



GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE CHIEF ENGINEER (P) : EASTERN ELECT. ZONE
DEPTT. OF POWER, VIDYUT BHAWAN, ITANAGAR – 791 111



DIAL :- 0360 221 7301 (O), FAX :- 0360 221 7302; vidyutarunachal@rediffmail.com

NO.CE(P)/EEZ/SP&C/RES. ASSESSMENT/09-10/

Dated Itanagar the Jan. 10

To

Shri Alexander Jacob,
Dy. Advisor (Power),
Planning Commissioning,
(Power & Energy Division)
Yojana Bhawan, Govt. of India,
New Delhi.
jacob_pc@nic.in

Sub:- Assessment of Financial Resources for 2010 – 11 – State Electricity Boards /
Electricity Departments.


Ref:- No.I-10(11)/1/2010-P&E dated ~~23.10.09~~ 31/1/09

Sir,

In response to your letters under reference please find enclosed herewith the details Assessment of Financial Resources for 2010 – 11 as per proforma supplied duly filled in for your information and necessary action from your end.

Yours faithfully,

Encl:- As stated above.


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

NO.CE(P)/EEZ/SP&C/RES. ASSESSMENT/09-10/

Dated Itanagar the Jan. 10.

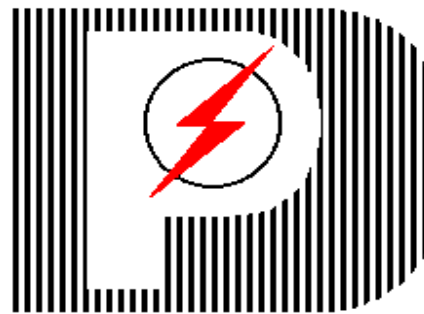
Copy to:-

1. The Secretary (Power), Govt. of Arunachal Pradesh, Itanagar for information.
2. The Commissioner (Planning), Govt. of Arunachal Pradesh, Itanagar for information.
3. The Commissioner (Finance), Govt. of Arunachal Pradesh, Itanagar for information.

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

RESOURCE ASSESSMENT

2010 - 11



DEPARTMENT OF POWER

ARUNACHAL PRADESH

Resources Discussions - Annual Plan 2010 - 11

Summary Statement

Name of the SEB / ED :-

| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
|---------|--|---------------|---------------|---------------|---------------|---------------|---------------|
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Installed Capacity (MW) at the end of the year (Details in Proforma - 3) | | | | | | |
| i) | Hydel | 32.66 | 33.72 | 45.00 | 50.00 | 50.00 | 50.00 |
| ii) | Stream | | | | | | |
| iii) | Gas | | | | | | |
| iv) | Diesel | 24.00 | 25.00 | 18.00 | 15.00 | 15.00 | 15.00 |
| v) | Others (wind etc.) | | | | | | |
| | Total of 1:- | 56.66 | 58.72 | 63.00 | 65.00 | 65.00 | 65.00 |
| 2 | Gross Generation inclusive of auxiliary consumption (MKwh) (Details in Proforma - 3) | | | | | | |
| i) | Hydel | 65.00 | 52.21 | 80.00 | 90.00 | 55.00 | 55.00 |
| ii) | Stream | | | | | | |
| iii) | Gas | | | | | | |
| iv) | Diesel | 7.00 | 4.89 | 3.70 | 2.08 | 3.00 | 3.00 |
| v) | Others (free power) | 200.00 | 181.52 | 500.00 | 500.00 | 500.00 | 500.00 |
| | Total of 2:- | 272.00 | 238.62 | 583.70 | 592.08 | 558.00 | 558.00 |
| 3 | Overall Plant availability for Board (Thermal %) | | | | | | |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|---------------|---------------|----------------|----------------|---------------|---------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4 | Overall PLF of Board (Thermal) (%) | | | | | | |
| 5 | Auxiliary consumption (MKwh) with % in brackets below | 1.03 | 0.44 | 0.705 | 0.709 | 0.709 | 0.809 |
| i) | Hydel | 0.38% | 0.18% | 0.12% | 0.12% | 0.13% | 0.14% |
| ii) | Steam | | | | | | |
| iii) | Gas | | | | | | |
| iv) | Diesel | | | | | | |
| v) | Other (wind etc.) | | | | | | |
| | Total of 5 :- | | | | | | |
| 6 | Net Generation (2 - 5) (MKwh) | 270.97 | 238.18 | 583.00 | 591.37 | 557.29 | 557.19 |
| 7 | Total Power Purchased (MKwh) | 369.63 | 448.22 | 481.00 | 460.00 | 306.00 | 336.00 |
| i) | Purchase from Central Sector (Free) | | | | | | |
| ii) | Purchase from IPPs/Private Sector | | | | | | |
| iii) | Purchase from State Utility | | | | | | |
| iv) | Purchase from others | | | | | | |
| 8 | Total Energy availability (6 + 7) (Mkwh) | 640.60 | 686.40 | 1064.00 | 1051.37 | 863.29 | 893.19 |
| 9 | T & D Losses (Mkwh) | | | | | | |
| i) | Transmission Losses | 46.00 | 55.00 | 70.00 | 60.00 | | 60.00 |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ii) | Distribution Losses | 226.10 | 244.71 | 440.55 | 351.25 | 413.74 | 231.91 |
| | Total (i) and (ii) :- | 272.10 | 299.71 | 510.55 | 411.25 | 413.74 | 291.91 |
| 10 | % of T & D Losses (9 as of 8) | 42.48% | 43.66% | 47.98% | 39.12% | 47.93% | 32.68% |
| 11 | Energy available for sale (Details in Proforma - 4 (MKwh) | 368.50 | 386.69 | 553.45 | 640.12 | 449.55 | 601.28 |
| i) | Within State (tally with proforma - 4) | 138.50 | 169.73 | 303.45 | 318.62 | 334.55 | 351.28 |
| ii) | Outside State | | | | | | |
| iii) | Energy Sale through Trading / UI | 230.00 | 216.96 | 250.00 | 321.50 | 115.00 | 250.00 |
| | Total (i), (ii) and (iii) :- | 368.50 | 386.69 | 553.45 | 640.12 | 449.55 | 601.28 |
| 12 | Average rate for Sale (Paise/KWh) | | | | | | |
| i) | Within State | 203 | 276 | 287 | 316 | 332 | 348 |
| ii) | Outside State | | | | | | |
| iii) | Energy Sale through Trading / UI | 225 | 270 | 375 | 468.75 | 340 | 340 |
| 13 | Revenue Receipts (Rs. Crore) | | | | | | |
| a | Revenue from Sale | | | | | | |
| i) | Within State | 28.14 | 48.34 | 86.94 | 95.85 | 105.68 | 116.51 |
| ii) | Outside State | | | | | | |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | iii) Trading / UI | 51.75 | 58.58 | 60.00 | 70.00 | 40.00 | 85.00 |
| | Sub Total of (i), (ii) & (iii) :- | 79.89 | 106.92 | 146.94 | 165.85 | 145.68 | 201.51 |
| b | Misc. receipts | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 |
| c | Subsidy as determined by SERC | | | | | | |
| | i) Subsidy for Domestic Consumers | | | | | | |
| | ii) Subsidy for Agriculture Consumers | | | | | | |
| | iii) Other Subsidy if any | | | | | | |
| | Sub Total of (i), (ii) & (iii) :- | | | | | | |
| | Total of - 13 :- | 80.04 | 107.12 | 147.19 | 166.15 | 146.03 | 201.91 |
| 14 | Revenue Expenditure (Rs. Crore) | | | | | | |
| | i) Fuel (Details in Proforma - 5) | 9.60 | 8.05 | 3.41 | 2.69 | 2.93 | 2.93 |
| | ii) Power Purchased (Details in Proforma - 8) | 62.84 | 100.00 | 96.20 | 92.00 | 14.00 | 15.00 |
| | iii) O & M Expenses (Details in Proforma - 7) | 29.00 | 15.00 | 28.30 | 32.00 | 25.85 | 32.00 |
| | iv) Others | 40.25 | 48.65 | 50.37 | 54.95 | 93.02 | 102.17 |
| | Total of 14 :- | 141.69 | 171.70 | 178.28 | 181.64 | 135.80 | 152.10 |
| 15 | Gross operating Surplus / Deficit (13 - 14) | -61.65 | -64.58 | -31.09 | -15.49 | 10.23 | 49.81 |
| 16 | Depreciation due (Rs. Crore) | | | | | | |
| 17 | Gross operating Surplus after depreciation (15 - 16) | -61.65 | -64.58 | -31.09 | -15.49 | 10.23 | 49.81 |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 18 | Interest payable to Industrial Creditors (Rs. Cr.) | | | | | | |
| | i) On Market Loans | | | | | | |
| | ii) On LIC Loans | | | | | | |
| | iii) On REC Loans | 22.00 | 18.00 | 17.00 | 16.90 | 16.80 | 16.70 |
| | iv) On PFC Loans | | | | | | |
| | v) Other Loans | | | | | | |
| | Total of 18 :- | 22.00 | 18.00 | 17.00 | 16.90 | 16.80 | 16.70 |
| 19 | Net operating Surplus / Deficit after interest to Institutions. Creditors (17 - 18) | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |
| 20 | Interest due to State Govt. (Rs. Crore) | | | | | | |
| 21 | Commercial Profit (+) / Loss (-) (19 - 20) | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |
| 22 | Commercial Profit (+) / Loss (-) without subsidy (21 - 13(c)) | | | | | | |
| 23 | Interest actually paid to State Govt. | | | | | | |
| 24 | Retained Surplus (+) / Deficit (-) (19 - 23) | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|---------------|---------------|---------------|---------------|--------------|--------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 25 | Internal resources (Rs. Crore) | | | | | | |
| i) | Retained Revenue Surplus / Deficit | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |
| ii) | Depreciation | | | | | | |
| 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 | | | | | | |
| | Gross Internal Resources at current rates of Tariff (24) | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |
| 26 | Repayment of Loans (excluding Repayment of market borrowings) | | | | | | |
| | ii) To LIC | | | | | | |
| | iii) To REC | | | | | | |
| | iii) To PFC | | | | | | |
| | iv) To State Govt. if any | | | | | | |
| | v) Others | | | | | | |
| | Total of 26 :- | | | | | | |
| 27 | Net Internal Resources at Current Rate / Tariff (24 - 25) | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|--|-----------|-----------|-----------|-----------|---------|-------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 28 | i) Net fixed assets in services at the beginning of the year (Rs. Crore) (Proforma - 8) | 1106.00 | 1112.00 | 1112.00 | 1150.00 | 1170.00 | 1200.00 |
| ii) | Cumulative depreciation at the beginning of the year (Rs. Crore) | 38.00 | 40.00 | 40.00 | 45.00 | 45.00 | 50.00 |
| iii) | Cumulative depreciation at the end of the year (Rs. Crore) | 40.00 | 60.00 | 40.00 | 45.00 | 45.00 | 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) | | | | | | |
| 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 | 8800 | 8948 | 8750 | 8700 | 8600 | 8500 |
| a | Technical Staff | | | | | | |
| b | Non - Technical Staff | | | | | | |
| ix) | No. of employees per million Kwh Sold | 23.88 | 23.14 | 15.81 | 13.59 | 19.13 | 14.14 |
| x) | No. of consumers at the end of the year | 134131 | 145310 | 182699 | 228372 | 228373 | 228373 |
| xi) | No. of employees per 1000 consumers | 65.61 | 61.58 | 47.89 | 38.10 | 37.66 | 37.22 |
| 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) | | | | | | |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|-----------|-----------|-----------|-----------|-------|-------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 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) | | | | | | |
| xiv) | Wage Bill | | | | | | |
| | c) For Technical Staff | 42.00 | 41.00 | 40.82 | 45.00 | 45.00 | 50.00 |
| | 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) | | | | | | |
| | b) Tariff award by SERC Yes / No | | | | | | |
| | (Category wise tariff details as per tariff award to be given in Proforma - X) | | | | | | |
| xviii) | Revenue arrears at the end of the year (Rs. Cr.) | 32.00 | 35.00 | 37.00 | 38.00 | 38.00 | 30.00 |
| | a) Amount realisable (excluding Bad Debt) | | | | | | |
| | b) As % of sales revenue of the year | 40% | 33% | 25% | 23% | 26% | 15% |
| | 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. | | | | | | |

| Name of the SEB / ED :- | | | | | | | |
|-------------------------|---|-----------|-----------|-----------|-----------|-------|-------------|
| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| b | Market Loan | | | | | | |
| c | LIC Loan | | | | | | |
| d | REC Loan | | | | | | |
| e | PFC Loan | | | | | | |
| f | Other Loans | 60.67 | 60.00 | 55.00 | 55.00 | 55.00 | 50.00 |
| 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 | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Financing of Capital Expenditure

Name of the SEB / ED :-

| SI. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
|---------|---|--------------|---------------|---------------|---------------|---------------|---------------|
| | | A | A | A | BE | RE | ANL. Plan |
| 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 | 65.35 | 131.01 | 135.00 | 140.00 | 145.00 | 150 |
| ii) | On works in progress | | | | | | |
| | Total of (a) & (b) :- | 65.35 | 131.01 | 135.00 | 140.00 | 145.00 | 150.00 |
| 2 | Financing of Capital Expenditure | | | | | | |
| a | State Govt. Grants (APDRP / RGGVY etc.) | | | | | | |
| b | i) State Govt. Loans (Gross) | | | | | | |
| | ii) Repayment, if any | | | | | | |
| | Net Loans | | | | | | |
| c | i) Market borrowings (Gross) | | | | | | |
| | ii) Repayment, if any | | | | | | |
| | iii) Net Loans (i - ii) | | | | | | |
| d | i) Borrowings from LIC (Gross) | | | | | | |
| | ii) Repayment, if any | | | | | | |

| | | | | | | | |
|------|--|--------|--------|--------|--------|--------|--------|
| | Net Loans (i - ii) | | | | | | |
| e | i) Borrowings from REC (Gross) | 13.00 | 9.50 | 12.00 | 3.00 | 3.00 | 3.00 |
| | ii) Repayment, if any | 15.20 | 17.00 | 16.50 | 1.03 | 1.03 | 4.00 |
| | Net Loans (i - ii) | -2.20 | -7.50 | -4.50 | 1.97 | 1.97 | -1.00 |
| f | i) Borrowing from PFC (Gross) | | | | | | |
| | ii) Repayment, if any | | | | | | |
| | Net Loans (i - ii) | | | | | | |
| g | i) Borrowing from other (Gross) NABARD | 0.10 | | | | | |
| | ii) Repayment, if any | | | | | | |
| | Net Loans (i - ii) | | | | | | |
| | | | | | | | |
| 3 | Total capital receipts for Financing the Capital Expenditure | 65.35 | 131.01 | 135.00 | 140.00 | 145.00 | 150.00 |
| | | | | | | | |
| 4 | Internal Resources (after providing for repayment of loan) | 70.11 | | | | | |
| | | | | | | | |
| 5 | Total resources for Capital Expenditure (3 + 4) | 135.46 | 131.01 | 135.00 | 140.00 | 145.00 | 150.00 |
| | | | | | | | |
| 6 | Capital Expenditure | | | | | | |
| i) | Plan | 65.35 | 131.01 | 135.00 | 156.00 | 156.00 | 160.00 |
| ii) | Outside Plan | | 20.00 | 150.00 | 200 | 200.00 | 250.00 |
| | Total (I + ii) :- | 65.35 | 151.01 | 285.00 | 356.00 | 356.00 | 410.00 |
| | | | | | | | |
| 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 2010 - 11

Performance on Generating Station

| Name of the SEB / ED :- | | Arunachal Pradesh | | | | | | | | | | |
|-------------------------|----------------------|-------------------|--------------------------|------------------------|----------------------|-----------------------|-----------------|--------------------------|------------------------|----------------------|-----------------------|--|
| Sl. No. | Item | 2006 - 07 | | | | | 2007 - 08 | | | | | |
| | | 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 | 32.66 | 65.00 | | 65% | 19.13% | 33.72 | 52.21 | | 50% | 17.00% | |
| 2 | Diesel | 24.00 | 7.00 | | 75% | 19.20% | 25.00 | 4.89 | | 60% | 25.00% | |
| 3 | Others / Inputs / UI | | 200.00 | | | | | 181.52 | | | | |
| | Total :- | | 272.00 | | | | | 238.62 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Performance on Generating Station

Name of the SEB / ED :-

Arunachal Pradesh

| Sl. No. | Item | 2008 - 09 | | | | | 2009 - 10 (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 | 45.00 | 80.00 | | 50% | 17.00% | 50 | 90 | | 50% | 17% |
| 2 | Diesel | 18.00 | 3.70 | | 40% | 25.00% | 15 | 2.08 | | 40% | 2% |
| 3 | Others / Inputs / UI | | 500.00 | | | | | 500 | | | |
| | Total :- | | 583.70 | | | | | 592.08 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Proforma - 3 | | | | | | | | | | | |
|---|----------------------|-------------------|--------------------------|------------------------|----------------------|-----------------------|-----------------|--------------------------|------------------------|----------------------|-----------------------|
| Resources Discussions - Annual Plan 2009 - 10 | | | | | | | | | | | |
| Performance on Generating Station | | | | | | | | | | | |
| Name of the SEB / ED :- | | Arunachal Pradesh | | | | | | | | | |
| Sl. No. | Item | 2009 - 10 (RE) | | | | | 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 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 1 | Hydel | 50 | 55 | | 50% | 17% | 50 | 55 | | 50% | 17% |
| 2 | Diesel | 15 | 3.00 | | 40% | 2% | 15 | 3.00 | | 40% | 2% |
| 3 | Others / Inputs / UI | | 500 | | | | | 500 | | | |
| | Total :- | | 558.00 | | | | | 558.00 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Category - wise Energy Sale / Average Rate per Unit and Revenue

(including fuel surcharge recovery but excluding state electricity duty)

| Name of the SEB / ED :- | | Name of the SEB / ED :- Arunachal Pradesh | | | | | | | | | | | |
|-------------------------|-------------------------------|---|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sl. No. | Category of Consumers | 2009 - 10 (BE) | | | | 2009 - 10 (RE) | | | | 2010 - 11 | | | |
| | | 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 | 106.94 | 294 | 31.44 | 176507 | 112.29 | 308.7 | 34.66 | 176507 | 117.90 | 324.135 | 38.22 | 176507 |
| 2 | Agriculture | | | | | | | | | | | | |
| 3 | a) Industry LT | 49.61 | 346.5 | 17.19 | 28101 | 52.09 | 363.825 | 18.95 | 28101 | 54.70 | 382.016 | 20.90 | 28101 |
| | b) Industry HT | 98.12 | 262.5 | 25.76 | | 103.03 | 275.625 | 28.40 | | 108.18 | 289.406 | 31.31 | |
| 4 | Bulk | | 320.25 | | 1171 | | 336.2625 | | 1171 | | 353.076 | | 1171 |
| 5 | Commercial | 31.97 | 346.5 | 11.08 | 19375 | 33.57 | 363.825 | 12.21 | 19375 | 35.25 | 382.016 | 13.47 | 19375 |
| 6 | Public Lighting | 18.74 | 346.5 | 6.49 | 3071 | 19.68 | 363.825 | 7.16 | 3071 | 20.66 | 382.016 | 7.89 | 3071 |
| 7 | Public Water Works | 13.23 | 294 | 3.89 | 146 | 13.89 | 308.7 | 4.29 | 146 | 14.59 | 324.135 | 4.73 | 146 |
| 8 | Others | | | | | | | | | | | | |
| | Total (1 to 8) :- | 318.62 | 315.75 | 95.85 | 228371 | 334.55 | 331.54 | 105.68 | 228371 | 351.28 | 348.11 | 116.51 | 228371 |
| 9 | Outside the State | 321.5 | 468.75 | 70 | 1 | 115 | 340 | 40 | 2 | 250 | 340 | 85 | 2 |
| 10 | Grand Total :- | 640.12 | 784.50 | 165.85 | 228372 | 449.55 | 671.54 | 145.68 | 228373 | 601.28 | 688.11 | 201.51 | 228373 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | * Note :- Number of consum | | | | | | | | | | | | |
| | * Please also indicate % of t | | | | | | | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Expenditure on Fuel (Coal / Lignite / Diesel)

| Name of the SEB / ED :- | | 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 |
| For the Year 2006 - 07 | | | | | | | | | | | | | | |
| 1 | Diesel | 9.00 | | | 3000 | | | 32000 | | 9.60 | 9.60 | | | |
| For the Year 2007 - 08 | | | | | | | | | | | | | | |
| 2 | Diesel | 8.00 | | | 2300 | | | 35000 | | 8.05 | 8.05 | | | |
| For the Year 2008- 09 | | | | | | | | | | | | | | |
| 3 | Diesel | 2.787 | | | 850 | | | 40150 | | 3.41 | 3.41 | | | |
| For the Year 2009 - 10 (BE) | | | | | | | | | | | | | | |
| 4 | Diesel | 2.08 | | | 638.83 | | | 42157 | | 2.69 | 2.69 | | | |
| For the Year 2009 - 10 (RE) | | | | | | | | | | | | | | |
| 5 | Diesel | 3 | | | 650.00 | | | 45000 | | 2.93 | 2.93 | | | |
| For the Year 2010 - 11 | | | | | | | | | | | | | | |
| 6 | Diesel | 3 | | | 650 | | | 45000 | | 2.93 | 2.93 | | | |
| Total / Overall Average | | | | | | | | | | | | | | |
| MT = Metric Tonne, ml = Milli Litres, KL = Kilo Litres | | | | | | | | | | | | | | |

Resources Discussions - Annual Plan 2009 - 10

Expenditure on Fuel (Gas)

Name of the SEB / ED :-

Arunachal Pradesh

| Sl. No. | Name of the Thermal Station | Energy Generation MKwh | Consumption Gas | | Cost (Rs.) | Total Fuel Cost | Cost / Kwh |
|---------|-----------------------------|------------------------|-----------------|-----------|-----------------|-----------------|-------------|
| | | | Total | (Lit/Kwh) | Disel (Per Lit) | (Rs. Crore) | (Paise/Kwh) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | For the Year 2006 - 07 | | | | | | |
| | | | | | | | |
| | For the Year 2007 - 08 | | | | | | |
| | | | | | | | |
| | For the Year 2008 - 09 | | | | | | |
| | | | | | | | |
| | For the Year 2009 - 10 (BE) | | | | | | |
| | | | | | | | |
| | For the Year 2009 - 10 (RE) | | | | | | |
| | | | | | | | |
| | For the Year 2010 - 11 | | | | | | |
| | | | | | | | |
| | Total / Overall Average | | | | | | |
| | Cu.M = Cubic Meter | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Revenue Expenditure - Operating and Maintenance / Establishment and Administrative Charges

Name of the SEB / ED :-

| Sl. No. | Component of Expenditure | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
|-----------|--|--------------|--------------|--------------|--------------|--------------|---------------|
| | | | | | BE | RE | |
| I | Operating and Maintenance | | | | | | |
| 1 | Base level expenditure of the previous year | 27.00 | 12.00 | 23.30 | 25 | 16.85 | 21.00 |
| 2 | Normal Annual Increase | | | | | | |
| 3 | Increase due to commissioning of new units / lines (to be specified) | 2.00 | 3.00 | 5.00 | 7 | 9 | 11 |
| 4 | Other items | | | | | | |
| 5 | Total (Rs. Crore) :- | 29.00 | 15.00 | 28.30 | 32.00 | 25.85 | 32.00 |
| 6 | Cost per unit of sale (Paise / Kwh sold) | 78.70 | 38.79 | 51.13 | 49.99 | 57.50 | 53.22 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| II | Establishment & Administrative Charges | | | | | | |
| 1 | Base level expenditure of the previous year | 38.75 | 46.00 | 47.62 | 52.10 | 90.07 | 99.07 |
| 2 | Normal Annual Increase | | | | | | |
| 3 | Increase due to commissioning of new units / lines (to be specified) | 1.50 | 2.65 | 2.75 | 2.85 | 2.95 | 3.10 |
| 4 | Increase due to DA / Pay revision | | | | | | |
| 5 | Other items | | | | | | |
| 6 | Total (Rs. Crore) :- | 40.25 | 48.65 | 50.37 | 54.95 | 93.02 | 102.17 |
| 7 | Cost per unit of sale (Paise / Kwh sold) | 109 | 126 | 91.01 | 85.84 | 206.92 | 169.92 |

Resources Discussions - Annual Plan 2010 - 11

Rate of Return on net fixed Assets

Name of the SEB / ED :-

| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | | 2010 - 11 |
|----------|---|---------------|---------------|---------------|---------------|---------------|---------------|
| | | A | A | A | BE | RE | Annual Plan |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | Income | | | | | | |
| 1 | Revenue receipts from Electricity Sales | 79.89 | 106.92 | 146.94 | 165.85 | 145.68 | 201.51 |
| 2 | Misc. Revenue | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 |
| 3 | Subsidy (Agriculture Consumers) | | | | | | |
| 4 | Other Subsidy, if any | | | | | | |
| | Total of A :- | 80.04 | 107.12 | 147.19 | 166.15 | 146.03 | 201.91 |
| B | Expenses | | | | | | |
| 1 | Fuel (Diesel) (Proforma - 5A) | 9.60 | 8.05 | 3.41 | 2.69 | 2.93 | 2.93 |
| 2 | Purchase of Power (Proforma - 6) | 62.84 | 100.00 | 96.20 | 92.00 | 14.00 | 15.00 |
| 3 | Operation and Maintenance | 29.00 | 15.00 | 28.30 | 32.00 | 25.85 | 32.00 |
| 4 | Establishment Expenditure | 40.25 | 48.65 | 50.37 | 54.95 | 93.02 | 102.17 |
| 5 | Depreciation | | | | | | |
| 6 | Other Misc. Expenditure | | | | | | |
| | Total of B:- | 141.69 | 171.70 | 178.28 | 181.64 | 135.80 | 152.10 |
| C | Operating Income (A - B) | -61.65 | -64.58 | -31.09 | -15.49 | 10.23 | 49.81 |
| D | Interest Due | 22.00 | 18.00 | 17.00 | 16.90 | 16.80 | 16.70 |
| | a) To financial Institute | | | | | | |

| | | | | | | | |
|----------|---|---------------|---------------|---------------|---------------|--------------|--------------|
| | b) To State Govt. | | | | | | |
| | Total of D :- | 22.00 | 18.00 | 17.00 | 16.90 | 16.80 | 16.70 |
| | | | | | | | |
| E | Net Surplus / Deficit (C - D) | -83.65 | -82.58 | -48.09 | -32.39 | -6.57 | 33.11 |
| | | | | | | | |
| F | Value of net fixed assets employed at the beginning of the year | 1106.00 | 1112.00 | 1112.00 | 1150.00 | 1170 | 1200 |
| | | | | | | | |
| G | Rate of return % | 56% | 62% | 83% | 91% | 108% | 133% |
| | | | | | | | |
| H | Increase in average tariff Required (Paise/Kwh) to obtain | | | | | | |
| | a) % ROR | 38.45% | 44.40% | 32.21% | 28.38% | 30.21% | 25.30% |
| | b) 3 % ROR | 39.60% | 45.73% | 33.18% | 29.23% | 31.11% | 26.05% |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Outstanding dues to the Central Undertaking and Others

| Sl. No. | Name of the Undertakings | Dues upto 31.03.2009 | Dues from 01.04.09 to 31.03.2010 | Outstanding dues as on (or which ever is the latest figures available) |
|---------|--------------------------|----------------------|----------------------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Central Undertakings | | | |
| i) | NHPC | | | NIL |
| ii) | NEEPCO | | | NIL |
| iii) | PGCIL | | | NIL |
| | Sub Total of 1 :- | | | |
| 2 | Others | | | |
| 3 | Total of (1 + 2) | | | |

Resources Discussions - Annual Plan 2010 - 11

Electricity Consumption*

Name of the SEB / ED :-

| Sl. No. | Item | 2006 - 07 | | 2007 - 08 | | 2008 - 09 | | 2009 - 10 (RE) | | 2010 - 11 | |
|---------|--|---------------------|---------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|
| | | #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 |
| 1 | Domestic | 200 | 48.00 | 265 | 47.75 | 280 | 101.85 | 308.70 | 112.29 | 324.135 | 117.90 |
| 2 | Agriculture | | | | 19.92 | | | | | | |
| 3 | a) Industry LT | 225 | 12.00 | 315 | 22.13 | 330 | 47.25 | 363.83 | 52.09 | 382.02 | 54.70 |
| | b) Industry HT | | | 240 | 55.00 | 250 | 93.45 | 275.63 | 103.03 | 289.41 | 108.18 |
| 4 | Bulk | 240 | 47.00 | 290 | | 305 | | 336.26 | | 353.08 | |
| 5 | Commercial | 235 | 17.50 | 315 | 9.54 | 330 | 30.45 | 363.83 | 33.57 | 382.02 | 35.25 |
| 6 | Public Lighting | 215 | 7.15 | 315 | | 330 | 17.85 | 363.83 | 19.68 | 382.02 | 20.66 |
| 7 | Public Water Works | 235 | 6.85 | 260 | 15.39 | 280 | 12.60 | 308.70 | 13.89 | 324.14 | 14.59 |
| 8 | Others | | | | | | | | | | |
| | Total (1 to 8) :- | 203 | 138.50 | 276 | 169.73 | 286.5052 | 303.45 | 331.54 | 334.55 | 348.11 | 351.28 |
| 9 | Outside the State | 225 | 230.00 | 270 | 216.96 | 375 | 250.00 | 340 | 115.00 | 340 | 250.00 |
| | Grand Total :- | | 368.50 | | 386.69 | | 553.45 | 671.54 | 449.55 | 688.11 | 601.28 |
| 10 | No. of households Electrified | | | | | | | | | | |
| | (No. of Consumers) | | 134131 | | 145310 | | 182699 | 228373 | | 228373 | |
| | Note:- * Please give prcentage within brackets | | | | | | | | | | |
| | # Category wise tariff rate as approved by the State Electricity Regulatory Commission | | | | | | | | | | |

Resources Discussions - Annual Plan 2010 - 11

Private Sector Power Projects

Name of the SEB / ED :-

| Sl. No. | Item | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 -1 0 | | 2010 -11 |
|---------|---|-----------|-----------|-----------|-----------|----|-------------|
| | | Provi. | | | 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 (%) | | | | | | |

| Proforma - 12 | | | | | | | | |
|---|---|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Resources Discussions - Annual Plan 2010 - 11 | | | | | | | | |
| Efficiency Improvement | | | | | | | | |
| Name of the SEB / ED :- | | | | | | | | |
| Sl. No. | Item | Unit | 2006 - 07 | 2007 - 08 | 2008 - 09 | 2009 - 10 | 2010 - 11 | |
| I | i) Energy supplied at 11/33 KV Feeders | MU | | | | | | |
| | ii) Energy Billed at 11/33 KV Feeders | MU | | | 553.45 | 449.55 | 601.28 | |
| | iii) Actual Billing | Rs. Crore | | | 661.51 | 165.85 | 201.51 | |
| | iv) Revenue Realisation | Rs. Crore | | | 120 | 130 | 120 | |
| | v) % of Realisation | % | | | 18.14% | 78.38% | 59.55% | |
| II | Reduction in T & D Losses | % | | | | | | |
| III | i) Level of Cash Losses of the SEB (net of increase attributable to tariff revision) | Rs. Crore | | | | | | |
| | ii) Reduction of Cash Losses of the SEB as compared to previous year | Rs. Crore | | | | | | |
| | Not Assessable as because HT Meterings are not installed to assess the actual loss of T&D. The Metering system shall be installed during this year under APDRP. | | | | | | | |
| | | | | | | | | |
| | Note:- System Metering at 11 KV feeders is being installed during this financial year and will be completed soon. | | | | | | | |

Break up of Outlay - Power Sector

State : Arunachal Pradesh

(Rs. Crore)

| Sl. No. | Item | Tenth Plan Approved Outlay | 2003 - 04 | | | 2004 - 05 | | | 2005 - 06 | | | 2006 - 07 | | | 2007 - 08 | | |
|---------|-------------------------------------|---|-----------------|--------------------|--------------|-----------------|--------------------|--------------|-----------------|--------------------|--------------|-----------------|--------------------|--------------|-----------------|------------------|--------------|
| | | | Approved Outlay | Actual Expenditure | | Approved Outlay | Actual Expenditure | | Approved Outlay | Actual Expenditure | | Approved Outlay | Actual Expenditure | | Approved Outlay | Expenditure (RE) | |
| | | | | Plan | Outside Plan | | Plan | Outside Plan | | Plan | Outside Plan | | Plan | Outside Plan | | Plan | Outside Plan |
| 1 | Generation Schemes | 114.40 | | | | | | 31.66 | 26.42 | | 15.54 | 27.47 | | 41.7 | 41.70 | | |
| 2 | R and M Schemes | | | | | | | 19.90 | 19.88 | | 28.45 | 9 | | 9.03 | 9.03 | | |
| 3 | Transmission & Distribution Schemes | 129.89 | | | | | | | | | 17.92 | 18.92 | 6.43 | 23.5 | 23.50 | 20.00 | |
| 4 | Rural Electrification Schemes | 139.50 | | | | | | 3.00 | 1.59 | | 9.50 | 7 | | 3 | 3.00 | | |
| 5 | Miscellaneous Schemes | 107.40 | | | | | | 77.89 | 75.62 | | 44.43 | 60.13 | | 53.78 | 53.78 | | |
| 6 | Total | 491.19 | 114.52 | 84.81 | | 155.30 | 114.46 | | 132.45 | 123.5 | | 115.84 | 122.5 | 6.43 | 131.01 | 131.0 | 20.00 |
| | Note:- | Please give breakup of the approved and actual outlays. In case of 2005 - 06 and 2006 - 07, the state Govt. may provide the actual / RE figure. The figures indicated are given by the State Govt. of Planning Commission. Correction may be made wherever necessary. | | | | | | | | | | | | | | | |