up and completed before paddy.</p> <p>Certificates from all CE/DS regarding quantum of work completed up to 31-12-11 are attached as Annexure-AA.</p>	

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		<p>"As Is" study for design phase of application development has been finalized with certain observations. The "To Be" design and development phase is under progress.</p>	<p>c) Load balancing at all the distribution transformers be attained and certified annually. Certificates in respect of (b) & (c) above can be obtained from junior engineer in charge (feeder-wise).</p> <p>d) Initiatives on the lines of NDPL be undertaken to bring down the transformer damage rate. A blue print in this regard be prepared and submitted to the Commission by September 2011.</p>	<p>This work will be carried out at the start of summer season.</p> <p>PSPCL proposes to bring the loading of all DTs feeding GSC and industrial load up to 70% and bring down the damage rate to < 1% in urban area and 4% in rural area. Deloading of overloaded transformers has given good result reducing the damage rate to 4.8 % ending Sept., 2011 as compared to 5.5 % ending Sept., 2010. During visit of its engineers to NDPL it has been found that NDPL have setup small workshops where all the defective transformers are checked for the fault and if the fault is minor then the same is rectified. Only transformers with major faults are declared damaged. But in PSPCL repair of transformers</p>

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			<p>e) Suitable measures of power factor correction to compensate for reduction in power factor, if any, due to installation of CFLs installed under BLY scheme covering 49 lac domestic consumers, may be undertaken by PSPCL.</p> <p>f) Circle-wise energy audit needs to be done across PSPCL. Time bound program to train sufficient number of PSPCL engineers to acquire BEE certification to work as Energy</p>	<p>in field is not allowed to avoid harassment of consumers and all the defective transformers are declared damaged. Pro and cons of allowing minor repairs of transformers in field are being examined.</p> <p>Stands replied.</p> <p>Few engineers of PSPCL have already acquired BEE certification. For carrying out energy audit as per directive of PSERC framing of Policy is under consideration by PSPCL. As a first step engineers are being identified from field who are to be covered under the policy.</p>

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	<p>Energy audit reports along with Techno-Economic Analysis of Thermal Generating Stations stands submitted to Director/Tariff vide this office memo No.2593/94 dated 7.10.2010. For action taken on recommendations of energy audit report in respect of reply already submitted vide above reference of GNDTP Bathinda as per Annexure-I, updated progress of damaged splash nozzles</p>	<p>Auditors be chalked out. These engineers are posted to conduct internal energy audit in distribution system and generating stations in addition to their duties.</p> <p>B) Energy Audit: Energy audit (including inventory management) of all the three thermal plants be conducted as per rules laid by BEE and Energy Conservation Act, 2001. Steps to improve energy efficiency be identified and implemented. Impact of these steps be measured and intimated to the Commission.</p>	<p>Energy audit of Thermal Generating Stations:- RTP: To get the energy audit done regularly after every three years, W.O. No.196/5.4.2011 was placed on M/s CPRI, Bangalore for study on station heat rate which Includes energy audit. Present status: Draft Report received and is under deliberation at plant level and then it will be taken up with the firm for finalization. Likely to be finalized by 02/2012.</p> <p>GNDTP: Unit-1 & 2: For SHR study of a W.O. No.02/27.4.2011 was issued on M/s CPRI, Bangalore. Present Status: Draft report received which is under deliberation at the plant level. Observations, if any, shall be sent to firm to consider and</p>	

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		replaced with new splash nozzles is 430 No. & in respect of Annexure-E, Sr.No.16 & 17 updated progress for replacement of 1121 HPMV lamps of 125W and 225 HPMV lamps 400W respectively is 90% for each.		<p>submit Final Report. Copy of report shall be supplied to Hon'ble Commission on its receipt.</p> <p>Unit-3&4: Both units are under R&M w.e.f 14.01.2011 and 05.11.2011, respectively.</p> <p>GHTP:</p> <p>Unit-1: Energy audit was got conducted (8.7.2008-16.12.2009) from M/s TERI and action was taken where ever required.</p> <p>Unit-2: Energy audit has been got conducted (7.8.11-31.12.11) from M/s TERI. Report is expected by 20.1.2011. Finalization is expected by 29.2.2012.</p> <p>Unit-3&4: Performance Guarantee Tests have been conducted by BHEL (9.1.2009-17.1.2009 and 6.3.2010-17.3.2010, respectively).</p> <p>It is also mentioned that M/s Schneider Electric India Pvt. has conducted base line energy audit of all the units from BEE from 11.7.2011 to 21.7.2011. Report has been received. No recommendations have been given by firm.</p> <p>Above shows that for GHTP units is being got done regularly once in three years.</p>

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Agriculture Consumption. (Dir.No.2)	The Commission notes that Board has agreed to restrict the number of faulty meters to 10% of the total installed and to increase the sample Meters to 10% of total AP connections. As regards furnishing monthly/ division-wise consumption recorded by sample meters, Board has indicated that it might take some more time to streamline its	1)The requisite information prepared by M/S G4S is being supplied regularly every month to the Hon'ble Commission from 1.3.2010 onwards. ii)For compliance of para 3.2.3 (a,b,c) of tariff order 2010-11 reply is being regularly supplied every month to PSERC.	To furnish monthly, Division-wise consumption recorded by sample meters. - AP Sample meters study data. -Detail of Increase/Decrease in AP load having sample meters. -Detail of AP sample meters with excess consumption than normal. -Zone wise detail of divisions having	Further, at present no energy auditor is accredited by BEE. Once the accreditation process is got completed by BEE the tenders shall be called with the approval of competent authority and next schedule shall be intimated to Hon'ble commission Data for all points is being supplied to PSERC regularly on monthly basis w.e.f.Oct-2010.

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	<p>reporting system and make the information available. Taking this into account. The Commission directs that the Successor Entities may begin to supply this information by 1.6.2010. The same would apply also to division-wise information on connected load, AP factor, increase/decrease in sample meter loads and data on actual AP supply hours. In the case of supply hours, information could be restricted, for the moment, to data as maintained by the supplying sub-station.</p> <p>In view of the</p>	<p>Reply of para 3.2.3 (d):- Efforts are being made to bring percentage of faulty/Non-functional meters within 10% of sample meters installed. Reply of para 3.2.3 (e):- No. of AP sample meters have been increased from 83603 ending April 2010 to 98531 ending September, 2010. Efforts are being made to achieve 10% sample size as directed by PSERC.</p> <p>3) Status of AP feeder AMR is as under :- Presently, Out of about 650 No. grids brought under AMR by M/s Easun Reyrolle, about</p>	<p>highest AP factor.</p> <p>-To restrict the number of faulty meters to 10% of the total installed</p> <p>-Commission notes that sample size of 10% in case of AP connections is still not achieved .By 31.12.2011</p> <p>The Commission directs the Utility to ensure 100% installation and commissioning of AMR system on AP feeders as per timelines submitted and supply consolidated</p>	<p>- Percentage of faulty/Non-functional meters is 7.82% Effective sample size has increased from 77192 Nos i.e.7.05% (ending 4/2010) to 99282 Nos. i.e. 8.66% (ending 11/2011).</p> <p>No. of AP sample meters have been increased from 83,603 Nos (7.36%) for total 10, 95,027 No. connections ending April, 2010 to 107706 Nos. (9.40%) for total 11, 46,136 T/W connections ending Nov., 2011. Efforts are being made to achieve 10% sample size. However all new AP tube well connections under ARTC scheme will be released by providing meters.</p> <p>Presently, 650 No. grids are in the scope of M/s Easun Reyrolle, for providing AMR scheme for 3857 No. AP feeders (including AP 4 wire, AP 3 wire, AP IP feeders). Out of these AMR compatible meters on 3239 No. AP feeders have been installed, for which M/s ER has</p>

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	<p>Board's contention that consumption of motors of the same capacity and rating could vary for a variety of reasons, the Commission observes that one or combination of such factors could at best have limited effect on consumption. The Commission, reiterates that monthly details of meters recording consumption in excess of what can possibly be consumed be furnished where the variation is in excess of 10%. The Commission would like that AMR system should also be installed on a priority basis.</p>	<p>540 no. grids having AP feeders (2250 No.) have been covered. Meanwhile, under R-APDRP scheme the work of AMR of 165 grids is to be completed by M/s Secure upto 28.10.2011. The DCU's installed by M/s Easum Reyolle in these 165 no. grids will then be replaced with those of M/s Secure and these shall be installed in the newly commissioned grid substations (nearly 80 no.) for covering remaining AP feeders under AMR by suitably extending the scope of work of M/s Easum Reyolle.</p>	<p>data to the Commission. By 31.8.2011</p>	<p><i>installed 619 no. DCUs in 650 no. grids. 100% installation of AMR system on all AP feeders stands completed. However data is flowing for about 2800 no feeders. Complete data shall start flowing shortly. Further the balance AP feeders falling under Grid Sub Stations which are presently outside the scope of M/s ER shall also be brought under AMR on completion of MDAS roll out by M/s Spanco Ltd. M/s Secure Ltd under R-APDRP</i></p>

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Improvement in Quality of Service. (Dir.No.3)	The Commission sees no reason why the Successor Entities should not be able to place the Reliability Indices on the Web-site as directed. Final compliance may be intimated to the Commission by 30.06.2010.	Efforts are being made to update data monthly on Powercom/Transco website i.e. www.pspcl.in	The Commission directs and advises PSPCL to ensure regular updating of reliability indices.	Monthly reliability indices ending 10/2011 is available on PSPCL website i.e. www.pspcl.in
Two Part Tariff. (Dir.No.4)	Comprehensive proposal for Two Part Tariff and ToD Tariff as desired by the Commission is still awaited and should be furnished within two months of issue of Tariff Order.	Detailed scope of work and TOR has been drafted, Committee has been formed for vetting the scope of TOR and for short listing of contractors.	Commission notes with concern that the comprehensive proposal for two part and ToD Tariff required to be submitted by June, 2010 has been unduly delayed. PSPCL is directed to expedite the proposal.	Proposal for Two Part Tariff submitted to Commission along with ARR (FY 2012-13).
KVAH Tariff. (Dir.No.5)	The Commission reiterates its direction that the Successor Entities examine the	Detailed scope of work and TOR has been drafted, Committee has been formed for vetting the scope of TOR and for	Commission notes with concern that the directive has not been complied with. The proposal to be expedited.	Preliminary report received from consultant is under study. Report is expected to be submitted to Commission by 29.2.2012.

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Metering Plan. (Dir.No.6)	<p>implications of introduction of such tariff and submit requisite details at the earliest.</p> <p>The Successor Entity is directed to comply with the requirements of the Electricity Act, 2003 without any further delay as it is mandatory to have 100 % metering of all connections including AP.</p>	<p>short listing of contractors.</p> <p>Carrying out 100% metering of AP consumers not only involve heavy initial investment but also recurring expenditure for Monthly recording of readings. Due to geographical scattered area, the recording of more than 10 lac consumers every month is a gigantic exercise. Keeping in view the above Central Electricity Authority of the recommendations of Forum of Regulators have proposed to initiate R&D project for developing cost effective method for remote metering of AP</p>	<p>AMR of AP feeders may give an idea of AP consumption including distribution losses in feeders and transformers but the requirement of Electricity Act, 2003 mandates 100% metering of all connections including AP.</p>	<p>100% AP Metering Plan: Plan was submitted while furnishing status of directives ending 10/2011 during review meeting dated 25.11.2011. As per this plan meters are to be provided with remote metering facility. Initially a pilot project with 50 no. meters, with inbuilt modem for remote metering, is under execution in which 10 no. meters have been installed from which data can be received. Project is expected to be completed by 31.1.2012. After that same shall be extended to other AP consumers in phased manner over a period of five years. This shall, however, be subject to availability of funds as PSPCL is already in a financial crunch. Estimated cost for remote metering of about 12.5 Lac AP Consumers is Rs. 700 Crores. Central Electricity Authority (CEA) on the recommendations of Forum of Regulators had proposed to initiate R&D Project for developing cost effective method for remote metering of AP consumers. PSPCL had expressed its willingness to participate in the project but there</p>

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Employee Cost. (Dir.No.7)	Commission directs the Successor Entities to ensure that the study is completed and the action plan in the light of its findings finalized by 31.3.2011.The successor Entities	Work of finalizing the reports along with Incorporating the feedback of all the four wings i.e. Generation, Transmission, Distribution & Secretariat and other wings is being carried out by PWC. Recommendations of	The Commission directs PSPCL to finalize the Work Study Report on Manpower and submit implementation Action Plan to the Commission.	is no progress from CEA in this regard. Further, based on discussions with Hon'ble Commission on 27.5.11, Secretary/CEA, New Delhi was requested vide memo No.3854 dated 13.7.11 to relax the provision of 100% metering of AP category keeping in view the financial problems being faced by PSPCL. In response CEA had informed vide letter dated 2.11.2011 that partial relaxation can be provided by PSERC for a specified period. Copy of letter was furnished to Hon'ble Commission along with status of directives ending 10/2011. Response from commission is awaited.
	Recommendations of			M/s PwC, Consultant on Manpower Study, submitted report in March, 2011 which was discussed in the meeting of BoDs held on 13.4.2011. A committee of Director/Finance, Director/Distribution, and Director/HR was constituted for further examining the report and putting up to the Board. Meeting of committee members was held on 12.7.2011. In the meeting it was discussed that although the report had been submitted after detailed

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	<p>should also, as a part of the manpower study or otherwise finalize its views on the restructuring of various wings on a functional basis and prepare road map for its implementation by 31.3.2011. Simultaneously, the time frame to implement manpower saving technologies such as unmanned sub-stations, AMR of high end consumers, distribution SCADA etc. should also be considered and decided upon.</p>	<p>PwC are being discussed with Directors of respective wings of PSPCL/PSTCL. After this, the final report and action plan will be submitted by PWC. The manpower requirement norms will also be part of action plan. The details of manpower requirement norms, after approval from Board of Directors will be submitted. AMR of high end consumers (all HT consumers) is being taken up under implementation of IT plan as submitted under Directive No.1 above. The work on this project is being taken up by M/s. Secure, who are the meter data acquisition partner for this project</p>	<p>Pilot project of reorganization /functionalization of Distribution Organization executed at Patiala (urban model) and Nabha (rural model) be replicated across Punjab. A report detailing impact of this reorganization be prepared and submitted to the Commission along with PERT for implementation.</p>	<p>discussions with concerned Wings, any issue or concern not covered or otherwise may be discussed and finalized in the next meeting of the committee. The members of Committee will bring their inputs in next meeting. The concern of PSERC for immediate implementation of the Action Plan was also discussed in the meeting. The action plan as finalized shall be submitted after that.</p> <p>Pilot Project for Urban and Rural areas is already in place. Keeping in view the positive results of the pilot project reorganization of two more Distribution Divisions (Bathinda, Budhlada) and city areas of three more DS Circles(Jalandhar, City Amritsar & Sub urban Amritsar) has been done on functional basis recently.</p> <p>As already committed to Hon'ble Commission, the re-organization of Distribution Wing is targeted to be completed by 6/2013.</p>

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	<p>with M/s.Spanco Ltd. as the System Integrator. Earnest efforts are being made to follow up with M/s. Spanco Ltd. to complete the sub activity on time.</p> <p>Status of Pilot Project at Patiala :</p> <ul style="list-style-type: none"> * DGPS Survey : Ground Control Points and Base Point Stations have been setup for carrying out DGPS survey. Imageries of 44 out of 47 towns has been received while that of rest of the towns will be received within few days. * Survey of Patiala offices completed for setting up of Virtual Private Network and Ascertainment of hardware requirement etc. 	<p>Manpower saving technologies like AMR of high end consumers, distribution SCADA under implementation by PSPCL to be expedited.</p> <p>Plan to implement unmanned substation be drawn and cost benefit analysis of unmanned sub-stations be submitted to the Commission along with a plan for their implementation.</p>	<p>Work of AMR of high end consumers (all HT consumers 11,000 No.) is taken up by M/s. Secure, who are the meter data acquisition partner for this project with M/s Spanco Ltd. as System Integrator. Status of <i>AMR project of all H.T. consumers already taken up under R-APDRP (Part-A) is as per Annexure-W</i></p> <p>Entire work is scheduled/expected to be <i>completed by 30.7.2012. Work in Patiala completed on 30.12.2011.</i></p> <p>Distribution SCADA/DMS: Work is to be carried out in 3 No. towns under R-APDRP, i.e Ludhiana, Jalandhar & Amritsar. <i>Progress is indicated in Annexure-W enclosed. Work is expected to be completed by 30.4.2013.</i></p> <p>At present there is no plan to implement unmanned sub stations as PSPCL is facing financial crunch.</p>	

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	<p>Network Service Providers (NBSPs) Agreements have been signed for Primary bandwidth, secondary bandwidth and GPRS connectivity.</p> <p>* First Iteration of Design "To Be" process has been completed.</p> <p>* Survey of substations and HT consumers completed by Energy Audit and AMR vendor-M/s Secure Ltd. as a part of EA & AMR project under R-APDRP.</p> <p>* Expected date of completion of the project in Patiala (pilot town) is 29.4.2011.</p> <p>Regarding distribution SCADA/DMS project is being initiated in 3 No. eligible towns under R-APDRP i.e Ludhiana,</p>	<p>Bandwidth Providers Tripartite Agreements have been signed for Primary bandwidth, secondary bandwidth and GPRS connectivity.</p> <p>* First Iteration of Design "To Be" process has been completed.</p> <p>* Survey of substations and HT consumers completed by Energy Audit and AMR vendor-M/s Secure Ltd. as a part of EA & AMR project under R-APDRP.</p> <p>* Expected date of completion of the project in Patiala (pilot town) is 29.4.2011.</p> <p>Regarding distribution SCADA/DMS project is being initiated in 3 No. eligible towns under R-APDRP i.e Ludhiana,</p>	<p>Adequate training to officers and staff be provided to meet the mandates of National Training Policy, erstwhile PSEB's approved Training Policy and provisions of Indian Electricity Rules, 1956 (as amended from time to time).</p> <p>Application of modern management techniques across PSPCL to optimize its functioning and efficiency be undertaken. HRD wing may establish a dedicated cell for this purpose. Implementation of quality circles, 5S, six sigma and Organization</p>	<p>In pursuance to National Training Policy PSEB (Now PSPCL) has already framed its training policy which is being followed since year 2007-08 to the extent possible with the available infrastructure, During the year 2010-11, 76350 Training man-days were achieved. It has been planned to achieve a target of 80000 training man-days during the year 2011-12. To achieve this comprehensive Annual Training Calendar (for both In-house and Out-sourced Training) was prepared till November, 2011. Approximately 61,000 man days of training has been imparted.</p> <p>A dedicated cell named ODM (Organizational Development & Management Development) attached with CE/HRD has been established for introduction and implementation of Modern Management Techniques.</p> <p>Further, following important works have been initiated :</p> <ul style="list-style-type: none"> • Executive Committee of CMD, Full Time Directors and all HODs constituted for

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	<p>Jalandhar & Amritsar.</p> <p>The progress is as under :-</p> <p>Regarding SCADA/DMS project under RAPDRP, M/s. NDLP, have been issued Work Order on 12.8.2010 the "As Is" study has been submitted by M/s NDPL for Amritsar, Ludhiana and Jalandhar cities. Based on the field survey the DPR is likely to be submitted by consultant shortly.</p>	<p>Development (OD), etc be made in time bound manner to improve customer service, reduce costs, increase efficiency and optimize manpower output.</p>	<p>strategic discussions and sharing of ideas for framing short term/long term plans. Meeting of committee was held in 11/2010.</p> <ul style="list-style-type: none"> • Vision, mission objectives and Core values have been finalized by BoD and circulated. • For effective interaction with trade association, unions for maintaining cordial relations, Joint Productivity Council has been constituted. • 3 No. workshops were organized for Leaders of Associations/council & Trade Union. • 13 No. workshops involving 338 officers of organizational Development have already been conducted during the year 2010-11. • Workshops are being continued in year 2011-12 also and it is planned to cover 500 Nos. officers. • PSPCL has in principal approved the implementation of concept of Quality Circle & 5S. As a pilot project 14 No. Quality Circles have been established in PSPCL and training for the members and facilitators of these Quality Circles has 	

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Receivables (Dir.No.8)	Commission notes that total receivables of the Board on 31.3.2009 stood at Rs.497.95 crore which have been reduced to Rs.478.13 crore on 30.9.2009 as per details brought out in Ann.P-1. Position in respect of outstanding dues of various departments of GoP. and other	Clarifications regarding submitted Statement showing age-wise analysis of defaulting amount ending 31.3.2010 (un-audited) stands Submitted vide office memo No. 2595 dated.7.10.2010. Defaulting amount statement ending 3/2010 (audited) and 9/2010 is enclosed as Annexure-J.	The Commission observes that there is substantial increase in receivables in all the categories except DSC cases. The defaulting amount of Rs.608.35 crore as on 30-9-2010 (audited) has increased to Rs. 655.26 crore as on 31-12-2010 (unaudited). Efforts need to be made to reduce the receivables.	<p>already been conducted. This concept will be further replicated in due course of time.</p> <ul style="list-style-type: none"> Two nos. workshops named 'Ik Yatan' have been conducted to bring PSPCL & Stake holders on common platform to understand the problems of each other & found solutions. This concept will be further propagated. Three No.1 day workshops were conducted for implementation of Quality Circles & 5S by ODMD Cell at TTI Patiala and GGSSTP Ropar. 																		
Category wise Defaulting amount ending 11/2011 (Rs. in lac.) is detailed as under :				<table border="1" data-bbox="954 193 1273 768"> <thead> <tr> <th>Category</th> <th>End. March 2011(audited)</th> <th>Ending 11/2011 (un-audited)</th> </tr> </thead> <tbody> <tr> <td>ISC</td> <td>18359.79</td> <td>19337.02</td> </tr> <tr> <td>GSC</td> <td>28773.87</td> <td>28465.38</td> </tr> <tr> <td>AP</td> <td>29208.23</td> <td>27233.38</td> </tr> <tr> <td>Other</td> <td>778.34</td> <td>398.91</td> </tr> <tr> <td>Total</td> <td>77120.23</td> <td>75434.69</td> </tr> </tbody> </table> <p><i>Defaulting amount statement showing status of defaulting amount ending 3/2011 (audited)</i></p>	Category	End. March 2011(audited)	Ending 11/2011 (un-audited)	ISC	18359.79	19337.02	GSC	28773.87	28465.38	AP	29208.23	27233.38	Other	778.34	398.91	Total	77120.23	75434.69
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	<p>categories is by and large the same. Commission notes that DSC and PDCO cases are internally dealt with and it should be possible to reduce the pendency of such cases and thereby substantially reduce the outstanding arrears. On the other hand, latest data reveals that there has been a marginal increase in the out standings of both these Categories. Even with reduced receivables as on 30/09/2009, the recoverable amount stands at the same level as at the end of 2007-08 and the Successor Entities clearly needs to put</p>			<p><i>vis a vis defaulting amount ending 11/2011 (unaudited) is enclosed as Annexure-Y.</i></p> <p>Earnest efforts are being made to recover the defaulting amount. Stringent instructions for liquidating the defaulting amount have been issued to all concerned offices.</p>

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<p>Management Information System (MIS). (Dir.No.9)</p>	<p>in a far greater effort to bring down the receivables to the barest minimum. Commission notes that development of MIS is a part of the IT plan to be rolled out shortly.</p>	<p>The "As Is" study for design phase of application development has been finalized with certain observations. The first iteration of "To Be" design and development phase has been completed. Information of RIMS for Generation and Transmission stands Submitted to Secy/PSERC vide this office memo No.2547 dated 23.9.2010.</p>	<p>Commission notes that development of MIS is a part of IT implementation. Expeditious implementation of IT plan should therefore be a priority.</p>	<p>IT implementation under R-APDRP (Part-A) IT implementation under R-APDRP (Part-A) for 47 No. towns as well as MIS package and also AMR of high end consumers is targeted to be completed by 31.5.12. SCADA implementation under R-APDRP (Part-A) in three towns (Ludhiana, Jalandhar & Amritsar) is targeted to be completed by 30.4.2013. <i>Activity-wise status/target is as per Ann-E</i></p> <p>Information of RIMS for the year 2010-11, in respect of Generation, Renewables and Rural Electrification submitted vide this office memo No.2951 dated 30.9.2011.</p>
<p>Energy Conservation. (Dir.No.10)</p>	<p>The Commission notes that the Board is taking a few random steps towards effecting energy conservation but has yet to draw a comprehensive DSM plan as earlier</p>	<p>i)PSEB (now PSPCL) had already approved a scheme named "Bachat Lamp Yojna" to replace present inefficient incandescent lamps with CFLs of all domestic consumers in a phased manner. Three firms</p>	<p>The Commission notes that the utility had been advised to draw a comprehensive DSM plan by July, 2010. However, the Commission observes with concern the lack of compliance in this</p>	<p>Comments of PSPCL on DSM regulations have already been submitted to PSERC. DSM plan will be prepared after approval of DSM regulations. Agricultural Demand Side Management Pilot Project covering 6 no. feeders of Mukatsar & Tarn Taran Circles is being implemented. BEE has submitted DPR and PSPCL have decided to</p>

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	<p>directed. The Commission would like the Successor Entities to submit such a plan within three months. At the same time, high priority needs to be assigned to complete the pilot project for improving the efficiency of AP pump sets and prepare a plan for its phased roll out in the state.</p>	<p>were short listed for implementation of BLY in 13 circles under Phase-I. Two firms failed to execute bilateral agreement & LOI has been cancelled. Bilateral agreement with M/s CQC for implementation of BLY in 5 circles is being signed, also LOI for remaining 8 circles has been issued to M/s CQC.</p> <p>For the remaining 7 circles, matter has been taken up with Energy Efficiency Services Ltd. (EESL) a central Govt. Agency for execution of BLY under phase-II & bilateral agreement may be signed shortly.</p> <p>After implementation of the scheme it is estimated that more than 1500 MU's will be saved and reduction in</p>	<p>regard, which needs to be expedited.</p> <p>A time bound program to replace 100 % AP sets with efficient pump sets cross the State be laid down and implemented.</p>	<p>implement the project under Hybrid Mode. RFP, for engagement of ESCO was issued on 10.2.2011 but only one bid was received and that too was rejected being non responsive bid. Fresh RFP was floated with due date 23.6.2011. No bid was received. Date was extended to 12.7.2011. However, again no bid was received. A meeting with various manufactures in the present of BEE officials to discuss how to proceed further for implementation of the pilot project was held at BEE office, New Delhi on 17.8.2011. There was consensus to split the project in two parts, one having two feeders of Muktsar circle having predominantly mono block motors and others in Tarn Taran circle having predominantly submersible motors. Revised DPRs are being framed by the consultants. Next decisions to be taken after approval of competent authority,</p> <p>Detailed PERT chart is as per Annexure-S.</p> <p>Updated progress status for infrastructure improvement projects undertaken by PSPCL are as per Annexure-X-1 to F-3</p>

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		<p>peak will be 500 MW approximately.</p> <p>ii) Agricultural Demand Side Management programme is launched by BEE to replace present inefficient pump sets in which initially 2081 pumps sets may be replaced as a pilot project. In this regard 6 No.11 KV Feeders of Muktsar and Tarn Taran Circles (3 each) have been selected for pilot project. Field study has already been completed for these 11 KV Feeders and DPRs have been submitted by the Consultants and PSPCL management has approved the implementation of agricultural DSM Pilot Project of six selected feeder of Mukatsar and Tarntarn</p>		

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Details of Fixed Assets (Dir.No.11)	Details of Fixed assets added as well as written off during the particular year to be furnished.	circles under Hybrid Model. In this regard further action is being taken shortly. Updated progress status for DSM targets and progress proposal for HVDS in AP, low cost measures and Power Factor Management are enclosed as per Annexure-K.	All out efforts should be made to comply with the directive.	Consultants had been appointed for preparation of fixed assets registers (FAR), same have been prepared and are under active consideration of the committee to finalize the report of consultant M/s Sushil Jeetpuria & Associate. Verification is expected to be completed by 30.06.2012. Unaudited statement ending 03/2011 of Fixed assets added as well as written off during 17.4.2010 to 31.3.2011 is enclosed as Annexure-Z.
Power Purchase	The Commission reiterated that the	Documents are enclosed as Annexure-N.	The Commission reiterates that such	PSPCL assures Hon'ble Commission that the power shall be purchased to the barest minimum

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from Traders and through UL. (Dir.No.13)	successor entities needs to purchase power in judicious manner and also resort to demand side management practices, if necessary to maintain its commercial viability.		purchase be kept within the cost approved. Also, power be purchased in a judicious manner	in judicious manner within the cost approved by Hon'ble Commission unless otherwise required to be purchased under force majeure conditions. <i>Monthly power purchase data is being furnished to Commission regularly.</i>
Cost of supply and Cross subsidy (Dir.No.14)	In the light of APTEL direction, the successor entities need to ensure that the process of engaging consultant for carrying out the proposed study is expedited and the finding of the study as well its own views thereon are submitted to the Commission as early as possible.	M/s The Energy and Resources Institute (TERI) New Delhi has been appointed on dated 23.9.2010 to conduct cost of supply study.	The Commission directs Utility to expedite the study and submit findings of the study to the Commission at the earliest	M/s The Energy and Resources Institute (TERI) New Delhi has been appointed as consultant to conduct cost of supply study. They have submitted draft report on methodology to arrive at cost of service. A committee headed by Director/Commercial has been constituted to finalize the methodology. Consultant made presentation on 3.3.2011 before the committee members on proposed methodology. A presentation on the methodology to be adopted for this study was made before Hon'ble Commission on 8, August, 2011. Based on feedback during presentations consultant had sought additional field data which has been furnished to them.

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				<i>A CoS model is being prepared by the consultant and is to be finalized by 04/2012.</i>

Annexures