

**GOVERNMENT OF ARUNACHAL PRADESH  
DEPARTMENT OF POWER**

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Office of the Chief Engineer (Power)  
Western Electrical Zone, Vidyut Bhawan  
Itanagar: 791 111 (A.P.)

No: CE (P)/WEZ/SLDC/RESOURCE/2011-12/4397-98 Dated. Itanagar The 3<sup>th</sup> 1 2013

To,  
Sri Surinder Sing Sur, Deputy Advisor (Power)  
Planning Commission (Power & Energy Division)  
Room No. 305, Yojna Bhawan,  
New Delhi - 110001

**Sub: Assessment of Financial Resources for State Electricity Boards/Electricity Deptts/State Power Utilities-Annual Plan (2012-14).**

**Ref: This office letter No. CE (P)/WEZ/SLDC/RESOURCE/2011-12/4012-15 dtd 27/11/2012**

Sir,

The reply of observations/queries raised from your end at the time of submission of Resource Assessment for 2013-14 is furnished below and corrected copies of same are enclosed herewith for further necessary action at your end please.


1. In Proforma - 1 (Page-3) SI No. 11 (ii) the projection of 2013-14 is based on the anticipated commissioning of the power projects in NER.

Name of Project		Arunachal Share
1.	740MW Palatana Gas Based Project	22MW
2.	101MW Pare Hydro Electric Project	12MW
Total		34MW
Annual Generation Anticipated @ 7MU/Annum/MW =34MW X 60% Plant Load factor X 7MU =140 MU/Annum (Approx.)		

2. In Proforma - 4 (Page-17) the data has been corrected.
3. In Proforma - 6 Page 21 regarding point of connection, a foot note has been given for your information please.
4. In Proforma - 6 Page 22 regarding RHEP Rate (Paisa/Kwh) it is to mentioned that Central Generating Utilities practice "Multi Year Tariff System" and the tariff is decided by CERC. The high tariff for 2011-12 is due to revised tariff effective from 2008-09 and supplementary bills thereof. For 2012-13 figure is corrected.
5. In Proforma - 12 (Last Page) the data has been corrected.

Encl: As stated above.

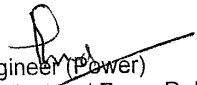
Yours faithfully

  
Chief Engineer (Power)  
Western Electrical Zone, DoP,  
Vidyut Bhawan, Itanagar

No: CE (P)/WEZ/SLDC/RESOURCE/2011-12/4397-98 Dated. Itanagar The 3<sup>th</sup> 1 2013

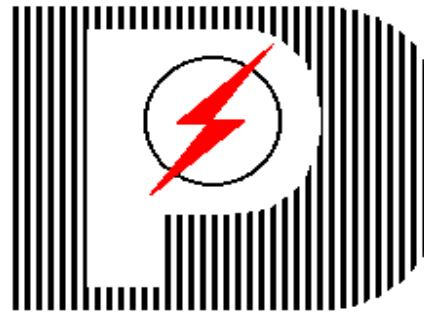
Copy to:-

1. The Chief Engineer(P), EEZ/<sup>EEZ</sup> Department of Power, Itanagar for information please.

  
Chief Engineer (Power)  
Western Electrical Zone, DoP,  
Vidyut Bhawan, Itanagar

# **RESOURCE ASSESSMENT**

**2013 - 14**



**DEPARTMENT OF POWER**

**ARUNACHAL PRADESH**

## Resources Discussions - Annual Plan 2012 - 13

## Summary Statement

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
1	Installed Capacity (MW) at the end of the year (Details in Proforma - 3)						
i)	Hydel	41.57	43.84	59.22	59.22	59.22	125.135
ii)	Stream						
iii)	Gas						
iv)	Diesel	25.00	15.98	19.57	19.57	19.57	10.00
v)	Others (wind etc.)						
	<b>Total of 1:-</b>	<b>66.57</b>	<b>59.82</b>	<b>78.79</b>	<b>78.79</b>	<b>78.79</b>	<b>135.14</b>
2	Gross Generation inclusive of auxiliary consumption (MKwh) (Details in Proforma - 3)						
i)	Hydel	54.73	57.62	58.46	58.46	58.46	95.00
ii)	Stream						
iii)	Gas						
iv)	Diesel	2.59	2.11	2.57	2.57	2.57	1.50
v)	Others ( Wind etc., free power)	122.30	167.98	116.40	116.40	116.40	175.00
	<b>Total of 2:-</b>	<b>179.62</b>	<b>227.71</b>	<b>177.43</b>	<b>177.43</b>	<b>177.43</b>	<b>271.50</b>
3	Overall Plant availability (Thermal %)						

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh							
SI. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
4	Overall PLF (Thermal) (%)						
5	Auxiliary consumption (MKwh) with % in brackets below	0.86%	0.64%	1.58%	1.58%	1.58%	1.22%
i)	Hydel	1.35	1.35	2.69	2.69	2.69	3.20
ii)	Steam						
iii)	Gas						
iv)	Diesel	0.2	0.115	0.115	0.115	0.115	0.10
v)	Other (wind etc.)						
	<b>Total of 5 :-</b>	<b>1.55</b>	<b>1.465</b>	<b>2.805</b>	<b>2.805</b>	<b>2.805</b>	<b>3.30</b>
6	<b>Net Generation (2 - 5) (MKwh)</b>	<b>178.07</b>	<b>226.25</b>	<b>174.63</b>	<b>174.63</b>	<b>174.63</b>	<b>268.20</b>
7	Total Power Purchased (MKwh) (Proforma - 6)	<b>310.10</b>	<b>400.94</b>	<b>483.81</b>	<b>483.81</b>	<b>483.81</b>	<b>637.81</b>
i)	Purchase from Central Sector						
ii)	Purchase from IPPs/Private Sector						
iii)	Purchase from State Utility						
iv)	Purchase from others						
8	Total Energy availability (6 + 7) (Mkwh)	<b>488.17</b>	<b>627.19</b>	<b>658.44</b>	<b>658.44</b>	<b>658.44</b>	<b>906.01</b>
9	T & D Losses (Mkwh)						
i)	Transmission Losses	252.00	308.00	348.40	264.00	266.00	280.00

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh							
Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
ii)	Distribution Losses						
	<b>Total (i) and (ii) :-</b>	<b>252.00</b>	<b>308.00</b>	<b>348.40</b>	<b>264.00</b>	<b>266.00</b>	<b>280.00</b>
10	% of T & D Losses (9 as of 8)	<b>51.62%</b>	<b>49.11%</b>	<b>52.91%</b>	<b>40.10%</b>	<b>40.40%</b>	<b>30.90%</b>
11	Energy available for sale (Details in Proforma - 4 (MKwh)	237.72	319.90	310.04	342.76	377.04	526.75
i)	Within State (tally with proforma - 4)	158.58	187.55	244.67	290.70	319.77	351.75
ii)	Outside State (Proforama - 4)	79.14	132.35	65.37	52.06	57.27	175.00
	<b>Total (i), (ii) and (iii) :-</b>	<b>237.72</b>	<b>319.90</b>	<b>310.04</b>	<b>342.76</b>	<b>377.04</b>	<b>526.75</b>
12	Average rate for Sale (Paise/KWh)						
i)	Within State (Proforma - 4)	283	323	375	394	394	412
ii)	Outside State (Proforma - 4)	390	280	270	300	300	350
13	Revenue Receipts (Rs. Crore)						
a	Revenue from Sale						
i)	Within State (Proforma - 4)	47.25	59.04	81.35	101.01	111.11	127.67
ii)	Outside State (Proforma - 4)	30.89	37.06	17.65	15.62	17.18	61.25
	<b>Sub Total of (i), (ii) ,(iii) &amp; (IV) :-</b>	<b>78.14</b>	<b>96.10</b>	<b>99.00</b>	<b>116.63</b>	<b>128.29</b>	<b>188.92</b>
b	Misc. receipts	0.30	0.35	0.35	0.35	0.40	0.45

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Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
c	Subsidy						
	i) Subsidy for Domestic Consumers						
	ii) Subsidy for Agriculture Consumers						
	iii) Other Subsidy if any						
	<b>Sub Total of (i), (ii) &amp; (iii) :-</b>						
	<b>Total of - 13 :-</b>	<b>78.44</b>	<b>96.45</b>	<b>99.35</b>	<b>116.98</b>	<b>128.69</b>	<b>189.37</b>
14	Revenue Expenditure (Rs. Crore)						
	i) Fuel (Details in Proforma - 5)	3.84	3.33	3.52	4.11	4.35	4.75
	ii) Power Purchased (Details in Proforma - 6)	95.35	112.97	210.64	201.86	203.86	256.21
	iii) O & M Expenses (Details in Proforma - 7)	33.00	36.00	25.87	30.87	27.00	32.00
	iv) Others (Proforma - 8)	141.48	109.45	112.18	115.32	117.18	127.18
	<b>Total of 14 :-</b>	<b>273.66</b>	<b>261.75</b>	<b>352.21</b>	<b>352.16</b>	<b>352.39</b>	<b>420.14</b>
15	<b>Gross operating Surplus / Deficit (13 - 14)</b>	<b>-195.22</b>	<b>-165.30</b>	<b>-252.86</b>	<b>-235.18</b>	<b>-223.70</b>	<b>-230.77</b>
16	Depreciation due (Rs. Crore)						
17	<b>Net operating Surplus after depreciation (15 - 16)</b>	<b>-195.22</b>	<b>-165.30</b>	<b>-252.86</b>	<b>-235.18</b>	<b>-223.70</b>	<b>-230.77</b>
18	Interest payable to Industrial Creditors (Rs. Cr.)						
	i) On Market Loans						

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh							
SI. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
	ii) On LIC Loans						
	iii) On REC Loans (Proforma - 8)	16.90	17.00	10.93	11.00	11.00	14.00
	iv) On PFC Loans						
	v) Other Loans						
	<b>Total of 18 :-</b>	<b>16.90</b>	<b>17.00</b>	<b>10.93</b>	<b>11.00</b>	<b>11.00</b>	<b>14.00</b>
19	Net operating Surplus / Deficit after interest to Institutions. Creditors (17 - 18)	<b>-212.12</b>	<b>-182.30</b>	<b>-263.79</b>	<b>-246.18</b>	<b>-234.70</b>	<b>-244.77</b>
20	Interest due to State Govt. (Rs. Crore)						
21	Commercial Profit (+) / Loss (-) with subsidy (19 - 20) (Rs. Cr.)	<b>-212.12</b>	<b>-182.30</b>	<b>-263.79</b>	<b>-246.18</b>	<b>-234.70</b>	<b>-244.77</b>
22	Commercial Profit (+) / Loss (-) without subsidy (21 - 13(c)) (Rs. Crore)						
23	Interest actually paid to State Govt.						
24	Retained Surplus (+) / Deficit (-) (19 - 23)	<b>-212.12</b>	<b>-182.30</b>	<b>-263.79</b>	<b>-246.18</b>	<b>-234.70</b>	<b>-244.77</b>
25	Internal resources (Rs. Crore)						
i)	Retained Revenue Surplus / Deficit	-212.12	-182.30	-263.79	-246.18	-234.70	-244.77
ii)	Depreciation						

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh							
Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
iii)	Debts, Deposits & Others Receipts (Net)						
iv)	Provident fund / Pension fund (Net)						
v)	Consumers Contribution						
vi)	Subvention from Govt.						
vii)	Draw-down of inventory						
viii)	Drawdown of cash balances						
ix)	Other, if any						
	<b>Gross Internal Resources at current rates of Tariff (25)</b>	<b>-212.12</b>	<b>-182.30</b>	<b>-263.79</b>	<b>-246.18</b>	<b>-234.70</b>	<b>-244.77</b>
26	Repayment of Loans						
	ii) To LIC						
	iii) To REC	13.76	9.84	9.71	9.00	9.00	9.50
	iii) To PFC						
	iv) To State Govt. if any						
	v) Others						
	<b>Total of 26 :-</b>					<b>9.00</b>	
27	Net Internal Resources at Current Rate / Tariff (24 - 25) (Rs.Cr.)	<b>-212.12</b>	<b>-182.30</b>	<b>-263.79</b>	<b>-246.18</b>	<b>-243.70</b>	<b>-244.77</b>
28							
i)	Net fixed assets in services at the beginning of the year (Rs. Crore) (Proforma - 8)	1150.00	1265.00	1440.32	1557.80	1557.80	1700.00
ii)	Cumulative depreciation at the beginning of the year (Rs. Crore)	45.00	50.00	50.00	50.00	50.00	50.00

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SI. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
iii)	Cumulative depreciation at the end of the year (Rs. Crore)	45.00	50.00	50.00	50.00	50.00	50.00
iv)	Breakup of interest due to State Govt. & Instt. Creditors at end of the year on account of						
a	Works in progress						
b	Completed works						
	Total of (a + b)						
v)	viii) State Electricity duty (SEB) Collection (Rs. Crore)						
vi)	State Electricity duty (paise/unit) released from consumers who pay such duty						
vii)	State duty per unit of the Total sales (Paise)						
viii)	No. of employees of the Board at the end of the year	9700	9800	9922	9922	10000	10000
a	Technical Staff						
b	Non - Technical Staff						
ix)	No. of employees per million Kwh Sold	40.80	30.63	32.00	28.95	26.52	18.98
x)	No. of consumers at the end of the year	157031	174647	184403	193623	193623	221059
xi)	No. of employees per 1000 consumers	61.77	56.11	53.81	51.24	51.65	45.24
xii)	a) Subsidy as claimed by SEB at the end of the year (Rs. Crore)						
	b) Subsidy received by SEB at the end of the year (Rs. Crore)						
	c) Balance due (Rs. Crore)						
xiii)	a) Taxes levied by the State Govt. on the consumers in addition to the tariff (Rs. Crore)						
	b) Tax levied per unit of energy sold (Paise/unit)						

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh							
Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
xiv)	Wage Bill						
	c) For Technical Staff	45.00	67.41	104.53	115.00	115.00	120.00
	d) For General Staff						
xv)	Outstanding interest due to State Govt. at the end of the year						
xvi)	Equity capital, if any						
xvii)	a) Date of Tariff revision (indicate the date in each year)			2012			
	b) Tariff award by SERC Yes / No			no			
	(Category wise tariff details as per tariff award to be given in Proforma - 10)						
xviii)	Revenue arrears at the end of the year (Rs. Cr.)	38.00	42.00	60.48	50.00	52.00	55
a	Amount realisable (excluding Bad Debt)						
b	As % of sales revenue of the year	48%	44%	61%	43%	40%	29%
c	Arrears of the Central Govt. / State Govt. Offices / Undertaking						
d	Arrears from bulk consumers / other consumers						
e	Arrears under dispute in the courts						
xix	Tax on Income, if any						
xx	Loan outstanding at the end of the year (Rs. Cr.)						
a	State Govt.						
b	Market Loan						
c	LIC Loan						
d	REC Loan	89.48	87.57	87.57	77.00	77.00	67.00
e	PFC Loan						

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh							
SI. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14 Annual Plan
		A	A	A	BE	RE	
1	2	3	4	5	6	7	8
f	Other Loans						
xxi)	Inventory on Revenue (Maintenance) Account at the end of the year						
a	Coal						
b	Oil						
c	Others						
d	Total (Rs. Crore)						
e	% of inventory to sales revenue of the year						
xxii)	Amount due from ;other Board / Agencies						
xxiv)	Loans anctioned during the year (Rs. Crore)						
a	State Govt.						
b	Market Borrowings						
c	LIC						
d	REC						
e	PFC						
f	Others						
xxv)	No. of rural household electrified						
a	RGGVY	2025	11548	13847	48987	48987	
b	Non-RGGVY						
c	BPL	921	9205	12135	29425	29425	
Note:- Wherever actual figures are not availabale, projections may be given.							

## Resources Discussions - Annual Plan 2013 - 14

## Financing of Capital Expenditure

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14
		A	A	A	BE	RE	AP
1	2	3	4	5	6	7	8
1	Block Capital (Rs. Crore)						
a	Capital Employed at the beginning of the year						
i)	On completed works						
ii)	On works in progress						
b	Capital Employed during the year						
i)	On completed works	140.00	154.00	129.51	165.00	170	185
ii)	On works in progress						
	Total of (a) & (b) :-	<b>140.00</b>	<b>154.00</b>	<b>129.51</b>	<b>165.00</b>	<b>170.00</b>	<b>185.00</b>
2	Financing of Capital Expenditure						
a	State Govt. Grants (APDRP / RGGVY etc.)						
b	i) State Govt. Loans (Gross)						
	ii) Repayment, if any						
	Net Loans (i - ii)						
c	i) Market borrowings (Gross)						
	ii) Repayment, if any						
	iii) Net Loans ( i - ii )						
d	i) Borrowings from LIC (Gross)						
	ii) Repayment, if any						

Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14
		A	A	A	BE	RE	AP
1	2	3	4	5	6	7	8
	Net Loans (i - ii)						
e	i) Borrowings from REC (Gross)	3.00	11.18	2.00			
	ii) Repayment, if any						
	Net Loans (i - ii)	3.00	11.18	2.00			
f	i) Borrowing from PFC (Gross)						
	ii) Repayment, if any						
	Net Loans (i - ii)						
g	i) Borrowing from other (Gross) NABARD						
	ii) Repayment, if any						
	Net Loans (i - ii)						
3	Total capital receipts for Financing the Capital Expenditure	140.00	154.00	129.51	165.00	170.00	185.00
4	Internal Resources (after providing for repayment of loan)						
5	Total resources for Capital Expenditure (3 + 4)	140.00	154.00	129.51	165.00	170.00	185.00
6	Capital Expenditure						
i)	Plan	140.00	154.00	129.51	165.00	170.00	185.00
ii)	Outside Plan	200.00	220	110.81	240.00	242.00	242.00
	Total (I + ii) :-	340.00	374.00	240.32	405.00	412.00	427.00

Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13		2013 - 14
		A	A	A	BE	RE	AP
1	2	3	4	5	6	7	8
7	Capital structure						
i)	Equity Portion						
ii)	Loan portion						
iii)	Debt equity ratio before conversion of loan to equity						
iv)	Loan converted into equity						
v)	Debt equity ratio after conversion						
8	Equity diluted in the year						
9	Share held by the State Govt. after dilution						

## Resources Discussions - Annual Plan 2013 - 14

## Performance of Generating Station

Name of the Power Utility / SEB / ED ; - Department of Power, Arunachal Pradesh

Sl. No.	Name of Station	2009 - 10					2010 - 11				
		Inst. Cap. (MW)	Energy Generation (MKwh)	Cost of Gen. (Rs./Kwh)	Plant Availability %	Plant Load Factor (5)	Inst. Cap. (MW)	Energy Generation (MKwh)	Cost of Gen. (Rs./Kwh)	Plant Availability %	Plant Load Factor (5)
1	2	3	4	5	6	7	8	9	10	11	12
1	Hydel	41.57	54.73		50%	17%	43.84	57.62		60%	17%
2	Diesel	25.00	2.59		40%	2%	15.98	2.11		44%	2%
3	Others / Inputs / UI		122.30					167.98			
	<b>Total :-</b>		<b>179.62</b>					<b>227.71</b>			

## Resources Discussions - Annual Plan 2013 - 14

## Performance on Generating Station

Name of the Power Utility / SEI

Department of Power, Arunachal Pradesh

Sl. No.	Name of Station	2011 - 12					2012 - 13 (BE)				
		Inst. Cap. (MW)	Energy Generation (MKwh)	Cost of Gen. (Rs./Kwh)	Plant Availability %	Plant Load Factor (5)	Inst. Cap. (MW)	Energy Generation (MKwh)	Cost of Gen. (Rs./Kwh)	Plant Availability %	Plant Load Factor (5)
1	2	13	14	15	16	17	18	19	20	21	22
1	Hydel	59.22	58.46		60%	17%	59.22	58.46		60%	17%
2	Diesel	19.57	2.57		44%	2%	19.57	2.57		44%	2%
3	Others / Inputs / UI		116.40					116.40			
	<b>Total :-</b>		<b>177.43</b>					<b>177.43</b>			

## Resources Discussions - Annual Plan 2013 - 14

## Performance on Generating Station

Name of the Power Utility / SEI

Department of Power, Arunachal Pradesh

Sl. No.	Name of Station	2012 - 13 (RE)					2013 - 14 AP				
		Inst. Cap. (MW)	Energy Generation (MKwh)	Cost of Gen. (Rs./Kwh)	Plant Availability %	Plant Load Factor (5)	Inst. Cap. (MW)	Energy Generation (MKwh)	Cost of Gen. (Rs./Kwh)	Plant Availability %	Plant Load Factor (5)
1	2						23	24	25	26	27
1	Hydel	59.22	58.46		65%	20%	125.14	95.00		65%	20%
2	Diesel	19.57	2.57		50%	2%	10.00	1.50		50%	2%
3	Others / Inputs / UI		116.40					175.00			
	<b>Total :-</b>		<b>177.43</b>								



Resources Discussions - Annual Plan 2013 - 14

Category - wise Energy Sale / Average Rate per Unit and Revenue  
(including fuel surcharge recovery but excluding state electricity duty)

Name of the Power Utility / Neme of the Power Utility / SEB / ED : - Department of Power, Arunachal PrDESH

Sl. No.	Category of Consumers	2012 - 13 (BE)				2012 - 13 (RE)				2013 - 14			
		Energy Sold	Aver. Rate	Rev.	No. of Con.	Energy Sold	Aver. Rate	Rev.	No. of Con.	Energy Sold	Aver. Rate	Rev.	No. of Con.
1	2	15	16	17	18	19	20	21	22	23	24	25	26
1	Domestic	119.67	346	41.41	147585	131.64	346	45.55	147585	144.80	360	52.13	170000
2	Agriculture												
3	a) Industry LT	9.41	400	3.76	265	10.35	400	4.14	265	11.38	420	4.78	265
	b) Industry HT	119.57	315	37.66	7	131.53	315	41.43	7	144.68	330	47.74	7
4	Bulk												
5	Commercial	23.15	430	9.95	17982	25.46	430	10.95	17982	28.01	450	12.60	19900
6	Public Lighting	8.20	435	3.57	1887	9.02	435	3.92	1887	9.92	455	4.51	2400
7	Public Water Works	10.71	435	4.66	25896	11.79	435	5.13	25896	12.96	455	5.90	28486
8	Others												
	Total (1 to 8) :-	<b>290.70</b>	<b>394</b>	<b>101.01</b>	193622	<b>319.77</b>	394	<b>111.11</b>	<b>193622</b>	<b>351.75</b>	<b>412</b>	<b>127.67</b>	<b>221058</b>
9	Outside the State	52.06	300	15.62	1	57.27	300	17.18	1	175.00	350	61.25	1
10	Grand Total :-	<b>342.76</b>		<b>116.63</b>	<b>193623</b>	<b>377.04</b>		<b>128.29</b>	<b>193623</b>	<b>526.75</b>		<b>188.92</b>	<b>221059</b>
	* Note :- Number of consume												
	* Please also indicate % of to												

## Resources Discussions - Annual Plan 2013 - 14

## Expenditure on Fuel (Coal / Lignite / Diesel)

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Name of the Thermal Station	Energy Gen. MKwh	Consumption Coal		Consumption Oil		Cost (Rs.)		Total Fuel Cost			Cost / Kwh		
			Total	KG/Kwh	Total	ml/MKwh	Coal	Oil	Coal	Oil	Total	Coal	Oil	Total
			(000) MT		Kilo Litre		(Per MT)	(Per KL)	(Rs. Crore)			(Paise)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>For the Year 2009 - 10</b>														
1	Diesel	2.59			910			42157		3.84	3.84			
<b>For the Year 2010 - 11</b>														
2	Diesel	2.11			740			45000		3.33	3.33			
<b>For the Year 2011 - 12</b>														
3	Diesel	2.57			800			46000		3.52	3.52			
<b>For the Year 2012 - 13 (BE)</b>														
4	Diesel	2.57			875			47000		4.11	4.11			
<b>For the Year 2012 - 13 (RE)</b>														
5	Diesel	2.57			925			47000		4.35	4.35			
<b>For the Year 2013 - 14</b>														
6	Diesel	1.50			950			50000		4.75	4.75			
<b>Total / Overall Average</b>														
<b>MT = Metric Tonne, ml = Milli Litres, KL = Kilo Litres</b>														



## Resources Discussions - Annual Plan 2013 - 14

## Revenue Expenditure - Cost of Power Purchase

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Source	2009 - 10 A			2010 - 11 A			2011 - 12 A		
		Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)*	Total Cost (Rs. Crore)
1	2	3	4	5	6	7	8	9	10	11
1	Central Sector Power Projects in NE Region under (NHPC / NEEPCO / AGBPP / AGTPP etc.									
a	NEEPCO									
	i) KHEP	47.33	118	5.58	47.59	113	5.38	59.69	150	8.97
	ii) AGBPP	97.33	211	20.54	102.39	274	28.05	98.64	369	36.40
	iii) AGTPP	39.72	183	7.27	38.71	256	9.91	39.77	322	12.80
	iv) DHEP	11.86	384	4.55	16.86	284	4.79	14.99	301	4.51
	v) RHEP	65.86	223	14.69	90.46	165	14.93	62.68	549	34.44
b	NHPC									
	i) Loktak	18.44	120	2.21	29.19	96	2.80	25.13	403	10.13
c	NTPC									
	i) Frakka	0.82	299	0.25	20.16	349	7.04	33.31	422	14.04
	ii) Kehelgaon	0.39	271	0.11	8.68	289	2.51	16.84	378	6.37
	iii) Thelcher	0.62	194	0.12	12.62	242	3.05	19.26	312	6.00
	iv) PalatanaGBPP (Exp. Dec.12)									
d	Through U.I. (ABT Policy)	27.73	382	10.59	34.29	292	10.01	113.50	375	42.53
	<b>Sub Total :</b>	<b>310.10</b>		<b>65.91</b>	<b>400.94</b>		<b>88.47</b>	<b>483.81</b>		<b>176.19</b>
c	PGCIL									

Sl. No.	Source	2009 - 10 A			2010 - 11 A			2011 - 12 A		
		Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)*	Total Cost (Rs. Crore)
1	2	3	4	5	6	7	8	9	10	11
	a) Postage Tariff @1.70 cr./Month			29.44			24.50			
	b) Point of Connection @2.5 cr. /M								57	34.45
	<b>Grand Total :</b>			<b>95.35</b>			<b>112.97</b>			<b>210.64</b>
								* RS 210.64 IS BILLED AMOUNT FOR PROCUREMENT OF POWER		
			Note: Point of connection Charges has been implemented for F.Y. 2011-12 as per CERC Regulation: Sharing of ISTS Charges and Losses Regulation 2010							

## Resources Discussions - Annual Plan 2013 - 14

## Revenue Expenditure - Cost of Power Purchase

Name of the Power Utility / SEB / EName of the Power Utility / SEB / ED : - Department of Power, Arunachal Pradesh

Sl. No.	Source	2012 - 13 (BE)			2012 - 13 (RE)			2013 - 14 (AP)		
		Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)
1	2	12	13	14	15	16	17	18	19	20
1	Central Sector Power Projects in NE Region under (NHPC / NEEPCO / AGBPP / AGTPP etc.									
a	NEEPCO									
	i) KHEP	59.69	158	9.40	59.69	158	9.40	60	158	9.43
	ii) AGBPP	98.64	387	38.22	98.64	387	38.22	99	407	40.13
	iii) AGTPP	39.77	338	13.45	39.77	338	13.45	40	355	14.12
	iv) DHEP	14.99	316	4.74	14.99	316	4.74	15	316	4.74
	v) RHEP	62.68	239	14.98	62.68	239	14.98	63	239	14.98
b	NHPC									
	i) Loktak	25.13	423	10.63	25.13	423	10.63	25	423	10.63
c	NTPC									
	i) Frakka	33.31	443	14.76	33.31	443	14.76	33	465	15.50
	ii) Kehelgaon	16.84	397	6.68	16.84	397	6.68	17	417	7.02
	iii) Thelcher	19.26	328	6.31	19.26	328	6.31	19	344	6.63
	iv) PalatanaGBPP (Exp. Dec.12)							154	267	41.12
d	Through U.I. (ABT Policy)	113.50	394	44.69	113.50	394	44.69	114	413	46.93
	<b>Sub Total :</b>	<b>483.81</b>		<b>163.86</b>	<b>483.81</b>		<b>163.86</b>	<b>637.81</b>		<b>211.21</b>
c	PGCIL									

Sl. No.	Source	2012 - 13 (BE)			2012 - 13 (RE)			2013 - 14 (AP)		
		Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)	Purchase (MKwh)	Rate (Paise / Kwh)	Total Cost (Rs. Crore)
1	2	12	13	14	15	16	17	18	19	20
	a) Postage Tariff @1.70 cr./Month									
	b) Point of Connection @2.5 cr. /M		60	38.00		60	40.00			45.00
	<b>Grand Total :</b>			<b>201.86</b>			<b>203.86</b>			<b>256.21</b>
	Note: Point of connection Charges has been implemented from 2011-12 as per CERC Regulation: Sharing of ISTS Charges and Losses Regulation 2010									

## Resources Discussions - Annual Plan 2013- 14

## Revenue Expenditure - Operating and Maintenance / Establishment and Administrative Charges

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Component of Expenditure	2009 - 10	2010-11	2011-12	2012 - 13	2012 - 13	2013 - 14
		A	A	A	BE	RE	AP
<b>I</b>	<b>Operating and Maintenance</b>						
1	Base level expenditure of the previous year	25.00	28.00	36.00	25.87	22.00	27.00
2	Normal Annual Increase						
3	Increase due to commissioning of new units / lines (to be specified)	8.00	8.00		5.00	5.00	5.00
4	Other items						
5	<b>Total (Rs. Crore) :-</b>	<b>33.00</b>	<b>36.00</b>	<b>25.87</b>	<b>30.87</b>	<b>27.00</b>	<b>32.00</b>
6	Cost per unit of sale (Paise / Kwh sold) (Proforma - 4)	139	113	83	90	72	61
<b>II</b>	<b>Establishment &amp; Administrative Charges</b>						
1	Base level expenditure of the previous year	138.63	106.45	109.45	112.18	112.18	117.18
2	Normal Annual Increase						
3	Increase due to commissioning of new units / lines (to be specified)	2.85	3.00	2.73		5.00	10.00
4	Increase due to DA / Pay revision						
5	Other items						
6	<b>Total (Rs. Crore) :-</b>	<b>141.48</b>	<b>109.45</b>	<b>112.18</b>	<b>115.32</b>	<b>117.18</b>	<b>127.18</b>
7	Cost per unit of sale (Paise / Kwh sold) (Proforma - 4)	595	342	362	336	311	241

## Resources Discussions - Annual Plan 2013 - 14

## Rate of Return on net fixed Assets

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13	2012 - 13	2013 - 14
		A	A	A	BE	RE	AP
1	2	3	4	5	6	7	8
<b>A</b>	<b>Income</b>						
1	Revenue receipts from Electricity Sales	78.14	96.10	99.00	116.63	128.29	188.92
2	Misc. Revenue	0.30	0.35	0.35	0.35	0.40	0.45
3	Subsidy (Agriculture Consumers)						
4	Other Subsidy, if any						
	<b>Total of A :-</b>	<b>78.44</b>	<b>96.45</b>	<b>99.35</b>	<b>116.98</b>	<b>128.69</b>	<b>189.37</b>
<b>B</b>	<b>Expenses</b>						
1	Fuel (Diesel) (Proforma - 5A)	3.84	3.33	3.52	4.11	4.35	4.75
2	Purchase of Power (Proforma - 6)	95.35	112.97	210.64	201.86	203.86	256.21
3	Operation and Maintenance (Proforma - 7)	33.00	36.00	25.87	30.87	27.00	32.00
4	Establishment Expenditure (Proforma - 7)	141.48	109.45	112.18	115.32	117.18	127.18
5	Depreciation						
6	Other Misc. Expenditure						
	<b>Total of B:-</b>	<b>273.66</b>	<b>261.75</b>	<b>352.21</b>	<b>352.16</b>	<b>352.39</b>	<b>420.14</b>
<b>C</b>	<b>Operating Income (A - B)</b>	<b>-195.22</b>	<b>-165.30</b>	<b>-252.86</b>	<b>-235.18</b>	<b>-223.70</b>	<b>-230.77</b>
<b>D</b>	<b>Interest Due</b>	16.90	17.00	10.93	11.00	11.00	14.00
	a) To financial Institute						

SI. No.	Item	2009-10	2010 - 11	2011 - 12	2012 - 13	2012 - 13	2013 - 14
		A	A	A	BE	RE	AP
1	2	3	4	5	6	7	8
	b) To State Govt.						
	<b>Total of D :-</b>	<b>16.90</b>	<b>17.00</b>	<b>10.93</b>	<b>11.00</b>	<b>11.00</b>	<b>14.00</b>
<b>E</b>	Net Surplus / Deficit (C - D)	<b>-212.12</b>	<b>-182.30</b>	<b>-263.79</b>	<b>-246.18</b>	<b>-234.70</b>	<b>-244.77</b>
<b>F</b>	Value of net fixed assets employed at the beginning of the year	1150.00	1265.00	1440.32	1557.80	1557.80	1700.00
<b>G</b>	Rate of return %	29%	37%	28%	33%	37%	45%
<b>H</b>	Increase in average tariff Required (Paise/Kwh) to obtain						
	a) % ROR	115.12%	81.82%	113.60%	102.74%	93.46%	79.76%
	b) 3 % ROR	118.57%	84.28%	117.01%	105.83%	96.27%	82.15%

Proforma - 9

## Resources Discussions - Annual Plan 2013 - 14

## Outstanding dues to the Central Undertaking and Others

Name of the Power Utility / SEB / ED : - Department of Power, Arunachal Pradesh

(Rs in Crore)

Sl. No.	Name of the Undertakings	Dues upto 31.03.2012	Dues from 01.04.2012 to 31.03.2013	Outstanding dues as on (or which ever is the latest figures available)
1	2	3	4	5
1	Central Undertakings			
i)	NHPC	1.95		1.95
ii)	NEEPCO	21.71		21.71
iii)	PGCIL	7.41		7.41
	<b>Sub Total of 1 :-</b>	<b>31.07</b>		<b>31.07</b>
2	Others	21.28		21.28
3	<b>Total of (1 + 2)</b>	<b>52.35</b>		<b>52.35</b>

## Resources Discussions - Annual Plan 2013 - 14

## Electricity Consumption\*

Name of the Power Utility / SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Item	2009 - 10		2010 - 11		2011 - 12		2012 - 13(BE)		2012 - 13 (RE)		2013 - 14	
		#Rate (Paise / Kwh)	Unit (MU)	#Rate (Paise / Kwh)	Unit (MU)	#Rate (Paise / Kwh)	Unit (MU)	#Rate (Paise / Kwh)	Unit (MU)	#Rate (Paise / Kwh)	Unit (MU)	#Rate (Paise / Kwh)	Unit (MU)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Domestic	300	60.11	315	62.67	330	113.97	346	119.67	346	131.64	360	144.80
2	Agriculture												
3	a) Industry LT	300	2.05	315	3.11	380	6.27	400	9.41	400	10.35	420	11.38
	b) Industry HT	300	40.00	315	53.00	300	88.57	315	119.57	315	131.53	330	144.68
4	Bulk												
5	Commercial	375	13.08	390	15.49	410	19.29	430	23.15	430	25.46	450	28.01
6	Public Lighting			310	6.45	415	6.83	435	8.20	435	9.02	455	9.92
7	Public Water Works	270	43.34	290	46.83	415	9.74	435	10.71	435	11.79	455	12.96
8	Others												
	<b>Total (1 to 8) :-</b>	<b>283</b>	<b>158.58</b>	<b>323</b>	<b>187.55</b>	<b>375.00</b>	<b>244.67</b>	<b>394</b>	<b>290.70</b>	<b>394</b>	<b>319.77</b>	<b>412</b>	<b>351.75</b>
9	Outside the State	<b>390</b>	<b>79.14</b>	<b>280</b>	<b>132.35</b>	<b>270.00</b>	<b>65.37</b>	<b>300</b>	<b>52.06</b>	<b>300</b>	<b>57.27</b>	<b>350</b>	<b>175.00</b>
	<b>Grand Total :-</b>		<b>237.72</b>		<b>319.90</b>		<b>310.04</b>		<b>342.76</b>		<b>377.04</b>		<b>526.75</b>
10	No. of households Electrified												
	(No. of Consumers)		157031		174647		184403		193623		193623		221059
	Note:- * Please give percentage within brackets												
	# Category wise tariff rate as approved by the State Electricity Regulatory Commission												

## Resources Discussions - Annual Plan 2013 - 14

## Private Sector Power Projects

Name of the SEB / ED :-

Sl. No.	Item	2009 - 10	2010 - 11	2010 - 11	2012-13	2012 -13	2013 -14
		A	A	A	BE	RE	Annual Plan
1	2	3	4	5	6	7	8
1	Name(s) of the Project						
2	Installed Capacity (MW)						
3	Type of Fuel						
4	Estimated Cost (Rs. Crores)						
5	Expected Generation (MKwh)	-			-	Nil	-
6	Status of the Project (Signing of MOUs / Power Agreements / Any Other						
7	Cost of Generation (Paise / Kwh)						
8	PLF as per APPA (%)						

## Resources Discussions - Annual Plan 2013 - 14

## Efficiency Improvement

Name of the Power Utility SEB / ED :- Department of Power, Arunachal Pradesh

Sl. No.	Item	Unit	2009 - 10	2010 - 11	2011 - 12	2012 - 13	2012 - 13	2013 - 14
			A	A	A	BE	RE	AP
A	i) Total Energy Input (Proforma - 1, item - 8)	MU	488.17	627.19	658.44	658.44	658.44	906.01
I	ii) Energy Billed (Proforma - 1, item - 11)	MU	237.72	319.90	310.04	342.76	377.04	526.75
	iii) Billing Efficiency (ii)/(i)x100	%	48.70	51.01	47.09	52.06	57.26	58.14
	iv) Actual Energy Billed (Proforma - 4)	Rs. Crore	78.14	96.10	99.00	116.63	128.29	188.92
	v) Revenue Realised from the sale of Power	Rs. Crore	75.81	90.84	80.52	100	115	135
	vi) Collection efficiency (v)/(iv)x100	%	97.01	94.53	81.33	85.74	89.64	71.46
	vii) AT & C Losses	%	52.76	51.78	61.70	55.37	48.67	58.45
	viii) Reduction in AT & C Losses	%						
B	i) T & D Losses (Proforma - 1, item - 10)	%	51.62%	49.11%	52.91%	40.10%	40.40%	30.90%
	ii) Reduction in T & D Losses	%						
C	i) Level of cash losses (Net of increase attribute to tariff revision.)	Rs. Crore						
	ii) Reduction of cash	Rs. Crore						
	Losses as compared to previous year	%						