

1. SAMAST (Scheduling, Metering and settlement of Transmission in Electricity):

1.1. SAMAST project was implemented to create a robust, scalable and transparent framework of scheduling, metering, accounting and settlement of energy transactions at intra-state as well as interstate level, achieve operational excellence and Reduce margin of errors while quantifying the scheduling, metering, accounting and settlement of energy transactions.

Table 1. 1: Cost Break up Project SAMAST (Rs Crores)

| S.N. | Project Details | Cost Drivers | Estimated Cost. |
|------|--|--|-----------------|
| 1 | Appointment of agency for implementation of balance work of SAMAST in Bihar. | a. Software and Hardware including Licensing. | 11.75 |
| | | b. Civil Work | 0.30 |
| | | c. AMC (for 05 years for Hardware & Software after post warranty period i.e 01 for S/W and 03 years for H/W) | 9.44 |
| | | d. Manpower cost for 05 year. | 4.42 |
| | | Total | 25.91 |

Table 1. 2: Payment Terms Project SAMAST (Rs Crores)

| Parameter | FY 2018-19 (Rs Crores) | FY2019-20 (Projected) | FY2020-21 (Projected) | FY2021-22 (Projected) |
|--------------|------------------------|-----------------------|-----------------------|-----------------------|
| IRF | 0.30 | Under implementation | Under warranty period | 2.62 |
| PSDF | 0.90* | 10.85 | -do- | N/A |
| Total | 1.20 | 10.85 | | 2.62 |

*In current year 0.66 crore may be funded from IRF on recoupment basis.

1.2. Capital Expenditure (CWIP) schedule out of PSDF fund for the control period 2019-20 up to 2021-22.

Table 1. 3: Source of fund SAMAST (Rs Crores)

| Sl. No | Name of Scheme | Commissioning Date/LDOC) | Total project cost | Tentative Expenditures (Rs. In Cr) | | | | Mode of Finance |
|--------|--|--------------------------|--------------------|------------------------------------|------------|------------|------------|--|
| | | | | FY 2018-19 | FY 2019-20 | FY 2020-21 | FY 2021-22 | |
| 1 | Appointment of agency for implementation of balance work of SAMAST in Bihar against NIT No.115/PR/BSPTCL/2018. | FY - 2019-20 | 11.75 | 0.90 | 10.85 | - | - | PSDF grant 100% i.e 11.75Cr (excluding Civil Work) |

1.3. Capital Expenditure CWIP through Internal Resources Fund (civil work)

Table 1. 4 Capital Expenditure CWIP through Internal Resources Fund (Rs Crores)

| Name of Work | Contract Amount for Project (Rs. in Cr.) | FY: 2018-19 | FY: 2019-20 | FY: 2020-21 | FY: 2021-22 |
|--|--|-------------|-------------|-------------|-------------|
| Appointment of agency for implementation | 25.91 | 0.30 | Nil | Nil | Nil |

1.4. Capitalisation of assets for the control period 2019-20 up to 2021-22.

Table 1. 5: Capitalization of assets

| Name of Work | FY: 2017-18 | FY: 2018-19 | FY: 2019-20 | FY: 2020-21 | FY: 2021-22 |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|
| Assets likely to be capitalised | - | - | 12.05 | 0 | 0 |

1.5. Revenue expenditure through IRF (for the control period 2019-20 up to 2021-22).

Table 1. 6: Revenue expenditure through IRF

| Name of Work (AMC) | FY: 2018-19 | FY: 2019-20 | FY: 2020-21 | FY: 2021-22 |
|--------------------|-------------|-------------|-------------|-------------|
| S/F | | | | 1.72 |
| H/W | | | | - |
| Manpower | | | | 0.89 |

2. Summary of O&M Expenses

| Sl. No | Particulars | Ensuing years (Projection) | | |
|--------|-------------------------------------|----------------------------|-------------|-------------|
| | | FY 2019-20 | FY 2020-21 | FY 2021-22 |
| 1 | Repair & Maintenance Expenses | 0.63 | 0.66 | 3.31 |
| 2 | Employee Expenses | 3.67 | 3.82 | 4.24 |
| 2 | Administrative and General Expenses | 0.55 | 0.57 | 0.59 |
| | Less: | | | |
| 4 | Expenses Capitalized | 0 | 0 | 0 |
| | Net O&M Expenses | 4.85 | 5.05 | 8.14 |

*in MYT net O&M Expenses data have been corrected as mention in Business Plan of SLDC.

3. Annual Revenue Requirement

| Sl No. | Particulars | 2017-18 | | 2018-19 | Ensuing Years (Projections) | | |
|------------|---|--------------------|-------------|-------------|-----------------------------|-------------|-------------|
| | | Approved in MYT/RE | Actual | | 2019-20 | 2020-21 | 2021-22 |
| A. | Income from Transmission Function | | | | | | |
| 1 | Receipts | | | | | | |
| A | Transmission/Wheeling Charges at current tariff rates | 4.13 | 5.42 | 4.67 | 4.86 | 5.05 | 5.53 |
| B | Subsidy from Govt. (If any) | | | | | | |
| | Total Receipts (A) | 4.13 | 5.42 | 4.67 | 4.86 | 5.05 | 5.53 |
| B | Expenditure | | | | | | |
| 1 | O&M Expenses | | | | | | |
| I | Employee Expenses | 3.12 | 3.39 | 3.53 | 3.67 | 3.82 | 4.24 |
| ii | R&M Expense | 0.44 | 0.59 | 0.61 | 0.63 | 0.66 | 3.31 |
| iii | A&G Expense | 0.44 | 0.51 | 0.53 | 0.55 | 0.57 | 0.59 |
| iv. | Share of Holding Company Expenses | | | | | | |
| | Total O&M expenses (i+ii+iii+iv) | 4.00 | 4.49 | 4.67 | 4.85 | 5.05 | 8.14 |
| | Return on Equity | | | | | | |
| | Depreciation | | | | 0.00 | 0.01 | 0.01 |
| 4 | Interest and finance charges on Loan Capital | | | | | | |
| | Less: IDC, if any | | | | | | |
| 5 | Interest on Working Capital | 0.13 | 0.16 | 0.15 | 0.13 | 0.13 | 0.18 |

| SI No. | Particulars | 2017-18 | | 2018-19 | Ensuring Years (Projections) | | |
|----------|---|--------------------|-------------|-------------|------------------------------|-------------|-------------|
| | | Approved in MYT/RE | Actual | | 2019-20 | 2020-21 | 2021-22 |
| 6 | Contribution towards Contingency Reserve | | | | | | |
| 7 | Bad Debts | | | | | | |
| | Total Expenditure (B) | 4.13 | 4.65 | 4.82 | 4.98 | 5.19 | 8.33 |
| C | Other Deductions | | | | | | |
| 1 | Income from other Business | | 0.02 | 0.09 | 0.11 | 0.13 | 0.14 |
| 2 | Non-tariff income | | | | | | |
| 3 | Revenue from Short Term transmission charges | | | | | | |
| | Total Other Deductions (C) | 0 | 0.02 | 0.09 | 0.11 | 0.13 | 0.14 |
| D | Net ARR for Transmission Function(B-C) | 4.13 | 4.63 | 4.73 | 4.87 | 5.06 | 8.19 |
| E | Shortfall/Excess before tariff revision impact (A-D) | 0 | 0.79 | -0.06 | -0.01 | -0.01 | -2.66 |
| F | Tariff Revision Impact | | 1.29 | | | | |
| G | Shortfall/Excess after tariff revision impact (E-F) | 0 | -0.50 | -0.06 | -0.01 | -0.01 | -2.66 |

1. Summary of O&M Expenses

| Sl. No | Particulars | Ensuing years (Projection) | | |
|--------|-------------------------------------|----------------------------|-------------|-------------|
| | | FY 2019-20 | FY 2020-21 | FY 2021-22 |
| 1 | Repair & Maintenance Expenses | 0.63 | 0.66 | 3.31 |
| 2 | Employee Expenses | 3.67 | 3.82 | 3.97 |
| 2 | Administrative and General Expenses | 0.55 | 0.57 | 0.59 |
| | Less: | | | |
| 4 | Expenses Capitalized | 0 | 0 | 0 |
| | Net O&M Expenses | 4.85 | 5.05 | 7.87 |

*in MYT net O&M Expenses data have been corrected as mention in Business Plan of SLDC.

2. Annual Revenue Requirement

| Sl No. | Particulars | 2017-18 | | 2018-19 | Ensuring Years (Projections) | | |
|------------|---|--------------------|-------------|--------------|------------------------------|--------------|--------------|
| | | Approved in MYT/RE | Actual | | 2019-20 | 2020-21 | 2021-22 |
| A. | Income from Transmission Function | | | | | | |
| 1 | Receipts | | | | | | |
| A | Transmission/Wheeling Charges at current tariff rates | 4.13 | 5.42 | 4.67 | 4.86 | 5.05 | 5.25 |
| B | Subsidy from Govt. (If any) | | | | | | |
| | Total Receipts (A) | 4.13 | 5.42 | 4.67 | 4.86 | 5.05 | 5.25 |
| B | Expenditure | | | | | | |
| 1 | O&M Expenses | | | | | | |
| I | Employee Expenses | 3.12 | 3.39 | 3.53 | 3.67 | 3.82 | 3.97 |
| ii | R&M Expense | 0.44 | 0.59 | 0.61 | 0.63 | 0.66 | 3.31 |
| iii | A&G Expense | 0.44 | 0.51 | 0.53 | 0.55 | 0.57 | 0.59 |
| iv. | Share of Holding Company Expenses | | | | | | |
| | Total O&M expenses (i+ii+iii+iv) | 4 | 4.49 | 4.67 | 4.85 | 5.05 | 7.87 |
| | Return on Equity | | | | | | |
| | Depreciation | | | | 0 | 0.01 | 0.01 |
| 4 | Interest and finance charges on Loan Capital | | | | | | |
| | Less: IDC, if any | | | | | | |
| 5 | Interest on Working Capital | 0.13 | 0.16 | 0.15 | 0.13 | 0.13 | 0.17 |
| 6 | Contribution towards Contingency Reserve | | | | | | |
| 7 | Bad Debts | | | | | | |
| | Total Expenditure (B) | 4.13 | 4.65 | 4.82 | 4.98 | 5.19 | 8.05 |
| C | Other Deductions | | | | | | |
| 1 | Income from other Business | | 0.02 | 0.09 | 0.11 | 0.13 | 0.14 |
| 2 | Non-tariff income | | | | | | |
| 3 | Revenue from Short Term transmission charges | | | | | | |
| | Total Other Deductions (C) | 0 | 0.02 | 0.09 | 0.11 | 0.13 | 0.14 |
| D | Net ARR for Transmission Function(B-C) | 4.13 | 4.63 | 4.73 | 4.87 | 5.06 | 7.91 |
| E | Shortfall/Excess before tariff revision impact (A-D) | 0 | 0.79 | -0.06 | -0.01 | -0.01 | -2.66 |
| F | Tariff Revision Impact | | 1.29 | | | | |
| G | Shortfall/Excess after tariff revision impact (E-F) | 0 | -0.5 | -0.06 | -0.01 | -0.01 | -2.66 |