# CENTRALELEC TRICITY REG ULATORY COMMISSION NEW DEHI 

Petition No.173/2010<br>Coram: Dr. Pramod Deo, Chairperson<br>Shri S.Jayaraman, Member<br>Shri V.S.Verma, Member

DATE OF HEARING: 26.10.2010

## In the matter of

Determination of transmission ta riff for combined stage-I asset consisting of (a) 220 kV Allahabad Rewa Road D/C Transmission line Ckt-l; (b) 220 kV Allahabad-Rewa Road transmission line Ckt-II; (c ) LLO of 220 kV ModipuramNara transmission line; (d) ULO of 220 kV Modipuram-Simbholi transmission line and (e) 220 kV Allahabad-Phulpur S/C transmission line (Asset-I); and Stage-II asset consisting of 220 kV S/C Meerut-Shatabdinagar transmission line (Asset-II) under Transmission System associated with 220 kV system strengthening Scheme in UP in Northem Region for the tariff period 2009-14.

## And in the matter of

## Power Grid Comoration of India Limited, Gurgaon <br> ..Petitioner Vs

1. Rajasthan Rajya Vidyut Prasaran Nigam Limited, J aipur
2. Ajmer Vidyut Vita ran Nigam Ltd., J a ipur
3. J a ipur Vidyut Vita ran Nigam Ltd, J a ipur
4. J odhpur Vidyut Vita ran Nigam Ltd, J aipur
5. Himachal Pra desh State Elec tric ity Boa rd, Shimla
6. Punjab State Electricity Board, Patiala
7. Haryana Power Purchase Centre, Panchkula
8. Power Development Department, Govt. of J \&K, J a mmu
9. Uttar Pradesh Power Coporation Ltd, Lucknow
10. Delhi Transco Ltd, New Delhi
11. BSES Yamuna Power Limited, New Delhi
12. BSES Rajdha ni Power Ltd., New Delhi
13. North Delhi Power Ltd., New Delhi
14. Chandigarh Administration, Chandigarh
15. Uttarakhand Power Comoration Ltd, Dehradun
16. North Central Railway, Allahabad
17. New Delhi Municipal Council, New Delhi .....Respondents

## The following were present

1. Shri U.K.Tyagi, PGCIL
2. Shri M.M. Mondal, PG CIL
3. Shri Rajiv Gupta, PGCIL
4. Shri Rakesh Prasad, PGCIL

## ORDER

The petition has been filed for approval of tariff in respect of combined stage-I asset consisting of (a) 220 kV Allahabad Rewa Road D/C transmission line Ckt-l; (b) 220 kV Allahabad-Rewa Road transmission line, Ckt-II; (c ) LLO of 220 kV Modipuram-Nara transmission line; (d) ULO of 220 kV ModipuramSimbholi transmission line; and (e) 220 kV Allahabad-Phulpur S/C transmission line (Asset-I) and Stage-II asset consisting of 220 kV S/C MeerutShatabdinagar transmission line (Asset-II) under Transmission System (the transmission system) associated with 220 kV System Strengthening Scheme in Uttar Pradesh in Northem Region for the period 1.4.2009 to 31.3.2014, based on the Central Electricity Regulatory Commission (Terms and Conditions of Tanff) Regulations, 2009 (hereinafter referred to as "the 2009 regulations"). The petitioner has made the following additional prayers:-
(a) To invoke the provision of Regulation 44 of the 2009 regulations for relaxation of regulations 15 (3) of the 2009 regulations so that grossing up the base rate shall be considering the revised rate of MATasper the Finance Act, 2009 for the year 2009-10 and as per the Finance Act, 2010 for the year 2010-11 and subsequent years and allow consequential impact on tariff for 2009-14 period ac cordingly;
(b) In case of assets being combined to calculate the transmission charges, allow to it to recover full depreciation (90\% of the gross block) of the assets during its useful life (25 years for sub-station and 35 years for transmission lines) reckoning from its actual date of commercial operation and to pemit to treat the recovery of depreciation after achieving the useful life by an asset ( to be reckoned from the actual date of commercial operation) in accordance with para 4.0 of the petition;
(c) To approve reimbursement of petition filing fee and publication of notices in the newspaper as per the 2009 regulations;
(d) Allow to bill and recover the service tax on transmission charges separately from the respondents;
(e) Allow to bill and adjust impact on interest on loan due to change in interest rate on account of floating rate of interest applicable during 2009-14; and
(f) Allow reimbursement of lic ence fee separately from the respondents.
2. The annual transmission charges for the period from 1.4.2004 to 31.3.2009 were detemined by the Commission in its following orders at a gross block of ₹2046.49 lakh and ₹344.86 lakh for Asset-I and Asset-II, respectively as on 31.3.2009:

| Asset | Capital Cost Admitted by the Commission |  | Order's of the Commission |
| :---: | :---: | :---: | :---: |
|  | Combined Stage-I with Notional date of commercial operation: 1.6.2004 (Asset-I) | Stage-II with Notional date of commercial operation: 1.1.2006 (Asset-II) |  |
| (a) 220 kV Allahbad-Rewa Road D/C Transmission Line ckt-I | 110.07 | ------ | Dated 9.5.2006 in Petition No. 133/2005 |
| (b) 220kV Allahbad-Rewa Road D/C Transmission Line ckt-II | 50.46 | ----- | Dated 9.3.2007 in IA No. 8/2007 in Petition No. 133/2005 |
| (c) LLO of 220 kV ModipuramNara transmission Line | 107.13 | ----- | Dated 9.3.2007 in IA No. 8/2007 in Petition no. 133/2005 |
| (d) LLO of 220 kV ModipuramSimbholi Tra nsmission Line | 283.61 | ----- | Dated 9.3.2007 in IA No. 8/2007 in Petition No. 133/2005 |
| (e) 220kV Allaha bad-Phulpur S/C Transmission Line | 1495.22 | -- | Dated 26.10.2006 in Petition No. 130/2005 |
| (f) 220 kV S/C MeerutShatabdinagar Transmission Line | 0.00 | 344.86 | Dated 8.6.2009 in Petition No. 31/2009 |
|  | 2046.49 | 344.86 |  |

3. The revised cost estimate for the transmission system was approved by Ministry of Power under its letter dated 15.5.2001 at an estimated cost of ₹ 15090.00 lakh which included IDC of ₹1975.00 lakh.
4. The petitioner has claimed the transmission charges as under:
(₹ in lakh)

|  | Asset-I |  |  |  | Asset-II |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\mathbf{2 0 0 9 -}$ <br> $\mathbf{1 0}$ | $\mathbf{2 0 1 0}$ <br> $\mathbf{1 1}$ | $\mathbf{2 0 1 1}$ <br> $\mathbf{1 2}$ | $\mathbf{2 0 1 2 -}$ <br> $\mathbf{1 3}$ | $\mathbf{2 0 1 3 -}$ <br> $\mathbf{1 4}$ | $\mathbf{2 0 0 9}$ <br> $\mathbf{1 0}$ | $\mathbf{2 0 1 0}$ <br> $\mathbf{1 1}$ | $\mathbf{2 0 1 1}$ <br> $\mathbf{1 2}$ | $\mathbf{2 0 1 2 -}$ <br> $\mathbf{1 3}$ | $\mathbf{2 0 1 3}$ <br> $\mathbf{1 4}$ |
| Depreciation | 108.09 | 108.09 | 108.09 | 108.09 | 108.09 | 19.27 | 19.27 | 19.27 | 19.27 | 19.27 |
| Interest on <br> Loan | 80.05 | 71.10 | 62.15 | 53.19 | 44.22 | 13.91 | 12.14 | 10.36 | 8.59 | 6.81 |
| Retum on <br> Equity | 105.03 | 105.03 | 105.03 | 105.03 | 105.03 | 20.38 | 20.38 | 20.38 | 20.38 | 20.38 |
| Interest on <br> Working <br> Capital | 6.66 | 6.50 | 6.35 | 6.20 | 6.05 | 1.19 | 1.16 | 1.13 | 1.09 | 1.06 |
| O \& M <br> Expenses | 10.90 | 11.51 | 12.19 | 12.91 | 13.64 | 1.47 | 1.56 | 1.65 | 1.75 | 1.84 |
| Total | $\mathbf{3 1 0 . 7 3}$ | $\mathbf{3 0 2 . 2 3}$ | $\mathbf{2 9 3 . 8 1}$ | $\mathbf{2 8 5 . 4 2}$ | $\mathbf{2 7 7 . 0 3}$ | $\mathbf{5 6 . 2 2}$ | $\mathbf{5 4 . 5 1}$ | $\mathbf{5 2 . 7 9}$ | $\mathbf{5 1 . 0 8}$ | $\mathbf{4 9 . 3 6}$ |

5. The deta ils submitted by the petitioner in support of its claim for interest on working capital are given hereunder:
(₹ in lakh)

|  | Asset-I |  |  |  | Asset-II |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\mathbf{2 0 0 9 - 1 0}$ | $\mathbf{2 0 1 0 - 1 1}$ | $\mathbf{2 0 1 1 - 1 2}$ | $\mathbf{2 0 1 2 - 1 3}$ | $\mathbf{2 0 1 3 - 1 4}$ | $\mathbf{2 0 0 9 - 1 0}$ | $\mathbf{2 0 1 0 - 1 1}$ | $\mathbf{2 0 1 1 - 1 2}$ | $\mathbf{2 0 1 2 - 1 3}$ | $\mathbf{2 0 1 3 - 1 4}$ |
| Ma intena nce <br> Spa res | 1.64 | 1.73 | 1.83 | 1.94 | 2.05 | 0.22 | 0.23 | 0.25 | 0.26 | 0.28 |
| O \& M <br> expenses | 0.91 | 0.96 | 1.02 | 1.08 | 1.14 | 0.12 | 0.13 | 0.14 | 0.15 | 0.15 |
| Receiva bles | 51.79 | 50.37 | 48.97 | 47.57 | 46.17 | 9.37 | 9.09 | 8.80 | 8.51 | 8.23 |
| Total | $\mathbf{5 4 . 3 4}$ | $\mathbf{5 3 . 0 6}$ | $\mathbf{5 1 . 8 2}$ | $\mathbf{5 0 . 5 9}$ | $\mathbf{4 9 . 3 6}$ | $\mathbf{9 . 7 1}$ | $\mathbf{9 . 4 5}$ | $\mathbf{9 . 1 8}$ | $\mathbf{8 . 9 2}$ | $\mathbf{8 . 6 6}$ |
| Rate of <br> Interest | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ |
| Interest | 6.66 | 6.50 | 6.35 | 6.20 | 6.05 | 1.19 | 1.16 | 1.12 | 1.09 | 1.06 |

6. No comments or suggestions have been received from the general public in response to the notices published by the petitioner under section 64 of the Electric ity Act, 2003
7. Uttar Pradesh Power Comoration Ltd. (UPPCL) has made following submission:
(i) No floating rate of interest have been contracted;
(ii) The petitioner be directed to recalculate the figures of interest on loan in Form 13A since the beneficiaries have been over charged on account of higher value of net nomative loan during the year 2009-10;
(iii) In regard to levy of income tax on the asset during 2009-11 under Section 80-IA of the Income Tax Act, 1961, UPPCL has submitted that Section 80-IA of Income Tax Act, 1961 provides $100 \%$ deduction in respect of profits for 10 consecutive
assessment years and assessee may opt for any 10 years out of 15 years beginning wit the year in which the undertaking starts the eligible activity in respect of an undertaking which starts transmission or distribution by laying a network of new transmission or distribution lines during1.4.1999 to 31.3.2011. In the present case, the date of commercial operation of Asset-I and Asset-II is between 1.1.2003 to 1.6.2004 and 1.1.2006, respectively, therefore, no income tax should be leviable on these assets. Thus, the grossing up of base rate of retum on equity in respect of income ta $x$ is not at all justified;
(iv) In regard to treatment of depreciation of combined assets, UPPCL has submitted that the Commission should issue guidelines forthe same and the 2009 regulations be amended;
(iii) Licence fee being the onus of the licensee, it should not be passed over to the beneficiaries;
(iv) The prayer of petitioner in regard to bill and recover the service tax is not tenable since the Govemment of India vide its notification No. 11/2010 dated 27.2.2010 and read with notification No. 45/2010 dated 20.7.2010 has exempted the transmission of electricity from service tax; and
(v) In regard to floating rate of interest, UPPCL has submitted that the 2009 regulation provide only for swapping of loans in the interest of consumers. Therefore, the prayer made by the petitioner is not tenable
8. We have carefully considered the objections of UPPCL. The tariff of the transmission assets including treatment of depreciation and floating rate of interest has been detemined in this order strictly in accordance with the provisions of the 2009 regulations. As regards the reimbursement of licence fee, a view in the matter is yet to taken by the Commission. As regards the MATrate, service tax and $O \& M$ expenses, the same has been dealt with in later part of the order.

## CAPITALCOST

9. As per clause (2) of Regulation 7 of the 2009 regulations, the project cost admitted by the Commission for determination of tariff prior to 1.4.2009 shall form the basis for determination of ta riff.
10. The petitioner has claimed the capital expenditure of ₹2046.49 lakh and ₹344.86 lakh for Asset-I and Asset-II, respectively. The petitioner has not claimed a ny projected additional capital expenditure.
11. Accordingly, gross block of ₹ 2046.49 lakh and ₹ 344.86 lakh for Asset-I and Asset-II, respectively as on 31.3.2009 has been considered for the purpose of ta riff.

## DEBT- EQUITY RATIO

12. Clause (2) of Regulation 12 of the 2009 regulations inter alia provides that,-
"(2) In case of the generating station and the transmission system declared under commercial operation prior to 1.4.2009, debt-equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2009 shall be considered."
13. The petitioner has claimed tariff based on debt-equity ratio of 70.64:29.36 and 66.19:33.81 for Asset-I and Asset-II, respectively as admitted as on 31.3.2009. The same debt-equity ratio has been considered for the purpose of tariff.

## REIURN ON EQUITY

14. Regulation 15 of the 2009 regulations provides that,-
"15. (1) Retum on equity shall be computed in rupee tems, on the equity base detemined in accordance with regulation 12.
(2) Retum on equity shall be computed on pre-tax basis at the base rate of $15.5 \%$ to be grossed up as per clause (3) of this regulation:

Provided that in case of projects commissioned on or after 1st April, 2009, an additional retum of $0.5 \%$ shall be allowed if such projects are completed within the timeline specified in Appendix-II:

Provided further that the additional retum of $0.5 \%$ shall not be admissible if the project is not completed within the timeline specified above for reasons whatsoever.
(3) The rate of retum on equity shall be computed by grossing up the base rate with the nomal tax rate for the year 2008-09 applicable to the concemed generating company or the transmission licensee, as the case maybe:

Provided that retum on equity with respect to the actual tax rate applicable to the generating company or the transmission licensee, as the case may be, in line with the provisions of the relevant Finance Acts of the respective year during the tariff period shall be trued up separately for each year of the tariff period along with the tariff petition filed for the next tariff period.
(4) Rate of retum on equity shall be rounded off to three decimal points and be computed asperthe formula given below:
Rate of pre-tax retum on equity = Base rate / (1-t)
Where $t$ is the applicable tax rate in accordance with clause (3) of this regulation.

Illustration.-
(i) In case of the generating company or the transmission licensee paying Minimum Altemate Tax (MAT) @ 11.33\% including surcharge and cess:

Rate of retum on equity $=15.50 /(1-0.1133)=17.481 \%$
(ii) In case of generating company or the transmission licensee paying nomal comorate tax @ 33.99\% including surc harge and cess:

Rate of retum on equity $=15.50 /(1-0.3399)=23.481 \%$ "
15. The petitioner has computed retum on equity on pre-tax basis on 11.33\% MAT in accordance with tax rate applicable for the year 2008-09 and claimed retum on equity of ₹105.03 lakh and ₹20.38 lakh each year during the tariff period @ $17.481 \%$ against the equity base of ₹ 600.83 lakh and ₹116.58 lakh for Asset-I and Asset-II, respectively. This has been found to be in order. Accordingly, the petitioner shall be entitled to retum on equity @ ₹105.03 lakh and ₹20.38 lakh each year for Asset-I and Asset-II, respectively during the tariff period, asclaimed.
16. The Commission vide its order dated 3.8.2010 in Petition No. 17/2010 has already taken a decision to amend the 2009 regulations for allowing grossing up of the base rate of retum with the applicable tax rate as per the Finance

Act for the relevant year and for direct settlement of tax liability of between the generating company/transmission licensee and the beneficiaries/long term transmission customers on year to year basis. The process of amendment to the 2009 regulation is under way and will address the grievance of the petitioner with regard to the MATrate.

## INIERESTON LOAN

17. Regulation 16 of the 2009 regulations provides that,-
"16. (1) The loans amived at in the manner indicated in regulation 12 shall be considered asgross nomative loan for calculation of interest on loan.
(2) The nomative loan outstanding as on 1.4.2009 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2009 from the gross nomative loan.
(3) The repayment for the year of the ta riff period 2009-14 shall be deemed to be equal to the depreciation allowed for that year:
(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the annual depreciation allowed,.
(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each yearapplicable to the project:

Provided that if there is no actual loan for a particular year but nomative loan is still outstanding, the last available weighted a verage rate of interest shall be considered:

Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.
(6) The interest on loan shall be calculated on the nomative average loan of the year by applying the weighted average rate of interest.
(7) The generating company or the transmission licensee, as the case may be, shall make every effort to re-finance the loan aslong as it results in net savings on interest and in that event the costs associated with such re-financing shall be bome by the beneficiaries and the net savings shall be shared between
the beneficiaries and the generating company or the transmission licensee, as the case may be, in the ratio of 2:1.
(8) The changes to the terms and conditions of the loans shall be reflected from the date of such re-fina ncing.
(9) In case of dispute, any of the parties may make an application in accordance with the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999, as amended from time to time, including statutory re-enactment thereof for settlement of the dispute:

Provided that the beneficiary or the transmission customers shall not withhold any payment on account of the interest claimed by the generating company or the transmission licensee during the pendency of any dispute arising out of re-financing of loan."
18. The interest on loan has been worked out as detailed below:
(i) Gross amount of loan, repayment of instalments and rate of interest and weighted average rate of interest on actual loan have been considered as per the petition;
(ii) The repayment for the tariff period 2009-14 shall be deemed to be equal to the depreciation allowed for that period;
(iii) Moratorium period availed by the transmission licensee, the repayment of the loan shall be considered from the first year of commercial operation of the project and shall be equal to the a nnual depreciation allowed;
(iv) Weighted average rate of interest on actual average loan worked out as per (i) above has been applied on the notional average loan during the year to a mive at the interest on loan;
(v) The interest on loan has been calculated on the basis of rate prevailing as on 1.4.2009. The weighted average rate of interest as on 1.4.2009 shall be basis for the purpose of calculation of interest as per the 2009 regulations. Therefore, interest of loan has been calculated based on the floating rate as on 1.4.2009. Any charge in rate of interest subsequent to 1.4 .2009 will be considered at the time of truing up.
19. Based on the above, the year-wise details of interest worked out are given hereunder:
(₹ in lakh)

|  | Asset-I |  |  |  |  |  | Asset-II |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Details of loan |  | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |  | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| Gross Nomative Loan | 1445.66 | 1445.66 | 1445.66 | 1445.66 | 1445.66 | 1445.66 | 228.28 | 228.28 | 228.28 | 228.28 | 228.28 | 228.28 |
| Cumulative Repayment up to Previous Year |  | 404.76 | 512.85 | 620.94 | 729.04 | 837.13 |  | 66.87 | 86.14 | 105.41 | 124.68 | 143.96 |
| Net LoanOpening |  | 1040.90 | 932.80 | 824.71 | 716.62 | 608.53 |  | 161.41 | 142.14 | 122.87 | 103.60 | 84.32 |
| Addition due to Additional Capitalisation |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Repayment during the year |  | 108.09 | 108.09 | 108.09 | 108.09 | 108.09 |  | 19.27 | 19.27 | 19.27 | 19.27 | 19.27 |
| Net LoanClosing |  | 932.80 | 824.71 | 716.62 | 608.53 | 500.43 |  | 142.14 | 122.87 | 103.60 | 84.32 | 65.05 |
| Average Loan |  | 986.85 | 878.76 | 770.66 | 662.57 | 554.48 |  | 151.77 | 132.50 | 113.23 | 93.96 | 74.69 |
| Weighted Average Rate of Interest on Loan |  | 8.1115\% | 8.0910\% | 8.0642\% | 8.0276\% | 7.9746\% |  | 9.1674\% | 9.1609\% | 9.1523\% | 9.1402\% | 9.1220\% |
| Interest |  | 80.05 | 71.10 | 62.15 | 53.19 | 44.22 |  | 13.91 | 12.14 | 10.36 | 8.59 | 6.81 |

20. The detailed calculations in support of the weighted revised average rate of interest for Asset-II are conta ined in Annexure-I and Annexure-II attached.

## DEPRECIATION

21. Regulation 17 of the 2009 regulations provides for computation of depreciation in the following manner, namely:
"17. (1) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission.
(2) The salvage value of the asset shall be considered as $10 \%$ and depreciation shall be allowed up to maximum of $90 \%$ of the capital cost of the asset.
xxxx
(3) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.
(4) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-III to these regulations for the assets of the generating station and transmission system:

Provided that, the remaining depreciable value as on 31st March of the year closing after a period of 12 years from date of commercial operation shall be spread over the balance useful life of the assets.
(5) In case of the existing projects, the balance depreciable value as on 1.4.2009 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.3.2009 from the gross depreciable value of the assets.
(6) Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis."
22. Asset-I and Asset-II were declared under commercial operation on
1.4.2004 and 1.1.2006, respectively and accordingly they will complete 12 years beyond 2013-14. Thus, depreciation has been calculated annually
based on Straight line method and rates specified in Appendix-III of the 2009 regulations.
23. Depreciation for the periods 1.4. 2009 to 31.3.2014 works out to ₹108.09 lakh for Asset-I by applying the rate of depreciation of $5.2818 \%$. Depreciation in respect of Asset-II for the period 1.4.2009 to 31.3.2014 has been worked out as ₹19.27 lakh by applying rate of depreciation 5.5882\%. The computation of depreciation is given in the table below:

|  | Asset-I |  |  |  |  |  | Asset-II |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Depreciation |  | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |  | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| As per last orders | 2046.49 | 2046.49 | 2046.49 | 2046.49 | 2046.49 | 2046.49 | 344.86 | 344.86 | 344.86 | 344.86 | 344.86 | 344.86 |
| Addition during 2009-14 due to projected Additional C a pitalisation |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross block as on 31.3.2009 |  | 2046.49 | 2046.49 | 2046.49 | 2046.49 | 2046.49 |  | 344.86 | 344.86 | 344.86 | 344.86 | 344.86 |
| Average gross block |  | 2046.49 | 2046.49 | 2046.49 | 2046.49 | 2046.49 |  | 344.86 | 344.86 | 344.86 | 344.86 | 344.86 |
| Rate of Depreciation |  | 5.2818\% | 5.2818\% | 5.2818\% | 5.2818\% | 5.2818\% |  | 5.5882\% | 5.5882\% | 5.5882\% | 5.5882\% | 5.5882\% |
| Depreciable Value | 90\% | 1841.84 | 1841.84 | 1841.84 | 1841.84 | 1841.84 |  | 310.37 | 310.37 | 310.37 | 310.37 | 310.37 |
| Remaining Depreciable Value |  | 1437.08 | 1328.99 | 1220.90 | 1112.80 | 1004.71 |  | 246.04 | 226.77 | 207.50 | 188.23 | 168.96 |
| Depreciation |  | 108.09 | 108.09 | 108.09 | 108.09 | 108.09 | 958.73 | 19.27 | 19.27 | 19.27 | 19.27 | 19.27 |
| Cumula tive Depreciation/ Advance against Depreciation |  | 512.85 | 620.94 | 729.04 | 837.13 | 945.22 |  | 83.60 | 102.87 | 122.14 | 141.42 | 160.69 |

## OPERATION \& MAINIENANCE EXPENSES

24. In accordance with clause (g) of Regulation 19 the 2009 regulations, the following noms for 400 kV S/C Twin conductor, $400 \mathrm{kV}, \mathrm{D} / \mathrm{C}$ Twin
conductor, 220 kV D/C, Single conductor transmission lines, 400 kV and 220 kV bays and are prescribed for $O \& M$ expenses:
(₹ in lakh)

|  | Year |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | 2009-10 | 2010-11 | 2011-12 | $\mathbf{2 0 1 2 - 1 3}$ | $\mathbf{2 0 1 3 - 1 4}$ |
| $220 \mathrm{kV} \mathrm{S/C} \mathrm{single} \mathrm{conductor} \mathrm{transmission}$ <br> line (₹ in lakh/per ckt.km.) | 0.179 | 0.189 | 0.2 | 0.212 | 0.224 |
| 220 kV D/C single conductor transmission <br> line (₹ in lakh/perckt.km.) | 0.269 | 0.284 | 0.301 | 0.318 | 0.336 |

25. The petitioner's entitlement to $\mathrm{O} \& \mathrm{M}$ expenses for Asset-I and Asset-II has been worked out as given hereunder:
(₹ in lakh)

|  |  | Year |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  |  | $\mathbf{2 0 0 9 - 1 0}$ | $\mathbf{2 0 1 0 - 1 1}$ | $\mathbf{2 0 1 1 - 1 2}$ | $\mathbf{2 0 1 2 - 1 3}$ | $\mathbf{2 0 1 3 - 1 4}$ |
| Asset-I | 220 kV S/C single conductor <br> transmission line (38.733 <br> ckt.km.) | 6.94 | 7.33 | 7.75 | 8.22 | 8.69 |
|  | 220 KV D/C single <br> conductor transmission line <br> (14.735 ckt.km.) | 3.96 | 4.18 | 4.44 | 4.69 | 4.95 |
|  | Total | $\mathbf{1 0 . 9 0}$ | $\mathbf{1 1 . 5 1}$ | $\mathbf{1 2 . 1 9}$ | $\mathbf{1 2 . 9 1}$ | $\mathbf{1 3 . 6 4}$ |
| Asset-II | 220 kV S/C single conductor <br> transmission line (8.234 <br> Ckt.km.) | 1.47 | 1.56 | 1.65 | 1.75 | 1.84 |
|  | Grand total | $\mathbf{1 2 . 3 8}$ | $\mathbf{1 3 . 0 7}$ | $\mathbf{1 3 . 8 4}$ | $\mathbf{1 4 . 6 5}$ | $\mathbf{1 5 . 4 8}$ |

26. The petitioner has submitted that $O \& M$ expenditure for the year 2009-

14 had been arrived at on the basis of nomalized actual O \& M expenses during the year 2003-04 to 2007-08. The wage hike of $50 \%$ on account of pay revision of the employees of public sector undertaking has also been considered while calculating the $\mathrm{O} \& \mathrm{M}$ charges for the tariff period 2009-14. The petitioner has further submitted that it reserves the right to approach the Commission for suitable revision in the norms for $\mathrm{O} \& \mathrm{M}$ expenditure in case the impact of wage hike w.e.f 1.1 .2007 is more then $50 \%$. The petitioner has further submitted that in $O \& M$ norms for the period 2009-14, the cost
associated with license fees had not been captured and therefore licence fee be allowed to be recovered separately from the respondents.
27. The issues have been raised by the petitioner in other petitions also. A view is yet to be taken by the Commission on reimbursement of the cost of wage hike and reimbursement of licence fees. The decision as and when thane will be applicable to the present case also.

## INIERESTON WORKING CAPITAL

28. The components of the working capital and the interest thereon are discussed hereunder:

## (i) Receivables

As per Regulation 18(1)(c)(i) of the 2009 regulations, receivables will be equivalent to two months average billing calculated on target availability level. The petitioner has claimed the receivables on the basis 2 months' transmission charges claimed in the petition. In the tariff being allowed, receivables have been worked out on the basis 2 months' transmission charges.

## (ii) Maintenance spares

Regulation 18(1)(c)(ii) of the 2009 regulations provides for maintenance spares @ $15 \%$ per annum of the $O \& M$ expenses from 1.4.2009. The value of maintenance spares works out to ₹1.64 lakh and ₹0.22 lakh as on 1.4.2009 for Asset-I and Asset-II, respectively.

## (iii) $\mathbf{O} \& \mathrm{M}$ expenses

Regulation 18(1) (c) (iii) of the 2009 regulations provides for operation and maintenance expenses for one month as a component of working capital. The petitioner has claimed $O \& M$ expenses for 1 month of O\&M expenses of the respective year as claimed in the petition. This has been considered in the working capital.

## (iv) Rate of interest on working capital

As per Regulation 18(3) of the 2009 regulations, rate of interest on working capital shall be on nomative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 1.4.2009 or on 1st April of the year in which the project or part thereof (as the case may be) is declared under commercial operation, whic hever is later. The interest on working capital is payable on normative basis notwithstanding that the transmission licensee has not taken working capital loan from any outside agency. The petitioner has claimed interest on working capital @ 12.25\% based on SBI PLR as on 1.4.2009 for both the assets, which is in accordance with the 2009 regulations and has been allowed.
29. The necessary computations in support of interest on working capital are appended hereinbelow:
(₹ in lakh)

|  | Asset-I |  |  |  | Asset-II |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\mathbf{2 0 0 9}$ <br> $\mathbf{1 0}$ | $\mathbf{2 0 1 0}$ <br> $\mathbf{1 1}$ | $\mathbf{2 0 1 1 -}$ <br> $\mathbf{1 2}$ | $\mathbf{2 0 1 2}$ <br> $\mathbf{1 3}$ | $\mathbf{2 0 1 3}$ <br> $\mathbf{1 4}$ | $\mathbf{2 0 0 9}$ <br> $\mathbf{1 0}$ | $\mathbf{2 0 1 0}$ <br> $\mathbf{1 1}$ | $\mathbf{2 0 1 1}$ <br> $\mathbf{1 2}$ | $\mathbf{2 0 1 2}$ <br> $\mathbf{1 3}$ | $\mathbf{2 0 1 3 - 1 4}$ |
| Maintenance <br> Spares | 1.64 | 1.73 | 1.83 | 1.94 | 2.05 | 0.22 | 0.23 | 0.25 | 0.26 | 0.28 |
| O \& M expenses | 0.91 | 0.96 | 1.02 | 1.08 | 1.14 | 0.12 | 0.13 | 0.14 | 0.15 | 0.15 |
| Receivables | 51.79 | 50.37 | 48.97 | 47.57 | 46.17 | 9.37 | 9.08 | 8.80 | 8.51 | 8.23 |
| Total | 54.33 | 53.06 | 51.81 | 50.58 | 49.35 | 9.71 | 9.45 | 9.18 | 8.92 | 8.66 |
| Rate of Interest | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ | $12.25 \%$ |
| Interest | $\mathbf{6 . 6 6}$ | $\mathbf{6 . 5 0}$ | $\mathbf{6 . 3 5}$ | $\mathbf{6 . 2 0}$ | $\mathbf{6 . 0 5}$ | $\mathbf{1 . 1 9}$ | $\mathbf{1 . 1 6}$ | $\mathbf{1 . 1 2}$ | $\mathbf{1 . 0 9}$ | $\mathbf{1 . 0 6}$ |

## IRANSMISSION CHARGES

30. The transmission charges being allowed for the transmission asset are summarised below:
(₹ in lakh)

|  | Asset-I |  |  |  | Asset-II |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\mathbf{2 0 0 9 - 1 0}$ | $\mathbf{2 0 1 0 - 1 1}$ | $\mathbf{2 0 1 1 - 1 2}$ | $\mathbf{2 0 1 2 - 1 3}$ | $\mathbf{2 0 1 3 - 1 4}$ | $\mathbf{2 0 0 9}$ <br> $\mathbf{1 0}$ | $\mathbf{2 0 1 0}$ <br> $\mathbf{1 1}$ | $\mathbf{2 0 1 1}$ <br> $\mathbf{1 2}$ | $\mathbf{2 0 1 2 -}$ <br> $\mathbf{1 3}$ | $\mathbf{2 0 1 3}$ <br> $\mathbf{1 4}$ |
| Depreciation | 108.09 | 108.09 | 108.09 | 108.09 | 108.09 | 19.27 | 19.27 | 19.27 | 19.27 | 19.27 |
| Interest on <br> Loan | 80.05 | 71.10 | 62.15 | 53.19 | 44.22 | 13.91 | 12.14 | 10.36 | 8.59 | 6.81 |
| Retum on <br> Equity | 105.03 | 105.03 | 105.03 | 105.03 | 105.03 | 20.38 | 20.38 | 20.38 | 20.38 | 20.38 |
| Interest on <br> Working <br> Capital | 6.66 | 6.50 | 6.35 | 6.20 | 6.05 | 1.19 | 1.16 | 1.12 | 1.09 | 1.06 |
| O \& M <br> Expenses | 10.90 | 11.51 | 12.19 | 12.91 | 13.64 | 1.47 | 1.56 | 1.65 | 1.75 | 1.84 |
| Total | $\mathbf{3 1 0 . 7 3}$ | $\mathbf{3 0 2 . 2 3}$ | $\mathbf{2 9 3 . 8 1}$ | $\mathbf{2 8 5 . 4 2}$ | $\mathbf{2 7 7 . 0 3}$ | $\mathbf{5 6 . 2 2}$ | $\mathbf{5 4 . 5 1}$ | $\mathbf{5 2 . 7 9}$ | $\mathbf{5 1 . 0 8}$ | $\mathbf{4 9 . 3 6}$ |

## Application fee and the publication expenses

31. The petitioner has sought approval for the reimbursement of fee paid by it for filing the petition. In accordance with our decision in order dated
11.1.2010 in Petition No. 109/2009, the petitioner shall be entitled to recover the filing fee from the beneficiaries.
32. Accordingly, expenses incurred by the petitioner on application filing fees and publication of notices in connection with the present petition shall be directly recovered from the beneficiary on pro rata basis.
33. As regards the reimbursement of lic ence fee, a view in the matter is yet to be taken by the Commission.

## Senvice Tax

34. The prayer of the petitioner for reimbursement of service tax has become infructuous as transmission service has been exempted from the a mbit of the service tax.
35. The transmission charges allowed shall be recovered on monthly basis in accordance with Regulation 23 and shall be shared by the respondents in accordance with Regulation 33 of the 2009 regulations.
36. This order disposes of Petition No. 173/2010.
sd/-
(V.S.Verma)
Member
sd/-
(S.Jayaraman) Member
sdl-
(Dr. Pramod Deo) Chairperson

## CALCULATION OF WEGHIED AVERAGE RATE OF INIERESTON LOAN

## Asset-I



|  | Repayment during the year | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Net Loan-Closing | 10.00 | 8.33 | 6.67 | 5.00 | 3.33 |
|  | Average Loan | 10.83 | 9.17 | 7.50 | 5.83 | 4.17 |
|  | Rate of Interest | 9.35\% | 9.35\% | 9.35\% | 9.35\% | 9.35\% |
|  | Interest | 1.01 | 0.86 | 0.70 | 0.55 | 0.39 |
|  | Rep Schedule | 12 Annual Instalment from 08.03.2005 |  |  |  |  |
| 5 | Bond XII |  |  |  |  |  |
|  | Gross loan opening | 417.00 | 417.00 | 417.00 | 417.00 | 417.00 |
|  | Cumulative Repayment upto DOCO/previous year | 139.00 | 173.75 | 208.50 | 243.25 | 278.00 |
|  | Net Loan-Opening | 278.00 | 243.25 | 208.50 | 173.75 | 139.00 |
|  | Additionsduring the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 34.75 | 34.75 | 34.75 | 34.75 | 34.75 |
|  | Net Loan-Closing | 243.25 | 208.50 | 173.75 | 139.00 | 104.25 |
|  | Average Loan | 260.63 | 225.88 | 191.13 | 156.38 | 121.63 |
|  | Rate of Interest | 9.70\% | 9.70\% | 9.70\% | 9.70\% | 9.70\% |
|  | Interest | 25.28 | 21.91 | 18.54 | 15.17 | 11.80 |
|  | Rep Schedule | 12 Annual Instalment from 28.3.2006 |  |  |  |  |
| 6 | OBC |  |  |  |  |  |
|  | G ross loan opening | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 |
|  | Cumulative Repayment up to DOCO/previous year | 7.08 | 8.50 | 9.92 | 11.33 | 12.75 |
|  | Net Loan-Opening | 9.92 | 8.50 | 7.08 | 5.67 | 4.25 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 |
|  | Net Loan-Closing | 8.50 | 7.08 | 5.67 | 4.25 | 2.83 |
|  | Average Loan | 9.21 | 7.79 | 6.38 | 4.96 | 3.54 |
|  | Rate of Interest | 9.60\% | 9.60\% | 9.60\% | 9.60\% | 9.60\% |
|  | Interest | 0.88 | 0.75 | 0.61 | 0.48 | 0.34 |
|  | Rep Schedule | 12 Annual Instalment from 22.3.2005 |  |  |  |  |
| 7 | Bond XV |  |  |  |  |  |
|  | Gross loan opening | 574.00 | 574.00 | 574.00 | 574.00 | 574.00 |
|  | Cumulative Repayment upto DOCO/previous year | 95.67 | 143.50 | 191.33 | 239.17 | 287.00 |
|  | Net Loan-Opening | 478.33 | 430.50 | 382.67 | 334.83 | 287.00 |
|  | Additionsduring the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 47.83 | 47.83 | 47.83 | 47.83 | 47.83 |
|  | Net Loan-Closing | 430.50 | 382.67 | 334.83 | 287.00 | 239.17 |
|  | Average Loan | 454.42 | 406.58 | 358.75 | 310.92 | 263.08 |
|  | Rate of Interest | 6.68\% | 6.68\% | 6.68\% | 6.68\% | 6.68\% |
|  | Interest | 30.36 | 27.16 | 23.96 | 20.77 | 17.57 |
|  | Rep Schedule | 12 Annual Instalment 23.02.2008 |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Total Loan |  |  |  |  |  |
|  | G ross loan opening | 1416.00 | 1416.00 | 1416.00 | 1416.00 | 1416.00 |
|  | Cumulative Repayment upto DOCO/previous year | 356.17 | 474.17 | 592.17 | 710.17 | 828.17 |
|  | Net Loan-Opening | 1059.83 | 941.83 | 823.83 | 705.83 | 587.83 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 118.00 | 118.00 | 118.00 | 118.00 | 118.00 |
|  | Net Loan-Closing | 941.83 | 823.83 | 705.83 | 587.83 | 469.83 |


|  | Average Loan | 1000.83 | 882.83 | 764.83 | 646.83 |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | Rate of Interest | $\mathbf{8 . 1 1 1 5 \%}$ | $\mathbf{8 . 0 9 1 0 \%}$ | $\mathbf{8 . 0 6 4 2 \%}$ | $\mathbf{8 . 0 2 7 6 \%}$ |
| $\mathbf{7 . 9 7 4 6 \%}$ |  |  |  |  |  |
|  | Interest | 81.18 | 71.43 | 61.68 | 51.92 |

(₹ in lakh)

|  | Details of Loan | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Bond X |  |  |  |  |  |
|  | Gross loan opening | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
|  | Cumulative Repayment upto DOCO/previous year | 1.67 | 2.00 | 2.33 | 2.67 | 3.00 |
|  | Net Loan-Opening | 2.33 | 2.00 | 1.67 | 1.33 | 1.00 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
|  | Net Loan-Closing | 2.00 | 1.67 | 1.33 | 1.00 | 0.67 |
|  | Average Loan | 2.17 | 1.83 | 1.50 | 1.17 | 0.83 |
|  | Rate of Interest | 10.90\% | 10.90\% | 10.90\% | 10.90\% | 10.90\% |
|  | Interest | 0.24 | 0.20 | 0.16 | 0.13 | 0.09 |
|  | Rep Schedule | 12 Annual Instalment from 21.8.2004 |  |  |  |  |
|  |  |  |  |  |  |  |
| 2 | BONDS XI- Option- I |  |  |  |  |  |
|  | Gross loan opening | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
|  | Cumulative Repayment upto DOCO/previous year | 1.33 | 1.67 | 2.00 | 2.33 | 2.67 |
|  | Net Loan-Opening | 2.67 | 2.33 | 2.00 | 1.67 | 1.33 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
|  | Net Loan-Closing | 2.33 | 2.00 | 1.67 | 1.33 | 1.00 |
|  | Average Loan | 2.50 | 2.17 | 1.83 | 1.50 | 1.17 |
|  | Rate of Interest | 9.80\% | 9.80\% | 9.80\% | 9.80\% | 9.80\% |
|  | Interest | 0.25 | 0.21 | 0.18 | 0.15 | 0.11 |
|  | Rep Schedule | 12 Annual Instalment from 7.12.2005 |  |  |  |  |
|  |  |  |  |  |  |  |
| 3 | Bonds XII |  |  |  |  |  |
|  | Gross loan opening | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 |
|  | Cumulative Repayment up to DOCO/previous year | 15.33 | 19.16 | 22.99 | 26.82 | 30.65 |
|  | Net Loan-Opening | 30.67 | 26.84 | 23.01 | 19.18 | 15.35 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 3.83 | 3.83 | 3.83 | 3.83 | 3.83 |
|  | Net Loan-Closing | 26.84 | 23.01 | 19.18 | 15.35 | 11.52 |
|  | Average Loan | 28.75 | 24.92 | 21.09 | 17.26 | 13.43 |
|  | Rate of Interest | 9.70\% | 9.70\% | 9.70\% | 9.70\% | 9.70\% |
|  | Interest | 2.79 | 2.42 | 2.05 | 1.67 | 1.30 |
|  | Rep Schedule | 12 Annual Instalment from 28.3.2006 |  |  |  |  |
|  |  |  |  |  |  |  |
| 4 | Bonds- XIII- option- I |  |  |  |  |  |


|  | Gross loan opening | 56.00 | 56.00 | 56.00 | 56.00 | 56.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cumulative Repayment upto DOCO/previous year | 14.00 | 18.67 | 23.33 | 28.00 | 32.67 |
|  | Net Loan-Opening | 42.00 | 37.33 | 32.67 | 28.00 | 23.33 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 4.67 | 4.67 | 4.67 | 4.67 | 4.67 |
|  | Net Loan-Closing | 37.33 | 32.67 | 28.00 | 23.33 | 18.67 |
|  | Average Loan | 39.67 | 35.00 | 30.33 | 25.67 | 21.00 |
|  | Rate of Interest | 8.63\% | 8.63\% | 8.63\% | 8.63\% | 8.63\% |
|  | Interest | 3.42 | 3.02 | 2.62 | 2.22 | 1.81 |
|  | Rep Schedule | 12 Annual Instalment from 31.7.2006 |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 5 | Oriental Bank of Commerce |  |  |  |  |  |
|  | Grossloan opening | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
|  | Cumulative Repayment upto DOCO/previous year | 0.83 | 1.00 | 1.17 | 1.33 | 1.50 |
|  | Net Loan-Opening | 1.17 | 1.00 | 0.83 | 0.67 | 0.50 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
|  | Net Loan-Closing | 1.00 | 0.83 | 0.67 | 0.50 | 0.33 |
|  | Average Loan | 1.08 | 0.92 | 0.75 | 0.58 | 0.42 |
|  | Rate of Interest | 9.60\% | 9.60\% | 9.60\% | 9.60\% | 9.60\% |
|  | Interest | 0.10 | 0.09 | 0.07 | 0.06 | 0.04 |
|  | Rep Schedule | 12 Annual Instalment from 22.3.2005 |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 6 | PNB-II |  |  |  |  |  |
|  | Gross loan opening | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
|  | Cumulative Repayment upto DOCO/previous year | 0.83 | 1.00 | 1.17 | 1.33 | 1.50 |
|  | Net Loan-Opening | 1.17 | 1.00 | 0.83 | 0.67 | 0.50 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
|  | Net Loan-Closing | 1.00 | 0.83 | 0.67 | 0.50 | 0.33 |
|  | Average Loan | 1.08 | 0.92 | 0.75 | 0.58 | 0.42 |
|  | Rate of Interest | 9.35\% | 9.35\% | 9.35\% | 9.35\% | 9.35\% |
|  | Interest | 0.10 | 0.09 | 0.07 | 0.05 | 0.04 |
|  | Rep Schedule | 12 Annual Instalment from 8.3.2005 |  |  |  |  |
| Total Loan |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Gross loan opening | 114.00 | 114.00 | 114.00 | 114.00 | 114.00 |
|  | Cumulative Repayment upto DOCO/previous year | 34.00 | 43.50 | 52.99 | 62.49 | 71.99 |
|  | Net Loan-Opening | 80.00 | 70.50 | 61.01 | 51.51 | 42.01 |
|  | Additions during the year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Repayment during the year | 9.50 | 9.50 | 9.50 | 9.50 | 9.50 |
|  | Net Loan-Closing | 70.50 | 61.01 | 51.51 | 42.01 | 32.52 |
|  | Average Loan | 75.25 | 65.76 | 56.26 | 46.76 | 37.27 |
|  | Rate of Interest | 9.1674\% | 9.1609\% | 9.1523\% | 9.1402\% | 9.1220\% |


| Interest | 6.90 | 6.02 | 5.15 | 4.27 | 3.40 |
| :--- | :--- | :--- | :--- | :--- | :--- |

