

**“Financial Analysis of Regulated
Agriculture Produce Market Committees in
Maharashtra with Special Reference to
Pune District”**

**A THESIS SUBMITTED TO THE UNIVERSITY OF PUNE IN
FULFILLMENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN
ACCOUNTANCY UNDER FACULTY OF COMMERCE.**

By

Yuvraj Rajaram Thorat

M.Com., M.Phil., D.T.L.

Under the Guidance of

Dr. Y. R. Waghmare

M.Com., Ph.D., F.C.A.

**Research Centre in Commerce
Modern College of Arts, Science and Commerce,
Shivajinagar, Pune-411005.**

April 2013

Dr. Y. R. Waghmare,
M.Com., Ph.D., F.C.A.
Vice Principal and Head,
Department of Commerce,
Modern College of Arts, Science & Commerce,
Shivajinagar, Pune 411005.

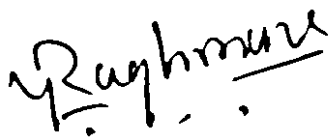
CERTIFICATE

CERTIFIED that the work incorporated in the thesis “Financial Analysis of Regulated Agriculture Produce Market Committees in Maharashtra with Special Reference to Pune District” submitted by Mr. Yuvraj Rajaram Thorat was carried out under my supervision and guidance.

Such material as has been obtained from other sources has been duly acknowledged in the thesis.

Date: 11th April 2013

Place : Pune


Dr. Y. R. Waghmare
Research Guide

DECLARATION

I declare that the thesis entitled "Financial analysis of Regulated Agriculture Produce Market Committees In Maharashtra With Special Reference to Pune District" submitted by me for the degree of Doctor of Philosophy is the record of work carried on by me under the guidance of Dr. Y. R. Waghmare, Research Guide, Modern College of Arts Science and Commerce, Shivajinagar, Pune-411005 and has not formed the basis for the award of any degree, diploma, fellowship titles in this or any other university or other institution of higher learning.

I further declare that the material obtained from other sources has been duly acknowledged in the thesis.

Date: 11th April 2013

Place : Pune



(Yuvraj Rajaram Thorat)

Research Student

ACKNOWLEDGEMENT

This research work is an attempt to study the Financial Analysis of Regulated Agriculture Produce Market Committees in Maharashtra with Special Reference to Pune District.

I am indeed indebted and owe my gratitude to my Research Guide, Dr. Y. R. Waghmare Modern College of Arts, Science and Commerce, Shivajinagar, Pune-411005 for his scholastic guidance and persistent inspiration to me during the period of my study. He has been very kind and ever willing to help me throughout the course of research work. Besides he has given his invaluable time liberally for me especially in discussing the various issues dealt with in the present study. I am thankful to the Dean Dr. Sudhakar U. Jadhavar and Ex-Dean Dr. Babasaheb Sangle, Professor & Head of Department, DCRC, University of Pune Dr. Sanjay Kaptan and Dr. R. S. Zunjarrao, Principal and Director of Research Centre in Commerce, Modern College of Arts, Science and Commerce, Shivajinagar, Pune 411005 for giving me an opportunity to undertake the present research in fulfillment of the requirements for the doctoral degree.

I fully express my gratitude to Dr. D. B. Yadav Head, Department of Agriculture Economics, Mahatma Phule Krushi Vidyapeeth Rahuri for allowing me his sectional library for the study. I am also thankful to Dr. Gavali, Dr. Dorge and Dr. Navadkar of the same university for offering me full guidance in regard to research methodology and supplying the study material. I am whole heartedly thankful to Shri. Prakash Shinde librarian, of M.P.K.V. Rahuri for making available the relevant reference material in the form of periodicals and journals.

I thankfully acknowledge the help rendered by Arvind Autade Saheb (Asst. Manager Maharashtra State Agriculture marketing Board Pune) for making available the annual administrative report of regulated agriculture produce market committees in Pune District.

My special thanks are to Mr. Kailas Phatangare, Programmer Maharashtra State Agriculture Marketing Board Pune for providing me necessary statistical information required for research work.

I am thankful to Dr. N. M. Nare, Dr. Shivaji Takalkar and Dr. G. M. Dumbare for their guidance and support to complete my research work.

I would like to express my sincere thanks to Prof. P. G. Dixit, H.O.D. of Statistics, Modern College of Arts Science and Commerce, Shivajinagar, Pune for his valuable guidance in handling statistical part involved in the present research.

I also express my thanks to the librarian of University of Pune; Vaikuntha Mehata Institute of Cooperative Management, Pune; Department of Commerce and Research Centre, University of Pune; Modern College of Arts, Science and Commerce, Pune; Gokhale Institute, Pune for allowing me to use their library reference books, journals, periodicals and reference thesis.

I sincerely thankful to all Chairmen, Secretaries and officials of A.P.M.Cs in Pune district, Directors and Officials of M.S.A.M. board Pune.

I am thankful to Shashikantbhau Sutar, Hon. Secretary, Kamaltai Vyavhare, Hon. Joint Secretary, Abasaheb Shinde, Treasurer, Sureshsheth Khaire, Chairman Executive Committee, Sahebraomama Jadhav, Chairnan working committee and all the members of Executive

and working committee of Shri Shivaji Maratha Society and Principal Mrs. Ingavale, Chairman L.M.C. and Mrs. Kachare, Acting Principal and all L.M.C. members of Appasaheb Jedhe College Pune for their wholehearted co-operation and encouragement.

I am thankful to all my college teaching and non-teaching colleagues in helping me during my research work. My special thanks to Mr. Parag Shah, Mr. Prashant Mohite, CA R. B. Thorat, Capt. Thorat, Dr. Pacharne, Aparna, Smita, Somnath, Sagar, Sanjay, CA Ashok and Mr. P. P. Pratape for helping me in completion of this research work. I am equally thankful to Dr. Deepali Patil for editing the thesis.

This study could not have been completed without the full co-operation and help of Dr. Raghunath (Dada) I prefer to remain in his debt since no words can give expression to my deep sense of gratitude.

Words fall short in expressing my appreciation to my daughter Miss. Minal in shouldering the full load of computerization of primary data. My elder daughter Mayuri, son Pranav and wife Mrs. Kamal encouraged me lot for completing the study. Members of my family and relatives always encouraged me to pursue the study. I am indeed obliged to them for continuous encouragement and support.

Last but not the least I express my thanks to all those who directly and indirectly helped and supported me in completion of this research work.

(Yuvraj Rajaram Thorat)

INDEX

| Sr. No. | Particulars | Pages |
|-------------------|--|--------------|
| | Acknowledgements | |
| | Certificate | |
| | Declaration | |
| | Index | i – x |
| | List of Tables | xi – xxii |
| | List of Graphs | xxiii – xxv |
| | Abbreviations | xxvi |
| Chapter I | Introduction | 01 |
| 1.1 | General | 02 |
| 1.2 | Importance | 02-03 |
| 1.3 | Meaning | 03-04 |
| 1.4 | Problem Selected For the Study | 04-05 |
| 1.5 | Scope and Utility | 05-06 |
| Chapter II | Review of Literature | 07 |
| 2.1 | Introduction | 08 |
| 2.2 | Reviews Relating to organizational Structure | 08-11 |

| | | |
|--------------------|---|-----------|
| 2.3 | Financial Performance of Agricultural Produce Market Committee | 11-14 |
| 2.4 | Adoption of Time-Series Analysis Technique | 14-19 |
| Chapter III | Research Methodology | 20 |
| 3.1 | Introduction | 21 |
| 3.2 | Statement of Problem | 21 |
| 3.3 | Objectives | 21-22 |
| 3.4 | Statement of Hypothesis | 22 |
| 3.5 | Sampling Design | 22-23 |
| 3.6 | Collection of Data | 23 |
| 3.7 | Period of Data | 23 |
| 3.8 | Method of Analysis of Data | 24 |
| 3.9 | Application of Statistical Tools | 25-27 |
| 3.10 | Financial Analysis | 27-28 |
| 3.11 | Nature of Secondary Data used for Study | 28-29 |
| Chapter IV | Historical Background of Regulation of Agricultural Produce Market | 30 |
| 4.1 | Introduction | 31-32 |

| | | |
|--------------|--|--------------|
| 4.2 | Royal Commission Report (1928) on Agricultural Marketing | 32 |
| 4.2.1 | Observation of the Royal Commission | 32-33 |
| 4.2.2 | Recommendations of Royal Commission on Agricultural Markets | 33-36 |
| 4.2.3 | Governments Intervention | 36-38 |
| 4.3 | Position of various Agricultural Produce Market Acts in India | 38 |
| 4.3.1 | Agricultural Produce Market Acts in India | 38-41 |
| 4.3.2 | Growth of No. Regulated Agricultural Market in India | 42-44 |
| 4.3.3 | State wise position of Agricultural Produce Market Committees in India (As on 31-03-2001) | 44-46 |
| 4.4 | Position of Agricultural Produce Market Acts in Maharashtra | 47 |
| 4.5 | Maharashtra Agricultural Produce Marketing (Regulation) Act 1963 | 47-48 |
| 4.6 | Salient Features of the Present Act Maharashtra Agricultural Produce Marketing (Agriculture) Act 1963 | 49 |

| | | |
|-------|--|-------|
| 4.6.1 | Introduction | 49 |
| 4.6.2 | Rules/orders as per MAPM Act 1963 | 49-50 |
| 4.6.3 | Amendments of Agricultural Produce Marketing Act 1963 | 50-52 |
| 4.6.4 | Growth of No. of Agricultural Produce Regulated Markets in Maharashtra | 52-54 |
| 4.7 | Features of Agriculture Produce Regulated Market | 55 |
| 4.7.1 | Introduction | 55 |
| 4.7.2 | Progress of Regulated Market | 55-56 |
| 4.7.3 | Categories of Regulated Market | 56 |
| 4.7.4 | Structure of Regulated Market | 56-58 |
| 4.7.5 | Working of Regulated Markets | 58-60 |
| 4.8 | Salient Features of the Market Committee | 61 |
| 4.8.a | Composition of APMC | 61 |
| 4.8.b | Functions of the Committee | 62-63 |
| 4.8.c | Finance for the APMC | 64 |
| 4.9 | Role of Maharashtra State Agricultural Marketing Board | 64 |

| | | |
|------------------|--|-----------|
| 4.9.a | Constitution of State Marketing Board.(Section 39-B) | 65 |
| 4.9.b | Functions of the Board | 66 |
| 4.9.c | Financial Status of the Board | 67 |
| Chapter V | Salient Features of Study Area | 68 |
| 5.1 | Salient Features of Pune District | 70 |
| 5.1.1 | Introduction | 70 |
| 5.1.2 | Location | 70 |
| 5.1.3 | Agro-Climatic Zones | 71 |
| 5.1.4 | Soils | 71 |
| 5.1.5 | Rivers | 71 |
| 5.1.6 | Climate | 72 |
| 5.1.7 | Rainfall | 73 |
| 5.1.8 | Population | 74 |
| 5.1.9 | Literacy Level | 75 |
| 5.1.10 | Other Related information of the dist: (As on 2011) | 76 |
| 5.1.11 | Land Use Pattern | 76-78 |
| 5.1.12 | Operational Holdings | 78-79 |

| | | |
|---------------|--|----------------|
| 5.1.13 | Irrigation Source | 79-80 |
| 5.1.14 | Cropping Pattern | 80-81 |
| 5.1.15 | Land Utilization Pattern in all Talukas of Pune Dist. | 82-96 |
| 5.1.16 | Cropping Pattern in all Talukas of Pune District (2002-03) | 96-111 |
| 5.2 | Salient Features of the Selected APMCs for Study | 112 |
| 5.2.1 | Introduction Salient features of Agriculture Produce Market | 112 |
| 5.2.2 | Baramati | 113-115 |
| 5.2.3 | Daund | 115-117 |
| 5.2.4 | Indapur | 117-119 |
| 5.2.5 | Junnar | 119-120 |
| 5.2.6 | Khed | 121-122 |
| 5.2.7 | Manchar | 122-124 |
| 5.2.8 | Nira | 124-125 |
| 5.2.9 | Pune | 126-129 |
| 5.2.10 | Shirur | 129-131 |

| | | |
|-------------------|---|----------------|
| 5.2.11 | Talegaon Dabhade | 131-132 |
| Chapter VI | Analysis of data | 133-135 |
| 6.1 | Income side of APMC | 136 |
| 6.1.1 | Introduction | 136 |
| 6.1.2 | Income structure of APMC | 136-137 |
| 6.1.3 | Average annual income of selected APMCs | 137-138 |
| 6.1.4 | Break-up of annual income of selected APMCs | 138-139 |
| 6.1.5 | Variability of annual income of selected APMCs | 139-143 |
| 6.1.6 | Trend analysis of average annual income of the selected APMCs | 143-156 |
| 6.1.7 | Linear growth rate of income of the APMCs | 157 |
| 6.2 | Expenditure side of APMC | 158 |
| 6.2.1 | Introduction | 158 |
| 6.2.2 | Expenditure structure of APMCs | 158-159 |
| 6.2.3 | Average annual expenditure of selected APMCs | 159-161 |

| | | |
|-------|--|---------|
| 6.2.4 | Break-up of annual expenditure of the selected APMCs | 161 |
| 6.2.5 | Variability in annual average expenditure of the selected APMCs | 162-163 |
| 6.2.6 | Trend analysis of annual average expenditure | 164-178 |
| 6.2.7 | Linear growth rates of expenditure of selected APMCs | 179-180 |
| 6.3 | Overall view of percentage changes in income and expenditure of selected APMCs | 180 |
| 6.4 | Annual surplus of the selected APMCs | 181 |
| 6.4.1 | Introduction | 181 |
| 6.4.2 | Annual Average Surplus | 181-183 |
| 6.4.3 | No. of years of surplus | 184 |
| 6.4.4 | Variability in surplus of the selected APMCs | 185-186 |
| 6.4.5 | Percentage surplus of APMCs | 187-188 |
| 6.4.6 | Linear growth rates of surplus of selected APMCs | 188-190 |
| 6.4.7 | Conclusions | 190 |

| | | |
|-------|--|---------|
| 6.5 | Situation of losses of some selected APMCs | 190 |
| 6.5.1 | Introduction | 190 |
| 6.5.2 | No of years of losses | 191-192 |
| 6.5.3 | Reason for losses | 192-197 |
| 6.5.4 | Conclusion | 197 |
| 6.6 | Statistical analysis | 197 |
| 6.6.1 | Correlation between income and expenditure of selected APMCs | 197-199 |
| 6.6.2 | Regression analysis | 199-201 |
| 6.6.3 | Study of annual arrivals in relation to annual average prices of the APMCs | 201-209 |
| 6.7 | Financial analysis – I | 210-231 |
| 6.8 | Financial analysis (II) | 232 |
| 6.8.1 | Introduction | 232 |
| 6.8.2 | Meaning | 232 |
| 6.8.3 | Utility | 232-233 |
| 6.8.4 | Selective financial statements | 233 |
| 6.8.5 | Comparative income statement | 234 |

| | | |
|--------------------|---|------------|
| 6.8.6 | Comparative balance sheets | 235-261 |
| 6.8.7 | Common size balance sheet | 261-278 |
| 6.8.8 | Common size income statement and Trend percentage Analysis | 279-296 |
| 6.9 | Financial Ratio Analysis | 296 |
| 6.9.1 | Introduction | 296-297 |
| 6.9.2 | Types of Ratios | 297-298 |
| 6.9.3 | Financial Ratios selected for the present study | 298-340 |
| 6.10 | Testing of hypothesis | 341-351 |
| Chapter VII | Summary, Findings and Recommendations | 352 |
| 7.1 | Summary | 353-355 |
| 7.2 | Findings of the study (A) | 355-360 |
| 7.3 | Findings of the study (B) | 360-363 |
| 7.4 | Recommendations | 363-364 |
| | Bibliography | 365-370 |

List of Tables

| Table No | Title | Page No |
|-----------------|---|----------------|
| 1.1 | No of Agriculture Produce Market | 3 |
| 4.1 | List of Regulated Market Acts passed before Royal Commission Report & those after its recommendations | 37 |
| 4.2 | Position of Regulated Market Acts in India | 39 |
| 4.3 | Growth in No. of Regulated Agricultural Markets in India | 42 |
| 4.4 | Distribution of Agricultural Produce Market Committees in India | 45 |
| 4.5 | Growth of No. of Agricultural Produce Markets in Maharashtra | 53 |
| 4.6 | Growth in No. of Regulated Agricultural Produce Markets (Main & Sub.) in Maharashtra | 54 |
| 4.7 | No. of Agricultural Produce Markets as on 31 st March 2011 | 56 |
| 4.8 | Categories of market according to income from market fees | 56 |
| 5.1 | Agro-climatic Zones of Pune District | 71 |

| | | |
|--------|--|----|
| 5.2 | Month wise Temperature during the year 2001 at Pune (Average temp.) | 72 |
| 5.3 | Taluka wise Rainfall of Pune District during the year 2001 | 73 |
| 5.4 | Taluka wise Population of Pune District as per 2001 census | 74 |
| 5.5 | Literacy Level in Pune District | 75 |
| 5.6 | Land Use Pattern of Pune District (2000-01) | 76 |
| 5.7 | No. of Operational Holdings & the area held by them in Pune District | 78 |
| 5.8 | Area irrigable under various Irrigation Projects | 79 |
| 5.9 | Irrigated Area according to different sources in Pune District | 80 |
| 5.10 | Cropping Pattern of Pune District (2002-03) Dist. Pune Year: 2002-03 | 81 |
| 5.11.1 | Land Utilisation Pattern Taluka: Junnar | 83 |
| 5.11.2 | Land Utilisation Pattern Taluka :Ambegaon | 84 |
| 5.11.3 | Land Utilisation Pattern Taluka :Shirur | 85 |
| 5.11.4 | Land Utilisation Pattern Taluka: Khed | 86 |

| | | |
|---------|---|-----|
| 5.11.5 | Land Utilisation Pattern Taluka :Maval | 87 |
| 5.11.6 | Land Utilisation Pattern Taluka: Mulshi | 88 |
| 5.11.7 | Land Utilisation Pattern Taluka: Haveli | 89 |
| 5.11.8 | Land Utilisation Pattern Taluka:Pune City | 90 |
| 5.11.9 | Land Utilisation Pattern Taluka: Daund | 91 |
| 5.11.10 | Land Utilisation Pattern Taluka: Purander | 92 |
| 5.11.11 | Land Utilization Pattern Taluka: Velhe | 93 |
| 5.11.12 | Land Utilization Pattern Taluka: Bhore | 94 |
| 5.11.13 | Land Utilization Pattern Taluka : Baramati | 95 |
| 5.11.14 | Land Utilization Pattern Taluka : Indapur | 96 |
| 5.12 | Taluka wise cropping pattern during 2002-03 (Pune dist.) | 97 |
| 5.13.1 | Area under different crops in Junnar Taluka of Pune Dist. | 98 |
| 5.13.2 | Area under different crops in Ambegaon Taluka of Pune Dist. | 99 |
| 5.13.3 | Area under different crops in Shirur Taluka of Pune Dist. | 100 |
| 5.13.4 | Area under different crops in Khed Taluka of Pune Dist. | 101 |
| 5.13.5 | Area under different crops in Maval Taluka of Pune Dist. | 102 |
| 5.13.6 | Area under different crops in Mulashi | 103 |

| | | |
|---------|---|-----|
| | Taluka of Pune Dist. | |
| 5.13.7 | Area under different crops in Haveli Taluka of Pune Dist. | 104 |
| 5.13.8 | Area under different crops in Pune City Taluka of Pune Dist. | 105 |
| 5.13.9 | Area under different crops in Daund Taluka of Pune Dist. | 106 |
| 5.13.10 | Area under different crops in Purander Taluka of Pune Dist. | 107 |
| 5.13.11 | Area under different crops in VelheTaluka of Pune Dist. | 108 |
| 5.13.12 | Area under different crops in Bhore Taluka of Pune Dist. | 109 |
| 5.13.13 | Area under different crops in Baramati Taluka of Pune Dist. | 110 |
| 5.13.14 | Area under different crops in IndapurTaluka of Pune Dist. | 111 |
| 6.1 | Break-up of average annual income of selected APMCs in Pune district | 139 |
| 6.2 | Variability in annual income of the selected APMCs in Pune district | 140 |
| 6.3 | Total annual income of the selected | |

| | | |
|---------------|---|------------|
| | APMCs in Pune district | |
| 6.3.1 | APMC Baramati | 144 |
| 6.3.2 | APMC Daund | 145 |
| 6.3.3 | APMC Indapur | 146 |
| 6.3.4 | APMC Junnar | 147 |
| 6.3.5 | APMC Khed | 148 |
| 6.3.6 | APMC Manchar | 149 |
| 6.3.7 | APMC Nira | 150 |
| 6.3.8 | APMC Shirur | 151 |
| 6.3.9 | APMC Pune | 152 |
| 6.3.10 | APMC Telegaon | 153 |
| 6.4 | Linear Growth Rate of income in selected APMCs of Pune district | 157 |
| 6.5 | Average Annual Expenditure of APMCs in Pune district | 160 |
| 6.6 | Variability in annual average expenditure by selected APMCs in Pune district | 162 |
| 6.7 | Trends in total annual expenditure of the selected APMCS in Pune district | |
| 6.7.1 | APMC Baramati | 165 |

| | | |
|--------|---|-----|
| 6.7.2 | APMC Daund | 166 |
| 6.7.3 | APMC Indapur | 167 |
| 6.7.4 | APMC Junnar | 168 |
| 6.7.5 | APMC Khed | 169 |
| 6.7.6 | APMC Manchar | 170 |
| 6.7.7 | APMC Nira | 171 |
| 6.7.8 | APMC Shirur | 172 |
| 6.7.9 | APMC Pune | 173 |
| 6.7.10 | APMC Telegaon | 174 |
| 6.8 | Linear growth Rate of expenditure in selected APMCs of Pune district | 179 |
| 6.9 | Comparative study of average percentage changes in income and Expenditure | 180 |
| 6.10 | Annual surplus of the selected APMC of Pune district | 182 |
| 6.11 | Number of year of surplus /loss of the selected APMCs in Pune district | 184 |
| 6.12 | Variability in annual surplus of the selected APMCs | 185 |
| 6.13 | Percentage surplus earned by the selected APMCs in Pune district | 187 |
| 6.14 | Linear Growth Rate of surplus in selected | 189 |

| | | |
|---------|--|-----|
| | APMCs of Pune district | |
| 6.15 | Number of years of profit /losses of the selected APMCs | 191 |
| 6.16 | Values of correlation coefficient showing relationship between income /expenditure of the selected APMCs | 198 |
| 6.17 | Linear Growth Rates | |
| 6.17.1 | APMC Baramati | 202 |
| 6.17.2 | APMC Daund | 202 |
| 6.17.3 | APMC Indapur | 203 |
| 6.17.4 | APMC Junnar | 203 |
| 6.17.5 | APMC Khed | 204 |
| 6.17.6 | APMC Manchar | 204 |
| 6.17.7 | APMC Nira | 204 |
| 6.17.8 | APMC Pune | 205 |
| 6.17.9 | APMC Shirur | 205 |
| 6.17.10 | APMC Telegaon | 206 |
| 6.18 | Annual income, expenditure and surplus of the selected APMCs | |

| | | |
|---------------|---|----------------|
| 6.18.1 | APMC Baramati | 211 |
| 6.18.2 | APMC Indapur | 212 |
| 6.18.3 | APMC Junnar | 212 |
| 6.18.4 | APMC Khed | 213 |
| 6.18.5 | APMC Manchar | 213 |
| 6.18.6 | APMC Nira | 214 |
| 6.18.7 | APMC Pune | 214 |
| 6.18.8 | APMC Shirur | 215 |
| 6.19 | Components of financial statements | |
| 6.19. | APMC Baramati | 216-217 |
| 6.19. | APMC Indapur | 218-219 |
| 6.19. | APMC Junnar | 220-221 |
| 6.19. | APMC Khed | 222-223 |
| 6.19. | APMC Manchar | 224-225 |
| 6.19. | APMC Nira | 226-227 |
| 6.19. | APMC Pune | 228-229 |
| 6.19. | APMC Shirur | 230-231 |
| 6.20 | Comparative Balance Sheets for APMCs | |
| 6.20.1 | APMC Baramati | 236-238 |

| | | |
|--------|--|---------|
| 6.20.2 | APMC Indapur | 239-241 |
| 6.20.3 | APMC Junnar | 242-244 |
| 6.20.4 | APMC Khed | 245-247 |
| 6.20.5 | APMC Manchar | 248-250 |
| 6.20.6 | APMC Nira | 251-253 |
| 6.20.7 | APMC Pune | 254-256 |
| 6.20.8 | APMC Shirur | 257-259 |
| 6.21 | Common size Balance Sheet for APMCs | |
| 6.21.1 | APMC Baramati | 263-264 |
| 6.21.2 | APMC Indapur | 265-266 |
| 6.21.3 | APMC Junnar | 267-268 |
| 6.21.4 | APMC Khed | 269-270 |
| 6.21.5 | APMC Manchar | 271-272 |
| 6.21.6 | APMC Nira | 273-274 |
| 6.21.7 | APMC Pune | 275-276 |
| 6.21.8 | APMC Shirur | 277-278 |
| 6.22 | Common size Income Statement and Trend Percentage Analysis of APMCs | |
| 6.22.1 | APMC Baramati | 280 |
| 6.22.2 | APMC Indapur | 281 |
| 6.22.3 | APMC Junnar | 282 |
| 6.22.4 | APMC Khed | 283 |

| | | |
|--------|---------------------------|---------|
| 6.22.5 | APMC Manchar | 284 |
| 6.22.6 | APMC Nira | 285 |
| 6.22.7 | APMC Pune | 286 |
| 6.22.8 | APMC Shirur | 287 |
| 6.23 | Trend Percentage Analysis | |
| 6.23.1 | APMC Baramati | 288 |
| 6.23.2 | APMC Indapur | 289 |
| 6.23.3 | APMC Junnar | 290 |
| 6.23.4 | APMC Khed | 291 |
| 6.23.5 | APMC Manchar | 292 |
| 6.23.6 | APMC Nira | 293 |
| 6.23.7 | APMC Pune | 294 |
| 6.23.8 | APMC Shirur | 295 |
| 6.24 | Financial Ratios of APMCs | |
| 6.24.1 | APMC Baramati | 300-303 |
| 6.24.2 | APMC Indapur | 304-307 |
| 6.24.3 | APMC Junnar | 308-311 |
| 6.24.4 | APMC Khed | 312-315 |

| | | |
|--------|---|---------|
| 6.24.5 | APMC Manchar | 316-319 |
| 6.24.6 | APMC Nira | 320-323 |
| 6.24.7 | APMC Pune | 324-327 |
| 6.24.8 | APMC Shirur | 328-331 |
| 6.25 | Financial Ratio Abstract of selected APMCs in Pune district | |
| 6.25.1 | Current ratio | 332 |
| 6.25.2 | Capital Turnover Ratio | 332 |
| 6.25.3 | Working Capital Turnover Ratio | 333 |
| 6.25.4 | Total Asset Turnover Ratio | 333 |
| 6.25.5 | Net Profit Ratio | 334 |
| 6.25.6 | Return On Equity Ratio | 334 |
| 6.26 | Average ratios of selected APMCs for ten years | 335 |
| 6.27 | <u>Estimates of Financial Ratios of selected APMCs</u> | |
| 6.27.1 | Current ratio | 343 |
| 6.27.2 | Capital Turnover Ratio | 344 |
| 6.27.3 | Working Capital Turnover Ratio | 344 |

| | | |
|--------|---|-----|
| 6.27.4 | Total Asset Turnover Ratio | 345 |
| 6.27.5 | Net Profit Ratio | 345 |
| 6.27.6 | Return On Equity Ratio | 346 |
| 6.28 | Average estimates of six Financial Ratios of selected APMCs in Pune district | 350 |
| 6.29 | Statement showing Net profit and return on equity in percentage terms | 351 |

List of Graphs

| Graph No | Title | Page No. |
|----------|---|----------|
| 1 | Number of Regulated Markets in India | 43 |
| 2 | No. of Regulated markets in Maharashtra | 54 |
| 3 | Annual Income of APMC Baramati | 144 |
| 4 | Annual Income of APMC Daund | 145 |
| 5 | Annual Income of APMC Indapur | 146 |
| 6 | Annual Income of APMC Junnar | 147 |
| 7 | Annual Income of APMC Khed | 148 |
| 8 | Annual Income of APMC Manchar | 149 |
| 9 | Annual Income of APMC Nira | 150 |
| 10 | Annual Income of APMC Shirur | 151 |
| 11 | Annual Income of APMC Pune | 152 |
| 12 | Annual Income of APMC Talegaon | 153 |
| 13 | Annual Expenditure of APMC Baramati | 165 |
| 14 | Annual Expenditure of APMC Daund | 166 |
| 15 | Annual Expenditure of APMC Indapur | 167 |
| 16 | Annual Expenditure of APMC Junnar | 168 |

| | | |
|----|-------------------------------------|-----|
| 17 | Annual Expenditure of APMC Khed | 169 |
| 18 | Annual Expenditure of APMC Manchar | 170 |
| 19 | Annual Expenditure of APMC Nira | 171 |
| 20 | Annual Expenditure of APMC Shirur | 172 |
| 21 | Annual Expenditure of APMC Pune | 173 |
| 22 | Annual Expenditure of APMC Talegaon | 174 |
| 23 | Current Ratio : APMC Baramati | 300 |
| 24 | Net Profit Ratio : APMC Baramati | 302 |
| 25 | Current Ratio : APMC Indapur | 304 |
| 26 | Net Profit Ratio : APMC Indapur | 306 |
| 27 | Current Ratio : APMC Junnar | 308 |
| 28 | Net Profit Ratio : APMC Junnar | 310 |
| 29 | Current Ratio : APMC Khed | 312 |
| 30 | Net Profit Ratio : APMC Khed | 314 |
| 31 | Current Ratio : APMC Manchar | 316 |
| 32 | Net Profit Ratio : APMC Manchar | 318 |
| 33 | Current Ratio : APMC Nira | 320 |
| 34 | Net Profit Ratio : APMC Nira | 322 |

| | | |
|----|--------------------------------|-----|
| 35 | Current Ratio : APMC Pune | 324 |
| 36 | Net Profit Ratio : APMC Pune | 326 |
| 37 | Current Ratio : APMC Shirur | 328 |
| 38 | Net Profit Ratio : APMC Shirur | 330 |

List of Abbreviations

| Abbreviation | Full Form |
|---------------------|--|
| AMA | Agricultural Marketing Advisor |
| APM | Agriculture Produce Market |
| APMC | Agriculture Produce Market Committee |
| C.V. | Coefficient of Variation |
| Dist. | District |
| Ha | Hectare |
| Km. | Kilo meters |
| M tons | Metric Tones |
| MPAU | Mahatma Phule Agriculture University |
| MP | Madhya Pradesh |
| MS | Maharashtra State |
| MSAMB | Maharashtra State Agriculture Marketing Board |
| NCDEX | National Commodity and Derivatives Exchange |
| NS | Non Significant |
| SD | Standard Deviation |

Chapter I

INTRODUCTION

- 1.1 General
- 1.2 Importance
- 1.3 Meaning of Agricultural Produce Market
- 1.4 Problem selected for the study
- 1.5 Scope and utility of the study

Introduction

1.1 General

In India, agriculture which is the largest and most important sector of economy, accounts for over 40% of the national income and about 70% of the population of the country is directly dependent on agriculture, since 1964, the Government of India with the help of State Governments tried to step up the agricultural production, particularly that of food crops. The Government also thought of the tempo of increased of production through green revolution would be maintained only through assurance of remunerative prices to agricultural commodities.

In other words, it can also be said that with a view to maintain the tempo and pace of agricultural production, through modern technology of production, the need for efficient marketing system is greatly felt. Marketing efficiency in Indian agriculture plays a critical role in the economy because it provides a base for economic integration and it also mobilizes latent economic energy for the fullest utilization of productive capacity.

1.2 Importance

It has been frequently said that the farmers in India is not happy for not getting remunerative prices for their produce. The difference between the price paid by the consumer and the price realized by farmers is considered to be large. And it is that important of sound agricultural marketing comes into picture, especially in a country like ours where the farmer is poor primarily because the system of rural agricultural marketing is defective.

However the efforts made by the Governments during the pre-independence and the post-independence periods are well-worth. As a result the number of Agricultural Produce Market have been increased both in India and Maharashtra. The position of the number of APMs during two periods of time is as follows.

Table No.1.1 : No. of Agricultural Produce Markets

| | 1960 | 2010 | % increase |
|-------------|------|------|------------|
| India | 604 | 7465 | 1135.93 |
| Maharashtra | 280 | 912 | 225.71 |

These includes the no. of sub yards.

The commendable progress made by the Government in establishment of Agricultural produce Markets in the country can be seen from the data presented in Table No. 1.1.

1.3 Meaning

A Study of agricultural Marketing, according to Thomsen includes the following

- i) All the operations and the agencies conducting them involved in the movement of farm produce from the farms to the consumers.
- ii) The effect of such operations on farmers, middlemen and consumers.

In other words, agricultural marketing is the study of all activities, agencies and policies involved in movement of agricultural products from the farms to the consumers. Recently, the purchase of various inputs required for agricultural production is also included in the system of agricultural marketing. So, in broad sense, agricultural marketing is not only the sale of various farm out-put but also the purchase of various inputs required for production.

According to National Commission on Agriculture (XII Report 1976) agricultural marketing is a process, which starts with a decision to produce a salable farm commodity and all the aspects of market structure or system both functional and institutional based on technical and economic considerations. This involves pre and post harvest operations, assembling, grading, storage, transportations and distribution. However, Acharya (2011) has described it as a link between the farm and non-farm sectors. Agricultural Marketing system therefore can be defined as comprising of all activities involved in supply of farm inputs to the farmers and movement of agricultural products from the farms to the consumers. Thus the subject of agricultural marketing includes product marketing as well as input marketing.

1.4 Selection of Problem for Study

The data presented in earlier Table shows that the Government both at the central level and the state level took many efforts in establishing a large number of regulated Markets in the country. However, the market committees who are executing the various functions and shouldering the

responsibilities in respect of regulated markets seem to be not so financially sound enough. So, a great need is now felt to critically etc. examine the financial structure viz. capital investment, income and expenditure of the regulated markets. It was therefore thought to take up the financial problems of regulated market for the study. Specifically, the research problem selected for the study is "Financial Analysis of Regulated Agricultural Produce Market Committee in Maharashtra with special reference to Pune District".

1.5 Scope And Utility

The present study refers to the application of financial analysis technique to the financial transactions carried out by the Regulated Agricultural Produce Market Committees. The market committees do prepare the financial annual statements at the end of year as follows.

- 1) Statement of Income & Expenditure.
- 2) Balance Sheet.
- 3) Budget estimate for the following year.

However, no further financial analysis is undertaken by any one of the market committee in the state. The financial analysis involves the estimation of various financial ratios on the basis of annual financial statements of the business concern. These ratios do help in taking the decisions in respect of estimated income and the expenditure. These ratios also help in deciding the policy matter regarding

- 1) Raising of Capital
- 2) Probable income and expenditure for the succeeding year
- 3) Policy decision in respect of funds-utilization.

And therefore, the financial analysis of the market committee or any business concern is very necessary.

Chapter II

REVIEW OF LITERATURE

2.1 Introduction

2.2 Reviews Relating to Organizational structure

**2.3 Financial Performance of Agricultural Produce Market
Committee**

2.4 Adoption of Time- Series Analysis Technique

2.1 Introduction

A new research worker is required to take up a review of past work done by other researchers on his related topic. In this chapter, an attempt has been made to present the findings / observations made by the previous research workers. Very few studies relating to the topic under study has been undertaken previously. The findings of these studies may be in the form of research paper, note, thesis or books. These have been reviewed here. These have been grouped into three topics as given below.

- i) Organization structure of Agricultural produce Market Committee.
- ii) Performance of APMC.
- iii) Adoption of Time Series Analysis Technique.

2.2 Reviews Relating to Organizational structure

This aspect covers the organizational set up as per provisions made under "Maharashtra Agricultural Produce Marketing (Regulation)" Act 1963 and rules 1967.

Ajjan (1986) conducted a study of regulated markets in Tamil Nadu-a melody-remedy analysis. He studied 13 market committees and 246 regulated markets in the state. He observed that there were real operational difficulties rather than the structural defects.

Jain (1998) studied the structure and market functions of the Regulated Market, Raipur in Madhya Pradesh State. He pointed out that the marketing efficiency measured in terms of better prices to the producers, lower marketing charges and availability of adequate market facilities were relatively better in the regulated market.

Krishna and Rao (1983) conducted a study on marketing of agricultural produce in Bihar state. They found that there was only one regulated market place dealing with both collection of agricultural commodities and its distribution. These operations were being done throughout the year; Market charges were less than those before establishment of regulated market. Commission charges formed 90% of the total market charges. Regarding other amenities, no facilities such as banking, postal services etc. This was mainly due to lack of space required for providing such amenities. They also concluded that there was need to establish such markets in other places of the state, so that the farmers need not travel much for marketing their produce. They also suggested that the proper infrastructural facilities must be provided to enable the farmers to transport their produce to the market place at low cost.

Shrinivasan (1997) studied organizational and management effectiveness of market committees and regulated markets in Tamil Nadu. In this study, he evaluated the managerial and organizational effectiveness of 14 district market committees and 140 regulated markets in Tamil Nadu. From this study, he concluded that the management effectiveness was found to be good particularly in heavy arrival and medium arrival committees. As against this, it was poor in all low arrival markets.

Singh et al. (1998) studied the organizational, structure and performance of the Primary Regulated market in Uttar Pradesh State. They found that the market was not taking care to practice the objectives of regulated markets. Low efficiency was due to malpractices in functioning of the market. The study suggested that there is a need to

review the act itself, its rules and by-laws of the market committee for efficiency purposes.

Pannambalam R.(2001) viewed that the efficient management of the market is the main solution to increase the revenue to the Market Committees. Efficient management leads to the pricing efficiency, physical efficiency, service facilities, and lesser marketing cost which automatically increases the financial efficiency of the markets. He further viewed that the Executives involving in the management of market should be made expert in the management process by imparting proper training. The administrators of varying interest of Market Committee should also be trained in the perspective market planning and policy decisions on effective market regulation.

Takalkar (2005) carried out the study on management of APMCs, in Pune district. His findings were as follows.

- i) There is tremendous fluctuations in the market price rates.
- ii) Rates of Commission, hamali charges, weighment charges in the three APMCs were varying for the same commodity.
- iii) Transport facilities were not provided to the officers and the staff.
- iv) Sub – committees appointed by the APMC do not work efficiently.
- v) There observed to be political interference in activities of APMCs.

However, the APMCs have acquired financially sound position during last 10 years. Since the study covers management aspects and did not show any financial aspects.

Above reviews clearly show that the market committees do undertake various developmental activities and provide the necessary amenities in the market.

2.3 Financial Performance of Agricultural Produce Market Committee

Financial performance of the regulated market is characterized with the source of income, expenditure of market committee and the financial management of the market committee. The studies relating to such aspects have been reviewed and the abstracts there of are given below.

Arya (1992) studied the determinants of income of regulated markets of Kheda district. He observed that the main independent sources of income were market fees and license fees.

Nare (1995) studied the fluctuations of Regulated Markets in Maharashtra State with special reference to Pune district. He carried out the analysis of financial position of 10 APMCs of Pune district and concluded that

- i) Market fee formed an overwhelming large percentage of Market Committees income. Its average share ranged from 60% to 89% of total income. License fee proved to be the second largest source of income.
- ii) Expenditure on establishment head formed major problem. The lesser this expenditure, the more can be allotted for increasing the amenities, infrastructures which in turn will increase the efficiency of functioning.

- iii) As regards retained earnings six out of 10 APMCs succeeded every year in creating own funds.
- iv) On the basis of ratios of debt to owned funds, he concluded that out of 10 APMCs, eight committees were found to be insolvent.

Kaur Parminder and Kaur Arjinder (2003) studied progress and performance of regulated markets in Punjab. The study revealed that the development of farm sector depends not only on advancement in farm technology but also the improvement in market infrastructure. This is essential to ensure better returns to farmers. They further observed that, over the years, with the increased arrivals, the income of market committees have also increased significantly.

Acharya (1998) studied some facts and emerging issues of the agricultural marketing in India. He expressed that the structure conduct and performance of markets were influenced by regulatory measures, infrastructure, administered price regime, export and import regime and macro economic policies. He further suggested that the organizations like APMC should shift their role from the fee collectors to market promoters for the produce of their area.

Khodiar et al. (2002) studied management efficiencies and working of selected regulated markets in Kuchehh district of Gujarat state. They observed that Bhuj market recorded heavy arrivals but it did not indicate to have more profit. Net revenue was highest in Anjar district among all the three markets selected for the study. They also further observed that the major portion of revenue was spent on establishment. On an average about 61% revenue was spent on establishment item in all the selected markets. Regarding the revenue collected, major share was from market

fee in all the three regulated markets. On an average, the income from market fee was of the order of 76 %.

Pagire et al. (2000) studied on the problem viz. Progress and performance of Rahuri APMC from Ahmednagar district. They observed that the committee provided all essential amenities to both the farmers and the traders. There were 41 commodities regulated in the market. The committee was observed to be successful in obtaining the profit since 1995-96.

Deogirkar (2002) carried out a case study on APMC viz. Washim in Maharashtra. He reported, that the market had secured surpluses throughout the period from 1982-82 to 2000-2001. However there was a declining trend in surplus during first 10 years while in later 10 years period, the increasing trend was observed. He also reported that

- i) The market fee and license fee were the permanent and important sources of income.
- ii) Establishment expenditure and development expenditure were the major items of expenditure.

Rangi and Sidhu (1996) undertook an analysis of income and expenditure of market committee in Punjab. They found that the average income of the market committee of Punjab was about Rs.10.1 millions during 1993-94.

Sarwagi et al. (2000) studied the income and expenditure of Krishi Upaj Mandai in M.P. The study revealed that the average yearly income of the mandai was of the order of Rs.15 lakhs and was to be increasing during the last 10 years period barring the year 1994-95. The main sources of income were found to be the market fee and license fees. The

average yearly expenditure was observed to be Rs. 13 lakhs. The ratios between average income to average expenditure was 1.21, showing thereby that the committee is financially sound enough.

Shinde (2010) studied the financial aspects of Agriculture Produce Market Committees in Nanded district. They studied five APMCs for the period 1999-2000 to 2003-04, regarding their financial performance. They observed that the average total annual excess of income over expenditure of Nanded APMC has been Rs.20.87 lakhs(A), that of Loha APMC has been Rs.0.96 lakhs(D) , that of Bhokar APMC Rs.12.79 lakhs(B), that of Degloor APMC Rs.1.30 lakhs(C), that of Kuntur APMC Rs.0.17 lakhs(E). The Nanded APMC is on the highest rank A, whereas the Kuntur APMC is on the lowest rank E, as regards total annual excess of income over expenditure. Thus, they further concluded that the financial aspects of APMCs show uneven trends. The performance has relevance with the administration and management of the APMCs.

It is clear from the above studies, that the financial performance of all the committees of the advanced states like Punjab was good. The study also showed that the market fees and the license fees are major source of income to the APMC.

2.4 Adoption of Time- Series Analysis Technique

The researchers usually employ time series analysis technique to time-series data. In the study of Regulated Markets, the data on arrivals and prices in respect of the period of 10 or more years if available is generally subjected to time-series analysis viz. estimation of trends. In the previous studies, some researchers have used this technique and

interpreted the results accordingly. Such studies have been reviewed as given below.

Prakash and Shrivastav (1998) examined the extent of variations in the market arrivals of pigeon pea and its prices. The study revealed that the co-efficient of variation between annual production and the market arrivals was positive (10.57).

Bhanumate (2011) examined the performance of 13 agricultural commodities. He employed linear regression analysis technique to the twenty years (1986-87 to 20-5-06) data on arrivals of 13 agricultural commodities. He concluded that the arrivals of Rice recorded 7.22 percent growth rate per annum followed by Wheat and Jowar while every high negative growth rate was recorded by sunflower (-16.95) and Groundnut with -13.69 percent per annum.

Brahma Prakash et al. (2001) published a research note on effect of seasonality in market arrivals on prices of Wheat in U.P. The data pertained to the years 1990-91 to 1999-2000. The annual variability in prices was more than that of arrivals. It ranged from 88.53 to 113.33 percent. They also observed that there existed negative correlation between market arrivals and prices of Wheat in U.P.

Grover et al. (1994) examined the pattern of arrivals during the period of 1981-82 to 1991-92 for four agricultural commodities at five regulated markets in Haryana State. The study revealed that the arrivals of selected commodities viz. Wheat, Rice, Cotton and Oilseeds increased by 59% over the period of 10 years. In case of oilseeds there was considerable degree of fluctuations in prices.

Kalyankar and Shelke (1998) studied the pattern of arrivals and prices of tomato. They noted that the inter variation in average prices was 8.03 to 15.66 percent while intra-variations was in between 11.91 to 19.74%. The negative correlation between arrivals and prices indicate that the increase in arrivals led to reduction in prices and vice-versa.

Nawadkar et al. (1992) studied arrivals and prices of several commodities in Pune Agricultural Market in respect of the period from 1983-84 to 1990-91. They observed increasing trend in case of prices of all cereals, seasamum and chillies during the period.

Prakash and Shrivastav (1998) examined the extent of variation in the prices of pigeon pea in its production and market arrivals of the marketable surplus. The study revealed that the co-efficient of correlation between annual production and market arrivals was 0.57 Negative correlation co-efficient was observed between market arrivals and prices in respect of the same crop.

Ravikumar et al. (2001) studied trends in arrivals and prices of selected commodities in Ankapalle regulated market of A.P. The study was confined to the period 1980 to 1996 and the commodities selected were jaggery and Groundnut. They observed that the arrivals showed a mixed trend while the prices showed the increasing trend for the selected commodities.

Selvaraj and Sundara Varadrajan (1998) studied the performance of regulated markets in Tamil Nadu. The study revealed that all the regulated markets witnessed positive growth rate in terms of arrivals and receipts.

Sharma and Mohatkar (1995) studied the time series data on market arrivals and prices of soyabean in Sihore market (M.P) for the period 1977 to 1990. The study revealed that the variation in annual market arrivals was higher than that of prices. The correlation co-efficient between annual arrivals and the prices was negative.

Deogirkar (2002) employed some statistical techniques such as correlation analysis, estimation of trend. He concluded from the data of 20 years period in respect of APMC Washim (Maharashtra). He reported the following findings.

- i) Inverse relation was seen between arrivals and prices in respect of the crops viz. wheat, red gram and safflower while no relationship in respect of the gram crop.
- ii) For the overall period (1981-82 to 2000-2001), there existed a significant negative correlation between arrivals and prices of green gram, kh.jowar and paddy. While positive and significant correlation in respect of the crops viz. Wheat and Gram.

Kambli (2005) has concluded a study on organizational structure and marketing management of APMC Vashi (Navi Mumbai). She reported that the open auction method is not strictly followed by the Committee. She further reported the market committee is well equipped with World-class infrastructure but no proper utilization is done. Even with these constraints APMC Vashi has increasing trend of arrivals of agriculture commodities. The analysis was based on 3 years data and rates of compound growth in arrivals of all the selected commodities were positive. She also worked out compound growth rates for arrivals of onions, okra, mandrain and apple. However, for other crops viz. potato, tomato, grape and pomegranate, the increase or decrease over the

previous year have been reported. Further, she also reported the increasing trend in arrivals and prices on the basis of three years statement of total income and total expenditure of the APMC.

Anonymous (2012), Department of Agricultural Economics, MPAU, Rahuri reported in its report of the research work done by the Agriculture Economics section of college of Agriculture Kolhapur. They carried out study on "Price Analysis of selected cereals in APMC Kolhapur". The study showed that -

- i) There was significant increase in arrivals of paddy whereas significant decrease in arrivals of jowar was noticed. During the period 2001-02 to 2010-11.
- ii) There was significant increase in prices of paddy, jowar and wheat during the same above period.
- iii) As regards the relationship between arrivals and prices of commodities, the negative relationship was observed in respect of jowar and wheat, whereas positive relationship in respect of paddy commodity.

Anonymous (2012), Department of Agricultural Economics, MPAU, Rahuri reported in its report of the research work done by the Agriculture Economics Section, College of Agriculture, Pune. They carried out study on Price Behaviors of Major Oilseeds in APMC Pune. The study showed that

- i) The annual arrivals of safflower and sunflower commodities showed significant declining trend while, in case other two oilseeds viz. groundnut and soyabean, no any trend was observed.

- ii) The prices of selected oilseeds showed significant increasing trend during the period 2004-05 to 2010-11.

Thus it is clear from the above reviews that the time-series data on prices and arrivals of commodities must be subjected to statistical analysis. This includes the estimation of trend and growth rates. The correlation analysis of two variables under study may also be undertaken to examine the relation between two variables.

Chapter III

RESEARCH METHODOLOGY

3.1 Introduction

3.2 Statement of the problem

3.3 Objectives of the study

3.4 Statement of hypothesis

3.5 Sampling Design for the study

3.6 Collection of data

3.7 Period of data

3.8 Method of Analysis of data

3.9 Application of statistical tools

3.10 Financial Analysis

I] Primary Compilation of data on Assets, Liabilities, Income and Expenditure of the selected APMCs.

II] Preparation of appropriate financial statements.

III] Ratio analysis of financial data.

3.11 Nature and Sources of Secondary Data

3.1 Introduction

For conduct of research on the topics of Agricultural Economics, Commerce and Social Sciences an appropriate and suitable methodology has to be adopted with a view to come out with some meaningful conclusions.

The present study pertains to the problem of Agricultural Marketing particularly that of Agricultural Produce Regulated Markets in Maharashtra. Few studies on the topic of Agricultural Produce Regulated Markets have been undertaken by the researchers in India. But the studies containing critical analysis of financial issues of the APMCs are rare. It was therefore felt to undertake a study relating to financial analysis of the APMCs in Maharashtra with the following objectives.

3.2 Statement of the Problem

The following study was undertaken with a view to examine in detail the financial aspect of Agricultural Produce Market Committees in Maharashtra with special reference to Pune District. The problem set up for the study was as follows

“Financial Analysis of Regulated Agriculture Produce Market Committees in Maharashtra with Special Reference to Pune District.”

3.3 Objectives

The following objectives were set up in the present study

- I. To study the salient features of the APMCs selected for the study
- II. To study the financial aspects relating to income, expenditure and surplus of the selected APMCs.

- III. To carry out the trend analysis of income, expenditure and surpluses of the selected APMCs.
- IV. To examine the growth rates of income, expenditure and surplus of the selected APMCS.
- V. To carry out the financial analysis of income, expenditure data, balance sheet of the selected APMCs for examining the financial status of the APMCs.

3.4 Statement of Hypothesis

The following hypothesis were set up in the present study

- I. There is much increase in both income and expenditure of the selected APMCs in Pune District.
- II. There is no much surplus left out for the APMCs during the period of 10 years.
- III. At the over all, the financial performance of the APMCs do show their better financial position over the years.

3.5 Sampling Design

The study is confined to one District viz. Pune District. The district covers three Agro. Climatic zones.

- i) Transition zone
- ii) Assured rainfall zone
- iii) Scarcity zone

In the District, there are 14 Tahsils. Each is having Agricultural Produce Market. Out of these the Markets of Mulshi, Velhe tahsils are not

working. The data Bhore regulated market in respect of few years was not available. For two tahsila viz. Pune city and Haveli there was only one market viz. Pune Agricultural Produce Market. Hence, remaining 10 APMCs located at Pune, Baramati, Daund, Junner, Mancher, Khed, Nira, Shirur, Talegaon and Indapur were taken up for study. Therefore the sample size is 10.

3.6 Collection of Data

The secondary data available in Annual Administrative Reports of the selected APMCs were collected personally by contacting the authorities in person and on phone. The annual reports were printed one and hence were of much use in analysing it thoroughly. The nature of data as available in the printed annual reports of the APMCs is used for the present study.

3.7 Period of Data

The collected data of the selected APMCs refer to the period of 2000-01 to 2009-10. However, the data in respect of Talegaon APMCs was available in respect of seven years viz. 2000 – 01 to 2005 – 06 and 2007 – 08. The data in respect of few APMCs was also collected personally by contacting the authorities of the Agriculture Marketing Board, Pune.

3.8 Method of Analysis of Data

3.8 (a.1) Analysis of Income, Expenditure data

On the basis of information contained in annual reports of the APMCs, the information available in various tables was prepared in tabular form in respect of each year of every APMC, as shown below.

1. Annual Income, classified into 3 subgroups viz. (1) Market fee, (2) Licence fee and (3) Other income.
2. Annual Expenses classified into 3 subgroups viz. i) Pay and allowances of Establishment ii) Meeting expenses iii) Other expenses.
3. On the basis of 1 and 2 as above the surplus / deficit statement, for each of the APMCs were prepared.
4. The statements showing total arrivals, average prices of major agricultural commodities during each year of 10 APMCs were prepared.

3.8 (a.2) Analysis of Data of the selected APMCs.

- I. The data was suitably compiled for each of the APMC to arrive at the following items
 - a) Average annual income and annual expenditure, classified into three sub – groups
 - b) Average surplus/ deficit
- II. The yearwise data on income / expenditure/ surplus of each APMC was made use of to determine the trend values.
- III. Yearwise data on income and expenditure were made use for studying the relationships.

- IV. For studying the Growth Rates in arrivals and that of prices of important agricultural commodities of each APMC were suitably tabulated so as to facilitate in estimation of Growth Rates of arrivals and prices

3.9 Application of Statistical Tools

In the present study, the following statistical measures have been used -

- 1] Arithmetic Mean =

$$\bar{x} = \frac{\sum x_i}{n}$$

- 2] Standard Deviation (σ) =

$$\sigma = \sqrt{\frac{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}{n-1}}$$

Where x , σ are the values of observation.

n = Total Number of observation.

- 3] Co-efficient of Variation (C.V) = $(\sigma/\text{Mean}) \times 100$
 4] Correlation Co-efficient ('r').

While calculating the relationship between two variables viz. income and expenditure of APMC, the values of correlation co-efficient ('r') were calculated by using the following formula given by Karl Pearson.

$$r = \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sqrt{\left(\sum x_i^2 - \frac{(\sum x_i)^2}{n}\right) \left(\sum y_i^2 - \frac{(\sum y_i)^2}{n}\right)}}$$

Where, x_i = Values of a variable say income.

y_i = Values of a variable say expenditure.

n = No of observations.

r = Value of correlation co-efficient.

Significance of 'r'

For the purpose, Table 7.6.1 on Page 174 of the book "Statistical Methods" by George W. Snedecor & William G. Coehran was referred. Title of the table is "Correlation Co-efficient at the 5% and 1% level of significance".

5] Regression Analysis.

For prediction of yearly expenditure (y) of APMC on the basis of income of the APMC, the linear Regression Equation was fitted to the data on expenditure and Income of APMC. The formula used was as follows.

$$y = a + bx.$$

Where, y is the expenditure of APMC, in lac rupees.

a is constant.

b is the regression co-efficient. =

$$b = \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sqrt{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}}$$

6] Linear Growth Rate = $(b / x) * 100$.

Where b is the Regression Co-efficient

x is mean of x_i .

The linear growth rates in respect of the following were calculated.

- i) Income of the APMCs.
- ii) Expenditure of the APMCs.
- iii) Surplus of the APMC.
- iv) Arrivals of important agricultural commodities in the selected APMC.
- v) Annual average prices of the important agricultural commodities in the selected APMCs.

3.10 Financial Analysis

For carrying out the financial analysis of the data of APMCs, the following procedure was followed.

- I] Primary Compilation of data on following items.
 - i) Assets.
 - ii) Liabilities.
 - iii) Income.
 - iv) Expenditure.
 - v) Capital employed.
 - vi) Surplus / Profit.

The above data was compiled for each of the 8 APMCs for period of 10 years. The data in respect of two APMCs viz. Daund and Talegaon were not available in required form and these two APMCs have not been considered for financial analysis.

II] Appropriate financial statements of each of the eight APMCs in respect of 10 years were prepared. These statements were as under.

- a) Comparative Income Statements.
- b) Comparative Balance Sheets.
- c) Common Size Balance Sheets.
- d) Common Size Income Statements.

III] Ratio Analysis

Ratio analysis of the data presented in financial statements has been carried out. The following ratios were worked out as per formulae given below.

- a) Current Ratio = (Current Assets) / (Current Liabilities).
- b) Capital turn -over Ratio = (Receipts) / (Capital employed).
- c) Working Capital Turn Over ratio = (Receipts) / (Working Capital).
- d) Total Assets Turn over Ratio = (Total Receipts) / (Total assets).
- e) Net Surplus Ratio = (Net Surplus) / (Total Receipts).
- f) Returns on Equity = (Surplus) / (Net Worth).

3.11 Nature of secondary data used for study

In the present study, the following secondary data as available in Annual Administrative Reports of the selected APMCs for the period 2000 – 01 to 2009 – 10 were collected.

- 1] Background Information of 10 selected APMCs.
- 2] Income statement showing the item wise income.
- 3] Expenditure statements showing the item wise expenditure.
- 4] Data relating to arrivals and prices of various Agril. Commodities.
- 5] Data relating to Income APMCs and expenditure of APMC from the office of the Maharashtra state Agricultural Marketing Board, Pune.
- 6] Data relating to salient features of Pune District was collected from the office of the Dy. Director, Department of Economics and Statistics, Maharashtra State Pune Division, Pune.
- 7] Co-operative Movement at a Glance in Maharashtra, 2007.
- 8] Economic Survey of India / Maharashtra.
- 9] Pune Dist. Statistical Abstract.
- 10] State at a Glance.

Chapter IV

Historical Background Of Regulation Of Agricultural Produce Market

- 4.1 Introduction
- 4.2 Royal Commissions Report On Agricultural Marketing In India Observations and Suggestions
- 4.3 Position of various Agricultural Produce Market Acts in India
- 4.4 Position of various Agricultural Produce Markets Acts in Maharashtra
- 4.5 Maharashtra Agricultural Produce Marketing [Regulation] Act of 1963
- 4.6 Salient features of the Maharashtra Agricultural Produce Marketing Act, 1963
- 4.7 Features of Agricultural Produce Regulated Market
- 4.8 Salient features of Agricultural Produce Regulated Market Committee
- 4.9 Role of Maharashtra State Agricultural Marketing Board

4.1 Introduction

Before regulation of markets in India, the conditions of agricultural marketing from the view point of producers were miserable. The producers have to incur high marketing cost, because of the following facts.

- i) There were unauthorized deductions of marketing charges.
- ii) There were some mal practices such as hatta system of deciding the value of agricultural produce.
- iii) Traders monopoly in deciding the place of sale, the time of marketing etc.
- iv) Improper storage facility.
- v) Lack of proper transportation facilities.
- vi) Fear of uncertain losses like fire, theft etc.

Then, there arose a need for the regulation of markets. The then British Rulers in India felt the need for regulation of markets. The British rulers wanted to make available supplies of pure cotton at reasonable prices to the textile mills in Manchester (England). The first regulated cotton market act was established as early as in 1886. This was followed by the Berar cotton and Grain market of 1897. Subsequently many acts were passed by the British Rulers in India. These have been presented in Table No.4.1

Incidentally, it needs to mention that, the British Government also took a good decision of appointing "A Royal Commission on Agriculture" for the development of agriculture and the welfare of the

agriculturists in India. The views expressed by the Royal Commission, in respect of agricultural marketing in India were as follows.

4.2 Royal Commission Report (1928) on Agricultural Marketing

4.2.1 Observation of the Royal Commission

The Royal Commission on Agriculture (1928) had thoroughly examined the situation of agricultural marketing in India. The observations as pointed by it were as follows -

1. The existing system of Agricultural Marketing did not meet the ideal system of Agricultural Marketing wherein the interest of the producer are safeguarded.
2. Selling of farm produce was effected at the village itself. This has lead to low returns to the farmers.
3. Forced sales of farm produce were going on. This was because of the fact that the farmers used to sell their produce at what so ever the price they get in order to make payment of money-lenders and the merchants.
4. Inadequate storage facilities of the farmers.
5. Fear of loss due to either theft or fire.
6. Low risk bearing capacity of the farmers.
7. Unavailability of information on prices and trend in production of agricultural commodities.

8. Existing mal practices at marketing centers / places such as
- a) Heavy market fee
 - b) Presence of Hatta system for deciding the price of agricultural commodities.
 - c) Extra heavy charges such as some funds towards yatra, construction of temple etc.
 - d) Absence of grading and standardization of produce in the market.
 - e) Absence of quick transport
 - f) Absence of storage facilities
 - g) Strong association of traders and market functionaries

4.2.2 Recommendations of Royal Commission on Agricultural Markets

In 1931, Central Banking Inquiry Committee was appointed by the Government of India. This committee also recommended the implementation of Royal Commission Report of 1928.

The Royal commission on Agriculture had thoroughly examined the situation of agricultural marketing in India. The commission had gone through the Bearer Cotton and Grain Market Law of 1897 and Bombay Cotton Market Act of 1927. The commission made same recommendations as to the functioning and constitution of the regulated markets.

It recommended:-

- a) That the RMs be established in all provinces in order to facilitate the marketing of all types of agricultural produce.
- b) That the Market committee, every where should, be under a single all-pervading provincial legislation.
- c) That the municipalities and the District Board should be kept out of the management of these markets as several difficulties such as location, revenue etc. would arise if the management of these markets were left to the local Boards. Such difficulties were faced by the Market committees in the central province.
- d) That the markets controlled by the local Boards should automatically cease to function as soon as RMs came into existence.
- e) That the initial expenditure on Land and Building incurred for starting such markets should be met from a loan out of provincial revenue.
- f) That half of the members of the market committees should be from amongst the cultivators and the committees would also include an officer of the Agriculture Department to protect the interest of the growers.
- g) That the licensed brokers should be prohibited to stand for election from grower's constituency.
- h) That a provision should be made for representation of the co-operative societies in the areas served by the market.

- i) That a provision should be made to empower the committee to elect its own chairman and vice-chairman.
- j) That provision should be made for a machinery to settle disputes in the form of panchayats or the Board of Arbitrators.
- k) That the market committee should see that the members are well-informed about the market conditions daily.
- f) That the action should be taken to prevent brokers in the RMs from acting as both buyers and sellers as in all such cases, the broker had a natural predilection in favour of the buyers. The commission held very strong opinion on this point. It conclusively remarked, "We should suggest that the license of any broker found contravening, the license should be cancelled for the season and on the repetition of the offence be cancelled permanently".
- m) Adequate storage facilities in the market yards should be arranged.
- n) Standardization of weights and measures be done.

It will be seen from the above all recommendations that the commission was quite alive to the problems of agricultural marketing in India and made many valuable suggestions for facilitating the proper growth of Regulated markets in India. Accepting the recommendations of the commission, the Government of India and the State Governments, set up organizations to look after the problems of the marketing of agricultural commodities. A number of states have enacted the regulated market acts there after.

The position of various Acts passed in the country before the appointment of Royal Commission on Agriculture in India and those after its submission of the report is given in Table No.4.1

4.2.3 Government's Intervention

On the recommendation of the Royal Commission on Agriculture 1928, and the Central Banking Inquiry committee 1931, the central marketing department was established in India in 1935. The office of the Agricultural Marketing Adviser to the Govt. of India was established in Delhi on 1st January 1935. The main objectives was to suggest measures for making the marketing system more orderly and efficient for the sale of agricultural produce. Similar departments were established in various states.

Later on the recommendations of the Patel committee, the central marketing department was renamed as the Directorate of Marketing and Inspection. The work of this Directorate was mainly the compilation of information and dissemination of market news. This Directorate of Marketing and Inspection was attached office of Ministry of Agriculture Delhi and branch head office at Faridabad and the other at Nagpur. It is headed by the Agricultural Marketing Adviser who is assisted by 4 Joint AMAs, 14 Deputy AMAs and other technical staff. The DMI maintains a close liaison between central and state Government through its branch head office at Nagpur, 11 regional offices and 37 sub-offices spread all over the country. One of the regional office in Maharashtra is at Mumbai. The regional office is headed by Dy. Agriculture Marketing Adviser.

Table No 4.1 : List of Regulated Market Acts passed before Royal Commissions Report and those after its recommendations.

| Sr. No. | Year of passing the Acts | Name of Market Regulation Act |
|---------|--------------------------|--|
| 1 | 1886 | Cotton Hyderabad Residency order |
| 2 | 1897 | Berar Cotton and Grain Market Law |
| 3 | 1927 | Bombay Cotton Market Act (Regulation of Dhule Market comes under this Act.) |
| 4 | 1928 | Report of Royal commission on Agriculture |
| 5 | 1930 | Hyderabad Agriculture Produce Market Act |
| 6 | 1931 | Central Banking Inquiry Committee recommended the implementation of Royal Commission Report. |
| 7 | 1933 | Central Province Cotton Marketing Regulation Act. |
| 8 | 1933 | Madras Commercial Market Act |
| 9 | 1934 | Baroda Agricultural Produce Market Regulation Act |
| 10 | 1935 | Central Province Agril. Produce Market Regulation Act. |

| | | |
|----|------|--|
| 11 | 1938 | Application of Bombay Cotton Market Act of 1927 to all agricultural products |
| 12 | 1939 | Punjab Agril. produce Market Act |
| 13 | 1939 | Mysore Agril. produce Market Act |
| 14 | 1947 | Patiyala Agricultural Produce Marketing regulation Act. |
| 15 | 1952 | The M.P. Agril. Produce Market Act. |
| 16 | 1955 | Saurashtra Agricultural Produce Market Act |

4.3 Position of various Agricultural Produce Market Acts in India

4.3.1 Agricultural Produce Market Acts in India

Table No. 4.1 shows that the various Regulated Market Acts were passed before the Royal commission's Report and those after it. However a need was again felt in passing the new acts in view of re-organization of states in the country. And the recent position of passing of new acts in different states of India is given in Table No.4.2

Table No.4.2 :- Position of Regulated Market Acts in India

| Sr. No. | Name of the State/ U.T. | The Act in Force | Remarks |
|---------|-------------------------|---|---|
| (1) | (2) | (3) | (4) |
| 1 | Andhra Pradesh | The Andhra Pradesh Agri. Produce and Live Stock Market Act 1965 | As amended in 1971, 1977, 1978, 1979 and 1981 |
| 2 | Assam | The Assam Agri. Produce Market Act 1972 | Received the President's assent in 1994 |
| 3 | Bihar | The Bihar Agri. Produce Market Act 1960 | As amended in 1974 |
| 4 | Gujarat | The Gujarat Agri. Produce Market Act 1963 | As amended in June 1965 |
| 5 | Haryana | Punjab Agri. Produce Market Act 1961 | As amended in 1961, 1962, 1963, 1966, 1969, 1970, 1971 and 1974 |
| 6 | Himachal Pradesh | The Himachal Pradesh Agri. Produce Market Act 1969 | — |
| 7 | Karnatak | The Karnataka Agri. produce Marketing (Regulation) Act 1961 | As amended in 1969, 1970, 1973 and 1980 |
| 8 | Madhya Pradesh | The Madhya Pradesh Krishi Upaj Mandai Adhiniyam 1972 | As amended in 1974, 1979. |

| | | | |
|----|------------------|---|--|
| 9 | Maharashtra | The Maharashtra Agri. Produce Marketing (Regulation) Act 1963 | As amended in 1974, 1975, 1976, 1977, 1984, 1985, 1987 and 1989 |
| 10 | Manipur | The Manipur Agril. Produce Market Act.1960 | Amended in 1963 by the state |
| 11 | Meghalaya | The Meghalaya Agril. Been Produce Market Act 1960 | No Market has regulated |
| 12 | Orissa | The Orissa Agril. Produce Market Act 1980 | - do - |
| 13 | Punjab | The Punjab Agri. Produce market Act 1961 | As amended in 1962, 1963, 1966, 1969, 1970, 1971 and 1974. |
| 14 | Rajasthan | The Rajasthan Agri. Produce Market Act 1961 | -- |
| 15 | Tamil Nadu | The Tamil Nadu Agri. Produce Market Act 1959 | -- |
| 16 | Uttar Pradesh | The Uttarpradesh Krishi Utpadan Mandi Adhiniyan 1964 | As amended in 1970, 1973, 1977 and 1978. |
| 17 | Tripura | The Tripura Agri. Produce Market Act 1979 | -- |
| 18 | West Bengal | The West Bengal Agri. Produce Marketing (Regulation) Act 1972 | -- |

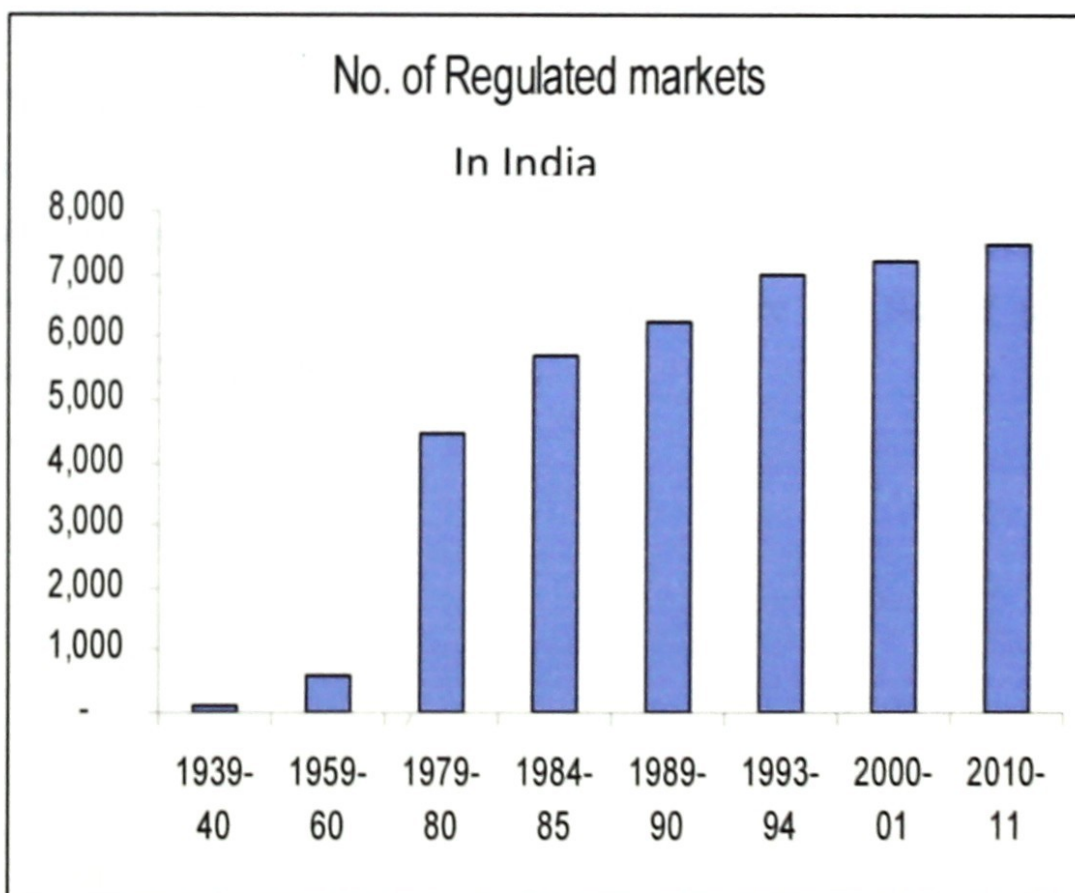
| | | | |
|----|-------------|---|--|
| 19 | Chandigadh | The Punjab Agri. Produce Market act 1961 | -- |
| 20 | Delhi | The Delhi Agri. Produce Marketing (Regulation) Act 1976 | -- |
| 21 | Goa | The Maharashtra Agri. Diu & Daman Produce Marketing (Regulation) Act 1963 | Extended to the Union Territories of Goa, Daman & Div on 19 th June 1964. |
| 22 | Pondicherry | The Pondicherry Agri. Produce Market Act 1973 | -- |
| 23 | Kerala | The state has not yet enacted the Act. However, the market Regulation is in Force in Four markets of the state under the Madras commercial code Act 1933 | -- |
| 24 | Nagaland | The Nagaland Agri. Produce Marketing (regulation) Act 1985. | -- |

Source : Agricultural Marketing April- June 1990.

| | | | |
|----|-----------|------|------|
| 12 | 1989 - 90 | 6217 | 1.62 |
| 13 | 1991 - 92 | 6640 | 4.33 |
| 14 | 1992 - 93 | 6850 | 3.16 |
| 15 | 1993 - 94 | 7004 | 2.32 |
| 16 | 2000 - 01 | 7169 | 2.36 |
| 17 | 2010-11 | 7465 | 4.13 |

Source : Statistical Abstract of India

Graph No. 1



The data presented in Table No.4.3 showed that the no. of Regulated Agricultural Markets in India are found to be increasing from 1969-70 till 1993-94. This might be because of higher production during that period, caused by use of modern technology. Moreover, the producer- farmers must have experienced lot of difficulties in marketing of their produce at low cost. Besides, the Government must have taken lead in establishing the regulated markets for redressing the difficulties of farmers regarding their problem of marketing.

4.3.3 State wise position of Agricultural Produce Market Committees in India (As on 31-03-2001)

It is also desirable to have a picture, showing the position of APMC according to different states in India. The same is presented in Table No. 4.4. The figures given in this table shows that the No. of main Markets (Regulated) is highest in MP + Chattisgarh States together followed by Tamilnadu and Uttar Pradesh, where the No. of main markets were 270 and 265 respectively.

Table No.4.4 : Distribution of Agricultural Produce Market committees in India.

(As on 31-03-2001)

| Sr. No. | State | Main Markets | Sub-markets | Total |
|---------|-------------------|--------------|-------------|-------|
| 1 | Andhra Pradesh | 294 | 567 | 861 |
| 2 | Arunachal Pradesh | -- | -- | -- |
| 3 | Assam | 16 | 19 | 35 |
| 4 | Bihar | -- | -- | -- |
| 5 | Jharkhand | 122 | 691 | 813 |
| 6 | Goa | 1 | 7 | 8 |
| 7 | Gujarat | 161 | 235 | 396 |
| 8 | Haryana | 105 | 179 | 284 |
| 9 | Himachal Pradesh | 8 | 27 | 35 |
| 10 | Jammu & Kashmir | -- | -- | -- |
| 11 | Karnataka | 140 | 333 | 473 |
| 12 | Kerala | -- | -- | -- |
| 13 | Madhya Pradesh | -- | -- | -- |
| 14 | Chhatisgarh | 300 | 316 | 616 |
| 15 | Maharashtra | 274 | 591 | 865 |
| 16 | Manipur | -- | -- | -- |
| 17 | Meghalaya | -- | -- | -- |
| 18 | Mizoram | -- | -- | -- |
| 19 | Nagaland | -- | -- | -- |

| | | | | |
|---------|-----------------------|------|------|------|
| 20 | Orissa | 57 | 87 | 144 |
| 21 | Punjab | 143 | 532 | 675 |
| 22 | Rajasthan | 125 | 287 | 412 |
| 23 | Sikkim | -- | -- | -- |
| 24 | Tamil Nadu | 270 | -- | 270 |
| 25 | Tripura | 21 | -- | 21 |
| 26 | Uttar Pradesh | 265 | 380 | 645 |
| 27 | Uttaranchal | -- | -- | -- |
| 28 | West Bengal | 46 | 541 | 587 |
| 29 | Andaman & Nikobar | -- | -- | -- |
| 30 | Chandigarh | 1 | 1 | 2 |
| 31 | Dadara & Nagar Haveli | -- | -- | -- |
| 32 | Daman & Diu | -- | -- | -- |
| 33 | Delhi | 9 | 12 | 21 |
| 34 | Lakshadweep | -- | -- | -- |
| 35 | Pondicherry | 4 | 2 | 6 |
| Total : | | 2362 | 4807 | 7169 |

Source : Report of Expert Committee on Strengthening and Developing of Agricultural Marketing June 2001.

4.4 Position of Agricultural Produce Market Acts in Maharashtra

In Maharashtra, with re-organisation of the states in 1956, the following Regulated Market Acts were in force in the respective regions of Maharashtra as listed below.

- 1] Karanja Cotton-Hyderabad Residency Order of 1886.
- 2] Berar Cotton and Grain Market Law of 1897.
- 3] Hyderabad Agricultural Produce Market Act of 1930.
- 4] Central Provinces Cotton Market Regulation Act of 1933.
- 5] Central Provinces Agricultural Produce Market Act of 1935.

The above Acts were suitable. However, with the re-organisation of the states in 1956, more than one act became in operation simultaneously in different parts of the state. This has resulted into a need for a single but a comprehensive Act for the re-organised state viz. Maharashtra state. And as such, the most and comprehensive act viz. Maharashtra Agricultural Produce Marketing (Regulation) Act 1963 was passed. This Act came into force in Maharashtra right from the year 1964.

4.5 Maharashtra Agricultural Produce Marketing (Regulation) Act 1963

The Maharashtra Agricultural Produce Marketing Act, 1963 was passed for the following purposes.

- 1] To regulate the marketing of Agricultural and certain other produce in market areas.

- 2] To confer powers upon market committees in connection with marketing operations.
- 3] To establish the market-fund for the purpose of marketing committee.

The above Act contains the following chapters and sections.

| Chapter No. | Name of Chapter | Sections contained |
|-------------|---|--------------------|
| I | Preliminary | 1 to 5 |
| II | Marketing of Agri. Produce | 6 to 10 |
| III | Constitution of Market Committee | 11 to 28 |
| IV | The Market Committee : | 29 to 34 |
| | Powers & Duties | |
| IV A | Cost of Supervision | 34 |
| V | Officers and Servants of Market Committee | 35 |
| VI | The Market Fund | 36 to 38 A |
| VII | Trade Allowed Prohibited | 39 |
| VII A | State Agricultural Marketing Board | 39 A to 39 O |
| VIII | Control | 40 to 45 |
| XI | Penalties | 46 to 52 B |
| X | Miscellaneous | 53 to 66 |

4.6 Salient Features of the Maharashtra Agricultural Produce Marketing (Agriculture) Act 1963

4.6.1 Introduction

After studying carefully the present Act viz. Maharashtra Agricultural Produce Marketing Act of 1963, it was observed that the concerned functionaries of the markets have to follow some rules / orders as contained in the above Act. These are as below :

4.6.2 Rules / orders as per MAPM Act 1963

- 1) Every agricultural commodity should be sold in the market by open public auction. In exceptional cases, the Director may permit the sale of commodity by tender system or by sample by open agreement.
- 2) A ban was imposed on adulteration of declared agricultural produce.
- 3) The payment of the produce sold in the market by open auction should be made by the purchaser within 24 hours of time since weighment.
- 4) Ban on trade allowances of any kind or nature in respect of any agricultural produce is imposed. The concerned person should be prosecuted and on conviction, he will be given punishment of imprisonment or fine extending Rs. 500 or both.
- 5) Commission agent is not allowed to purchase and declared agricultural produce for the sale. In case, there is no offer from the purchaser, any commission agent with the consent of seller for his

immediate sell, may make purchases of the produce at the prevailing rate agreeable to the seller with previous permission in writing of the secretary of the committee.

- 6) The purchaser should pay a market fee (up to 1% of sale price) and supervision fee at 5 Paise per Rs. 100 of sale price.

It could be observed from the aforesaid features of the Regulated Market Act that Government made every effort to safeguard the interest of the producer-seller by making necessary amendment in the regulatory provisions of Agricultural Marketing.

However, in succeeding years also the amendments have been made to the Act of 1963. These are summarized below:

4.6.3 Amendments of Agri. Produce Marketing Act 1963

The list of Amendments made from time to time is outlined as follows:

1] Year 1970 (Act No. 23)

- a) License is must for all processors of agricultural produce.
- b) The agricultural producer can sell his produce in any market yard.
- c) The number of members of a Market Committee would be 10 where, previously the number 7. And the number was increased to 18 from 15.
- d) Agriculturist member of the committee would be selected from the members of Co-op. Credit Societies and the Grampanchayat.

- e) A person engaged in Industries, being run without machinery or labour are exempted from levy of market fee on the purchase of agricultural goods.
- f) The Agriculturist and the Market Committee can recover any amount due to them.

2] Year 1972 (Act No. 26)

The charging of cost towards supervision at the rate of 5 paise per hundred rupees of the purchase price of the agricultural produce.

3] Year 1973 (Act No. 39)

The dispute subcommittee should consist of one expert in agricultural marketing to be nominated by the Director of Agricultural Marketing.

4] Year 1977 (Act No.50)

The tenure of elected members of the committee was increased from 3 years to 5 years. The market committee is not allowed the purchaser to deduct the due amount of the co-operative organization from the sale proceeds of the producer and pay it to the market committee.

5] Year 1984 (Act No. 10)

- a) The market committee was given the status of a local autonomous body just like that of Grampanchayat and Municipality.
- b) State Agricultural Marketing Board was constituted under section 39-A of the Act.

6] Year 1987 (Act No. 27)

- a) As per this, the no. of members of the committee from the group of traders and commission agents would be two instead of 3.
- b) From the group of *hamals* and weigh-man, one member be elected as a member of the market committee.
- c) The chairman and the vice-chairman should be either nominated or elected from the Agriculturist group.

The Maharashtra Agricultural Produce Marketing (Regulation) Act, 1963 was amended in 2005 including Direct Marketing, Private market, Farmer consumers market, single licenses and contract farming. After the amendment, 101 Direct Marketing Licenses have been issued till now of which, 54 are for purchasing of cotton and 47 are for other agricultural commodities. Apart from these, 8 private market licenses have also been issued of which six markets have started their functioning and two markets viz. National Spot Exchange and National Commodity & Derivatives Exchange (NCDEX) or opening through internet.

4.6.4 Growth of No. of Agricultural Produce Regulated Markets in Maharashtra.

In order to know the progress in establishment of Agricultural Produce Market in Maharashtra, the available data is presented in the following Table No.4.5

Table No.4.5 : Growth of No. of Agricultural Produce Markets in Maharashtra.

| Year | Number of Markets | % increase over the previous 10 years |
|-----------|-------------------|---------------------------------------|
| 1931-40 | 42 | -- |
| 1941-50 | 80 | 90.48 |
| 1951-60 | 143 | 78.75 |
| 1961-70 | 186 | 30.06 |
| 1971-80 | 219 | 17.74 |
| 1981-90 | 244 | 11.42 |
| 1991-2000 | 272 | 11.48 |
| 2001-11 | 303 | 11.40 |

In Maharashtra, many of Regulated Markets, there existed one or more sub yard markets. It is necessary to find the position of no. of main markets and those sub-yard market. The information in this regard is given below:

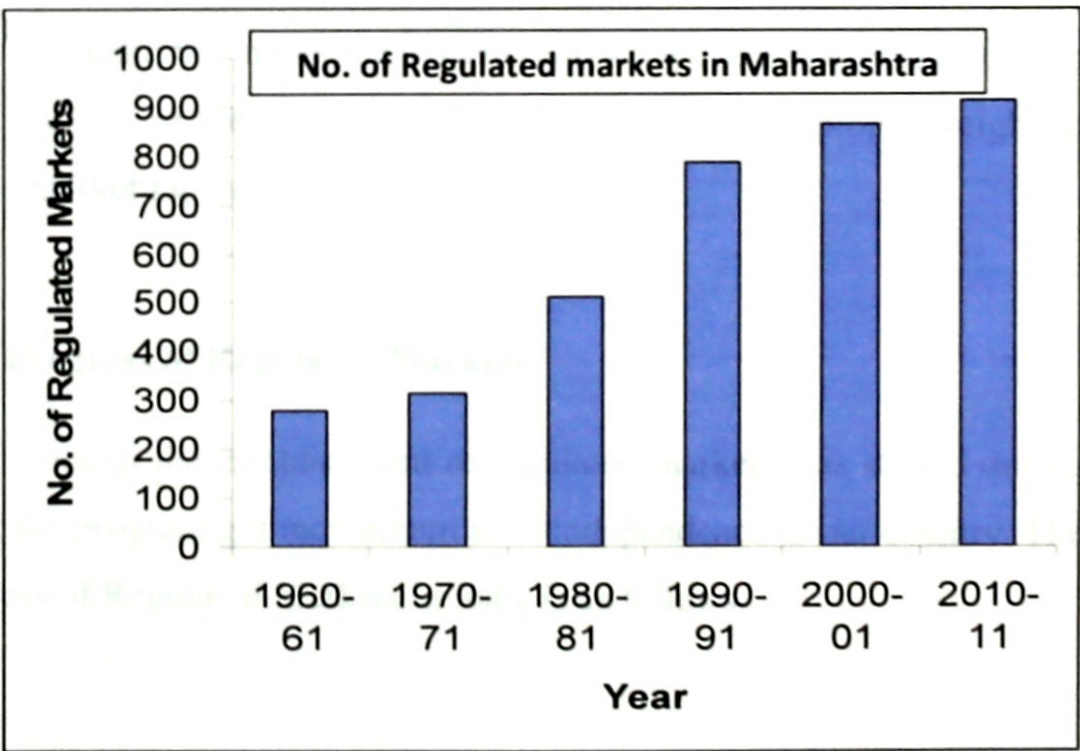
Table 4.6 : Growth in No. of Regulated Agricultural Produce Markets
(Main and Sub.) in Maharashtra.

No. of Regulated Markets

| Year | Primary Markets | Sub-yard Markets | Total Markets |
|---------|-----------------|------------------|---------------|
| 1960-61 | 155 | 125 | 280 |
| 1970-71 | 190 | 126 | 316 |
| 1980-81 | 223 | 289 | 512 |
| 1990-91 | 248 | 536 | 784 |
| 2000-01 | 274 | 591 | 865 |
| 2010-11 | 303 | 609 | 912 |

Source : Maharashtra Agriculture Marketing Board Pune.

Graph No. 2



4.7 Features of Agriculture Produce Regulated Market

4.7.1 Introduction

A Regulated Agriculture Produce Market is a place where the farmers- producer sells his produced by observing the guidelines given in the Agricultural Produced Market Act 1963 and in subsequent acts in the succeeding years. More specifically it may also be defined as the market place where un healthy and unscrupulous practices are not at all followed. In addition, there are no high marketing charges. The objectives of Agriculture Produce Regulated Market, as quoted by Acharya (2011) are as below :

- I. To prevent the exploitation of a farmer- seller by the traders during bidding the prices.
- II. To make the marketing system most effective and efficient so as to safeguard the interest of farmers-sellers through proper weighing, marketing charges etc.

4.7.2 Progress of Regulated Markets

Though the establishment of regulated markets was started during 1930, the program got momentum after independence to our country. The progress of Regulated Markets in India is as follows:

Table 4.7: No. of Agricultural Produce Markets as on 31st March 2011

| Category of Regulated Market | India | Maharashtra |
|------------------------------|-------|-------------|
| Regulated Markets (Nos.) | 2604 | 303 |
| Sub-Markets (Nos.) | 4861 | 609 |
| Total | 7465 | 912 |

4.7.3 Categories of Regulated Market

The Regulated Agricultural Produce Markets are categorised into five categories, according to their income from market fees, are given below;

Table 4.8: Categories of market according to income from market fees

| Sr. No. | Category of Market | Limit of income to regulated markets |
|---------|--------------------|--------------------------------------|
| 1 | Super A | Rs. 2.5 crores and above |
| 2 | A | Rs. 1.5 crores to 2.5 crores |
| 3 | B | Rs. 0.75 crores to 1.5 crores |
| 4 | C | Rs. 0.25 crores to 0.75 crores |
| 5 | D | Less than 0.25 crores |

4.7.4 Structure of Regulated Market

Under the provisions of Agricultural Produce Markets Act the following terms are looked in to, while establishing the Agriculture Produce Market.

- I. **Market Area** - The area from which the farm produce naturally come to market. These gives adequate business and income to the market committee.
- II. **Principal Assembling Market** - It is the main market which is declared as a principal market yard.
- III. **Market Yard** - This is the specified portion of the market area where the sales, purchase, storage and processing of the agriculture commodities are carried out.
- IV. **Sub-Market Yard** - It is the sub yard of the principal assembling market. This is a small market and does not give substantial income to the committee.
- V. **The Physical Structure of Market** - The physical structure of market yard are usually grouped in to four categories depending upon the type of functions/ services provided by them to the marketing functionaries viz, producers/ buyers/ commission agents/ weigh-men/ labourers etc. involved in marketing activities .
- VI. **Structures for sale and purchases of agriculture commodities**
 - a) platforms
 - b) storage go downs
 - c) drying floors
- VII. **Structures for convenience of the producers, buyers and commission agents**
 - a) Farmers rest house

- b) Parking place for all types of vehicles
- c) Animal shed
- d) Water trough, water tabs
- e) Toilet facilities
- f) Electrified roads, buildings
- g) Watchman etc

VIII. Structure for various amenities for buyers and sellers

- a) Canteen, lunch home
- b) Bank and post office
- c) Shops: selling of inputs

IX. Miscellaneous structure

- a) Fire fighting equipments
- b) Quarters for watchman and the staff
- c) Internal roads
- d) Boundary wall

4.7.5 Working of Regulated Markets

a) Method of sale

Sale of agriculture produce is done by open auction. The sale is undertaken under supervision of committee's officials. The auction is

undertaken during fixed timing. The days times are generally fixed according to category of produce viz; food grains, vegetables, fruits, cottons, oil seeds, pulses, etc. bidding is open to all traders and farmer-sellers and the highest bidder is given the produce. The farmer has right to accept or refuse the bidding price.

b) Weighing of Produce

The weight of produce is done by the licenced weigh-men on standardised weight on electronic weighing machine.

c) Grading facilities

These facilities if available in the market, the produce is to be graded and cleaned

d) Market- news service

The information on the farm produce sold, its minimum and maximum prices offered should be declared everyday on the notice board by the agriculture produce market committee. If felt necessary the information on maximum and minimum prices of the produce along with quantity transacted is given on loud speaker.

e) Market charges

The marketing charges viz; weighing, *hamali*, commission charges, grading charges, etc. to be born by the seller farmers. These are collected by the *adtya* from them and all these are clearly specified on the bills of payment and there remains no doubt or ambiguity in the minds of farmers on account of the produce they marketed in the market yard.

f) Payment of value

It is obligatory on the part of the trader to make prompt payment towards the purchased produce as per bill prepared by him.

g) Licensing of market functionaries

All the market functionaries e.g. traders in the market, hamals, weighmen have to obtain licence from the agriculture produce market after paying the license fee fixed for the purpose.

h) Supervision

A day to day supervision is undertaken by the officials of the Agriculture Produce Market.

i) Composition of Agriculture Produce Market

Total members are 18 and its distribution is as follows :

| Category | No. of members |
|---------------------------|-----------------------|
| From Farmers | 10 |
| From Traders | 3 |
| From Cooperative Society | 1 |
| From Local Administration | 2 |
| From State Government | 2 |

4.8 Salient Features of the Market Committee

In a every Regulated Agricultural Produce Market, there is one Committee called as Agricultural Produce Regulated Market Committee to look after or shoulder the responsibility of operating the Agricultural Produce Market. The details regarding the composition and the functions etc of the committee are as follows:

4.8.a Composition of APMC :

- 1] Total members 18
- 2] Distribution of total members among the different groups
 - a) Farmers 10 (Elected)
 - b) Traders on market functionaries 3 (Elected)
 - c) Co-operative societies 1 (Elected)
 - d) Grampanchayat 2 (Elected)
 - e) State Government nominee 2 (Nominated)
 - f) Others nil

There is also some slight variation in the composition of Committees according to the category of market. The categories of market are super, A, B, C and D which have been explained in the earlier chapter.

It could be seen from the above that the number of members from farmers group is more than half, showing thereby the farmers have more right in operation of the market.

4.8.b Functions of the committee

Following are the functions of the committee, as stated in the market act of the state.

- 1) To manage the operation of marketing of agricultural produce arrived in main market yard and sub - yard.
- 2) To fix up the timings of market transactions, held in the market. This decision would be in the interest of not only the farmers but also of those traders.
- 3) To issue, renew or withdraw licenses of traders, *hamals* and weigh-men, and other functionaries, if any, in the market.
- 4) To fix up the charges of traders, weigh-men and *hamals* and so others if any, involved in marketing operations.
- 5) To arrange for collecting the information on quantity of arrivals of agricultural commodities and their prices and displaying it on special board prepared for the purpose.
- 6) To settle the disputes if arise between the farmer-sellers and the various functionaries viz. traders, weigh-men, *hamals* etc.
- 7) To arrange for collection of market fee either from buyer or seller.
- 8) To control the persons coming in the market for the purpose of marketing of agricultural produce and other related issues such as transport of produce etc.
- 9) To keep watch on the operation of graders.
- 10) To have facilities in the market yard required for smooth working of marketing of agricultural produce.

- 11) To prosecute and defend any suit on behalf of the market committee.
- 12) To look after the following amenities provided by the committee, as far as its repairs, modifications etc.
 - a) Main road, link roads.
 - b) Culverts wherever necessary.
 - c) Speed breakers
 - d) Sheds for vehicles
 - e) Water taps, water tongs
 - f) Dust bins
 - g) Infrastructure facilities such as canteen, electricity, etc.
 - h) Maintenance of auction platform and other buildings.

Sometimes the following mal-practices are observed.

- 1] Incorrect slips of goods sold.
- 2] Incorrect slips showing deduction. These are to be rectified by the committee.
- 3] Sometime sizable sample quantity taken by the bidder.

All these mal-practices are brought to the notice of the committee or officials. These are timely looked into and the seller is satisfied.

4.8.c Finance for the APMC

Now, most important issue in respect of the committee is about the finance required by the committee for operating the marketing operations in the market yard. Following are the sources of finance for the committee.

- 1) Market fee levied on the agricultural produce arrival in the market for sale. At present the rate of market fee varies from 1% to 3 % of the value of goods.
- 2) Licence fee as well as fee for renewal of licence of the various functionaries in the market.
- 3) Rent on hired out shops, some buildings, the charges from those who are providing facilities of banking, godowns, sheds etc.
- 4) Subsidies from the government.

4.9 Role of Maharashtra State Agricultural Marketing Board

The Maharashtra state agricultural marketing board, Pune was established on 23-3-1984, as per the provision of (Clause no. 39 (A)) Maharashtra agricultural produce marketing (Regulation) Act of 1963. Its regular working started from 15th August 1986.

4.9.a Constitution of State Marketing Board. (Section 39-B)

The State Marketing Board shall consist of the following members

- | | | |
|----|--|---|
| 1] | The Minister for Co-operation | Ex. Officio Chairman |
| 2] | The Minister of State for Co-operation | Ex. Officio Vice-Chairman |
| 3] | The Commissioner for Co-operation and Registrar of Co-operative Societies, M. S. Pune | Member |
| 4] | The Director of Agriculture Maharashtra State, Pune | Member |
| 5] | One representative of the NABARD | Member |
| 6] | Agricultural Marketing Adviser to the Government of India or its representative | Member |
| 7] | Six members nominated by the State Government from among the Chairman of the Market Committees one each from the six revenue divisions | Member |
| 8] | Chairman, the Maharashtra State Market Committees Co-operative Federation Ltd. Pune | Member |
| 9] | The Director of Agri. Marketing, M.S. Pune | Member & the Honorary Managing Director |

The office of the Board is located at Pune. It has regional officers at divisional head-quarters for co-ordinating the work in the divisions. The Divisional offices are located at Pune, Nashik, Aurangabad, Amravati, Nagpur and Bombay.

4.9.b Functions of the Board :-

Main Functions of the Board are as below :

- 1) To co-ordinate the functioning of market committees.
- 2) To undertake state level planning for the development of APM.
- 3) To maintain and administer "Agricultural Market Development Funds".
- 4) To give advice to Market Committees with a view to ensuring improvement in the functioning of market.
- 5) To organise the seminars, workshops and exhibitions on subjects relating to agricultural marketing.

4.9.c Financial Status of The Board

The main income of the Board is annual contribution that receives from the constituent market committees. It has been permitted to collect annual contributions from APMCs at the following rates as per notification dated 4th April 1988.

| Gross Annual Income of APMCs | Rate of annual contribution |
|-----------------------------------|-------------------------------|
| 1] Less than 1.75 lakhs. | 1% of the Gross Annual Income |
| 2] Between 1.75 lakhs to 3 lakhs. | 2% of the Gross Annual Income |
| 3] Between 3 to 10 lakhs. | 3% of the Gross Annual Income |
| 4] Exceeding 10 lakhs. | 5% of the Gross Annual Income |

The Board provides loans to the APMC for the following purposes.

- a) Purchase of land.
- b) Drinking water arrangements.
- c) Auction platform, fencing, weigh bridge, grading material.
- d) Sanitary arrangements.
- e) Roads and electrifications.
- f) Commercial shops for traders.
- g) Farmers' guesthouses etc.

Chapter V

Salient Features of Study Area

I Salient Features of Pune District.

And

II Salient Features of selected APMCs for study.

5.1 Salient Features of Pune District.

5.1.1 Introduction

5.1.2 Location

5.1.3 Agro. Climatic Zones

5.1.4 Soils

5.1.5 Rivers

5.1.6 Climate

5.1.7 Rainfall

5.1.8 Population

5.1.9 Literacy Level

5.1.10 Other Related Information

5.1.11 Land use-pattern

5.1.12 Operational Holdings

5.1.13 Irrigation Sources

5.1.14 Cropping Pattern

5.1.15 Land utilization Pattern in all Talukas of Pune District

5.1.16 Cropping Pattern of all Talukas in Pune District

5.2 Salient Features of selected APMCs for study

5.2.1 Introduction

5.2.2 Baramati APMC

5.2.3 Daund APMC

5.2.4 Indapur APMC

5.2.5 Junnar APMC

5.2.6 Khed APMC

5.2.7 Manchar APMC

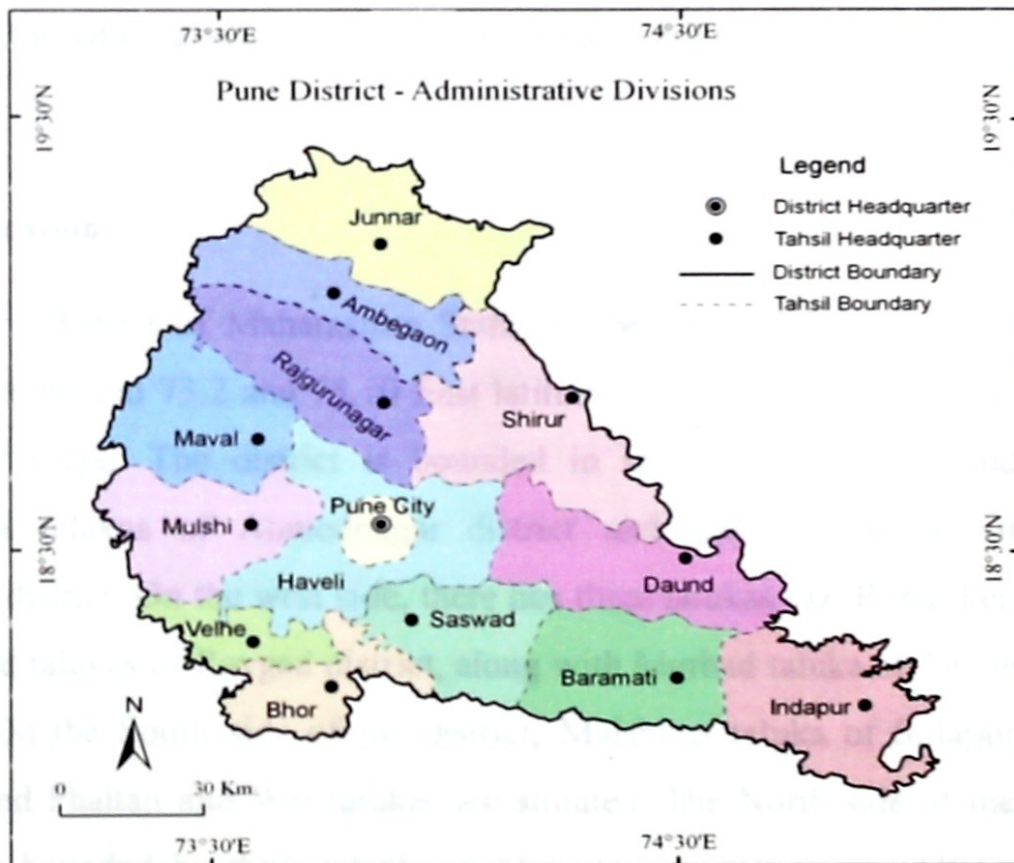
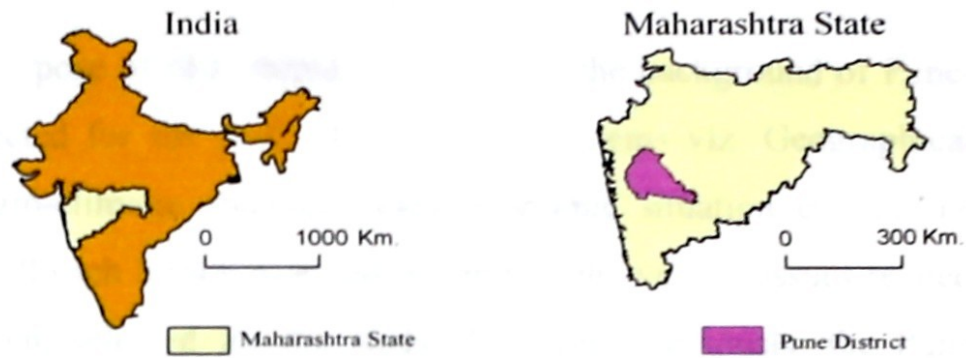
5.2.8 Nira APMC

5.2.9 Pune APMC

5.2.10 Shirur APMC

5.2.11 Talegaon APMC

Location of Study Area



5.1 Salient Features of Pune District

5.1.1 Introduction

The purpose of this chapter is to explain the background of Pune-district, selected for the study. It includes the items viz. Geographical situation, agro-climatic situation, socio-economic situation etc. of the study area. All such information has bearing on the various issues related to the problem selected for the study. As stated previously, the Pune district has been selected for the present study. And hence, the background information given below relates to Pune district.

5.1.2 Location :

Pune district of Maharashtra State lies between 17.54 and 19.25 North latitude and 73.2 and 75.10 East latitude. The district has roughly triangular shape. The district is bounded in the east by Parner and Shrigonda talukas of Ahmednagar district and Karmala talukas of Sholapur district. On the west side, there lies three talukas viz. Roha, Pen and Karjat talukas of Raygad district, along with Murbad taluka of Thane district. On the South side of the district, Malshiras taluka of Solapur district and Phaltan and Wai talukas are situated. The North side of the district is bounded by three tahsils of Ahmednagar district viz. Akole, Sangamner and Parner talukas. The total number of talukas in the district is 14 while the number of towns and village are 25 and 1166 respectively. The district has two municipal corporations, 11 Nagar-Parishads and 1317 Grampanchayats according to 2001 census.

5.1.3 Agro-Climatic Zones

In Maharashtra, there are Nine agro-climatic zones. Out of these 9 zones, the Pune district is spread over i.e touching partly to four zones. The position of talukas of Pune district falling in 4 agro-climatic zones is given in the following table.

Table 5.1 : Agro-climatic Zones of Pune District

| Sr. No. | Name of the Agro-Climatic zone | Names of talukas falling under the zone |
|---------|--------------------------------|---|
| 1 | Ghat Zone | Part of Maval Taluka |
| 2 | Sub-mountain zone | Bhor, Velhe, Mulashi, Khed and Part of Maval and part of Ambegaon |
| 3 | Plain zone | Haveli, Junnar and Ambegaon partly |
| 4 | Scarcity | Daund, Baramati, Indapur and Purandar Partly |

5.1.4 Soils :

The district has lighter type of soil in its western part while in the eastern part, the soils are better. The soils belong to three classes viz. black, red and brown.

5.1.5 Rivers :

In the district, there are mainly two rivers viz. Bhima and Nira. The origin of Bhima is near Bhimashankar in Ambegaon taluka while the origin of Nira river is in western part of Bhor taluka. Two small rivers viz. Velu and Ghod are on left side of Bhima river. And other small rivers Indrayani, Mula and Mutha are on right side of Bhima. Nira river flows

along south part of the district and joins Bhima at Narsingpur village of Indapur taluka. Other minor rivers flowing in the district are Kanhan, Kukadi, Pavna, Mina, Gunjavani, Pushpawati, Karha, Shivaganga and others.

5.1.6 Climate :

The maximum temperature coverage in the district is 34.7ounsh Celsius. May is the hottest month of the year. The mean daily maximum temperature is about 40 degree. As against this, the average minimum temperature of the district is 10.5 degree usually; December is the coolest month of the year. In the district, Baramati, Indapur and Daund talukas are having more hot climate in summer than those in remaining talukas of the district. Table No. 5.2 gives the monthwise temperature, recorded during different months of the year 2001 by the Pune centre.

Table 5.2 : Monthwise Temperature during the year 2001 at Pune
(Average temp. in Celsius)

| Sr. No | Month | Maximum Degree | Minimum Degree |
|--------|-----------|----------------|----------------|
| 1 | January | 30.1 | 12.0 |
| 2 | February | 34.6 | 10.5 |
| 3 | March | 36.0 | 14.6 |
| 4 | April | 37.7 | 20.4 |
| 5 | May | 36.1 | 22.9 |
| 6 | June | 30.6 | 23.1 |
| 7 | July | 27.1 | 22.0 |
| 8 | August | 27.1 | 21.7 |
| 9 | September | 30.3 | 20.8 |
| 10 | October | 30.9 | 18.7 |
| 11 | November | 30.6 | 13.9 |
| 12 | December | 29.9 | 11.2 |

Source : Statistical Abstract of Pune District

5.1.7 Rainfall :

Pune district is not homogeneous as far as rainfall pattern is concerned. It is felt necessary to present the rainfall and number of rainy days for each of the talukas separately. The same is presented in the Table No. 5.3 given below.

Table No. 5.3 : Talukawise Rainfall of Pune District during the year 2001.

| Sr. No. | Names of Taluka | Total Rainy days in the year | Total Rainfall in the year (mm) |
|---------|--------------------|---------------------------------|------------------------------------|
| 1 | Pune City (Haveli) | 42 | 481.8 |
| 2 | Khed | 36 | 415.7 |
| 3 | Ambegaon | 42 | 721.9 |
| 4 | Junnar | 43 | 628.4 |
| 5 | Shirur | 21 | 423.7 |
| 6 | Daund | 28 | 576.1 |
| 7 | Indapur | 27 | 544.7 |
| 8 | Baramati | 30 | 623.0 |
| 9 | Purandar (Saswad) | 42 | 513.0 |
| 10 | Bhor | 69 | 906.9 |
| 11 | Velhe | 87 | 1205.7 |
| 12 | Mulashi (Paud) | 77 | 1311.3 |
| 13 | Maval (Vadgaon) | 77 | 1159.0 |

Source : District Statistical Abstract 2001-02

The Table No. 5.3 shows that there is variation both in No. of rainy days and the rainfall during the year from taluka to taluka. This has effect on different types of cropping pattern in various talukas of the district.

5.1.8 Population :

As per 2001 census, the total population of the district is 72.24 lakhs. The average density of population per sq. km. is 462. Such density is 6756 in case of urban areas while it is 202 in case of rural area. The taluka wise population in Pune district is presented in Table No. 5.4 given below.

Table No. 5.4 : Taluka wise Population of Pune district as per 2001
Census

[Figures in Lakhs]

| Sr. No. | Taluka | Population | Male | Female |
|---------|-----------|------------|---------|---------|
| 1 | Junnar | 369637 | 50.61 | 49.39 |
| 2 | Ambegaon | 213789 | 50.30 | 49.70 |
| 3 | Shirur | 310571 | 51.72 | 48.28 |
| 4 | Khed | 342724 | 51.89 | 48.11 |
| 5 | Maval | 304980 | 52.58 | 47.42 |
| 6 | Mulashi | 127305 | 52.04 | 47.96 |
| 7 | Haveli | 1346346 | 53.58 | 46.42 |
| 8 | Pune City | 2796868 | 52.28 | 47.72 |
| 9 | Daund | 341074 | 51.90 | 49.10 |
| 10 | Purandar | 223384 | 51.05 | 49.95 |
| 11 | Velhe | 55015 | 49.65 | 51.35 |
| 12 | Bhor | 171174 | 48.72 | 51.28 |
| 13 | Baramati | 372919 | 51.67 | 49.33 |
| 14 | Indapur | 342368 | 51.85 | 49.15 |
| | District | 7224224 | 3768001 | 3456223 |

Source : Statistical Abstract of Pune Dist.

5.1.9 Literacy Level :

The literacy percentage in the district is 80.45. The classification of literacy according to sex and area is presented below in respect of the year 2001.

Table 5.5 : Literacy Level in Pune District

| Category | Literacy % |
|--------------|------------|
| Male | 88.34 % |
| Female | 71.89 % |
| Total | |
| For district | 80.45 % |
| Rural | 72.44 % |
| Urban | 86.11 % |
| Total | |
| For district | 80.45 % |

Source : Socioeconomic Survey 2011

District = Pune

Table 5.5 Shows that the literacy level in case of males is high (88.34 %) as against that 71.89 % in case of females in the district. As regards the literacy level based on area, it was observed that the literacy

level in case of Urban area is high (86.11 %) as compared to that in rural area (72.44 %).

5.1.10 Other Related information of the district : (As on 2011)

| | | |
|---|-----------------------------------|----------|
| 1 | No. of Tahsils | 14 |
| 2 | No. of Municipal Corporations | 2 |
| 3 | No. of Municipalities | 11 |
| 4 | No. of Taluka Panchayat Samittees | 13 |
| 5 | No. of Gram Panchayats | 1407 |
| 6 | No. of Sugar Factories | 12 |
| 7 | No. of Co-operative Institutions | 14253 |
| 8 | Length of road | |
| | a) National Highway | 387 km. |
| | b) State Highway | 1350 km. |
| | c) District Roads | 2251 km. |
| | d) Village Roads | 4745 km. |
| | e) Rail Roads | 311 km. |

Ref : Socio-Economic Survey Lokrajya Oct. 2002

5.1.11 Land Use Pattern :

The land utilization pattern of Pune district is presented in Table No. 5.6 as given below:

Table no. 5.6 : Land Use Pattern of Pune District (2000-01)

| Sr. No | Particulars | Area ('000'ha) | % to total area |
|--------|---|----------------|-----------------|
| 1 | Total Geographical Area | 1562 | 100.00 |
| 2 | Area under forest | 171 | 10.95 |
| 3 | Land put to non- agricultural use | 63 | 4.03 |
| 4 | Barren and un-cultivated land | 104 | 6.66 |
| 5 | Permanent pastures and grazing land | 66 | 4.23 |
| 6 | Area under orchards and miscellaneous trees | 28 | 1.79 |
| 7 | Cultivable waste | 104 | 6.66 |
| 8 | Other fallow land | 92 | 5.89 |
| 9 | Current fallows | 30 | 1.92 |
| 10 | Net sown area | 975 | 62.42 |
| | a) Dry area | 684 | 43.79 |
| | b) Irrigated area | 291 | 18.63 |
| 11 | Area sown more than once | 217 | |
| 12 | Gross Cropped Area | 192 | |
| 13 | Intensity of Cropping | | 122.26 |

Source : Season and Crop Report published by Department of Agriculture, M.S, Pune 1

Table No. 5.6 shows the total geographical area of Pune District is 1562000 ha. Net sown area is 62.42 %. The break-up of net sown shows that the irrigated area of the total net area is 18.63 %, while the un-irrigated is 43.79 % of the net sown area. This data do have impact on cropping pattern of the district.

As regards the details of land put to various purposes, it shows that the land under forest was 10.95 % to total geographical area of the district. The area under non-agricultural use was 4.09 % of total geographical area.

The area under cultivable waste, other fallow land and current fallow land were 10400, 92000 and 30000 hectares respectively during the year 2000-01.

5.1.12 Operational Holdings

In Maharashtra, Agricultural census is being undertaken by the department of Agriculture, since 1971-72. It covers a lot of information about land use pattern, cropping pattern, no. of land holdings etc. The data collected under this census is presented in the following Table No.5.7

Table No. 5.7 : No. of Operational Holdings and the area held by them in Pune District

| Classes of Operational Holdings (in Hectares) | No. of Holdings (farmers) | % to total |
|---|---------------------------|------------|
| 0 to 1 | 193,970 | 38.92 |
| Above 1 to 2 | 124,318 | 24.94 |
| Above 2 to 4 | 107,609 | 21.59 |
| Above 4 to 10 | 61,079 | 12.25 |
| Above 10 | 11,488 | 2.30 |
| Total | 4,98,882 | 100.00 |

Source : Service Area Approach-Annual credit plan Bank of Maharashtra 2003-04

The Table No. 5.7 shows that the percentages of marginal farmers and small farmers are 38.92 and 24.94, the total amounting to 63.86%. This large number of small farmers is mainly due to fragmentation and sub-division of land holdings. This sub-division is mainly due to division of ancestral property over the years. This sub-division of landed property among their heirs may lead to poverty of the family or shifting of the families from the villages to the cities, wherever the jobs are available.

5.1.13 Irrigation Source :

The sources of irrigation in the district is mainly well water and canal water. The canal water is received from the various irrigation projects constructed by the Government. The position of such irrigation projects is given below in Table No. 5.8

Table No. 5.8 : Area irrigable under various Irrigation Projects.

| Classification of Irrigation Projects | No. of Irrigation Projects | Area Irrigable in Maharashtra('000' hectares) |
|---------------------------------------|----------------------------|---|
| Major | 16 | 681 |
| Semi-Major | 9 | 55 |
| Minor | 823 | 213 |
| Total | 949 | 949 |

Source : Season and Crop Report, Department of Agriculture, M.S., Pune.

Irrigation factor in Agricultural production is most important. In Pune district, the various irrigation projects have been constructed by the Government. About 949000 hectares area is irrigable in the district.

Now the actual data of irrigated area under two sources viz. 1) Surface irrigation and 2) Well irrigation is given in Table No.5.9.

Table No. 5.9 : Irrigated Area according to different sources in Pune district

| Sr. No. | Particulars | Area irrigated (in '00'ha) | % to total irrigated area |
|---------|--------------------|----------------------------|---------------------------|
| 1 | Surface irrigation | 1011 | 39.63 |
| 2 | Well irrigation | 1540 | 60.37 |
| | Total irrigated | 2551 | 100 |

The data presented in Table No 5.9 shows that the main source of irrigation to the farmers in Pune district is well irrigation. Specifically, the area under well irrigation is 60.37 % out of total irrigated area in the dist.

5.1.14 Cropping Pattern

The cropping pattern of Pune district is presented in Table No 5.10. It could be seen from the data given in the said table that the gross cropped area of the district was 1294000 hectares during 2001-02. The area under cereal crops like jowar, bajari, wheat, maize and rice etc. was observed to be 58.72 % of the total cropped area. The share occupied by the pulses crops was 7.44 % of the total cropped area. The shares of commercial crops like sugarcane and cotton were 3.76 % and 0.15 % respectively. As against this, the fruits and vegetable crops together occupied 6.23 % of total cropped area of the dist.

Table No 5.10 : Cropping Pattern of Pune District (2002-03)

| Sr. No. | Names of Crops | Area (Ha.) | % area to total cropped area |
|---------|-----------------------------|------------|------------------------------|
| 1 | Rice | 57722 | 4.83 |
| 2 | Wheat | 64715 | 5.42 |
| 3 | Kh.Jowar | 3019 | 0.25 |
| 4 | Rabi Jowar | 462608 | 38.72 |
| 5 | Bajri | 123889 | 10.37 |
| 6 | Maize | 14887 | 1.25 |
| 7 | Other cereals | 8824 | 0.74 |
| 8 | Total cereals | 742664 | 62.16 |
| 9 | Gram | 54611 | 4.57 |
| 10 | Tur | 3809 | 0.32 |
| 11 | Other pulses | 34387 | 2.88 |
| 12 | Total pulses | 92807 | 7.77 |
| 13 | Total food Crops (8 + 12) | 835471 | 70.00 |
| 14 | Sugarcane | 65628 | 5.49 |
| 15 | Total Fruits | 30323 | 2.54 |
| 16 | Total Vegetables | 60209 | 5.03 |
| 17 | Total spices and Condiments | 6186 | 0.52 |
| 18 | Cotton and other Fibres | 375 | 0.03 |
| 19 | Total Oilseeds | 7973 | 5.94 |
| 20 | Total medicinal crops | 104 | 0 |
| 21 | Other Non-edible crops | 3126 | 0.26 |
| 22 | Total fodder crops | 121531 | 10.17 |
| 23 | Total cropped area | 1194726 | 100.00 |

5.1.15 Land Utilization Pattern in all Talukas of Pune District

Since the present study covers all the Agricultural Produce Regulated Markets in Pune district, it has been felt necessary to know about the land utilization pattern and cropping pattern in all the Talukas of Pune District. Viz. Junnar, Ambegaon, Shirur, Khed, Maval, Mulshi, Haveli, Pune City, Daund, Purandar, Velhe, Bhore, Baramati, Indapur.

Table No. 5.11.1 to 5.11.14 give the land utilization pattern of all the talukas in the districts. It showed that the total cropped area is observed to be highest in Shirur taluka, followed by Junnar and Baramati talukas.

Cropping Pattern in the talukas

The details about the acreage under various crops in all the talukas of Pune district are given in Table No.5.13.1 to 5.13.14

On examining the area under crops in all the talukas, it was observed that rabi-jowar crop occupies larger area in most of the talukas of the district. Next major crop of the district is Bajri which is mostly grown in Junnar, Ambegaon, Shirur and Khed talukas of the dist. The next important food crop is wheat. This is mainly grown in Baramati, Junnar and Shirur talukas of the district.

Table No : 5.11.1 : Land Utilization Pattern

Taluka : Junnar

Year : 2001 - 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|---|-------------------------|------------------------|
| 1 | Total geographical area | 138452 | 100.00 |
| 2 | Area under forest | 20876 | 15.08 |
| 3 | Land put to non- agricultural use | 3033 | 2.10 |
| 4 | Barren and un-cultivated land | 8628 | 4.03 |
| 5 | Total area not available for cultivation (3+4) | 9855 | 7.12 |
| 6 | Uncultivated land (excluding fallow land) | 2715 | 1.96 |
| 7 | Current fallows | 509 | 0.37 |
| 8 | Other fallows | 4062 | 2.93 |
| 9 | Total fallow (7+8) | 4571 | 3.30 |
| 10 | Net cropped area | 100435 | 72.54 |
| 11 | Area sown more than once | 19491 | ---- |
| 12 | Gross cropped area | 119926 | ---- |
| 13 | Cultivable land | 107721 | 77.70 |
| 14 | Intensity of cropping | ---- | 16.25 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.2 : Land Utilization Pattern

Taluka : Ambegaon

Year : 2001 – 02

| Sr. No. | Particulars | Area in ('000') ha | % age to total area |
|---------|--|--------------------|---------------------|
| 1 | Total geographical area | 104275 | 100.00 |
| 2 | Area under forest | 24300 | 23.30 |
| 3 | Land put to non-agricultural use | 1494 | 1.43 |
| 4 | Barren and un-cultivated land | 5213 | 5.10 |
| 5 | Total area not available for cultivation (3+4) | 6707 | 6.43 |
| 6 | Uncultivated land (excluding fallow land) | 9348 | 8.96 |
| 7 | Current fallows | 304 | 0.31 |
| 8 | Other fallows | 398 | 0.38 |
| 9 | Total fallow (7+8) | 702 | 0.67 |
| 10 | Net cropped area | 63218 | 60.62 |
| 11 | Area sown more than once | 14686 | ---- |
| 12 | Gross cropped area | 77904 | ---- |
| 13 | Cultivable land | 73268 | 70.26 |
| 14 | Intensity of cropping | ---- | 18.85 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.3 : Land Utilization Pattern

Taluka : Shirur

Year : 2001-02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 155727 | 100.00 |
| 2 | Area under forest | 6019 | 3.87 |
| 3 | Land put to non-agricultural use | 6590 | 0.23 |
| 4 | Barren and un-cultivated land | 9027 | 5.79 |
| 5 | Total area not available for cultivation (3+4) | 15617 | 10.02 |
| 6 | Uncultivated land (excluding fallow land) | 9398 | 6.03 |
| 7 | Current fallows | 1364 | 0.87 |
| 8 | Other fallows | 2398 | 1.54 |
| 9 | Total fallow (7+8) | 3762 | 2.42 |
| 10 | Net cropped area | 120931 | 77.66 |
| 11 | Area sown more than once | 10317 | ---- |
| 12 | Gross cropped area | 131248 | ---- |
| 13 | Cultivable land | 134091 | 86.10 |
| 14 | Intensity of cropping | ---- | 7.86 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune I

Table No : 5.11.4 : Land Utilization Pattern

Taluka : Khed**Year : 2001 – 02**

| Sr. No | Particulars | Area in (‘000’) ha | % age to total area |
|-------------------|---|-------------------------------|--------------------------------|
| 1 | Total geographical area | 137354 | 100.00 |
| 2 | Area under forest | 20079 | 14.62 |
| 3 | Land put to non-agricultural use | 1997 | 1.45 |
| 4 | Barren and un-cultivated land | 7533 | 5.48 |
| 5 | Total area not available for cultivation (3+4) | 9530 | 6.94 |
| 6 | Uncultivated land (excluding fallow land) | 12230 | 8.91 |
| 7 | Current fallows | 864 | 0.63 |
| 8 | Other fallows | 5737 | 4.18 |
| 9 | Total fallow (7+8) | 6601 | 4.81 |
| 10 | Net cropped area | 88914 | 64.73 |
| 11 | Area sown more than once | 16238 | --- |
| 12 | Gross cropped area | 105152 | --- |
| 13 | Cultivable land | 107745 | 78.44 |
| 14 | Intensity of cropping | --- | 15.44 |

Source : Agricultural Commissioner, Department of Agriculture M.S.**Pune I**

Table No : 5.11.5 : Land Utilization Pattern

Taluka : Maval

Year : 2001 – 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 113135 | 100.00 |
| 2 | Area under forest | 32736 | 28.94 |
| 3 | Land put to non-agricultural use | 6774 | 5.99 |
| 4 | Barren and un-cultivated land | 1152 | 1.02 |
| 5 | Total area not available for cultivation (3+4) | 7926 | 7.10 |
| 6 | Uncultivated land (excluding fallow land) | 5962 | 5.27 |
| 7 | Current fallows | 1084 | 0.96 |
| 8 | Other fallows | 3985 | 3.52 |
| 9 | Total fallow (7+8) | 5069 | 4.48 |
| 10 | Net cropped area | 61442 | 54.30 |
| 11 | Area sown more than once | 7478 | ---- |
| 12 | Gross cropped area | 68920 | ---- |
| 13 | Cultivable land | 72473 | 64.06 |
| 14 | Intensity of cropping | ---- | 10.85 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.6 : Land Utilization Pattern

Taluka : Mulshi**Year : 2001 – 02**

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 103931 | 100.00 |
| 2 | Area under forest | 16726 | 16.00 |
| 3 | Land put to non-agricultural use | 6601 | 6.35 |
| 4 | Barren and un-cultivated land | 11075 | 10.66 |
| 5 | Total area not available for cultivation (3+4) | 17676 | 17.10 |
| 6 | Uncultivated land (excluding fallow land) | 2845 | 2.74 |
| 7 | Current fallows | 7622 | 7.33 |
| 8 | Other fallows | 18216 | 17.53 |
| 9 | Total fallow (7+8) | 25838 | 24.86 |
| 10 | Net cropped area | 40846 | 30.31 |
| 11 | Area sown more than once | 3501 | ---- |
| 12 | Gross cropped area | 44347 | ---- |
| 13 | Cultivable land | 69529 | 66.90 |
| 14 | Intensity of cropping | ---- | 7.89 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune I

Table No : 5.11.7 : Land Utilization Pattern

Taluka : Haveli

Year : 2001 – 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 113627 | 100.00 |
| 2 | Area under forest | 7864 | 6.93 |
| 3 | Land put to non-agricultural use | 4091 | 3.61 |
| 4 | Barren and un-cultivated land | 14804 | 13.03 |
| 5 | Total area not available for cultivation (3+4) | 18895 | 43.03 |
| 6 | Uncultivated land (excluding fallow land) | 12285 | 10.80 |
| 7 | Current fallows | 1778 | 1.56 |
| 8 | Other fallows | 11162 | 9.82 |
| 9 | Total fallow (7+8) | 12340 | 10.86 |
| 10 | Net cropped area | 82243 | 72.38 |
| 11 | Area sown more than once | 10288 | ---- |
| 12 | Gross cropped area | 92531 | ---- |
| 13 | Cultivable land | 106868 | 94.05 |
| 14 | Intensity of cropping | ---- | 11.11 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.8 : Land Utilization Pattern

Taluka : Pune City

Year : 2001 – 02

| Sr. No. | Particulars | Area in ('000') ha | % age to total area |
|---------|--|--------------------|---------------------|
| 1 | Total geographical area | 11990 | 100.00 |
| 2 | Area under forest | 235 | 1.98 |
| 3 | Land put to non-agricultural use | 9605 | 80.11 |
| 4 | Barren and un-cultivated land | 670 | 5.59 |
| 5 | Total area not available for cultivation (3+4) | 10275 | 85.70 |
| 6 | Uncultivated land (excluding fallow land) | 499 | 4.16 |
| 7 | Current fallows | 655 | 5.46 |
| 8 | Other fallows | 321 | 2.68 |
| 9 | Total fallow (7+8) | 976 | 8.14 |
| 10 | Net cropped area | 5 | 0.042 |
| 11 | Area sown more than once | 00 | 00 |
| 12 | Gross cropped area | 0 | 0.04 |
| 13 | Cultivable land | 1480 | 12.32 |
| 14 | Intensity of cropping | --- | ---- |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune I

Table No : 5.11.9 : Land Utilization Pattern

Taluka : Daund

Year : 2001 - 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 128986 | 100.00 |
| 2 | Area under forest | 4904 | 3.80 |
| 3 | Land put to non-agricultural use | 7272 | 5.64 |
| 4 | Barren and un-cultivated land | 12064 | 9.35 |
| 5 | Total area not available for cultivation (3+4) | 19336 | 15.00 |
| 6 | Uncultivated land (excluding fallow land) | 8700 | 6.74 |
| 7 | Current fallows | 4277 | 3.32 |
| 8 | Other fallows | 3756 | 2.91 |
| 9 | Total fallow (7+8) | 8033 | 6.22 |
| 10 | Net cropped area | 88013 | 68.21 |
| 11 | Area sown more than once | 27456 | ---- |
| 12 | Gross cropped area | 115469 | ---- |
| 13 | Cultivable land | 104746 | 81.21 |
| 14 | Intensity of cropping | ---- | 23.78 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune I

Table No : 5.11.10 : Land Utilization Pattern

Taluka : Purandar

Year : 2001 – 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 110313 | 100.00 |
| 2 | Area under forest | 2221 | 2.01 |
| 3 | Land put to non-agricultural use | 2641 | 2.39 |
| 4 | Barren and un-cultivated land | 5567 | 0.50 |
| 5 | Total area not available for cultivation (3+4) | 8208 | 7.44 |
| 6 | Uncultivated land (excluding fallow land) | 9499 | 8.61 |
| 7 | Current fallows | 1999 | 1.81 |
| 8 | Other fallows | 2621 | 2.38 |
| 9 | Total fallow (7+8) | 4620 | 4.19 |
| 10 | Net cropped area | 85765 | 77.75 |
| 11 | Area sown more than once | 3335 | ---- |
| 12 | Gross cropped area | 89100 | ---- |
| 13 | Cultivable land | 99884 | 90.55 |
| 14 | Intensity of cropping | ---- | 3.74 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.11 : Land Utilization Pattern

Taluka : Velhe

Year : 2001 – 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 49955 | 100.00 |
| 2 | Area under forest | 10796 | 21.60 |
| 3 | Land put to non-agricultural use | 1923 | 3.85 |
| 4 | Barren and un-cultivated land | 2940 | 5.86 |
| 5 | Total area not available for cultivation (3+4) | 4863 | 9.73 |
| 6 | Uncultivated land (excluding fallow land) | 1827 | 3.66 |
| 7 | Current fallows | 4649 | 9.31 |
| 8 | Other fallows | 9196 | 10.41 |
| 9 | Total fallow (7+8) | 13845 | 27.71 |
| 10 | Net cropped area | 18624 | 37.28 |
| 11 | Area sown more than once | 5257 | ---- |
| 12 | Gross cropped area | 23881 | ---- |
| 13 | Cultivable land | 34296 | 68.65 |
| 14 | Intensity of cropping | ---- | 27.01 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.12 : Land Utilization Pattern

Taluka : Bhore**Year : 2001 – 02**

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 89234 | 100.00 |
| 2 | Area under forest | 12260 | 13.74 |
| 3 | Land put to non-agricultural use | 1731 | 1.94 |
| 4 | Barren and un-cultivated land | 15644 | 17.53 |
| 5 | Total area not available for cultivation (3+4) | 17375 | 19.47 |
| 6 | Uncultivated land (excluding fallow land) | 20380 | 22.84 |
| 7 | Current fallows | 2768 | 3.10 |
| 8 | Other fallows | 749 | 0.84 |
| 9 | Total fallow (7+8) | 3571 | 3.94 |
| 10 | Net cropped area | 35702 | 40.00 |
| 11 | Area sown more than once | 12422 | ---- |
| 12 | Gross cropped area | 48124 | ---- |
| 13 | Cultivable land | 59599 | 66.79 |
| 14 | Intensity of cropping | --- | 25.81 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune I

Table No : 5.11.13 : Land Utilization Pattern

Taluka : Baramati

Year : 2001 – 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 138248 | 100.00 |
| 2 | Area under forest | 4929 | 3.56 |
| 3 | Land put to non-agricultural use | 4859 | 3.51 |
| 4 | Barren and un-cultivated land | 8509 | 6.15 |
| 5 | Total area not available for cultivation (3+4) | 13665 | 9.88 |
| 6 | Uncultivated land (excluding fallow land) | 5765 | 4.17 |
| 7 | Current fallows | 6864 | 4.96 |
| 8 | Other fallows | 2919 | 2.11 |
| 9 | Total fallow (7+8) | 9783 | 7.07 |
| 10 | Net cropped area | 104106 | 75.30 |
| 11 | Area sown more than once | 39269 | ---- |
| 12 | Gross cropped area | 143375 | ---- |
| 13 | Cultivable land | 119645 | 86.55 |
| 14 | Intensity of cropping | ---- | 27.39 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune 1

Table No : 5.11.14 : Land Utilization Pattern

Taluka : Indapur

Year : 2001 – 02

| Sr. No | Particulars | Area in ('000') ha | % age to total area |
|--------|--|--------------------|---------------------|
| 1 | Total geographical area | 146791 | 100.00 |
| 2 | Area under forest | 7864 | 5.36 |
| 3 | Land put to non-agricultural use | 5862 | 4.10 |
| 4 | Barren and un-cultivated land | 2906 | 1.98 |
| 5 | Total area not available for cultivation (3+4) | 8768 | 5.97 |
| 6 | Uncultivated land (excluding fallow land) | 22650 | 15.43 |
| 7 | Current fallows | 1483 | 2.85 |
| 8 | Other fallows | 1783 | 1.21 |
| 9 | Total fallow (7+8) | 5966 | 4.06 |
| 10 | Net cropped area | 101543 | 69.18 |
| 11 | Area sown more than once | 11427 | ---- |
| 12 | Gross cropped area | 112970 | ---- |
| 13 | Cultivable land | 130159 | 88.67 |
| 14 | Intensity of cropping | ---- | 10.11 |

Source : Agricultural Commissioner, Department of Agriculture M.S.

Pune I

5.1.16 Cropping Pattern in all Talukas of Pune District (2002 - 03)

Table No. 5.12 given below shows the Taluka wise major crops grown in all talukas of Pune district. The arrivals of various agricultural commodities do depend on the acreage under them. And as such, the information would be useful to the traders in deciding the quantum of the produce to be purchased etc.

**Table No 5.12 : Talukawise Cropping Pattern during 2002-03
(Pune District)**

| Sr. No. | Taluka | Major Crops of the Talukas |
|---------|-----------|--|
| 1 | Junnar | Rice, Jowar, Bajri, Wheat, Gram, Sunflower |
| 2 | Ambegaon | Rice, Jowar, Bajri, Wheat, Maize, Gram, Sunflower |
| 3 | Shirur | Jowar, Bajri, Maize, Wheat, Gram, Sunflower |
| 4 | Khed | Jowar, Bajri, Maize, Rice, Wheat, Gram, Sunflower, Groundnut, Soyabean |
| 5 | Maval | Rice, Jowar, Bajri, Wheat, Groundnut, Gram, Sunflower |
| 6 | Mulashi | Rice, Jowar, Bajri, Wheat, Gram, Sunflower |
| 7 | Haveli | Rice, Jowar, Bajri, Wheat, Gram, Sunflower |
| 8 | Pune City | ---- |
| 9 | Daund | Jowar, Bajri, Maize, Wheat, Gram, Sunflower |
| 10 | Purandar | Jowar, Bajri, Maize, Wheat, Gram, Sunflower, Groundnut |
| 11 | Velhe | Rice, rabi-jowar |
| 12 | Bhor | Rice, Jowar, Bajri, Wheat, Sunflower |
| 13 | Baramati | Jowar, Bajri, Wheat, Gram, Maize, Sunflower, Soyabean |
| 14 | Indapur | Jowar, Bajri, Wheat, Gram, Maize, Sunflower, Soyabean |

Table No. 5.13.1 to Table No. 5.13.14 give talukawise cropping pattern in ha. The percentages of area of each of the crops to total cropped area in the talukas are also given in the said table.

Table No. 5.13.1 : Area under different crops in Junnar Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (ha.) | % area to total cropped area |
|---------|-----------------------------|--------------|------------------------------|
| 1 | Rice | 6042 | 4.72 |
| 2 | Wheat | 6719 | 4.75 |
| 3 | <i>Kharip</i> Jowar | 530 | 0.37 |
| 4 | <i>Rabbi</i> Jowar | 35550 | 25.11 |
| 5 | Bajri | 23511 | 16.61 |
| 6 | Maize | 1230 | 0.87 |
| 7 | Other Cereals | N.A | N.A |
| 8 | Total Cereals | 85253 | 60.22 |
| 9 | Gram | N.A | N.A |
| 10 | Tur | N.A | N.A |
| 11 | Other Pulses | 1871 | 1.32 |
| 12 | Total Pulses | 16558 | 11.70 |
| 13 | Total food crops (8 + 12) | 91811 | 64.85 |
| 14 | Sugarcane | 7817 | 5.52 |
| 15 | Total fruits | 6428 | 4.54 |
| 16 | Total vegetables | 11401 | 8.05 |
| 17 | Total spices and condiments | 778 | 0.55 |
| 18 | Cotton and other fibres | ---- | ---- |
| 19 | Total oilseeds | 11127 | 7.86 |
| 20 | Total medicinal crops | 10 | 0 |
| 21 | Other non-edible crops | 289 | 0.27 |
| 22 | Total fodder crops | 11808 | 8.34 |
| 23 | Total cropped area | 141569 | 100.00 |

Table No. 5.13.2 : Area under different crops in Ambegaon Taluka of
Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 4460 | 4.58 |
| 2 | Wheat | 3434 | 3.52 |
| 3 | <i>Kharip</i> Jowar | 401 | 0.41 |
| 4 | <i>Rabbi</i> Jowar | 24901 | 25.55 |
| 5 | Bajri | 15077 | 15.47 |
| 6 | Maize | 1303 | 1.34 |
| 7 | Other Cereals | 164 | 0.17 |
| 8 | Total Cereals | 51580 | 52.91 |
| 9 | Gram | 6954 | 7.13 |
| 10 | Tur | 375 | 0.38 |
| 11 | Other Pulses | 3628 | 3.72 |
| 12 | Total Pulses | 10957 | 11.24 |
| 13 | Total food crops (8 + 12) | 62537 | 64.15 |
| 14 | Sugarcane | 3304 | 3.39 |
| 15 | Total fruits | 2759 | 2.83 |
| 16 | Total vegetables | 10218 | 10.48 |
| 17 | Total spices and condiments | 733 | 0.75 |
| 18 | Cotton and other fibres | 00 | 00 |
| 19 | Total oilseeds | 9117 | 9.35 |
| 20 | Total medicinal crops | 00 | 00 |
| 21 | Other non-edible crops | 231 | 0.24 |
| 22 | Total fodder crops | 8579 | 8.8 |
| 23 | Total cropped area | 97478 | 100.00 |

Table No. 5.13.3 : Area under different crops in Shirur Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 1879 | 1.17 |
| 2 | Wheat | 7459 | 4.66 |
| 3 | <i>Kharip</i> Jowar | 284 | 0.18 |
| 4 | <i>Rabbi</i> Jowar | 89874 | 56.10 |
| 5 | Bajri | 21930 | 13.69 |
| 6 | Maize | 1048 | 0.65 |
| 7 | Other Cereals | 325 | 0.20 |
| 8 | Total Cereals | 122799 | 76.66 |
| 9 | Gram | 5749 | 3.59 |
| 10 | Tur | 267 | 0.17 |
| 11 | Other Pulses | 2716 | 1.7 |
| 12 | Total Pulses | 8732 | 5.45 |
| 13 | Total food crops (8 + 12) | 131531 | 82.11 |
| 14 | Sugarcane | 3804 | 2.37 |
| 15 | Total fruits | 2862 | 1.79 |
| 16 | Total vegetables | 5959 | 4.97 |
| 17 | Total spices and condiments | 685 | 0.43 |
| 18 | Cotton and other fibres | 25 | 0.01 |
| 19 | Total oilseeds | 5463 | 3.41 |
| 20 | Total medicinal crops | ---- | ---- |
| 21 | Other non-edible crops | 346 | 0.22 |
| 22 | Total fodder crops | 11514 | 7.19 |
| 23 | Total cropped area | 160189 | 100.00 |

Table No. 5.13.4 : Area under different crops in Khed Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-----------|------------------------------|
| 1 | Rice | 4157 | 3.99 |
| 2 | Wheat | 5707 | 5.47 |
| 3 | <i>Kharip</i> Jowar | 317 | 0.30 |
| 4 | <i>Rabbi</i> Jowar | 27363 | 26.23 |
| 5 | Bajri | 19402 | 18.60 |
| 6 | Maize | 1500 | 1.44 |
| 7 | Other Cereals | 2402 | 2.30 |
| 8 | Total Cereals | 60848 | 58.34 |
| 9 | Gram | 9950 | 9.54 |
| 10 | Tur | 626 | 0.60 |
| 11 | Other Pulses | 4014 | 3.85 |
| 12 | Total Pulses | 14590 | 13.99 |
| 13 | Total food crops (8 + 12) | 75438 | 72.37 |
| 14 | Sugarcane | 174 | 0.17 |
| 15 | Total fruits | 2730 | 2.62 |
| 16 | Total vegetables | 8786 | 8.42 |
| 17 | Total spices and condiments | 839 | 0.80 |
| 18 | Cotton and other fibres | ---- | ---- |
| 19 | Total oilseeds | 10117 | 9.70 |
| 20 | Total medicinal crops | ----- | ----- |
| 21 | Other non-edible crops | 448 | 2.42 |
| 22 | Total fodder crops | 5764 | 5.53 |
| 23 | Total cropped area | 104296 | 100.00 |

Table No. 5.13.5 : Area under different crops in Maval Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 9856 | 29.46 |
| 2 | Wheat | 2004 | 6.00 |
| 3 | <i>Kharip</i> Jowar | 134 | 0.4 |
| 4 | <i>Rabbi</i> Jowar | 3596 | 10.75 |
| 5 | Bajri | 1028 | 3.07 |
| 6 | Maize | 514 | 1.53 |
| 7 | Other Cereals | 1244 | 3.72 |
| 8 | Total Cereals | 18976 | 56.72 |
| 9 | Gram | 1948 | 5.82 |
| 10 | Tur | 95 | 0.28 |
| 11 | Other Pulses | 1651 | 4.94 |
| 12 | Total Pulses | 3694 | 11.04 |
| 13 | Total food crops (8 + 12) | 22670 | 67.77 |
| 14 | Sugarcane | 588 | 1.76 |
| 15 | Total fruits | 605 | 1.81 |
| 16 | Total vegetables | 273 | 0.82 |
| 17 | Total spices and condiments | 33 | 0.10 |
| 18 | Cotton and other fibres | ----- | ----- |
| 19 | Total oilseeds | 3887 | 11.62 |
| 20 | Total medicinal crops | ----- | ----- |
| 21 | Other non-edible crops | 130 | 0.39 |
| 22 | Total fodder crops | 5267 | 15.74 |
| 23 | Total cropped area | 33453 | 100.00 |

Table No. 5.13.6 : Area under different crops in Mulashi Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 7032 | 15.82 |
| 2 | Wheat | 2515 | 5.66 |
| 3 | <i>Kharip</i> Jowar | 250 | 0.56 |
| 4 | <i>Rabbi</i> Jowar | 15597 | 35.09 |
| 5 | Bajri | 1240 | 2.79 |
| 6 | Maize | 524 | 1.18 |
| 7 | Other Cereals | 802 | 1.80 |
| 8 | Total Cereals | 27960 | 62.89 |
| 9 | Gram | 929 | 2.09 |
| 10 | Tur | 89 | 0.20 |
| 11 | Other Pulses | 1018 | 2.29 |
| 12 | Total Pulses | 2036 | 4.58 |
| 13 | Total food crops (8 + 12) | 29996 | 87.47 |
| 14 | Sugarcane | 542 | 1.22 |
| 15 | Total fruits | 671 | 1.51 |
| 16 | Total vegetables | 137 | 0.31 |
| 17 | Total spices and condiments | 21 | 0.05 |
| 18 | Cotton and other fibres | 0 | 0 |
| 19 | Total oilseeds | 2504 | 5.63 |
| 20 | Total medicinal crops | 0 | 0 |
| 21 | Other non-edible crops | 121 | 0.27 |
| 22 | Total fodder crops | 10517 | 23.66 |
| 23 | Total cropped area | 44459 | 100.00 |

Table No. 5.13.7 : Area under different crops in Haveli Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 3427 | 3.81 |
| 2 | Wheat | 4062 | 4.52 |
| 3 | <i>Kharip</i> Jowar | 144 | 0.16 |
| 4 | <i>Rabbi</i> Jowar | 23279 | 25.90 |
| 5 | Bajri | 3052 | 14.52 |
| 6 | Maize | 1437 | 1.60 |
| 7 | Other Cereals | 124 | 0.17 |
| 8 | Total Cereals | 45525 | 50.68 |
| 9 | Gram | 1712 | 1.90 |
| 10 | Tur | 320 | 0.36 |
| 11 | Other Pulses | 1438 | 1.60 |
| 12 | Total Pulses | 3470 | 3.80 |
| 13 | Total food crops (8 + 12) | 48995 | 54.50 |
| 14 | Sugarcane | 8715 | 9.69 |
| 15 | Total fruits | 1559 | 1.73 |
| 16 | Total vegetables | 6097 | 6.78 |
| 17 | Total spices and condiments | 565 | 0.63 |
| 18 | Cotton and other fibres | 14 | 0.28 |
| 19 | Total oilseeds | 3379 | 3.76 |
| 20 | Total medicinal crops | --- | --- |
| 21 | Other non-edible crops | 574 | 0.64 |
| 22 | Total fodder crops | 19997 | 22.84 |
| 23 | Total cropped area | 89895 | 100.00 |

Table No. 5.13.8 : Area under different crops in Pune City Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 4 | 9.76 |
| 2 | Wheat | 15 | 36.59 |
| 3 | <i>Kharip</i> Jowar | 5 | 12.19 |
| 4 | <i>Rabbi</i> Jowar | 10 | 24.39 |
| 5 | Bajri | 1 | 2.44 |
| 6 | Maize | 6 | 14.63 |
| 7 | Other Cereals | ---- | ---- |
| 8 | Total Cereals | ---- | ---- |
| 9 | Gram | ---- | ---- |
| 10 | Tur | ---- | ---- |
| 11 | Other Pulses | ---- | ---- |
| 12 | Total Pulses | ---- | ---- |
| 13 | Total food crops (8 + 12) | 41 | 100.00 |
| 14 | Sugarcane | 0 | 0 |
| 15 | Total fruits | 0 | 0 |
| 16 | Total vegetables | 0 | 0 |
| 17 | Total spices and condiments | ---- | ---- |
| 18 | Cotton and other fibres | ---- | ---- |
| 19 | Total oilseeds | ---- | ---- |
| 20 | Total medicinal crops | ---- | ---- |
| 21 | Other non-edible crops | ---- | ---- |
| 22 | Total fodder crops | ---- | ---- |
| 23 | Total cropped area | 41 | 100.00 |

Table No. 5.13.9 : Area under different crops in Daund Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 1142 | 0.98 |
| 2 | Wheat | 6011 | 5.15 |
| 3 | <i>Kharip</i> Jowar | 292 | 0.25 |
| 4 | <i>Rabbi</i> Jowar | 67957 | 58.25 |
| 5 | Bajri | 2532 | 2.17 |
| 6 | Maize | 1442 | 1.24 |
| 7 | Other Cereals | 77 | 0.67 |
| 8 | Total Cereals | 79453 | 68.11 |
| 9 | Gram | N.A | N.A |
| 10 | Tur | N.A | N.A |
| 11 | Other Pulses | N.A | N.A |
| 12 | Total Pulses | 4991 | 4.28 |
| 13 | Total food crops (8 + 12) | 84444 | 72.39 |
| 14 | Sugarcane | 14661 | 12.57 |
| 15 | Total fruits | 2068 | 1.77 |
| 16 | Total vegetables | 3180 | 2.72 |
| 17 | Total spices and condiments | 437 | 0.37 |
| 18 | Cotton and other fibres | 59 | 0.05 |
| 19 | Total oilseeds | 3372 | 2.89 |
| 20 | Total medicinal crops | ---- | ---- |
| 21 | Other non-edible crops | 337 | 0.29 |
| 22 | Total fodder crops | 8089 | 6.93 |
| 23 | Total cropped area | 116647 | 100.00 |

**Table No. 5.13.10 : Area under different crops in Purandar Taluka of
Pune District : Year : 2002-03**

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 4895 | 5.50 |
| 2 | Wheat | 7883 | 8.85 |
| 3 | <i>Kharip</i> Jowar | 98 | 0.11 |
| 4 | <i>Rabbi</i> Jowar | 32090 | 36.03 |
| 5 | Bajri | 17098 | 10.20 |
| 6 | Maize | 712 | 0.8 |
| 7 | Other Cereals | 50 | 0.06 |
| 8 | Total Cereals | 62826 | 70.53 |
| 9 | Gram | N.A | N.A |
| 10 | Tur | N.A | N.A |
| 11 | Other Pulses | N.A | N.A |
| 12 | Total Pulses | 5100 | 5.73 |
| 13 | Total food crops (8 + 12) | 67926 | 7.26 |
| 14 | Sugarcane | 562 | 0.63 |
| 15 | Total fruits | 2173 | 2.44 |
| 16 | Total vegetables | 4177 | 4.70 |
| 17 | Total spices and condiments | 967 | 1.00 |
| 18 | Cotton and other fibres | ---- | ---- |
| 19 | Total oilseeds | 4773 | 5.36 |
| 20 | Total medicinal crops | 7 | 0.1 |
| 21 | Other non-edible crops | 140 | 0.15 |
| 22 | Total fodder crops | 8350 | 9.37 |
| 23 | Total cropped area | 89075 | 100.00 |

Table No. 5.13.11 : Area under different crops in Velhe Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 4280 | 17.19 |
| 2 | Wheat | 618 | 2.48 |
| 3 | <i>Kharip</i> Jowar | 90 | 0.36 |
| 4 | <i>Rabbi</i> Jowar | 2520 | 10.12 |
| 5 | Bajri | 988 | 3.97 |
| 6 | Maize | 183 | 0.73 |
| 7 | Other Cereals | 2727 | 10.95 |
| 8 | Total Cereals | 11406 | 45.80 |
| 9 | Gram | N.A | N.A |
| 10 | Tur | N.A | N.A |
| 11 | Other Pulses | N.A | N.A |
| 12 | Total Pulses | 1833 | 7.36 |
| 13 | Total food crops (8 + 12) | 13239 | 53.17 |
| 14 | Sugarcane | 41 | 0.17 |
| 15 | Total fruits | 752 | 3.02 |
| 16 | Total vegetables | 410 | 1.63 |
| 17 | Total spices and condiments | 23 | 0.09 |
| 18 | Cotton and other fibres | ---- | ---- |
| 19 | Total oilseeds | 1535 | 6.16 |
| 20 | Total medicinal crops | ---- | ---- |
| 21 | Other non-edible crops | ---- | ---- |
| 22 | Total fodder crops | 8900 | 35.74 |
| 23 | Total cropped area | 24901 | 100.00 |

Table No. 5.13.12 : Area under different crops in Bhore Taluka of

Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 1528 | 12.04 |
| 2 | Wheat | 2868 | 6.73 |
| 3 | <i>Kharip</i> Jowar | 144 | 0.34 |
| 4 | <i>Rabbi</i> Jowar | 14089 | 33.07 |
| 5 | Bajri | 1546 | 3.36 |
| 6 | Maize | 1062 | 2.49 |
| 7 | Other Cereals | 3666 | 8.60 |
| 8 | Total Cereals | 28503 | 66.90 |
| 9 | Gram | N.A | N.A |
| 10 | Tur | N.A | N.A |
| 11 | Other Pulses | N.A | N.A |
| 12 | Total Pulses | 2767 | 6.49 |
| 13 | Total food crops (8 + 12) | 31270 | 73.39 |
| 14 | Sugarcane | 954 | 2.23 |
| 15 | Total fruits | 784 | 1.84 |
| 16 | Total vegetables | 1016 | 2.38 |
| 17 | Total spices and condiments | 359 | 0.84 |
| 18 | Cotton and other fibres | ---- | ---- |
| 19 | Total oilseeds | 4554 | 10.69 |
| 20 | Total medicinal crops | ---- | ---- |
| 21 | Other non-edible crops | ---- | ---- |
| 22 | Total fodder crops | 3666 | 8.60 |
| 23 | Total cropped area | 42606 | 100.00 |

Table No. 5.13.13 : Area under different crops in Baramati Taluk of
Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 2896 | 2.13 |
| 2 | Wheat | 8880 | 6.53 |
| 3 | <i>Kharip</i> Jowar | 313 | 0.23 |
| 4 | <i>Rabbi</i> Jowar | 61478 | 45.20 |
| 5 | Bajri | 4074 | 3.00 |
| 6 | Maize | 1920 | 1.41 |
| 7 | Other Cereals | 1101 | 0.80 |
| 8 | Total Cereals | 80662 | 59.23 |
| 9 | Gram | 7791 | 5.73 |
| 10 | Tur | 271 | 0.2 |
| 11 | Other Pulses | 3691 | 2.71 |
| 12 | Total Pulses | 11753 | 8.64 |
| 13 | Total food crops (8 + 12) | 91415 | 67.20 |
| 14 | Sugarcane | 15530 | 11.42 |
| 15 | Total fruits | 3791 | 2.79 |
| 16 | Total vegetables | 6337 | 4.66 |
| 17 | Total spices and condiments | 379 | 0.28 |
| 18 | Cotton and other fibres | 104 | 0.07 |
| 19 | Total oilseeds | 6297 | 4.63 |
| 20 | Total medicinal crops | ---- | ---- |
| 21 | Other non-edible crops | 619 | 0.46 |
| 22 | Total fodder crops | 11543 | 8.49 |
| 23 | Total cropped area | 136025 | 100.00 |

Table No. 5.13.14 : Area under different crops in Indapur Taluka of
Pune District : Year : 2002-03

| Sr. No. | Names of Crops | Area (Ha) | % area to total cropped area |
|---------|-----------------------------|-------------|------------------------------|
| 1 | Rice | 2524 | 2.21 |
| 2 | Wheat | 6540 | 5.73 |
| 3 | <i>Kharip</i> Jowar | 21 | 0.02 |
| 4 | <i>Rabbi</i> Jowar | 6430 | 56.36 |
| 5 | Bajri | 2415 | 2.11 |
| 6 | Maize | 2006 | 1.76 |
| 7 | Other Cereals | 27 | 0.02 |
| 8 | Total Cereals | 77832 | 68.21 |
| 9 | Gram | 2574 | 2.26 |
| 10 | Tur | 397 | 0.35 |
| 11 | Other Pulses | 355 | 0.31 |
| 12 | Total Pulses | 6326 | 5.55 |
| 13 | Total food crops (8 + 12) | 84158 | 73.76 |
| 14 | Sugarcane | 8935 | 7.83 |
| 15 | Total fruits | 3171 | 2.78 |
| 16 | Total vegetables | 4218 | 3.70 |
| 17 | Total spices and condiments | 367 | 0.32 |
| 18 | Cotton and other fibres | 173 | 0.15 |
| 19 | Total oilseeds | 4861 | 4.26 |
| 20 | Total medicinal crops | 81 | 0.07 |
| 21 | Other non-edible crops | 579 | 0.51 |
| 22 | Total fodder crops | 7549 | 6.62 |
| 23 | Total cropped area | 114092 | 100.00 |

5.2 Salient Features of the Selected APMCs for Study

5.2.1 Introduction

Apart from the organizational structure and composition of APMC, the other important things such as the facilities / amenities are also required at the place of market, where the buyers and the sellers come for marketing of agricultural produce. Hence it is proposed to present here the information of the APMCs regarding their place of marketing, area of market, the buildings, functionaries and other amenities provided to the sellers and buyers. The same is presented below in respect of each of the selected APMCs.

The information includes the following items.

- 1] Establishment Date of APM.
- 2] Market area.
- 3] Date of notification.
- 4] Nearest – Railway Station, Bus Stand, Highway.
- 5] Names of Submarkets, their notification dates and the area.
- 6] Major agricultural commodities transacted.
- 7] Income and Expenditure for the last three years.
- 8] Godown facilities.
- 9] Licensed functionaries.
- 10] Various facilities / amenities provided at the APM.

Salient features of Agriculture Produce Market Committees

5.2.2 Baramati

| | |
|----------------------|------------|
| Establishment Date | 16/12/1935 |
| Market Area(ha) | 12.60 |
| Date of Notification | 23/03/1948 |

| | | |
|-------------------------|--------------|-------------|
| Nearest railway station | Baramati | 1.000 K.M. |
| Nearest Bus stand | Baramati | 1.000 K.M. |
| Nearest Highway | Pune-Solapur | 23.000 K.M. |

| Submarket | | |
|-----------|----------------------|-----------|
| Name | Date of Notification | Area (ha) |
| Supa | 15/12/1971 | 1.20 |
| Jalochi | 18/06/2005 | 17.02 |

| Major Commodities |
|--|
| Wheat, Rice, Bajra, Jaggery, Jawar, Grams, Maize, Soyabean, Pigeon pea |

| Income & Expenditure for Last Three Years (value in Rs.) | | | |
|--|-------------|-------------|-----------------|
| Year | Income | Expenditure | Surplus/Deficit |
| 2007-08 | 61,79,433 | 57,01,806 | 4,76,627 |
| 2008-09 | 1,28,66,379 | 1,17,76,560 | 10,89,879 |
| 2009-10 | 1,67,20,274 | 1,29,24,931 | 37,95,343 |

| Godown in Market Yard | | |
|---------------------------------------|------|------------|
| Owner | | |
| Agricultural Produce Market Committee | ---- | ---- |
| State Government | --- | ---- |
| Co-op. Society | 16 | 200 m.tons |
| Private | 39 | 150 m.tons |
| Warehousing Corporation | 1 | 1000 |

| Licensed Functionaries | |
|-------------------------------|-----|
| Hamal | 260 |
| Weighman | 28 |
| Commission Agent | 101 |
| Trader | 119 |
| Processor | 15 |
| Assistant to Commission Agent | 192 |

Facilities provided in APMC area

- 1) Drinking water well with pump-set.
- 2) Overhead water tank of capacity of 25,000 ltrs.
- 3) Double connection for water supply.
- 4) Six Bore wells, two with submersible and 1 with electric motor.
- 5) Electrification of market yard area.
- 6) Internal Roads.
- 7) Tree plantation in market yard area.
- 8) Compound walls for security.

- 9) Two main entrances.
- 10) Office of Vermiculture Plant.
- 11) Construction of *Hamal Bhavan* for workers.
- 12) Two canteen facility at vegetable market and at grocery market.
- 13) Resting shed.
- 14) Washrooms and common toilets.
- 15) Cycle stand.
- 16) Police Station for security.
- 17) 71 plots and 15 shops are provided on rental basis to commission agents and traders. 24 shops are given to traders on hire purchase basis.
- 18) Sale Hall for Summer and Rainy season admeasuring area of 70 x 200 sq.ft. along with weighing machine.
- 19) Facility of 60” Projection Television Set in main office for traders and farmers.

5.2.3 DAUND

| | |
|----------------------|------------|
| Establishment Date | 30/07/1959 |
| Market Area (ha) | 2.5 |
| Date of Notification | 21/03/1968 |

| | | |
|-------------------------|--------------|-----------|
| Nearest Railway Station | Dound | 2.000 KM |
| Nearest Bus Stand | Dound | 1.000 KM |
| Nearest Highway | Pune-Solapur | 15.000 KM |

| Submarkets | | |
|------------|----------------------|-----------|
| Name | Date of Notification | Area (ha) |
| Kedgaon | 21/03/1968 | 2.5 |
| Yavat | 21/03/1968 | 2.5 |

| Major Commodities |
|---|
| Jaggery, Groundnut, Red Chillies, Soyanean Paddy, Cashewnut |

| Income and Expenditure for Last Three Years (Rs.) | | | |
|--|---------|-------------|---------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 1773652 | 1404094 | 369558 |
| 2008-09 | 4073176 | 4002329 | 70846 |
| 2009-10 | 4229253 | 4053032 | 176221 |

| Godown in Market Yard | | |
|---------------------------------------|----------------|------------|
| Owner | No. of Godowns | Capacity |
| Agricultural Produce Market Committee | 06 | 250 m.tons |
| State Government | -- | -- |
| Co-op. Society | -- | -- |
| Private | -- | -- |
| Warehousing Corporation | -- | -- |

| Lincensed Functionaies | |
|------------------------|-----|
| Hamal | 48 |
| Weighman | 11 |
| Commission Agent | 71 |
| Trader | 360 |
| Processer | |
| Others | |
| Staff | 10 |

5.2.4 INDAPUR

| | |
|---------------------|------------|
| Market Area(ha) | 17.22 |
| Date of Notifcation | 28/03/1961 |

| | | |
|-------------------------|--------------|---------|
| Nearest Railway Sration | Bhigwan | 38.0 KM |
| Nearest Bus Stand | Indapur | 1.0 KM |
| Nearest Highway | Pune-Solapur | 0.0KM |

| Submarkets | | |
|---------------|---------------------|-----------|
| Name | Date of Notifcation | Area (ha) |
| Bhigwan | 28/03/1961 | 8.40 |
| Nimgaon | 28/03/1961 | 1.47 |
| Walchandnager | 01/03/1993 | --- |
| Bavada | 07/04/1971 | --- |

| Major Commodities |
|---|
| Jawar, Bajara, Wheat, Gram, Pidgeon pea, Maize, Fish, Groundnut, Jaggery |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|---|----------|-------------|---------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 5287685 | 3986532 | 1301153 |
| 2008-09 | 11116939 | 7503667 | 3613272 |
| 2009-10 | 11404714 | 8293929 | 3110785 |

| Godown in Market Yard | | |
|--|------------------|-------------|
| Owner | No. of Godown | Capacity |
| Agricultural produce market committee | 3 | 1200 m.tons |
| State Government | -- | ---- |
| Co-op Society | 2 | 300 m.tons |
| Private | 8 | 3000 m.tons |
| Warehousing | --- | --- |

| Licensed Functionaries | |
|------------------------|-----|
| Hamal | 27 |
| Weighman | 16 |
| Commission Agent | 92 |
| Trader | 569 |
| Others | 08 |
| Total | 712 |

Facilities provided -

- | | |
|--------------------------------|-----------------------------|
| 1) Compound wall for security. | 2) Auction area |
| 3) Drinking water supply. | 4) Vehicle parking facility |
| 5) Administrative building. | 6) Weighing machine |
| 7) Street lights. | 8) Computers |
| 9) Canteen. | 10) Godown |
| 11) Sanitation. | 12) Electric supply |
| 13) Check post. | 14) Platforms, shops |
| 15) <i>Hamal Bhavan</i> . | 16) Tree plantation |

5.2.5 JUNNAR

| | |
|----------------------|------------|
| Estalishment Date | 03/08/1961 |
| Market Area | 6.07 |
| Date of Notification | 28/06/1962 |

| | | |
|-------------------------|--------------|-------|
| Nearest Railway Station | Talegaon | 85 KM |
| Nearest Bus Stand | Narayangaon | 16 KM |
| Nearest Highway | Pune-Solapur | 16 KM |

| Submarket | | |
|--------------|----------------------|-----------|
| Name | Date of Notification | Area (ha) |
| Belhe | 26/03/1964 | 2.95 |
| Otur | 26/03/1964 | 1.66 |
| Narayangaon | 26/03/1964 | 3.23 |
| Alephata | 21/12/1978 | 2 |
| Mad | 09/03/1983 | --- |
| Paragon Tarf | 25/04/2005 | --- |

| Major Commodities |
|---|
| Onion, Potato, Rice, Wheat, Garlic, Green Chillies, Tomato, Groundnut |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|---|----------|-------------|----------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 8867664 | 55446215 | 3321448 |
| 2008-09 | 24453829 | 11510122 | 12943706 |
| 2009-10 | 31461756 | 14391627 | 17070128 |

| Licensed Functionaries | |
|------------------------|------|
| Hamal | 196 |
| Weighman | 107 |
| Commission Agent | 80 |
| Trader | 2051 |
| Processor | 11 |
| Other | 1651 |
| Total | 4096 |

Facilities provided -

- | | |
|---|-----------------------------|
| 1) Compound wall and wire fencing for security. | 2) Entrance Gate. |
| 3) Check Post. | 4) Administrative Building. |
| 5) Closed Selling Building area. | 6) Open auction area |
| 7) Washing rooms. | 8) Shops |
| 9) Internal roads. | 10) Drinking water |
| 11) Rest house. | 12) Electricity supply |
| 13) Godown. | 14) Tube lights. |

5.2.6 KHED

| | |
|----------------------|------------|
| Establishment Date | 16/08/1950 |
| Market Area(ha) | 3.85 |
| Date of Notification | 16/08/1950 |

| | | |
|-------------------------|--------------|-------|
| Nearest Railway Station | Pune | 45 KM |
| Nearest Bus Stand | Rajgurunagar | 0 KM |
| Nearest Highway | Pune-Nasik | 0 KM |

| Submarkets | | |
|------------|----------------------|----------|
| Name | Date of Notification | Area(ha) |
| Chakan | 28/08/1954 | 6.84 |
| Pipalgaon | 06/04/1979 | 2.55 |
| Pait | 25/07/1979 | 2.00 |
| Vada | 22/08/1986 | --- |
| Kude | 15/12/2002 | 2.16 |
| Dehane | 15/12/2002 | 2.00 |

| Major Commodities |
|---|
| Onion, Potato, Groundnut Pods, Vegetables |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|--|-------------|-------------|-----------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 80,14,757 | 63,86,307 | 16,28,450 |
| 2008-09 | 1,91,53,863 | 1,29,65,165 | 61,88,698 |
| 2009-10 | 2,08,40,928 | 1,51,64,325 | 56,76,603 |

| Licensed functionaries | |
|------------------------|-----|
| Hamal | 191 |
| Weighman | 46 |
| Commission agent | 107 |
| Trader | 485 |
| Processor | 02 |
| Others | 14 |
| Total | 845 |

Facilities provided -

- | | |
|-------------------------------------|--|
| 1) Rest house for farmers. | 2) Light and telephone lines are provided. |
| 3) Shed for vegetables. | 4) Compound wall for security. |
| 5) Drinking water & internal roads. | 6) Weighing machine. |
| 7) Canteen for meals. | 8) Administrative building. |
| 9) Sanitation. | 10) Refreshing rooms |
| 11) Water tanks. | 12) Godown |

5.2.7 MANCHAR

| | |
|-----------------------|------------|
| Date of Establishment | 16/03/1950 |
| Market Area | 3.05 |
| Date of Notification | 05/04/1952 |

| | | |
|-------------------------|------------|-------|
| Nearest Railway Station | Pune | 70 KM |
| Nearest Bus Stand | Mancher | 1 KM |
| Nearest Highway | Pune-Nasik | 0 KM |

| Submarkets | | |
|------------|----------------------|-----------|
| Name | Date of Notification | Area (ha) |
| Ghodegaon | 28/09/1972 | 3.64 |
| Loni | 25/08/1977 | 3 |
| Taleghar | 20/10/2005 | 3.05 |

| Major Commodities |
|--|
| Onion, Potato, Groundnut, Bajra, Groundnut kernels |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|---|-------------|-------------|-----------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 60,26,737 | 34,64,912 | 25,61,825 |
| 2008-09 | 74,72,285 | 65,24,190 | 9,48,095 |
| 2009-10 | 1,34,68,568 | 1,03,74,662 | 30,93,905 |

| Licensed Functionaries | |
|------------------------|-----|
| Hamal | 141 |
| Weighman | 04 |
| Commission Agent | 108 |
| Trader | 241 |
| Processor | 02 |
| Other | 38 |

Facilities provided -

- | | |
|-----------------------------|--------------------------------|
| 1) Administrative Building. | 2) Drinking water. |
| 3) Tree plantation. | 4) Electricity |
| 5) Shops. | 6) Check Post |
| 7) Canteen. | 8) Godown |
| 9) Bank. | 10) Compound wall for security |

- | | |
|--------------------------|-------------------------------|
| 11) Shed for auction. | 12) Internal concrete roads |
| 13) Vehicle Parking. | 14) Washrooms and sanitation. |
| 15) Platform for animals | |

5.2.8 NIRA

| | |
|----------------------|------------|
| Establishment Date | 11/04/1956 |
| Market Area | 4.60 |
| Date of Notification | 23/08/1956 |

| | | |
|-------------------------|------|------|
| Nearest Railway Station | Nira | 1 KM |
| Nearest Bus Stand | Nira | 1 KM |
| Nearest Highway | ---- | ---- |

| Submarkets | | |
|------------|----------------------|-----------|
| Name | Date of Notification | Area (ha) |
| Saswad | 02/12/1959 | 1.75 |

| Major Commodities |
|---|
| Jaggery, Wheat, Bajara, Jawar, Gram, Rice |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|---|-----------|-------------|----------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 6,49,773 | 11,56,289 | 5,03,515 |
| 2008-09 | 24,32,373 | 21,75,721 | 2,56,651 |
| 2009-10 | 24,58,151 | 20,59,802 | 3,98,349 |

| Godown in Market Yard | | |
|---------------------------------------|----------------|-------------|
| Owner | No. of Godowns | Capacity |
| Agricultural Produce Market Committee | 1 | 500 m.tons |
| State Government | 1 | 3000 m.tons |
| Co-op. Society | 3 | 2500 m.tons |
| Private | 13 | 500 m.tons |
| Warehousing Corporation | 1 | 3000 m.tons |

| Licensed Functionaries | |
|------------------------|-----|
| Hamal | 152 |
| Weighman | 4 |
| Commission Agent | 36 |
| Trader | 112 |
| Others | 15 |
| Total | 319 |

5.2.9 PUNE

| | |
|----------------------|------------|
| Establishment Date | 1/05/1957 |
| Market Area (ha) | 72.94 |
| Date of Notification | 01/05/1975 |

| | | |
|-------------------------|---------------------|------|
| Nearest Railway Station | Pune | 6 KM |
| Nearest Bus Stand | Swargate | 2 KM |
| Nearest Highway | Pune - Bangalore | 1 KM |

| Submarkets | | |
|------------------|----------------------|-----------|
| Name | Date of Notification | Area (ha) |
| Hadapsar | 04/10/1975 | |
| Khadaki Niyam-5 | 18/05/1977 | |
| Pimpri Chinchwad | 01/01/1977 | |
| Uttamnagar | 18/05/2001 | 1.10 |
| Mangalwar Peth | 01/09/1971 | |
| Manjari | 2/07/2010 | 2.18 |

| Major Commodities |
|--|
| Jaggery, Potato, Jawar, Bajara, Tomato, Banana, Chillies, Onion, Rice. |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|---|-------------|--------------|-------------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 3,11,72,251 | 7,72,79,253 | 3,96,11,438 |
| 2008-09 | 5,33,42,306 | 24,64,58,938 | 16,635 |
| 2009-10 | 6,64,97,886 | 32,04,60,657 | 1,01,291 |

| Godown in Market Yard | | |
|--|----------------|--------------|
| Owner | No. Of Godowns | Capacity |
| Agricultural Produce Market Committee | 01 | 1350 m.tons |
| Maharashtra State co.op Marketing Federation | 01 | 260 m.tons |
| Private | 478 | 62140 m.tons |
| Warehousing corporation | 06 | 9220 |

| | | |
|--|----|----------------|
| | | m.tons |
| NAFED | 01 | 439 m.tons |
| Pune zila Parishad | 01 | 921 m.tons |
| Maharashtra State Seed corporation | 01 | 220 m.tons |
| National Seed corporation | 02 | 850 m.tons |
| MAFCO | 03 | 1800 m.tons |
| Bharati Madhyavarti Sah.Grahaak Bhandar | 01 | 260 m.tons |

| Licensed Functionaries | |
|-------------------------------------|------|
| Hamal | 2490 |
| Weighman | 411 |
| Commission Agent | 1317 |
| Trader | 5462 |
| Processor | 57 |
| Others(Helper(40) + Broker(143)) | 183 |

Facilities provided -

- | | |
|---------------------------|--------------------------|
| 1) Sheds for commodities | 2) Drinking water supply |
| 2) Telephone | 4) Electricity |
| 5) Street light | 6) Weighing machines |
| 7) Rest house for farmers | 8) Sanitation |
| 9) Godown | 10) Auction platform |
| 11) Cold storage houses | |

5.2.10SHIRUR

| | |
|----------------------|------------|
| Establishment Date | 15/09/1957 |
| Market Area(ha) | 3.3 |
| Date of Notification | 15/09/1959 |

| | | |
|-------------------------|-------------------|-------|
| Nearest Railway Station | Ahmednagar | 55 KM |
| Nearest Bus Stand | Shirur (Ghodnadi) | 0 KM |
| Nearest Highway | Pune-Solapur | 55 KM |

| Submarkets | | |
|------------------------------|----------------------|-----------|
| Names | Date of Notification | Area (ha) |
| Talegaon-Dhamdhere | 31/07/1959 | 1.62 |
| Pabal | 26/10/1964 | 3.30 |
| Jambut | 14/03/1983 | 2.00 |
| Vadgaon Rasai | 11/03/1977 | 1.62 |
| Kavathe Yamai | 30/07/1992 | --- |
| Pimpale Jagtap | 21/03/2005 | 12 |
| Shirur Gat No1135A/1139/3 | 28/03/2006 | 3.85 |

| Major Commodities |
|---|
| Jawar, Bajara, Wheat, Green Gram, Groundnut, Gram , Jaggary, Pigeon Pea, Tamarind |

| Income and Expenditure for Last Three Years (in Rs.) | | | |
|---|---------|-------------|---------|
| Year | Income | Expenditure | Surplus |
| 2007-08 | 2400487 | 236781 | 33306 |
| 2008-09 | 5414162 | 4509973 | 904189 |
| 2009-10 | 7316886 | 6209175 | 1107711 |

| Godown in Market Yard | | |
|---------------------------------------|---------------|------------|
| Owner | No. of Godown | Capacity |
| Agricultural produce market committee | 3 | 200 m.tons |
| State Government | - | - |
| Co-op. Society | 6 | 200 m.tons |
| Private | 49 | 300 m.tons |
| Warehousing Corporation | -- | -- |

| Licensed functionaries | |
|------------------------|------|
| Hamal | 266 |
| Weighman | 4 |
| Commission Agent | 74 |
| Trader | 625 |
| Processor | 1 |
| Other | ---- |
| Total | 970 |

Facilities provided -

- | | |
|--------------------------------|----------------------------|
| 1) Administrative building. | 2) Rest house for farmers. |
| 3) Compound wall for security. | 4) Bank |
| 5) Canteen | 6) Drinking water |
| 7) Well. | 8) Light. |
| 9) Watchman | 10) Telephone. |
| 11) Sanitation | 12) Television |
| 13) Shopping centre. | 14) Cattle shed |
| 15) Tree Plantation | 16) Internal roads |
| 17) Godown. | 18) Platform for animals |
| 19) Weighing machine. | 20) Shops |

5.2.11 Talegaon Dabhade

| | |
|----------------------|------------|
| Establishment Date | |
| Market Area (ha) | 2.46 |
| Date of Notification | 07/09/1973 |

| | | |
|-------------------------|---------------|-----|
| Nearest Railway Station | Talegaon | KM |
| Nearest Bus Stand | Talegaon | KM |
| Nearest Highway | Mumbai – Pune | 5KM |

| Submarkets | | |
|------------|----------------------|----------|
| Name | Date of Notification | Area(ha) |
| Khandala | 07/09/1997 | N.A. |
| Indori | 07/09/1997 | N.A. |
| Lonavala | 07/09/1997 | N.A. |

| Major Commodities | |
|--------------------------------------|--|
| Wheat , Rice, Bajara , Jowar , Grass | |

| Licensed Functionaries | |
|------------------------|------|
| Hamal | N.A. |
| Weighman | N.A. |
| Commission Agent | 4 |
| Trader | 643 |
| Processor | 37 |
| Others | |

CHAPTER VI

ANALYSIS OF DATA

6.1 Income side of APMC

6.1.1 Introduction

6.1.2 Income structure of APMC

6.1.3 Average Income of Selected APMCs

6.1.4 Break-up of Annual Income of Selected APMCs

6.1.5 Variability in Annual Income of Selected APMCs

6.1.6 Trend Analysis of Average annual Income of the selected APMCs

6.1.7 Linear Growth Rates of Income of the selected APMCs

6.2 Expenditure Side of APMC

6.2.1 Introduction

6.2.2 Expenditure Structure of APMC

6.2.3 Average Expenditure of Selected APMCs

6.2.4 Break –up of Annual Expenditure of Selected APMCs

6.2.5 Variability in Annual Expenditure of selected APMCs

6.2.6 Trend Analysis of Average annual expenditure of the selected APMCs

6.2.7 Linear Growth Rates of Expenditure of the selected APMCs

6.3 Overall view of percentage changes in Income – Expenditure of the Selected APMCs

6.4. Annual Surplus of the Selected APMC

6.4.1 Introduction

6.4.2 Annual Average surplus of the selected APMCs.

6.4.3 No of years of Surpluses

6.4.4 Variability in surpluses of the selected APMCs

6.4.5 Percentage Surplus of the selected APMCs

6.4.6 Linear Growth Rates of Surplus

6.4.7 Conclusions

6.5 Situation of Losses in some of the selected APMCs

6.5.1 Introduction

6.5.2 No. of years of losses

6.5.3 Reasons of losses

6.5.4 Conclusions

6.6 Statistical Analysis

6.6.1 Correlation between Income & Expenditure of the selected APMC

6.6.2 Regression Analysis of data regarding arrivals & Prices of important agriculture commodities

6.6.3 Linear Growth rates of arrivals & annual average prices of agriculture commodities at the selected APMCs.

6.7 Financial Analysis (I)**6.8 Financial Analysis (II)****6.8.1 Introduction****6.8.2 Meaning****6.8.3 Utility****6.8.4 Selective financial statements****6.8.5 Comparative income statement****6.8.6 Comparative balance sheets****6.8.7 Common size balance sheet****6.8.8 Common size income statement****6.9 Financial Ratio Analysis****6.9.1 Introduction****6.9.2 Types of Ratios****6.9.3 Financial Ratios selected for the present study****6.10 Testing of Hypothesis**

6.1 Income side of APMC

6.1.1 Introduction

The efficient marketing system for the farmers in India is as necessary as scientific and improved agricultural practices. For this purpose, the Government intervened in the agricultural marketing system through the establishment of agricultural regulated markets in the country.

The agricultural regulated market may either be small or big, it aims at elimination of unhealthy and unscrupulous practices, reducing the market charges and providing facilities to producers and the sellers. Besides, the APMC has to invest some capital expenditure and also some capital for operating the regulated market. To meet such expenses, the APMC has to bring out some income from time to time through levying the market fees to sellers and the license fees to the merchant's, commission agents etc. It is therefore felt necessary to examine the income structure of the APMC in general.

6.1.2 Income structure of APMC

Generally, the APMC gets income from the following ways

i) Market fees :-

This fee is to be paid by the farmer/seller, who comes in market for sale of his commodities. The rates of fees are fixed by the committee. The income from the market fee is a major item of income to the APMC.

ii) License fees :-

Such fees are charged to the merchants towards the purchases of goods directly or through his agents.

iii) Income from other sources :-

The income from the following sources is usually available / to the APMCs.

The following are the sources

- i) Rent of buildings, shops etc
- ii) Interest on capital invested in Fixed Deposit.
- iii) Interest on savings
- iv) Interest on share capital
- v) Other charges such as penalty charges, sell of tender notices, various forms, tickets etc.

For the purpose of analysis, the income items have been grouped into three sub-groups as shown below.

- i) Income from market fees.
- ii) Income from license fees.
- iii) Income from other items mentioned as above

6.1.3 Average Annual Income of selected APMCs :-

The data shown in Table 6.1 showed that, barring the highest annual income of Pune APMC (Rs.1749.85 lacs) and the lowest annual income of Talegaon APMC (Rs.3.86 lacs), the annual income figures of the remaining eight APMCs ranged from Rs. 18.66 lacs (Nira APMC) to Rs 136.03 lacs (Junnar APMC). Indapur APMC & Manchar APMC had more

or less equal annual income viz Rs.67.34 lacs and Rs. 73.02 lacs respectively. Baramati APMC secured annual income of Rs.91.61 lacs while Junnar and Khed APMC had more or less the annual income of the same order viz. Rs.136.03 lacs and Rs.115.42 lacs respectively.

6.1.4 Break –up of Annual Income of selected APMCs :-

As stated previously, the annual income of the APMC has been divided into three sub-groups viz.

- i) Income from market fees
- ii) Income from license fees and
- iii) Income from other items.

The breakup of annual average income of the selected APMCs is shown in Table 6.1. It could be seen from this table that the major income of APMC was the income from market fees. This income ranged from 44.56% (Shirur APMC) to 90.63% (Daund APMC) of the total income.

The Table 6.1 further showed that the income from “Other items” ranged from 7.79% (Daund APMC) to 52.05% (Shirur APMC) .As regards the share of income from “License fees”, it was observed that it formed very low share in the total income, in cases of all the selected APMCs. The percentage share was ranged from 0.29% (Pune APMC) to 6.48% (Talegaon APMC).

Table:-6.1 : Break- up of Average Annual Income of Selected APMCs in Pune District

[Fig. in lac Rs/Year]

| Sr. No | Name of APMC | No. of Years | Break-up of Average Annual Income of APMCs. (Rs. In Lac) | | | |
|--------|--------------|--------------|--|----------------|-------------------|---------------------|
| | | | Market fees | Licence fees | Other income | Total Income |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Baramati | 10 | 63.50 (69.32) | 0.29 (0.32) | 27.81 (30.36) | 91.60 (100.00) |
| 2 | Daund | 10 | 21.76 (90.63) | 0.38 (1.58) | 1.87 (7.79) | 24.01 (100.00) |
| 3 | Indapur | 10 | 42.72 (63.44) | 0.51 (0.76) | 24.11 (35.80) | 67.34 (100.00) |
| 4 | Junnar | 10 | 102.23 (75.16) | 2.56 (1.88) | 31.24 (22.96) | 136.03 (100.00) |
| 5 | Khed | 10 | 88.73 (76.88) | 1.09 (0.94) | 25.60 (22.18) | 115.42 (100.00) |
| 6 | Manchar | 10 | 54.25 (74.29) | 0.64 (0.88) | 18.13 (24.83) | 73.02 (100.00) |
| 7 | Nira | 10 | 10.57 (56.65) | 0.23 (1.23) | 7.86 (42.12) | 18.66 (100.00) |
| 8 | Pune | 10 | 1289.24 (73.70) | 5.10 (0.29) | 455.01 (26.01) | 1749.35 (100.00) |
| 9 | Shirur | 10 | 17.38 (44.56) | 1.32 (3.39) | 20.30 (52.05) | 39.00 (100.00) |
| 10 | Talegaon | 7 | 3.50 (90.67) | 0.25 (6.48) | 0.11 (2.85) | 3.86 (100.00) |

*column 3 indicates the no. of years for which data on income have been considered for estimating average income. The figures in brackets indicate the percentage income to total income of the year.

6.1.5 Variability in Annual Income of the selected APMCs :-

In order to study the variability in income of the APMCs during the 10 years period of time, the annual income data of each of the APMCs was subjected to statistical analysis. The parameters such as mean, range,

Standard Deviation and Co-efficient of Variation were worked out and the same have been presented in the Table 6.2.

Table 6.2 :- Variability in Annual Income of the selected APMCs in Pune District during the period 2000-01 to 2009-10

| Sr. No | Name of APMC | Period (Years) | Mean (Rs. in lacs) | Range limits (Rs. in lacs) | | Standard Deviation (Rs. in lacs) | Co-eff Variati on [C.V%] |
|--------|--------------|----------------|--------------------|----------------------------|----------------------|----------------------------------|--------------------------|
| | | | | Lower limit | Upper limit | | |
| 1 | Baramati | 10 | 91.60 | 61.79 (2007-08) | 167.20 (2009-10) | 31.28 | 34.14 |
| 2 | Daund | 10 | 24.01 | 13.75 (2000-01) | 42.29 (2009-10) | 9.35 | 38.93 |
| 3 | Indapur | 10 | 67.34 | 32.95 (2001-02) | 114.05 (2009-10) | 26.29 | 39.05 |
| 4 | Junnar | 10 | 136.03 | 49.48 (2000-01) | 314.62 (2009-10) | 82.16 | 60.40 |
| 5 | Khed | 10 | 115.42 | 77.64 (2001-02) | 208.41 (2009-10) | 46.15 | 39.98 |
| 6 | Manchar | 10 | 73.02 | 37.36 (2000-01) | 134.89 (2008-09) | 25.37 | 34.75 |
| 7 | Nira | 10 | 18.66 | 6.50 (2007-08) | 24.58 (2009-10) | 4.86 | 26.06 |
| 8 | Pune | 10 | 1749.35 | 1115.31 (2000-01) | 3206.62 (2009-10) | 626.55 | 35.81 |
| 9 | Shirur | 10 | 39.00 | 22.54 (2001-02) | 73.17 (2009-10) | 14.67 | 37.59 |
| 10 | Talegaon | 7 * | 3.86 | 3.26 (2004-05) | 5.38 (2000-01) | 0.67 | 17.37 |

*The result of this APMC are based on 7 years

Baramati APMC:-

During the period of 10 years, the APMC had a minimum income of Rs.61.79 lacs during 2007-08 and maximum income of Rs 167.20 lacs during the year 2009-10. The Co-efficient of Variation was observed to be 34.14% showing thereby that there existed large variation in annual income figures from year to year

Daund APMC:-

This APMC had a lowest income of Rs 13-75 lacs, during 2000-01 and the highest income of Rs.42.29 during 2009-10. The Co-efficient of Variation was observed to be 38.93%, a slight higher than that of Baramati.

Indapur APMC:-

This APMC had an average annual income of Rs 67.34 lacs higher than that of Daund APMC (Rs.24.01 lacs) But the variability in annual income of this APMC was more or less the same (39.05%) as was in case of Baramati and Daund.

Junnar APMC:-

It could be observed that the annual income of Rs.49.48 lacs in 2000-01 is raised to the highest income of Rs 314.62 during 2009-10. However the value of Co-efficient of Variation (60.40%) being higher than those of Baramati, Indapur and Daund APMCs showed much variability in annual income of the APMC.

Manchar APMC:-

This APMC had an average annual income of Rs.73.02 lacs with Standard Deviation of Rs.25.37 lacs/year, leading to more or less the same variability (34.75%) as was observed in case of Baramati, Daund and Indapur APMCs.

Khed APMC:-

This APMC had an average annual income of Rs. 115.42 with Standard Deviation of Rs.46.15 lacs leading to same variability in annual income as was observed in case of Manchar APMC.

Nira APMC:-

This APMC had a rather low annual income of Rs.18.66 lacs as compared to those APMCs mentioned above. However, this APMC had a low variability in its annual income (Co-efficient Variation = 26.06%) as compared to those of APMCs mentioned earlier.

Pune APMC:-

The Pune APMC had the highest annual income viz.1749.35 lacs. This annual income was far above the annual income of the remaining APMCs studied here .The variability in annual income of 10 years period was observed to be of the same order (35.81%) as was seen in cases of Baramati, Daund, Indapur, Khed and Manchar APMCs.

Shirur APMC :-

This APMC had an average annual income of Rs.39.00 lacs with a Standard Deviation of 14.67 lacs/year. The Co-efficient of Variation was observed to be of the same level as was observed in case of the APMCs Baramati, Daund, Indapur, Khed, Manchar etc.

Talegaon APMC:-

Based on seven years data the average income was observed to be Rs. 3.86 lacs, with Standard Deviation of Rs.0.67 lacs. This has led to the normal value of Co-efficient of Variation viz.17.37%

Lastly it may be concluded that barring the variability in respect of APMC Junnar (60.42%) the variability was observed to be of the same order in most of the APMCs. Since the values of Co-efficient of Variation were within the range of 34.14% to 39.98%

However, the values of C.V were small, 26.06% in case of Nira and 17.37% Talegaon APMCs.

6.1.6 Trend Analysis of Average Annual income of the selected APMCs.

Before going for “Trend Analysis” of annual income of the APMCs, it was felt necessary to have a view over annual income of each of the APMCs in respect of 10 years period. The same has been presented in the following tables along with suitable graphs for each of the APMCs selected for study.

Secondly, while examining the trend of annual income of the APMCs during a period of 10 years, a trend analysis was carried out. In this analysis, the income of each year has been compared with the previous year's income. For this, the decrease or increase in income of the year over its previous year was expressed in percentage. Such percentages were worked out in respect of all ten APMCs. And the same have been presented in Tables 6.3.1 to Tables 6.3.10. Below each of the tables, the year wise data of income have been illustrated with the graphs.

**Total Annual Income of the selected APMCs in Pune District
(2000-01 to 2009-10)**

Table No. 6.3.1 APMC:-Baramati

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 78.93 | - |
| 2 | 2001-02 | 69.98 | -11.34 |
| 3 | 2002-03 | 74.58 | +6.57 |
| 4 | 2003-04 | 63.06 | -15.42 |
| 5 | 2004-05 | 84.16 | +33.42 |
| 6 | 2005-06 | 91.74 | +45.43 |
| 7 | 2006-07 | 95.96 | +4.60 |
| 8 | 2007-08 | 61.79 | -35.61 |
| 9 | 2008-09 | 128.66 | +100.15 |
| 10 | 2009-10 | 167.20 | +29.95 |
| | Average | 91.61 | 20.88% |

Graph No. 3

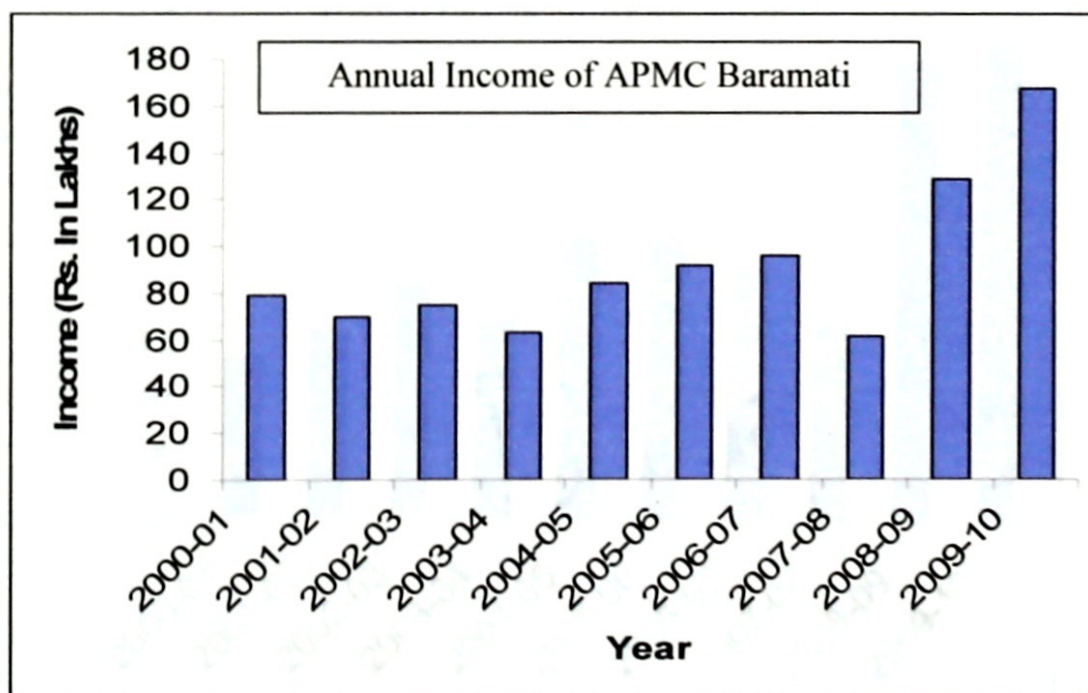


Table No.6.3.2 APMC:-Daund

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 13.76 | - |
| 2 | 2001-02 | 16.31 | 18.54 |
| 3 | 2002-03 | 20.41 | 25.14 |
| 4 | 2003-04 | 17.83 | -12.64 |
| 5 | 2004-05 | 24.94 | 39.88 |
| 6 | 2005-06 | 24.30 | -2.97 |
| 7 | 2006-07 | 21.86 | -10.04 |
| 8 | 2007-08 | 17.80 | -18.57 |
| 9 | 2008-09 | 40.73 | 128.82 |
| 10 | 2009-10 | 42.29 | 3.83 |
| | Average | 24.01 | 19.12 |

Graph No. 4

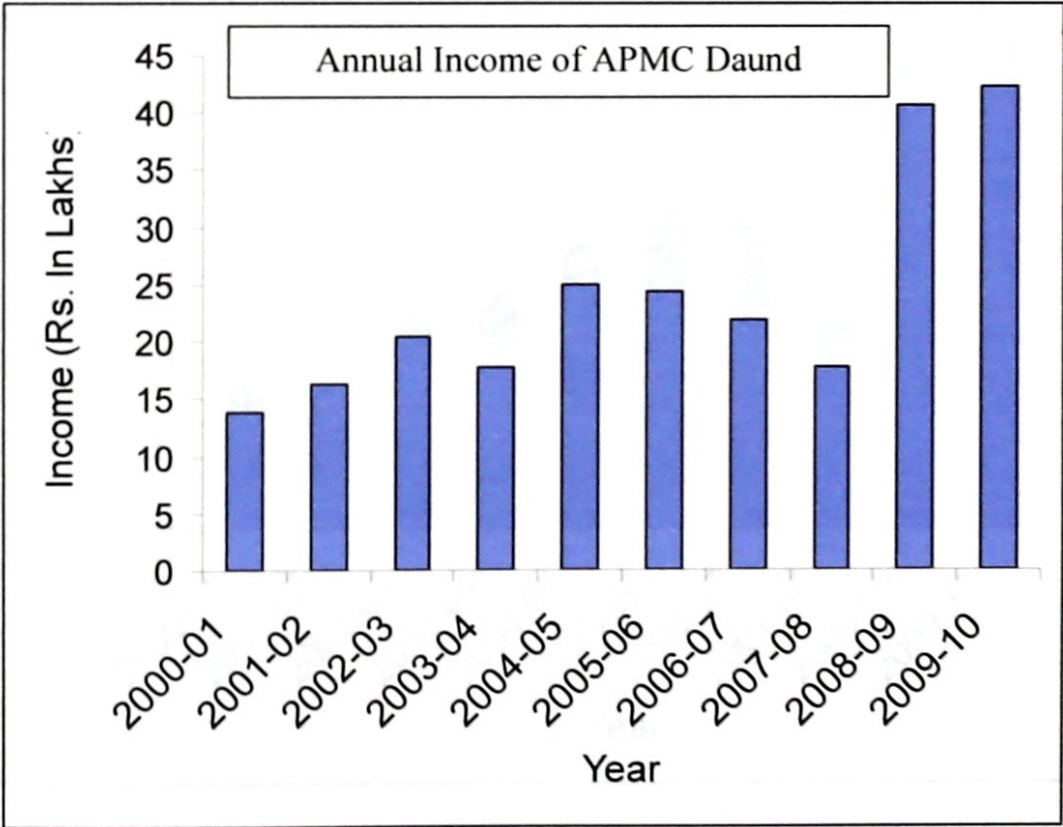


Table No.6.3.3 APMC:-Indapur

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 37.69 | - |
| 2 | 2001-02 | 32.95 | -12.58 |
| 3 | 2002-03 | 49.92 | 51.50 |
| 4 | 2003-04 | 55.60 | 11.56 |
| 5 | 2004-05 | 71.68 | 28.92 |
| 6 | 2005-06 | 73.09 | 1.97 |
| 7 | 2006-07 | 74.42 | 1.82 |
| 8 | 2007-08 | 52.88 | -28.94 |
| 9 | 2008-09 | 111.16 | 110.21 |
| 10 | 2009-10 | 114.05 | 2.59 |
| | Average | 67.34 | 18.55 |

Graph No. 5

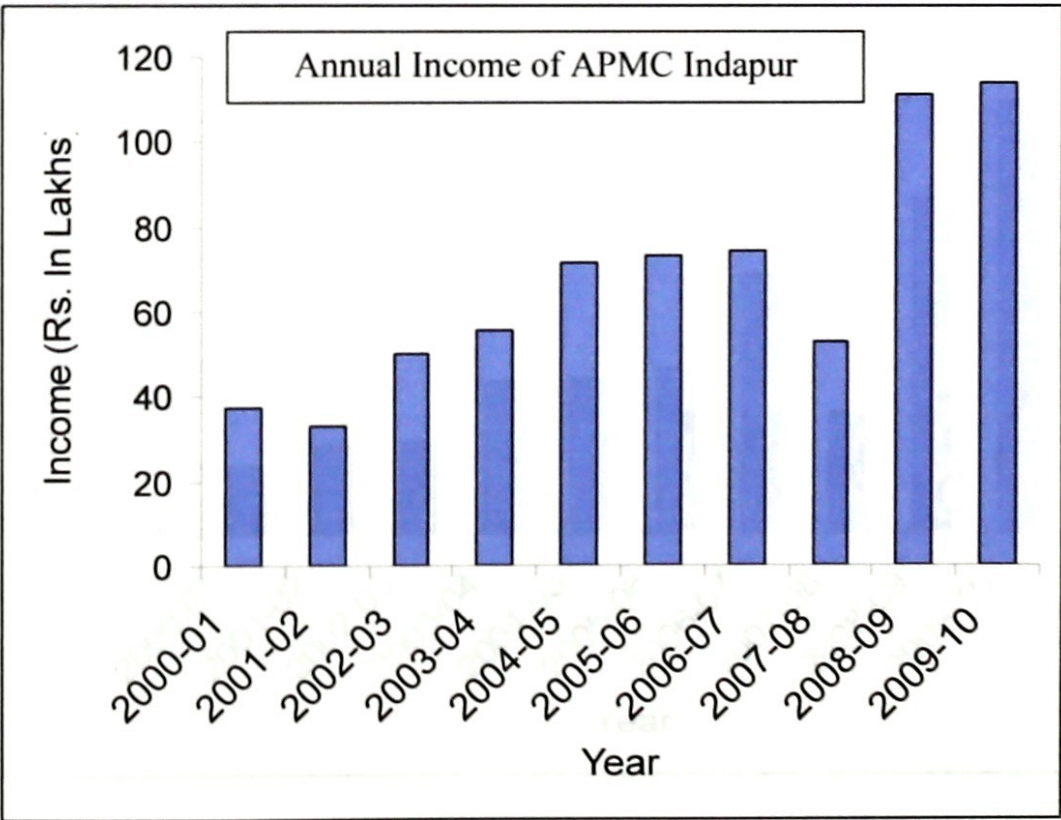


Table No.6.3.4 APMC:-Junnar

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 49.48 | - |
| 2 | 2001-02 | 64.00 | 29.34 |
| 3 | 2002-03 | 67.81 | 5.95 |
| 4 | 2003-04 | 110.40 | 62.81 |
| 5 | 2004-05 | 111.74 | 1.21 |
| 6 | 2005-06 | 120.33 | 7.69 |
| 7 | 2006-07 | 188.72 | 56.83 |
| 8 | 2007-08 | 88.67 | -53.01 |
| 9 | 2008-09 | 244.53 | 175.77 |
| 10 | 2009-10 | 314.61 | 28.66 |
| | Average | 136.03 | 40.91 |

Graph No. 6

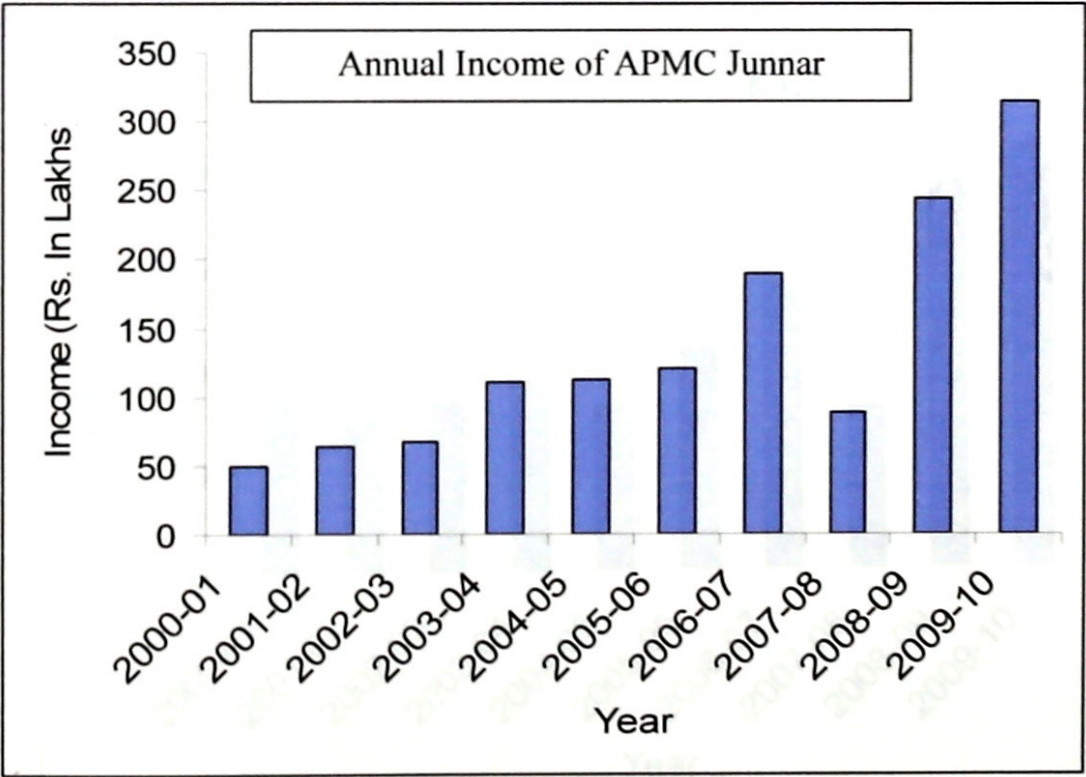


Table No.6.3.5 APMC:-Khed

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 85.86 | - |
| 2 | 2001-02 | 77.65 | -9.56 |
| 3 | 2002-03 | 83.71 | 7.80 |
| 4 | 2003-04 | 94.37 | 12.73 |
| 5 | 2004-05 | 81.60 | -13.53 |
| 6 | 2005-06 | 109.73 | +34.47 |
| 7 | 2006-07 | 141.42 | +28.88 |
| 8 | 2007-08 | 80.15 | -43.60 |
| 9 | 2008-09 | 191.54 | +138.98 |
| 10 | 2009-10 | 208.40 | 8.09 |
| | Average | 115.44 | 19.52 |

Graph No. 7

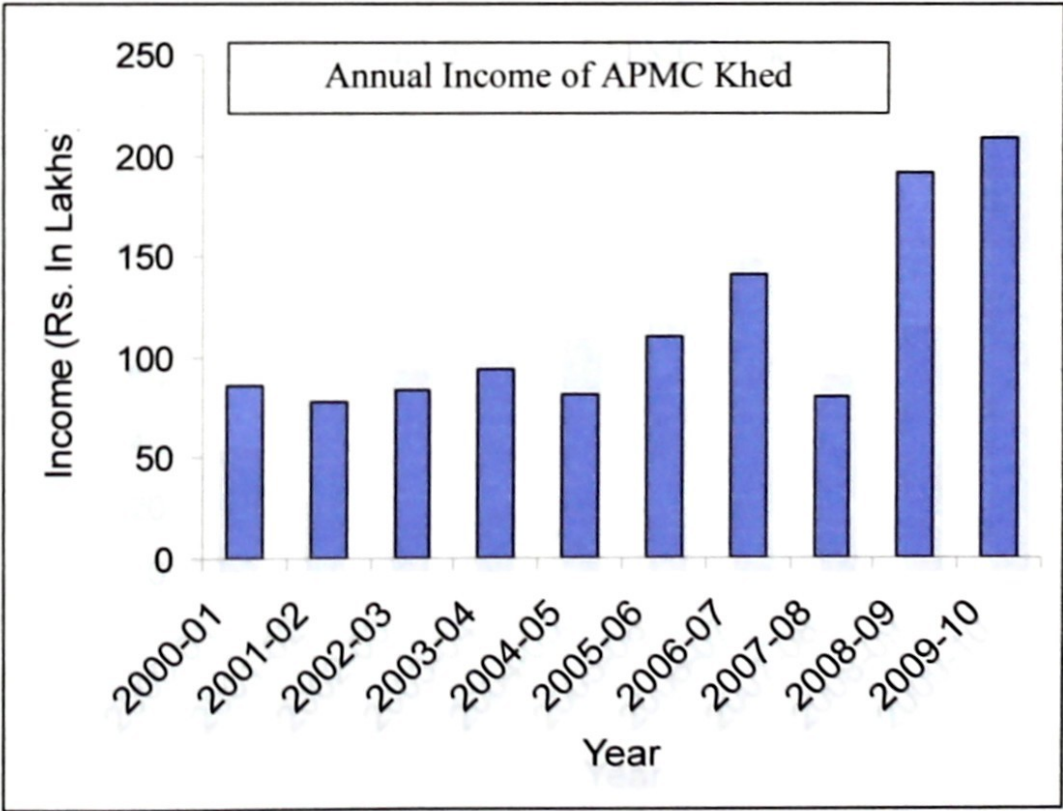


Table No.6.3.6 APMC:-Manchar

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 37.35 | - |
| 2 | 2001-02 | 52.12 | 39.54 |
| 3 | 2002-03 | 61.90 | 18.76 |
| 4 | 2003-04 | 64.81 | 4.70 |
| 5 | 2004-05 | 70.88 | 9.36 |
| 6 | 2005-06 | 76.93 | 8.53 |
| 7 | 2006-07 | 96.49 | 25.43 |
| 8 | 2007-08 | 60.26 | -37.54 |
| 9 | 2008-09 | 74.72 | 24.00 |
| 10 | 2009-10 | 134.69 | 81.72 |
| | Average | 73.04 | 17.45 |

Graph No. 8

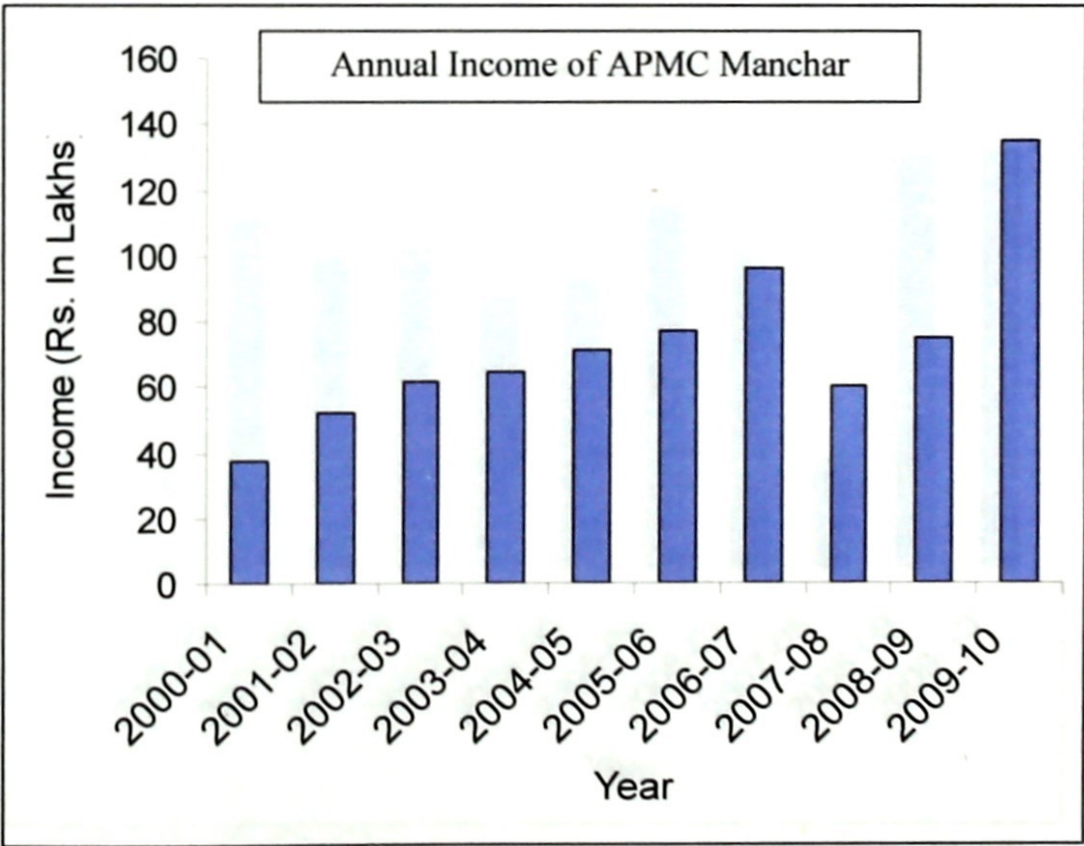


Table No.6.3.7 APMC:-Nira

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 20.70 | - |
| 2 | 2001-02 | 18.46 | -10.82 |
| 3 | 2002-03 | 19.04 | 3.14 |
| 4 | 2003-04 | 15.92 | -16.38 |
| 5 | 2004-05 | 17.13 | 7.06 |
| 6 | 2005-06 | 21.33 | 24.52 |
| 7 | 2006-07 | 18.63 | -12.66 |
| 8 | 2007-08 | 6.50 | -65.11 |
| 9 | 2008-09 | 24.32 | +274.15 |
| 10 | 2009-10 | 24.58 | 1.07 |
| | Average | 18.66 | 20.50 |

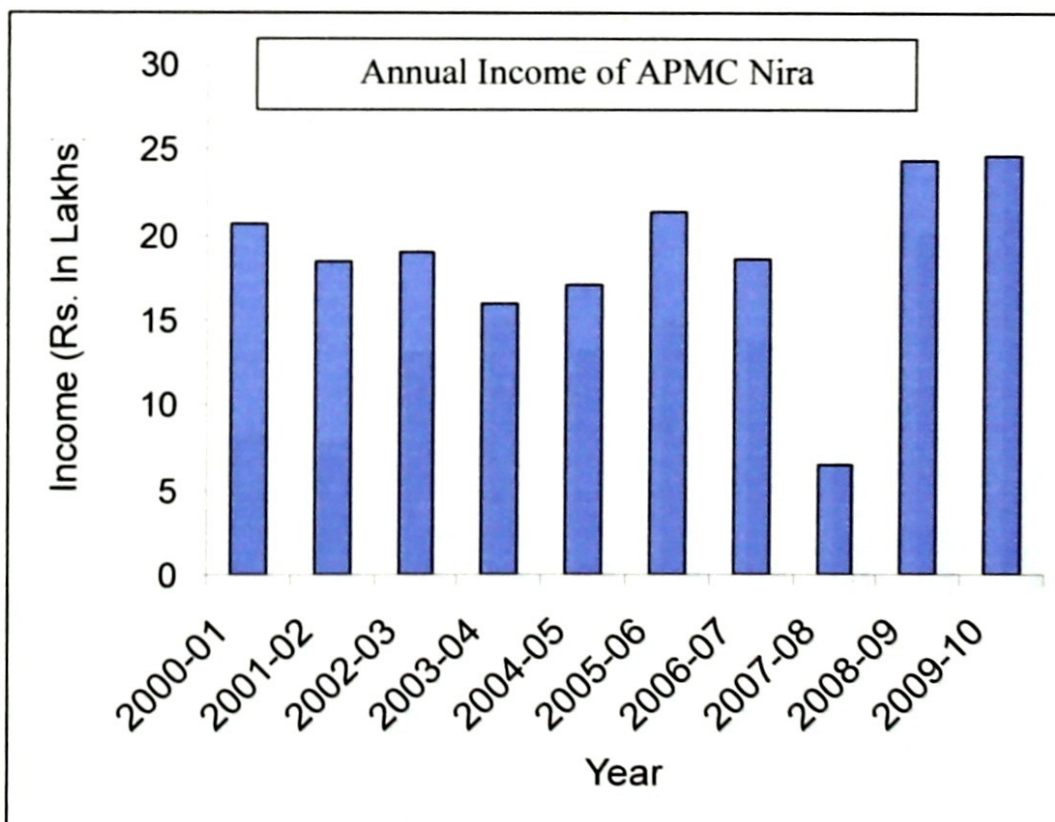
Graph No. 9

Table No.6.3.8 APMC:-Shirur

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 23.71 | - |
| 2 | 2001-02 | 22.54 | - 4.93 |
| 3 | 2002-03 | 36.16 | 64.42 |
| 4 | 2003-04 | 40.95 | 13.25 |
| 5 | 2004-05 | 36.59 | -10.65 |
| 6 | 2005-06 | 40.99 | 12.02 |
| 7 | 2006-07 | 37.76 | -7.88 |
| 8 | 2007-08 | 24.00 | 36.44 |
| 9 | 2008-09 | 54.14 | 12.50 |
| 10 | 2009-10 | 73.17 | 35.15 |
| | Average | 39.00 | 15.03 |

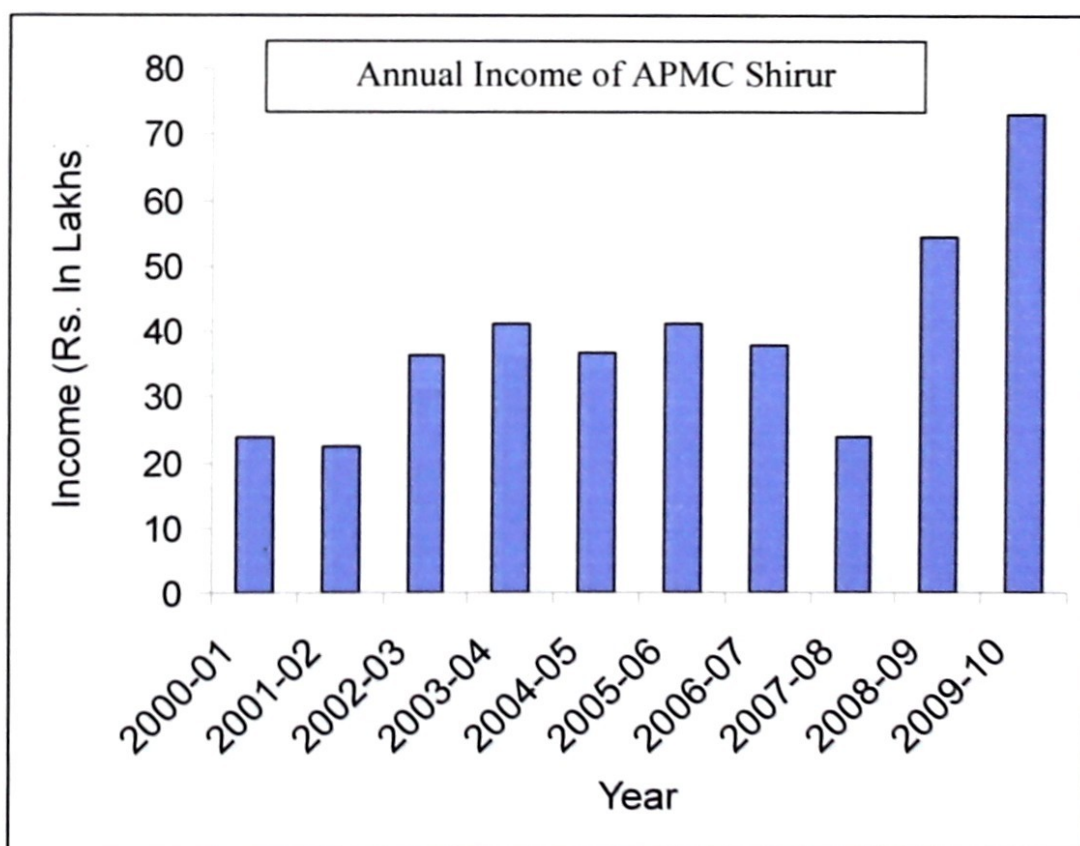
Graph No. 10

Table No.6.3.9 APMC:-Pune

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 1153.08 | - |
| 2 | 2001-02 | 1343.75 | 16.54 |
| 3 | 2002-03 | 1334.41 | -0.67 |
| 4 | 2003-04 | 1559.35 | 16.56 |
| 5 | 2004-05 | 1483.59 | -4.86 |
| 6 | 2005-06 | 1735.81 | 17.00 |
| 7 | 2006-07 | 2081.96 | 19.94 |
| 8 | 2007-08 | 1168.90 | -43.86 |
| 9 | 2008-09 | 2464.75 | 110.87 |
| 10 | 2009-10 | 3205.62 | 30.06 |
| | Average | 1749.35 | 23.47 |

Graph No. 11

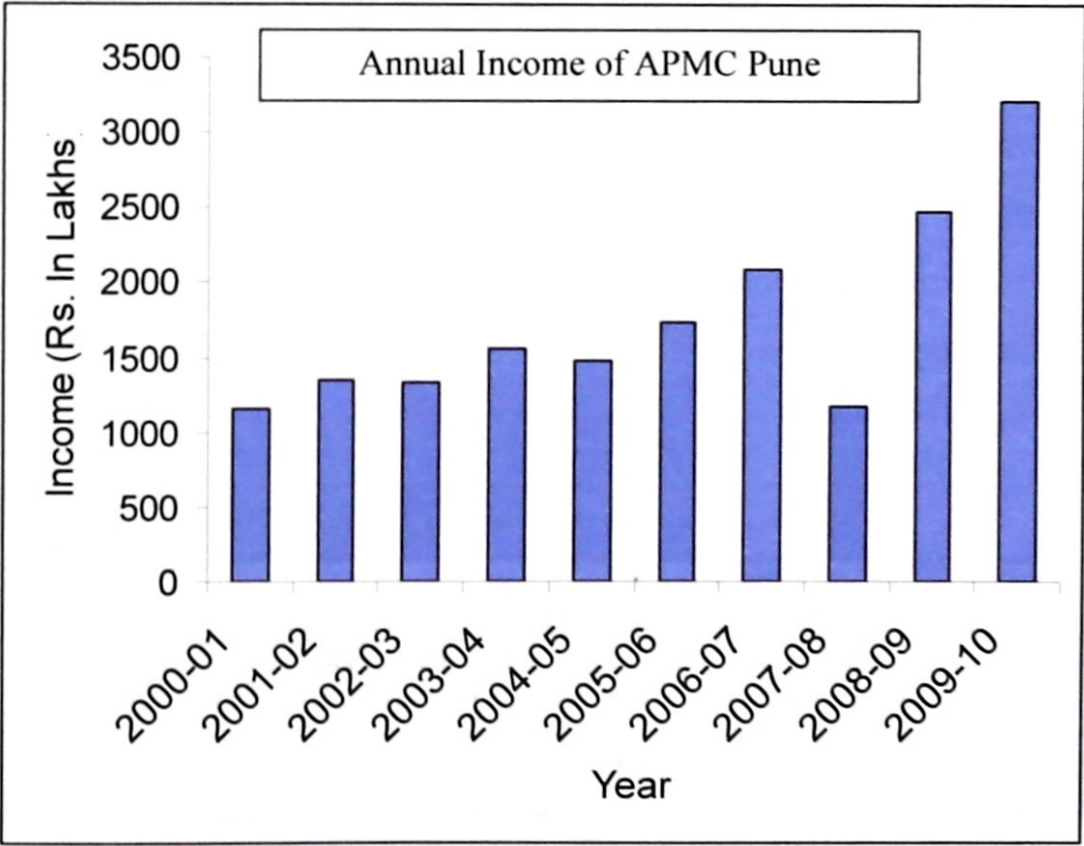
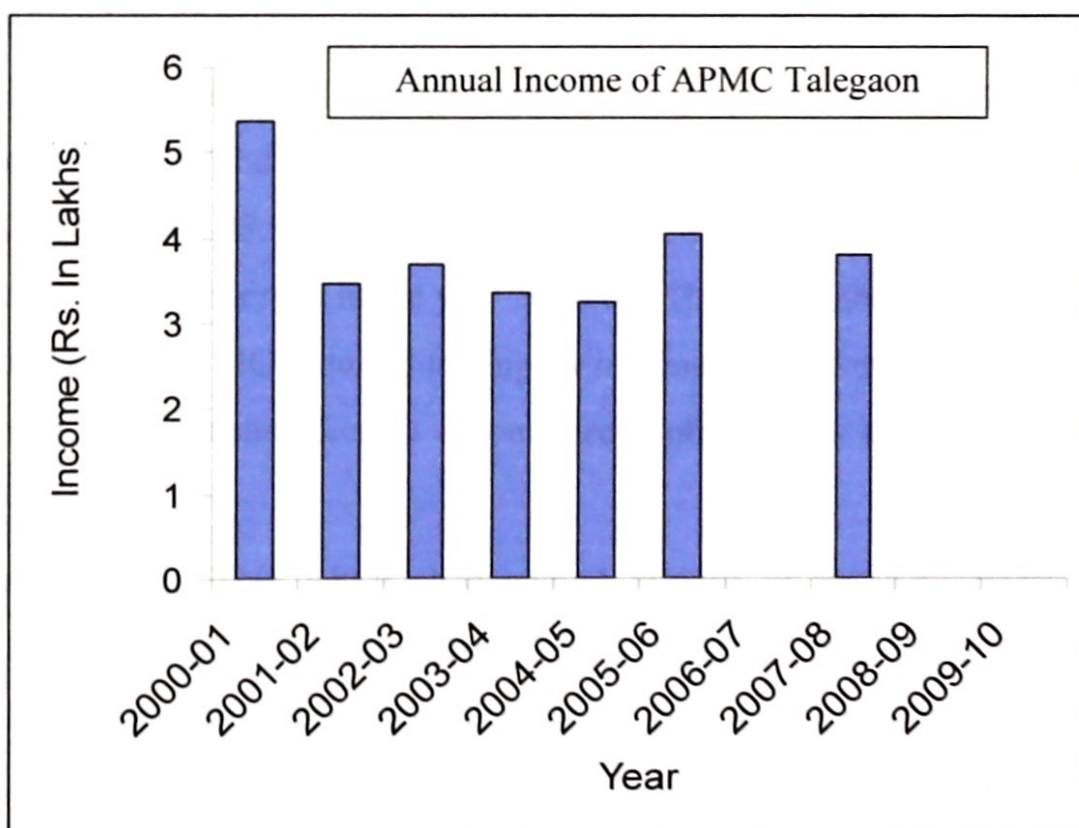


Table No.6.3.10 APMC:-Talegaon

| Sr. No. | Year | Income (Rs. in lac) | % change |
|---------|---------|---------------------|----------|
| 1 | 2000-01 | 5.38 | - |
| 2 | 2001-02 | 3.47 | -35.50 |
| 3 | 2002-03 | 3.69 | 6.34 |
| 4 | 2003-04 | 3.37 | -8.67 |
| 5 | 2004-05 | 3.26 | -3.27 |
| 6 | 2005-06 | 4.04 | +23.92 |
| 7 | 2006-07 | N.A. | - |
| 8 | 2007-08 | 3.79 | -6.19 |
| 9 | 2008-09 | N.A. | - |
| 10 | 2009-10 | N.A. | - |
| | Average | 3.85 | -3.90 |

Graph No. 12

Baramati APMC:- It is seen from the data presented in Table 6.3.1. It was observed that the overall average of 10 years average income was Rs. 91.61 lacs. The annual income during 2000-01 was Rs.78.93 lakhs which was raised to Rs.167.20 lakhs during 2009-10. The changes in income during the period of 10 years showed that the changes were negative during 2001-02, 2003-04 and 2007-08. However, the overall change was of the order of 20.88 % per year.

Daund APMC: - This APMC had initially income of Rs.13.76 lakhs which was raised to Rs.42.29 lakhs during 2009-10. Regarding the change, it was observed that it had an overall change of 19.12, being, in income nearly equal to Baramati, had negative changes in income during 4 years. The trend in annual income is seemed to be nonlinear.

Indapur APMC: - This APMCs had annual income of Rs.37.69 during 2000-01 which further raised to Rs.114.05 lakhs during 2009-10. This APMC also had more or less the same average percentage (18.55%) change at over all. The negative changes were observed in the year 2001-02 (-12.58%) and (-28.94%) in the year 2007-08. The sudden high change of 110.21 % was observed in the year 2008-09. This was only because of the fact that the APMC acquired the higher income from all three sources viz. market fee, license fees & income from other items than that in preceding year.

Junnar APMC:- This APMC had annual income of Rs.49.48 lakhs which raised to Rs.314.61 lakhs during 2009-10. This APMC secured an over all changing annual income of Rs.40-91 lacs, higher than those of Daund, Indapur and Baramati APMCs. The APMC suffered the negative change only once (2007-08). It secured highest change of the order of 175.77% during 2008-09. In broad sense, the change in income was positive over the years.

Khed APMC: - In case of this APMC, the annual income during 2000-01 was Rs.85.86 lakhs, which after 10 years it came out to Rs. 208.40 lakhs. Further, it was seen that although the annual average income was higher (Rs.115.44 lac) in case of this APMC than those of earlier APMCs stated above. Viz. Baramati, Daund and Indapur APMCs. It had negative change in income during its 3 years of period. (viz. 2001-02,2004-05 and 2007-08). The income of this APMC can be said to be uncertain.

APMC Manchar:- This APMC had initially an income of Rs.37.35 lakhs which further raised to Rs.134.69 lakhs after 10 years. The average annual income of this APMC is fairly good, (Rs.73.04 lac/year.). Besides, it suffered a negative change of 37.54 during one year only (2007-08). For the remaining years, the trend of change in annual income was positive.

APMC Nira: - In case of this APMC, initially during 2000-01, the annual income was Rs.20.70 lakhs, which raised to hardly Rs.24.58 lakhs. The overall average in annual income although positive (20-50%), it suffered negative changes in income for times. i.e. during 2001-02, 2003-04, 2006-07 and 2007-08. Out of 10 years of period, the APMC secured high income of Rs. 24.58 lacs during 2009-10. At the overall, it seems that the APMC Nira has to take up much effort in increasing the income every year over its preceding year.

APMC Shirur:- This APMC had initially income of Rs.23.71 lakhs, which further increased to three times viz. Rs.73.17 lakhs during 2009-10. On an average, percentage change was of the order of 15-03 %. However, the data showed that the committee failed to acquire higher profit during the year over its preceding year. The negative change in annual income over its preceding years was observed three times

therefore, this committee is required to take up sincere steps in increasing the income from year to year.

APMC Pune :- In case of this APMC, the initial annual income of Rs.1153.08 lakhs during 2000-01 raised to three times viz. Rs.3205.62 during 2009-10. The overall percentage change was observed to be 23.47%.

APMC Talegaon:- This APMC had initially an income of Rs.5.38 lakhs during 2000-01. It never remained above this, during subsequent years. The picture of percentage changes in income of this APMC is shown in Table 6.3.10. It showed that, the percentage change at the overall period of 7 years was poor (-3.90%). Out of 7 years, the change in income was negative in four years. The overall average income is of very low viz - 3.85 lacs. It is rather dareful to say the committee seems to be not active in maintaining the APC in profitable position in every year. However, the problem is to be solved by the concerned higher authority by discussing the various issues of the APMC.

Conclusions:-

From the observations of each of the APMCs as quoted below each of the tables presented earlier, it could be said that in most of the cases, the income of the APMC was fairly good. However on observing the negative changes in annual income over its preceding year, the committees of APMC will have to make efforts in taking up the income higher and higher over its preceding years.

6.1.7 Linear Growth Rates of Income of the APMCs.

The time series data pertaining to income of the selected AMPCs have been studied in earlier paras. Now the said time series data is used for estimating the linear growth rates of income of the selected AMPCs. The results of this analysis have been presented in the following tables (Table No. 6.4). This table give the linear growth rates along with the values of R^2 .

Table 6.4 :- Linear Growth Rates of Income, in selected APMCs of Pune District

(2000-01 to 2009-10)

| Sr. No | Name of APMC | Linear Growth Rates (%) | Co-efficient of multiple Determination (R^2) |
|--------|--------------|-------------------------|--|
| 1 | Baramati | 8.25 | 0.4821 X |
| 2 | Daund | 10.74 | 0.6286 X |
| 3 | Indapur | 11.77 | 0.7488 X |
| 4 | Junnar | 17.81 | 0.7174 X |
| 5 | Khed | 10.78 | 0.5995 X |
| 6 | Manchar | 9.35 | 0.5979 X |
| 7 | Nira | 0.83 N.S | -0.0084 N.S. |
| 8 | Pune | 9.58 | 0.5903 X |
| 9 | Shirur | 9.33 | 0.5082 X |
| 10 | Talegaon | -3.07 N.S | 0.1559 N.S. |

X indicates the values are significant at 5% level.

N.S. indicates the values are non-significant.

The table 6.4 Shows that the growth rate of income was the highest (17.81%) in case of Junnar AMPC followed by AMPC Indapur (11.77%) & AMPC Khed (10.78%) & Daund AMPC (10.74%). The growth rates in respect of AMPCs Manchar, Pune, Shirur & Baramati were more or less the same. The growth rates in respect of Nira & Talegaon AMPC were very low & non-significant.

6.2 Expenditure Side of APMC

6.2.1 Introduction :-

It is obvious that the functional role of each & every APMC is to provide necessary facilities to sellers / farmers & also to buyers / merchants etc. in the market area. It is therefore obligatory on the part of the APMC to provide the required facilities to the sellers & the buyers of the various agricultural commodities. For the purpose, the APMCs have to incur expenditure on various items. This is discussed as below.

6.2.2 Expenditure structure of APMCs :-

The APMC has to incur the expenses on the following items in order to operate the various functions in the market area.

- A. Establishment Expenses :-** This includes the pay & allowances of the office staff viz. Secretary, Accountant, clerks, peons etc. and their bills towards travelling & such other allowances.
- B. Meeting Expenses :-** The expenses incurred on payment of honorarium, travelling expenses, etc. of members of the committee, other expenditure towards refreshment items etc on the days of meetings held from time to time.
- C. Other expenses :-** These include the charges towards the following items -
 - i) Electricity bills
 - ii) Telephone bills
 - iii) Diesel & Petrol bills
 - iv) Repairs to vehicles

- v) Postage charge
- vi) Municipal charges
- vii) Water taxes
- viii) Repairs to building, godown, roads
- ix) Purchase of stationery
- x) Purchase of sundry articles etc.

For the purpose of analysis the expenditure of the APMC have been grouped into three categories-

- I] Establishment charges
- II] Meeting expenses
- III] Other expenditure

6.2.3 Average Annual Expenditure of selected APMCs -

The information on the average expenditure of the selected APMCs have been presented in Table 6.5. While taking the average, the yearly total expenditure of the 10 years period have been taken into account. The average expenditure of Talegaon APMC is based on seven years period.

Table No: 6.5:- Average Annual Expenditure of APMCs in Pune District

| Sr. No. | Name of APMC | No. of years | Average Annual Expenditure (Rs. In lac) | | | |
|---------|--------------|--------------|---|-----------------|--------------------|---------------------|
| | | | Establishment | Meeting Etc. | Others expenditure | Total (Rs. In lac) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Baramati | 10 | 31.18 (39.27) | 1.63 (2.05) | 46.60 (58.68) | 78.86 (100.00) |
| 2 | Daund | 10 | 12.12 (54.33) | 0.81 (3.63) | 9.38 (42.04) | 23.10 (100.00) |
| 3 | Indapur | 10 | 20.12 (37.77) | 2.11 (3.96) | 31.04 (58.27) | 53.27 (100.00) |
| 4 | Junnar | 10 | 31.29 (39.36) | 2.11 (2.65) | 46.10 (57.99) | 79.51 (100.00) |
| 5 | Khed | 10 | 42.43 (44.31) | 2.18 (2.28) | 51.11 (53.41) | 95.69 (100.00) |
| 6 | Manchar | 10 | 17.98 (36.67) | 1.91 (3.90) | 29.14 (59.43) | 49.05 (100.00) |
| 7 | Nira | 10 | 13.32 (65.13) | 0.55 (2.69) | 6.58 (32.18) | 20.45 (100.00) |
| 8 | Pune | 10 | 588.22 (37.36) | 58.25 (3.70) | 927.80 (58.94) | 1574.27 (100.00) |
| 9 | Shirur | 10 | 16.64 (40.46) | 3.19 (7.76) | 21.30 (51.78) | 41.13 (100.00) |
| 10 | Talegaon | 7 | 4.39 (86.59) | 0.23 (4.54) | 0.45 (8.87) | 5.07 (100.00) |

The figures in brackets indicate the percentage to total expenditure.

It could be observed from the data presented in Table 6.5 that the annual average expenditure of the APMC, varied from Rs.5.07 lacs at Talegaon APMC to the highest expenditure of Rs.1574.27 lacs at Pune APMC. For the rest of the APMCs, the annual expenditure ranged from Rs.20.45 lacs (Nira APMC) to Rs. 95.69 lacs (Khed APMC). The Indapur and Manchar APMCs had more or less equal annual expenditure. While on Baramati APMC it was Rs.78.86 lacs and Rs.79.51 lacs at Junnar APMC. But when the Annual Average income figures of these two APMCs were compared it with income was observed that the Baramati

had annual average income of Rs. 91.61 lacs as against that Rs. 136.03 lacs of Junnar APMC. It showed that Junnar APMC did better than Baramati APMC. Two APMCs viz Daund and Nira APMCs are having more or less the same annual average income. The estimates of the average expenditure were also found to be the same viz. Rs. 23.10 lacs and Rs. 20.45 lacs respectively. The APMC Manchar had slightly higher expenditure (Rs. 49.05 lacs) than that of Shirur APMC where annual average expenditure was Rs. 41.13 lacs.

6.2.4 Break up of Annual Expenditure of the selected APMCs :-

The information on break-up of Annual Average Expenditure is presented in Table 6.5 It is observed that barring the expenditure of 86.59% on establishment charges at Talegaon APMC, the percentage of expenditure towards establishment charges ranged from 39.27% on Baramati APMC to 65.13% on Nira APMC. The expenditure percentages on Establishment were more or less equal on Baramati, Indapur, Junnar, Manchar, Shirur and Pune APMCs. The Khed APMC had annual average expenditure percentage of 44.31%.

The estimates of expenditure towards “other expenditure” were slightly higher than those of expenses towards establishment. Barring the percentage shares of Daund (42.04%), Nira (32.18%) and Talegaon (8.87%) the percentage shares of expenditure/ on ‘other expenditure’ to total expenditure were more or less equal in respect of APMCs viz. Baramati (58.68 %), Indapur (58.27%), Junnar (57.99%), Khed (53.41%), Manchar (59.43 %) and Shirur (51.78%). This indicated that most of the APMCs seemed to have maintained the equal share of expenditure in total expenditure of the year in respect of “establishment charges” and other expenses.

6.2.5 Variability in Annual Average Expenditure of the selected APMCs:-

The data regarding the estimates of mean, standard deviation, range and the co-efficient of variation of the annual average expenditure of the selected APMCs have been presented in Table 6.6.

Table No. 6.6 :- Variability in Annual Average expenditure incurred by the selected APMCs in Pune district during the period 2000-01 to 2009-10. (In lac Rs.)

| Sr. no. | Name of APMC | Period (years) | Mean (Rs.in lac) | Range (Rs. in lakhs) | | Standard Deviation (σ) (Rs.in lac) | Co-efficient of Variation (C.V.) % |
|---------|--------------|----------------|------------------|----------------------|----------------------|---|------------------------------------|
| | | | | Lower limit | Upper limit | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Baramati | 10 | 78.86 | 55.48 (2000-01) | 129.25 (2009-10) | 24.05 | 30.30 |
| 2 | Daund | 10 | 23.10 | 13.11 (2000-01) | 40.53 (2009-10) | 9.37 | 40.57 |
| 3 | Indapur | 10 | 53.27 | 30.28 (2001-02) | 82.94 (2009-10) | 16.28 | 30.57 |
| 4 | Junnar | 10 | 79.50 | 52.40 (2001-02) | 143.92 (2009-10) | 30.54 | 38.41 |
| 5 | Khed | 10 | 95.69 | 60.18 (2000-01) | 151.64 (2008-09) | 28.97 | 30.27 |
| 6 | Manchar | 10 | 49.04 | 22.08 (2000-01) | 103.75 (2009-10) | 22.12 | 45.09 |
| 7 | Nira | 10 | 20.45 | 11.53 (2007-08) | 22.60 (2006-07) | 30.97 | 15.14 |
| 8 | Pune | 10 | 1574.26 | 772.79 (2007-08) | 3204.61 (2009-10) | 730.50 | 46.40 |
| 9 | Shirur | 10 | 41.13 | 23.67 (2007-08) | 62.09 (2009-10) | 13.46 | 31.94 |
| 10 | Talegaon | 7 | 5.07 | 4.66 (2001-02) | 5.75 (2000-01) | 0.31 | 6.31 |

On going through the range of average annual expenditure , it was observed that the range was very high in respect of Pune APMC, where the average expenditure ranged from Rs.772.79 lacs to Rs.3204.61 lacs and as such the estimates of standard deviation and co-efficient of variation were high as compared to those of other APMCs shown in the Table.

In case of Talegaon APMC, the variability in annual expenditure was far below than those of remaining all the APMCs. This was only because, the transactions of this APMC itself were of low order during all its 7 years period and the committee tried to keep-up the bear minimum expenditure. The committees viz. Daund, Manchar showed the variability of high order viz.40.57% and 45.09% respectively. In case of Daund APMC, the estimates of expenses towards “Other expenditure” varied too much. The same case was observed in respect of Manchar APMC. The variability in respect of APMCs Baramati, Indapur, Junnar, Khed, were fairly high while it was normal in respect of Nira APMC. This was mainly because of average transactions of the APMC.

The high variability in expenditure could be explained by the Baramati APMC taking the annual expenditure estimates of the APMC during the 10 years of period. The annual expenditure varied from Rs. 55.48 lacs in 2000-01 to Rs.129.25 lacs in 2009-10. The major item of expenditure is seemed to be the item of expenditure on “Other expenditure”.

In case of Manchar APMC the high variability (45.09 % C.V.) could be attributed to very high expenditure during two years viz. 2008-09 and 2009-10 was very high as compared to those of earlier years. This has led to large variation in annual average expenditure of the APMC.

6.2.6 Trend Analysis of Annual Average Expenditure

Before going for trend analysis of annual expenditure of the APMCs, it was felt necessary to have a view over annual expenditure of each of the APMCs selected for study. The same has been presented separately in the following tables along with the suitable graphs for each of the APMCs selected for the study.

Secondly, with a view to examine the behaviour of annual expenditure of the APMCs during period of 10 years, a trend analysis was carried out. In this analysis, the expenditure of each year has been compared with the previous years expenditure. The decrease or increase observed in expenditure in succeeding year is expressed in percentage over its preceding years. The formula used for this purpose is given below. Such percentages were worked out in respect of all ten APMCs and the same have been presented in Tables 6.7.1 to 6.7.10. Below each of the tables, the year wise data of expenditure of the APMCs have been illustrated with the graphs.

Formula for estimation of % change is given below.

$$\text{Percentage change in expenditure in a current year} = \frac{\text{Exp. of current year} - \text{Exp. of preceding year}}{\text{Exp. of Preceding year}} \times 100.$$

The annual expenditure and the percentage change of current year over preceding year is given in Table No. 6.7 separately for each of the selected APMCs. The interpretation of data presented separately for each of the APMCs has been done separately below each of the tables of the respective APMCs.

The percentage changes worked out for all the selected APMCs have been shown in Table No 6.7.1 to 6.7.10 given below.

Table No: 6.7 Trends in Total Annual Expenditure of the selected APMCs in Pune District during the period (2000-01 to 2009-2010).

Table No.6.7.1 APMC:-Baramati

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 55.48 | - |
| 2 | 2001-02 | 65.67 | 18.37 |
| 3 | 2002-03 | 72.12 | 9.32 |
| 4 | 2003-04 | 58.81 | -18.45 |
| 5 | 2004-05 | 72.29 | 22.92 |
| 6 | 2005-06 | 79.48 | 9.95 |
| 7 | 2006-07 | 86.63 | 9.00 |
| 8 | 2007-08 | 57.08 | -34.11 |
| 9 | 2008-09 | 111.77 | 95.81 |
| 10 | 2009-10 | 129.25 | 15.64 |
| | Average | 78.86 | 28.45 |

Graph No. 13

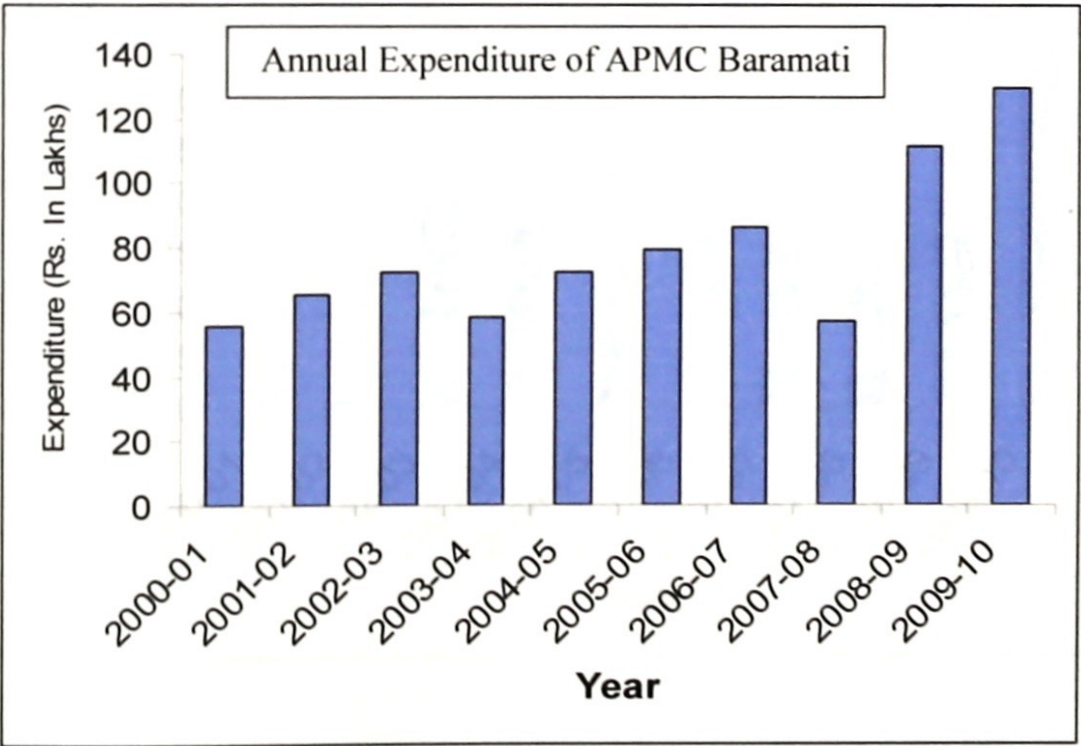


Table No.6.7.2 APMC:-Daund

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 13.12 | |
| 2 | 2001-02 | 14.32 | 9.15 |
| 3 | 2002-03 | 20.18 | 40.32 |
| 4 | 2003-04 | 18.65 | -7.50 |
| 5 | 2004-05 | 23.22 | 19.68 |
| 6 | 2005-06 | 24.17 | 4.09 |
| 7 | 2006-07 | 22.77 | -5.79 |
| 8 | 2007-08 | 14.00 | -38.52 |
| 9 | 2008-09 | 40.02 | 185.36 |
| 10 | 2009-10 | 40.53 | 1.27 |
| | Average | 23.10 | 20.81 |

Graph No. 14

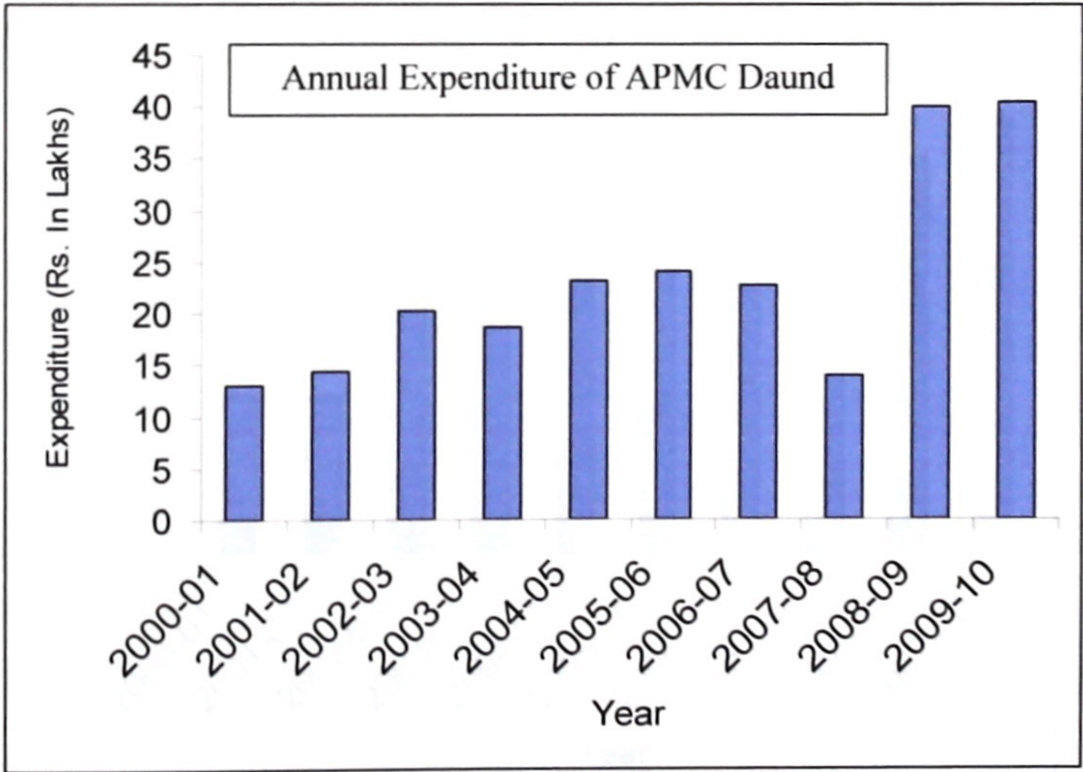


Table No.6.7.3 APMC:-Indapur

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 30.34 | - |
| 2 | 2001-02 | 30.28 | 0.20 |
| 3 | 2002-03 | 51.31 | 69.45 |
| 4 | 2003-04 | 50.98 | -0.65 |
| 5 | 2004-05 | 56.15 | +10.14 |
| 6 | 2005-06 | 56.33 | 0.32 |
| 7 | 2006-07 | 59.46 | 5.56 |
| 8 | 2007-08 | 39.87 | -33.28 |
| 9 | 2008-09 | 75.04 | +89.16 |
| 10 | 2009-10 | 82.94 | +10.39 |
| | Average | 53.27 | 15.13 |

Graph No. 15

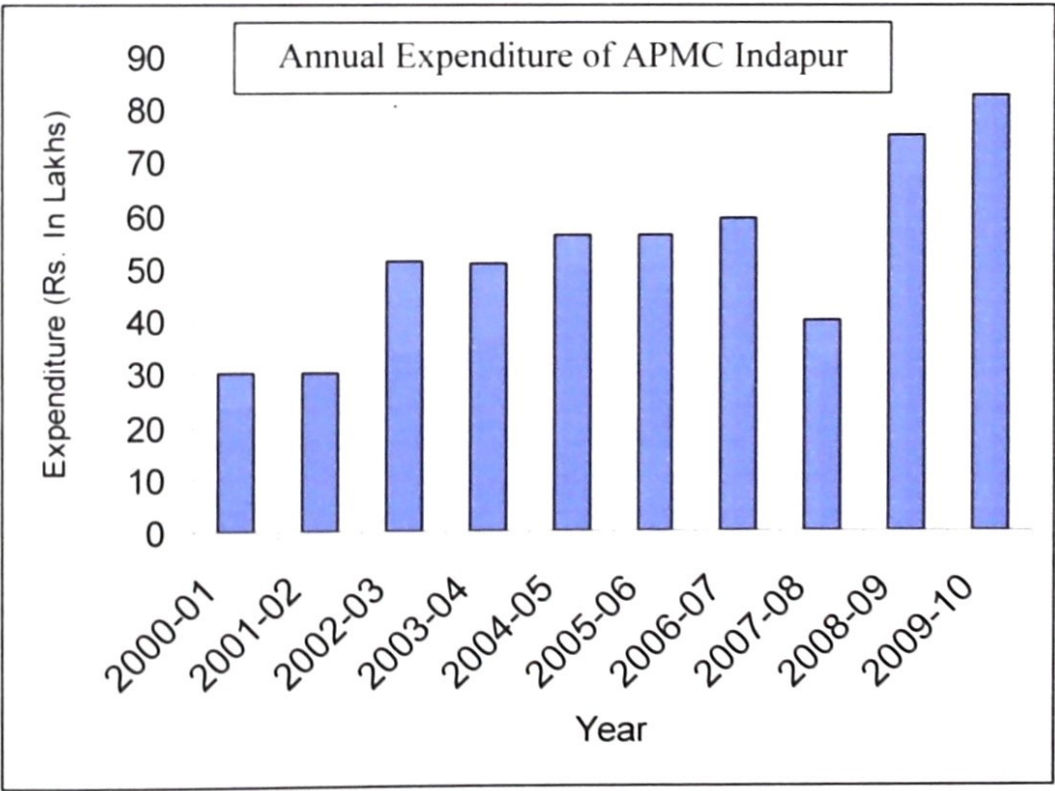


Table No.6.7.4 APMC:-Junnar

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 41.17 | - |
| 2 | 2001-02 | 52.40 | 21.38 |
| 3 | 2002-03 | 58.29 | 11.24 |
| 4 | 2003-04 | 61.37 | 5.28 |
| 5 | 2004-05 | 84.55 | 37.77 |
| 6 | 2005-06 | 79.55 | -5.91 |
| 7 | 2006-07 | 101.26 | 27.29 |
| 8 | 2007-08 | 55.46 | -45.23 |
| 9 | 2008-09 | 115.10 | 107.53 |
| 10 | 2009-10 | 143.91 | 25.03 |
| | Average | 79.51 | 18.44 |

Graph No. 16

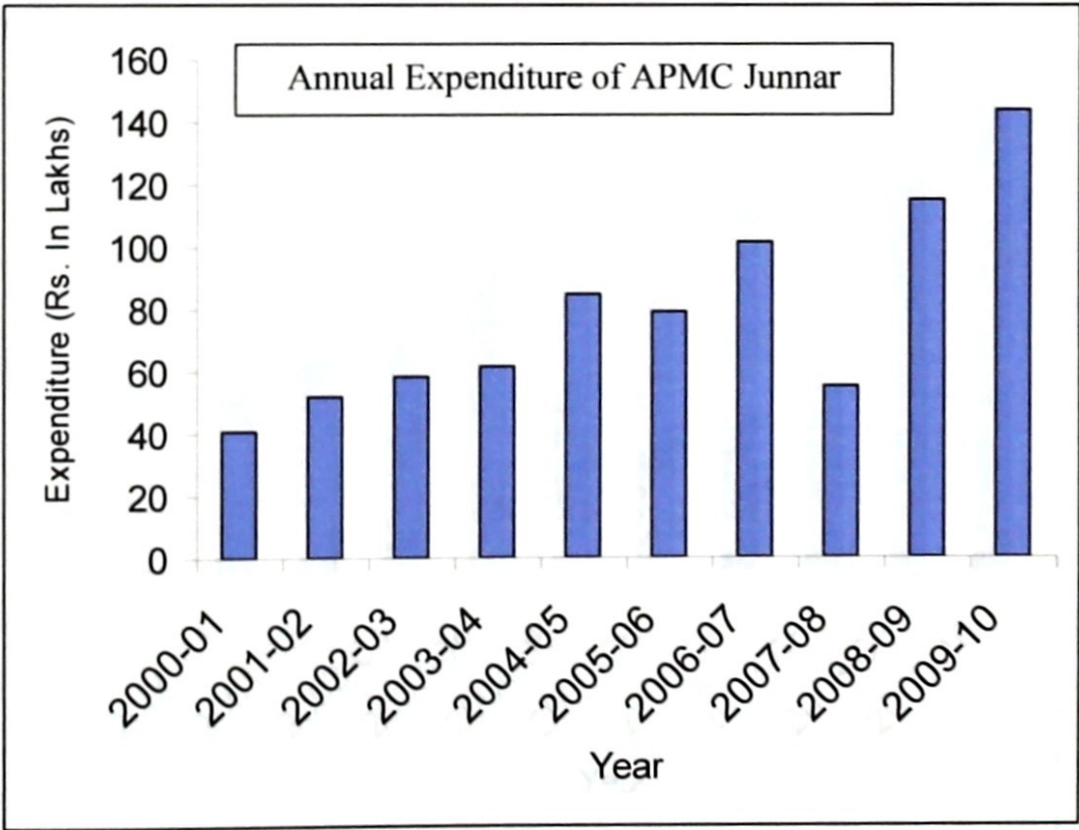


Table No.6.7.5 APMC:-Khed

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 60.18 | - |
| 2 | 2001-02 | 68.73 | 14.21 |
| 3 | 2002-03 | 74.99 | 9.11 |
| 4 | 2003-04 | 100.57 | 34.11 |
| 5 | 2004-05 | 93.07 | -7.46 |
| 6 | 2005-06 | 93.19 | 0.13 |
| 7 | 2006-07 | 121.06 | 29.91 |
| 8 | 2007-08 | 63.86 | -47.25 |
| 9 | 2008-09 | 129.65 | +103.02 |
| 10 | 2009-10 | 151.64 | 16.96- |
| | Average | 95.69 | 15.27 |

Graph No. 17

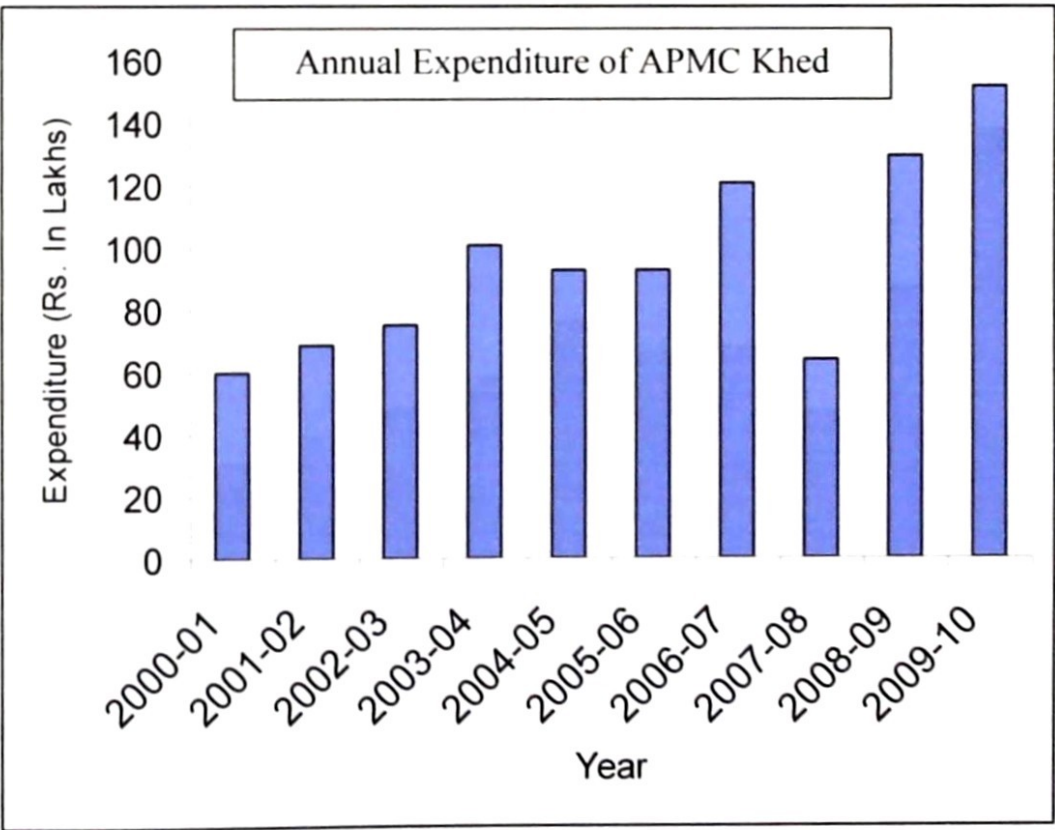


Table No.6.7.6 APMC:-Manchar

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 22.09 | - |
| 2 | 2001-02 | 28.77 | 30.24 |
| 3 | 2002-03 | 35.50 | 23.39 |
| 4 | 2003-04 | 43.19 | 21.66 |
| 5 | 2004-05 | 57.30 | 32.67 |
| 6 | 2005-06 | 49.40 | -13.96 |
| 7 | 2006-07 | 50.59 | 2.62 |
| 8 | 2007-08 | 34.65 | -31.51 |
| 9 | 2008-09 | 65.24 | 88.29 |
| 10 | 2009-10 | 103.75 | 59.02 |
| | Average | 49.05 | 21.24 |

Graph No. 18

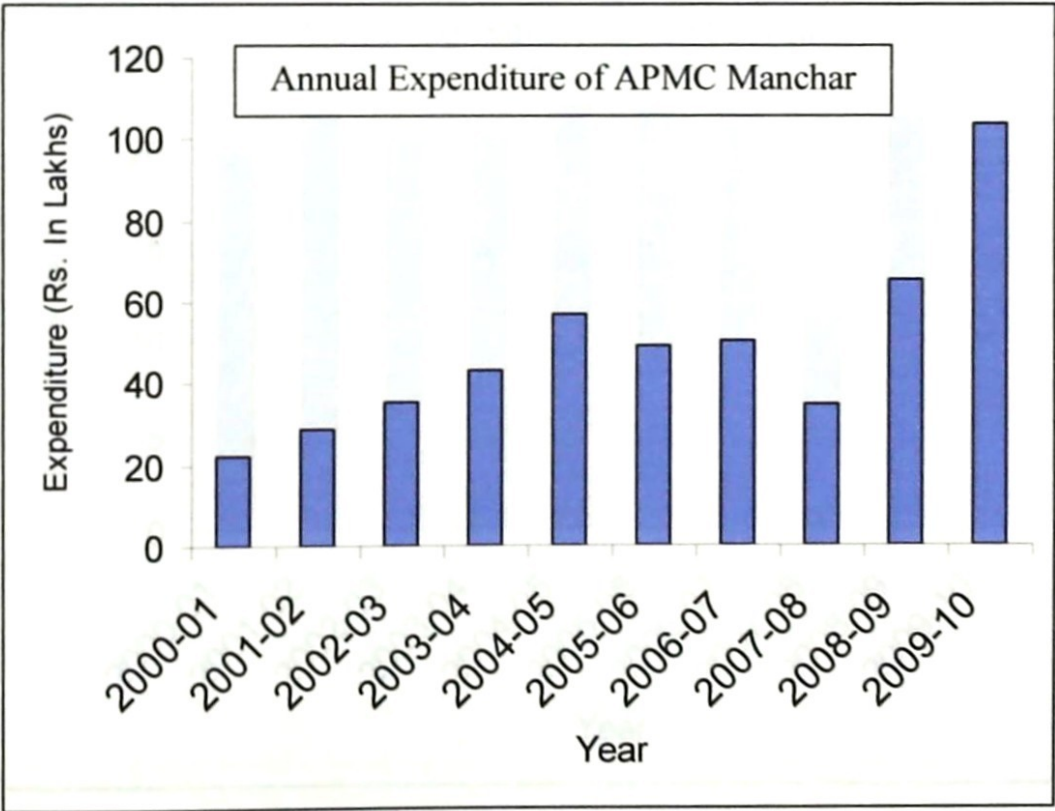


Table No.6.7.7 APMC:-Nira

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 19.89 | - |
| 2 | 2001-02 | 21.82 | 9.70 |
| 3 | 2002-03 | 20.73 | -5.00 |
| 4 | 2003-04 | 20.78 | 0.24 |
| 5 | 2004-05 | 22.36 | 7.60 |
| 6 | 2005-06 | 22.45 | 0.40 |
| 7 | 2006-07 | 22.60 | 0.67 |
| 8 | 2007-08 | 11.53 | -48.98 |
| 9 | 2008-09 | 21.75 | 88.64 |
| 10 | 2009-10 | 20.60 | -5.29 |
| | Average | 20.45 | 4.80 |

Graph No. 19

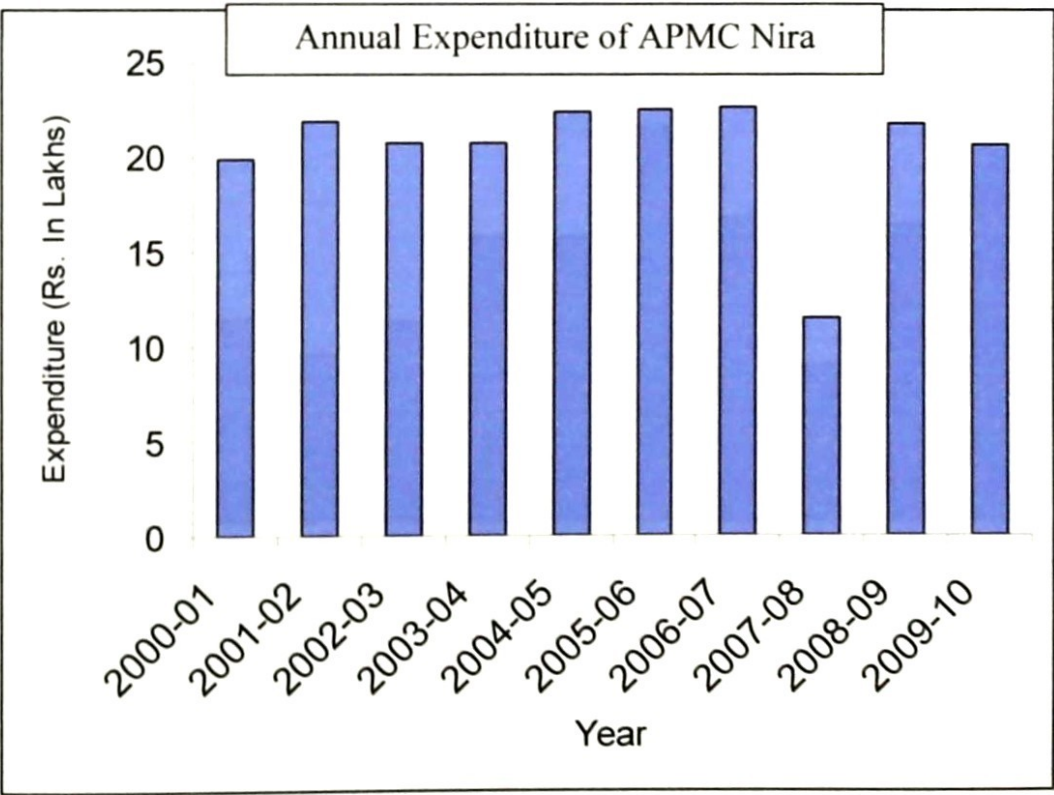


Table No.6.7.8 APMC:-Shirur

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 30.93 | - |
| 2 | 2001-02 | 25.66 | -17.04 |
| 3 | 2002-03 | 30.53 | 18.98 |
| 4 | 2003-04 | 43.24 | 41.63 |
| 5 | 2004-05 | 43.54 | 0.69 |
| 6 | 2005-06 | 60.21 | 30.29 |
| 7 | 2006-07 | 46.33 | -23.05 |
| 8 | 2007-08 | 23.67 | -48.91 |
| 9 | 2008-09 | 45.10 | 90.54 |
| 10 | 2009-10 | 62.09 | 37.67 |
| | Average | 41.13 | 13.08 |

Graph No. 20

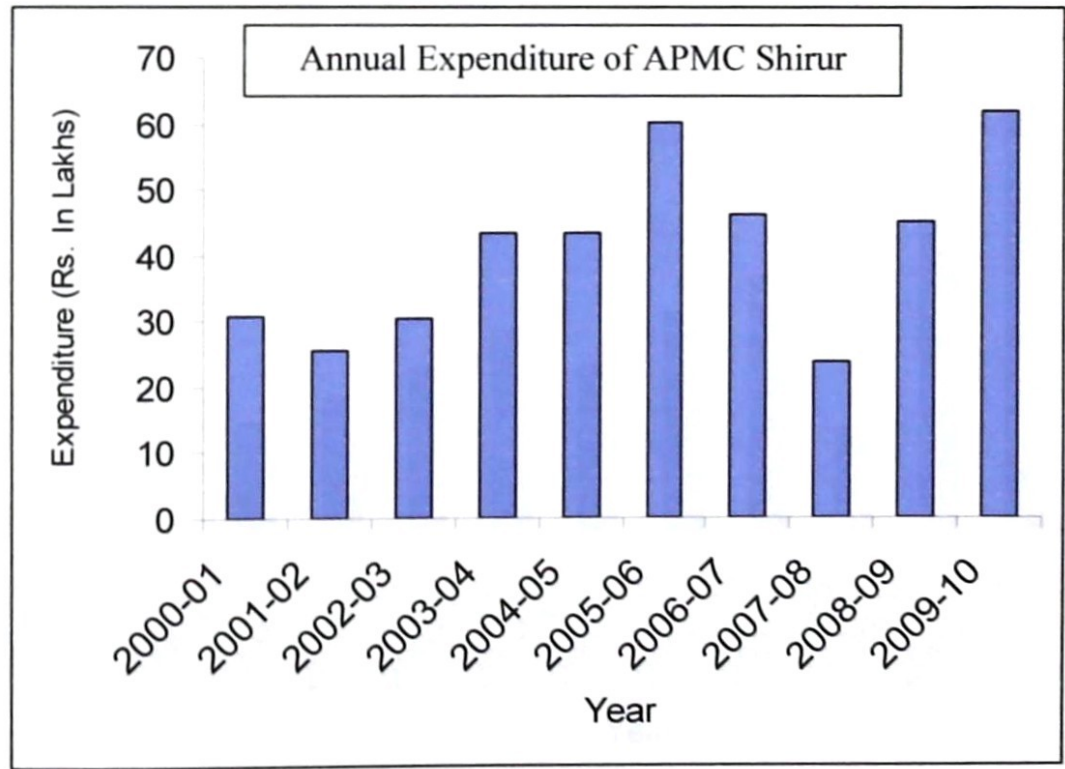


Table No.6.7.9 APMC:-Pune

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 817.05 | - |
| 2 | 2001-02 | 1000.50 | 22.57 |
| 3 | 2002-03 | 1217.98 | 21.62 |
| 4 | 2003-04 | 1510.00 | 23.98 |
| 5 | 2004-05 | 1238.50 | -17.98 |
| 6 | 2005-06 | 1633.84 | 31.92 |
| 7 | 2006-07 | 1881.81 | 14.86 |
| 8 | 2007-08 | 772.79 | -58.93 |
| 9 | 2008-09 | 2464.59 | 218.92 |
| 10 | 2009-10 | 3204.60 | 30.03 |
| | Average | 1574.26 | 40.43 |

Graph No. 21

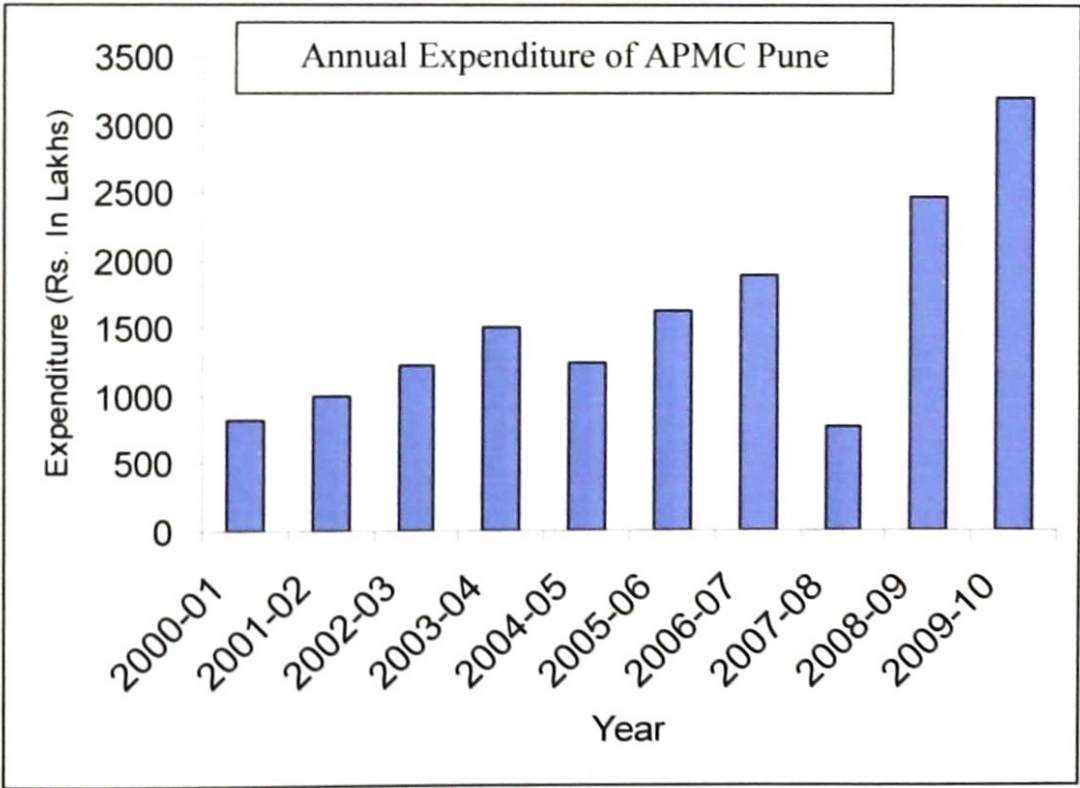
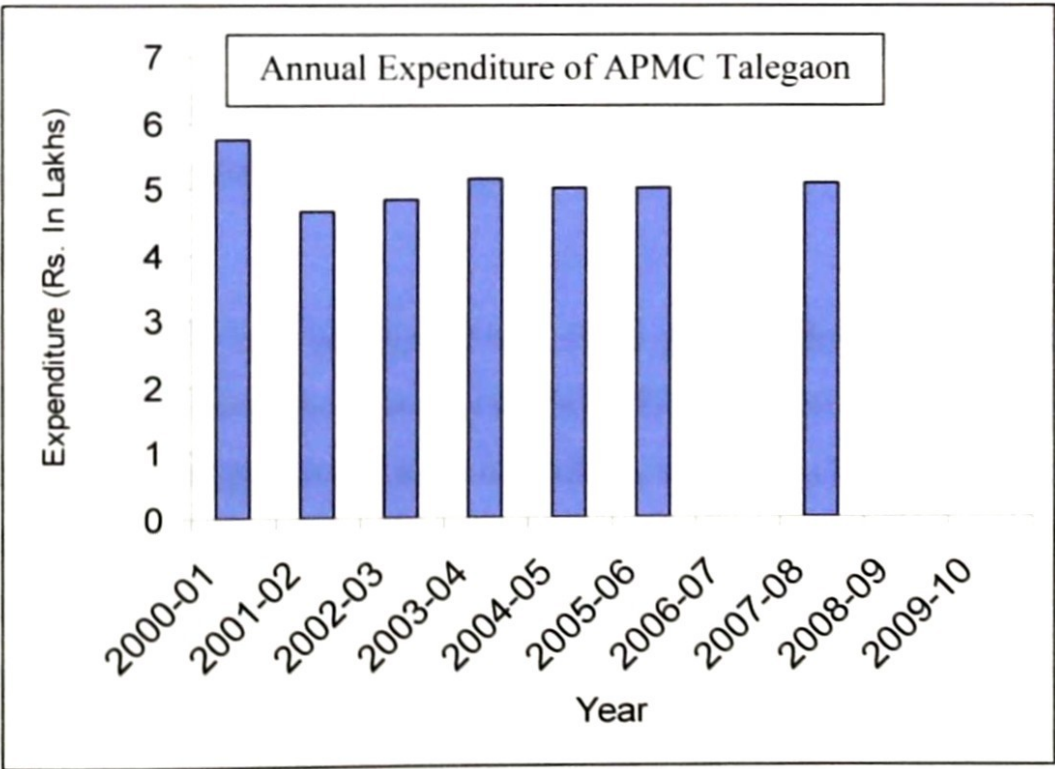


Table No.6.7.10 APMC:-Talegaon

| Sr. No. | Year | Expenditure (Rs. in lac) | % change |
|---------|---------|--------------------------|----------|
| 1 | 2000-01 | 5.75 | - |
| 2 | 2001-02 | 4.67 | -18.78 |
| 3 | 2002-03 | 4.82 | 0.70 |
| 4 | 2003-04 | 5.15 | 6.85 |
| 5 | 2004-05 | 4.99 | -3.11 |
| 6 | 2005-06 | 5.02 | 0.42 |
| 7 | 2006-07 | - | - |
| 8 | 2007-08 | 5.09 | 1.39 |
| 9 | 2008-09 | - | - |
| 10 | 2009-10 | - | - |
| | Average | 5.07 | -2.09 |

Graph No. 22



The thorough examination of the annual expenditure along with percentage changes of each of the selected APMCs was carried out & the observations there on are given below.

Baramati APMC :-

The annual expenditure of Rs.55.48 lakhs during the year 2000-01 seems to have increased to Rs.129.25 lakhs during 2009-10. At the overall level, the change in expenditure was of the order of 28.45 %. The percentage changes were high viz.22.92 % (2004-05), 95.81% (2008-09) and 15.64% (2009-10). The high change in expenditure of Rs.95.81% during 2008-09 over its preceding year was observed to be because of high expenditure of Rs. 111.77 lacs as compared to that (Rs.57.08 lacs) in preceding year (2007-08). In case of this APMC, the negative percentage changes in expenditure, observed in respect of the years 2003-04 (-18.45%) and 2007-08 (-34.11%) indicated that the expenditure during these two years were reduced. While during the remaining year, the expenditure went on increasing. The overall positive change in expenditure was observed to be 28.45%.

Daund APMC:-

This APMC had an expenditure of Rs.13.12 lakhs during initial year (2000-01) which was increased to Rs.40.53 lakhs after 10 years. This APMC had overall positive change of 20.81%, which was lower than that of Baramati APMC. The positive change of very high order (185.36%) was observed in respect of the year 2008-09. This was mainly due to sharp increase in expenditure viz. Rs.40.02 lacs during 2008-09 over that of its preceding years expenditure (Rs.14.00 lacs). This seemed to be high expenditure on establishment and other items of expenditure. For this purpose, the detailed itemwise expenditure has to be seen from the records of APMC.

Indapur APMC:-

This APMC seemed to have spent Rs.30.34 lakhs initially which was raised to Rs.82.94 lakhs during 2009-10. In case of this APMC, the overall change (15.13%) was of lower than those of earlier two APMCs. The overall average expenditure is observed to be Rs. 53.27 lacs. The expenditure seemed to have been increased during two years, 2008-09 Rs. 75.04 lacs and that Rs. 82.94 lacs during 2009-10. The break up of expenditure during these two years showed the higher expenditure during the two years on all the three items viz. Establishment, meeting and other expenditure. It was further observed that although the expenditure was increased, the income was also increased, keeping the APMC in surplus position.

Junnar APMC: -

This APMC seems to have spent Rs.41.17 lakhs initially. It further raised to Rs.143.9 lakhs during 2009-10. This APMC seems to have undertaken high expenditure (Rs.115.10 lacs) during 2008-09 as compared to those preceding years. The expenditure also continued to increase in the following year (2009-10). This has led to high value of average expenditure (Rs.79.51 lacs) over the ten years period. At the overall, percentage change was 18.44%, this change was more or less equal to that of Indapur APMC and Daund APMC.

Khed APMC :-

This APMC seems to have spent annually more than that of earlier APMCs. Initially during 2000-01, it spent Rs.60.18 lakhs and during the year 2009-10, it spent Rs.151.64 lakhs. On an average change in expenditure over 10 years period was 15.27%. This was more or less equal to that of Indapur & Junnar. In case of this APMC also the sudden

high change of 103.02 % was observed during the year 2008-09. Such situation was also observed in case of Baramati, Daund, Indapur and Junnar APMCs. During this year, the expenditure seemed to have been increased because of more expenditure on all the three items of expenditure viz. establishment, meetings and other expenditure.

Manchar APMC :-

This APMC seems to have spent not much (Rs.22.09 lakhs). However, its expenditure went up to Rs. 103.75 lakhs during 2009-10. This APMC had overall average value of 49.05 lacs in respect of the yearly expenditure. This APMC seems to have higher expenditure during two years viz. 2008-09 and 2009-10. The increase in expenditure is observed to be on the items viz. other expenditure. Such a high expenditure on various 'other expenditure' will have to be verified from the detailed account of expenditure of this APMC.

Nira APMC:-

The data regarding annual expenditure of this APMC, presented above showed that the overall annual average expenditure was Rs. 20.45 lakhs, ranging Rs. 19.89 lakhs to Rs. 20.60 lakhs during 2009-10. This APMC had low value of trend (4.80%). The overall average expenditure of this APMC was hardly Rs.20.45 lacs, a slightly lower than that of Daund APMC. It was further observed that the annual expenditure during the nine years period viz. 2000-01 to 2006-07, 2008-09 & 2009-10 was more or less the same. The expenditure was low (Rs.11.53 lacs) during 2007-08, as a result, the expenditure of Rs.21.75 lacs showed higher percentage change (88.64%) during 2008-09.

Shirur APMC:-

This APMCs incurred annual expenditure of Rs. 30.93 lakhs, which further increased to Rs. 62.09 lakhs during 2009-10. This APMC had an average trend value of 13.08%, the highest value of 90.54% was observed in respect of the year 2008-09. This was only because of sudden high expenses during 2008-09 as compared that of preceding year's expenses. The APMC had on an average, the value of trend of 13.08% with overall average value expenditure of Rs. 41.13 lacs.

Pune APMC:-

It could be seen from the table that the annual expenditure was of very high order viz. Rs. 817.05 lakhs during 2000-01 which reached to high figure viz. 3204.60 lakhs. This APMC is having annual average expenditure of Rs. 1574.26 lacs. Barring the expenditure amount of Rs. 772.79 lacs of 2007-08, the trend was more or less linear. The overall value of trend 40.43% of this APMC was the highest amongst all the APMCs studied here. The trend value of 218.92% of 2008-09 was mainly because of very low annual expenditure of Rs. 772.79 lacs during 2007-08.

Talegaon APMC:-

This APMC had a very low expenditure ranging from Rs. 5.75 lakhs to Rs. 5.09 lakhs during 2007-08. This APMC has negative value of trend (-2.09%), having overall average expenditure of Rs. 5.07 lacs. It is necessary to investigate the reasons for low investment for operating the marketing activities. Besides, the reasons for very low income of the APMC need to be find out. For this purpose, the discussion on these issues will have to be taken by the APMC along with Government officials.

6.2.7 Linear Growth Rates Of Expenditure of selected APMCs.

The time series data pertaining to expenditure of the selected AMPCs have been studied in earlier paragraphs now the said time series data is proposed to carry out trend analysis by estimating the linear growth rates of expenditure of the selected AMPCs. The results of this analysis have been presented in the following tables (Table No.6.8). This table give the linear growth rates along with the values of R^2 .

Table 6.8:- Linear Growth Rates of Expenditure in selected APMCs of Pune District (2000-01 to 2009-10).

| Sr. No. | Name of APMCs | Linear Growth Rates | Co-efficient of multiple Determination (R^2) |
|---------|---------------|---------------------|--|
| 1 | Baramati | 7.95 | 0.5675 x |
| 2 | Daund | 10.74 | 0.5776 x |
| 3 | Indapur | 8.59 | 0.6512 x |
| 4 | Junnar | 11.02 | 0.6795 x |
| 5 | Khed | 7.95 | 0.5691 x |
| 6 | Manchar | 12.37 | 0.6206 x |
| 7 | Nira | -1.02 | 0.0378 N.S. |
| 8 | Pune | 11.94 | 0.5462 X |
| 9 | Shirur | 6.02 | 0.3122 N.S. |
| 10 | Talegaon | -0.61 | 0.0465 N.S. |

X indicates that the values are significant

N.S. indicates that the values are non-significant.

The table 6.8 shows the linear growth rates of expenditure of the selected AMPCs. It could be observed that the highest growth rate was observed in respect of AMPC Manchar (12.37%) followed by AMPC Pune (11.94%) and AMPC of Junnar (11.02%). In case of Baramati, Indapur, Khed and Shirur AMPCs, the values were more or less the same & lower than those of Pune and Manchar AMPCs. The values were negative in respect of Nira AMPC (-1.02%) & Talegaon (-0.61%).

It is to be mentioned here that the lower values of growth rate do not indicate the AMPCs are sound enough. It would be appropriate if the growth rates of surplus are examined critically.

6.3 Overall view of percentage changes in Income & Expenditure of Selected APMCs.

It is necessary to have comparative picture of average percentage changes in Income & expenditure of the selected APMCs. The same is presented below in Table 6.9

Table 6.9 :- Comparative study of average percentage changes in Income & Expenditure

| Sr. No. | Name of APMC | Average percentage changes | |
|---------|--------------|----------------------------|----------------|
| | | In Income | In Expenditure |
| 1 | Baramati | 20.88 | 28.45 |
| 2 | Daund | 19.12 | 20.81 |
| 3 | Indapur | 18.15 | 15.13 |
| 4 | Junnar | 40.91 | 18.44 |
| 5 | Khed | 19.52 | 15.27 |
| 6 | Manchar | 17.45 | 21.24 |
| 7 | Nira | 20.50 | 4.80 |
| 8 | Pune | 23.47 | 40.43 |
| 9 | Shirur | 15.03 | 13.08 |
| 10 | Talegaon | -3.90 | -2.09 |

It could be observed from the data presented in Table 6.9 that the values of average percentage changes in income were higher than those of expenditure, in cases of APMCs viz. Indapur, Junnar, Khed, Nira and Shirur. It is therefore concluded that these APMCs have been attempting to operate the regulated markets on right path.

As against this, the average percentage changes in income during the period of 10 years were found to lower than those of expenditure in

respect of the APMCs viz. Baramati, Daund, Manchar, Pune & Talegaon. It is obligatory on the part of these APMCs to take up proper steps in taking up the APMC to the desired percentage level of either income or expenditure over the years.

6.4 Annual Surplus of the Selected APMCs

6.4.1 Introduction

It is obvious on the part of APMC, to have some surplus over the expenditure incurred for operating its various transactions. It was felt necessary to examine broadly the level of surplus of the APMCs earned by them during the period of ten years.

6.4.2 Annual Average Surplus:

The information on annual average surplus of each of the selected APMCs have been given in Table No 6.10. While calculating the annual surplus the following formula was employed.

Annual Surplus = [Total Annual Income of the APMC] - [Total Annual Expenditure of the APMC].

Table 6.10 :- Annual Surplus of the selected APMCs of Pune District
During the period 2000-01 to 2009-10 [Rs. in lakhs]

| Sr. No. | APMC Year | Baramati | Daund | Indapur | Junnar | Khed |
|---------|-----------|----------|-------|---------|--------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 2000-01 | 23.44 | 0.64 | 7.35 | 6.31 | 25.68 |
| 2 | 2001-02 | 4.31 | 1.99 | 2.67 | 11.59 | 8.91 |
| 3 | 2002-03 | 2.46 | 0.23 | -1.38 | 9.52 | 8.52 |
| 4 | 2003-04 | 4.26 | -0.82 | 4.61 | 49.03 | -6.19 |
| 5 | 2004-05 | 11.86 | 1.72 | 15.53 | 27.19 | -11.47 |
| 6 | 2005-06 | 12.26 | 0.13 | 16.76 | 40.78 | 16.54 |
| 7 | 2006-07 | 10.33 | -0.90 | 14.95 | 87.46 | 20.35 |
| 8 | 2007-08 | 4.77 | 3.70 | 13.01 | 33.21 | 16.28 |
| 9 | 2008-09 | 10.90 | 0.71 | 36.13 | 129.44 | 61.89 |
| 10 | 2009-10 | 37.95 | 1.76 | 31.11 | 170.70 | 56.77 |
| Average | | 12.25 | 0.91 | 14.07 | 56.52 | 19.73 |

[Rs. in lakhs]

| Sr. No. | APMC Year | Manchar | Nira | Pune | Shirur | Talegaon |
|---------|-----------|---------|-------|--------|--------|----------|
| | | 8 | 9 | 10 | 11 | 12 |
| 1 | 2000-01 | 15.27 | 0.80 | 298.26 | -7.23 | -0.37 |
| 2 | 2001-02 | 23.42 | -3.37 | 342.25 | -3.12 | -1.19 |
| 3 | 2002-03 | 26.40 | -1.70 | 116.42 | 5.63 | -1.14 |
| 4 | 2003-04 | 21.62 | -4.87 | 49.37 | -2.30 | -1.79 |
| 5 | 2004-05 | 13.59 | -5.24 | 245.09 | -6.95 | -1.73 |
| 6 | 2005-06 | 27.53 | -1.12 | 102.03 | -19.22 | -0.98 |
| 7 | 2006-07 | 45.90 | -3.97 | 200.15 | -8.57 | N.A |
| 8 | 2007-08 | 25.62 | -5.03 | 396.11 | 3.33 | -1.30 |
| 9 | 2008-09 | 9.48 | 2.57 | 0.17 | 9.04 | N.A |
| 10 | 2009-10 | 30.93 | 3.98 | 1.01 | +11.08 | N.A |
| Average | | 23.98 | -1.79 | 175.09 | -2.13 | -1.21 |

In the Table 6.10, the yearwise annual surplus of the APMCs has also been presented. Besides the averages of 10 years surplus of each of the APMCs have been also shown.

Table 6.10 showed that the annual average surplus is exceptionally high (Rs.175.09 lacs) in case of Pune APMC. This might be because of heavy turnover in respect of agricultural marketing from year to year at this APMC. More over, Pune market is having a natural good situation for agricultural market. The Pune city is a district headquarter and located at the central place of the western Maharashtra. Two national highways viz. Mumbai- Hyderabad and Mumbai-Bangalore go through the Pune city. Besides, the heavy arrivals of various agricultural commodities from the neighbouring districts also are taking place throughout the year .All this has led to the heavy turnover of various agricultural goods /commodities in Pune Agricultural Produce Market.

Baramati APMC & Indapur APMC have annual average surplus more or less equal viz. Rs.12.25 lacs & Rs.14.07 lacs respectively.

Daund APMC has very low annual surplus (Rs.0.91 lacs) .This was because of losses of Rs.0.82 lacs and Rs.0.90 lacs during the year 2003-04 and 2006-07 respectively. The APMCs Khed and Manchar showed fairly good surplus as its average annual surplus were observed to be Rs.19.73 lacs and Rs. 23.98 lacs respectively. Junnar APMC received better surpluses viz. Rs.56.52 lacs as it had no losses during any of the year. The APMCs Nira, Shirur and Talegaon had average deficit of Rs. 1.79 lacs, Rs. 2.13 lacs and Rs. 1.21 lacs respectively they had losses during most of the years of ten years period.

6.4.3 No. of years of Surplus:-

From the Table 6.11 given below, it could be observed that some of the APMCs had to suffer losses (deficit) for few years during the ten years period. The APMCs Baramati, Junnar, Manchar and Pune achieved the surplus during all the years. The APMC Indapur had to face deficit only once. APMCs Daund and Khed suffered losses twice during ten years period. The undesirable position was observed in case of Nira and Shirur APMCs, where the deficit was observed for 7 and 6 years respectively. Talegaon APMC had faced losses during all its period of 7 years.

**Table No. 6.11 No. of years of Surplus/loss of the selected APMC
in Pune District**

| Sr. No. | Name of APMC | No. of Years Under study | No. of Years of Surplus. | No. of Years of Deficit |
|---------|--------------|--------------------------|--------------------------|-------------------------|
| 1 | Baramati | 10 | 10 | 0 |
| 2 | Daund | 10 | 8 | 2 |
| 3 | Indapur | 10 | 9 | 1 |
| 4 | Junnar | 10 | 10 | 0 |
| 5 | Khed | 10 | 8 | 2 |
| 6 | Manchar | 10 | 10 | 0 |
| 7 | Nira | 10 | 3 | -7 |
| 8 | Pune | 10 | 10 | 0 |
| 9 | Shirur | 10 | 4 | 6 |
| 10 | Talegaon | 7 | 0 | 7 |

6.4.4 Variability in Surplus of the selected APMCs

It is natural that the annual surplus of the APMCs changes from year to year depending upon financial transactions of the APMCs. In earlier paragraphs, the average surplus of each of the APMCs have been examined. Now it is proposed to examine the variation in annual surplus during the period of 10 years. Now with a view to measure the variability in the annual surplus, the data was subjected to statistical analysis so as to have the values of the following parameters

- i) Arithmetic Mean.
- ii) Standard Deviation
- iii) Limits of Range
- iv) Co-efficient of Variation (%).

The values of the above in respect of the Selected APMCs have been presented in Table 6.12

Table 6.12:- Variability in Annual Surplus of the selected APMCs

| Sr. No | Names of APMCs | No. Of Years | Mean of Surplus (Rs. in lakhs) | Limits of Range | | Standard Deviation (σ) | Co-efficient of Variation (C.V. %) |
|--------|----------------|--------------|--------------------------------|-----------------|--------|---------------------------------|------------------------------------|
| | | | | Lower | Upper | | |
| 1 | Baramati | 10 | 12.25 | 2.46 | 37.95 | 10.35 | 84.41 |
| 2 | Daund | 10 | 0.91 | -0.82 | 3.70 | 1.33 | 145.76 |
| 3 | Indapur | 10 | 14.07 | -1.38 | 36.13 | 11.36 | 80.74 |
| 4 | Junnar | 10 | 56.52 | 6.31 | 170.70 | 52.69 | 93.22 |
| 5 | Khed | 10 | 19.73 | -11.47 | 61.89 | 22.57 | 114.41 |
| 6 | Manchar | 10 | 23.97 | 13.58 | 45.90 | 9.74 | 40.64 |
| 7 | Nira | 10 | -1.79 | -5.24 | 3.98 | 3.14 | -174.99 |
| 8 | Pune | 10 | 175.09 | 0.17 | 396.11 | 135.26 | 77.25 |
| 9 | Shirur | 10 | -2.13 | -19.22 | 11.08 | 8.66 | -406.27 |
| 10 | Talegaon | 07 | -1.21 | -1.79 | -0.37 | 0.44 | -36.52 |

Range of Surplus:-

Table 6.12 gives the information on minimum and maximum values of surplus of each of the APMCs. These values indicated the extent of variation in surplus of the APMCs. The upper limits of range were very high in respect of the APMC viz. Pune and Junnar. The moderate values of upper limits were observed in cases of APMCs viz. Baramati, Indapur, Manchar. In case of remaining APMCs, viz Indapur, Khed, the lower limits of range were negative while in case of APMCs, viz Nira, Shirur the lower limits though negative, the upper limits were positive but low.

The values of limits of ranges seemed to have given rough indication about the variability in surplus earned by the APMCs. It was therefore felt necessary to estimate the values of Co-efficient of Variation (C.V %) in the yearly surplus of APMCs.

Co-efficient of Variation:-

The values of Co-efficient of Variation (C.V) in the year to year surplus earned by the APMC are given in Table 6.12. It showed the values of C.V were very high in respect of the APMCs viz Daund and Khed. This was mainly due to situation of losses in one or more years during the period of 10 years. The values of C.Vs were also rather high in respect of the APMC Baramati (84.41%), Indapur (80.74%), Junnar (93.22%) & Pune (77.25%). This was only because of very low surplus in one or two year's period. The values were negative in respect of APMCs Nira (-174.99), Shirur (-406.27) and Talegaon (-36.52).

6.4.5 Percentage Surplus of APMCs

After having discussed about the annual average surplus of the APMCs along with its standard deviation and Co-efficient of Variation, it was thought necessary to examine the soundness of APMCs on the basis of the surplus earned by the APMCs.

For the purpose, the following formula was used.

$$\% \text{ Surplus} = (\text{Average Surplus earned} \div \text{Average Income}) \times 100.$$

The percentage surplus of each of the APMCs are given in the following table.

The result on percentage surplus is presented in Table 6.13.

Table:- 6.13 Percentage Surplus earned by the selected APMCs in Pune District

| Sr. No | Name of APMCs | No of years | Annual Average | | Annual Average Surplus (Rs. in lac) | % Surplus at Annual Average income |
|--------|---------------|-------------|----------------------|---------------------------|-------------------------------------|------------------------------------|
| | | | Income (Rs. in lacs) | Expenditure (Rs. in lacs) | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Baramati | 10 | 91.61 | 78.86 | 12.25 | 13.37 |
| 2 | Daund | 10 | 24.01 | 23.10 | 0.91 | 3.79 |
| 3 | Indapur | 10 | 67.34 | 53.27 | 14.07 | 20.89 |
| 4 | Junnar | 10 | 136.03 | 79.51 | 56.52 | 41.55 |
| 5 | Khed | 10 | 115.42 | 95.69 | 19.73 | 17.09 |
| 6 | Manchar | 10 | 73.02 | 49.05 | 23.97 | 32.83 |
| 7 | Nira | 10 | 18.66 | 20.45 | -1.79 | -9.59 |
| 8 | Pune | 10 | 1749.35 | 1574.26 | 175.09 | 10 |
| 9 | Shirur | 10 | 39 | 41.13 | -2.13 | -5.46 |
| 10 | Talegaon | 7 | 3.86 | 5.07 | -1.21 | -31.35 |

It could be seen from the Table 6.13. that the highest percentage surplus was observed in respect of APMC-Junnar (41.55%) followed by the APMC Manchar where the percentage surplus was 32.83%. The percentage surplus was fairly good in case of APMC Indapur (20.89%) APMC, Baramati (13.37%) and Khed APMC (17.09%). On other APMCs viz. Pune, Daund, the percentage surplus was not satisfactory. The figures of percentage surplus were 10%, 3.79% respectively in respect of these two APMCs. The position of surplus was unsatisfactory on APMCs viz. Nira, Shirur and Talegaon where the surplus was -9.59%, -5.46% and -31.35% respectively.

6.4.6 Linear Growth Rates Of Surplus of selected APMCs

The time series data pertaining to surplus of the selected AMPCs have been studied in earlier paragraphs. Now the said time series data is used to carry out trend analysis by estimating the linear growth rates of surplus of the selected AMPCs. The results of this analysis have been presented in the following tables (Table No.6.14). This table give the linear growth rates along with the values of R^2 .

Table 6.14:- Linear Growth Rates of surplus in selected APMCs of Pune District. (2000-01 to 2009-10)

| Sr. No. | Name of APMC | Linear Growth Rates (%) | Co-efficient of multiple Determination (R ²) |
|---------|--------------|-------------------------|--|
| 1 | Baramati | 10.23 | 0.1211 |
| 2 | Daund | 11.00 | 0.0470 |
| 3 | Indapur | 23.78 | 0.7155 x |
| 4 | Junnar | 27.36 | 0.7107 x |
| 5 | Khed | 24.48 | 0.3778 |
| 6 | Manchar | 3.19 | 0.0509 |
| 7 | Nira | -20.35 | 0.1116 |
| 8 | Pune | -36.05 | 0.1872 |
| 9 | Shirur | -54.70 | 0.1496 |
| 10 | Talegaon | 7.23 | 0.1950 |

x indicates the value is significant at 5% level.

The Table No.6.14 shows the linear growth rates of surplus of the AMPCs under study. It showed that the values of growth rates of Indapur AMPC (23.78%) and Junnar AMPC (27.36%) were not only high but also were significant. This showed that these two AMPCs were well cautions in operating their markets on well profitable lines over ten years period. The remaining APMC viz. Baramati, Daund & Khed had, no doubts positive linear growth rates viz. 10.23%, 11.00% & 24.48%. But these values were statistically non-significant. The APMC Manchar and Talegaon had very low growth rates viz. 3.19% and 7.23% respectively. Further, it could be seen that the APMCs viz. Nira, Pune and Shirur had negative values of surplus growth rates but were non-significant. However, on the basis of these figures of negative growth rates of

surplus, it needs to be mentioned that these AMPCs have to attempt to increase their level of surplus higher and higher in years to come.

6.4.6 Conclusions:-

Keeping in view the situation of the APMCs regarding its level of annual surplus as shown in the Table 6.14. It is suggested that -

1. The APMCs are required to be very cautious in planning the expenditure towards various items, keeping in view the probable income during the year. In other words, the APMCs should prepare the budget of income – expenditure very thoughtfully with a view to have some surplus every year.
2. The APMCs which are marginally in profit should try hard to take up the APMC to still higher level of profitability by increasing the sources of income such as rent, interest on savings, deposits etc.

6.5 Situation of Losses of Some Selected APMCs

6.5.1 Introduction :

The APMCs are supposed to be democratic bodies and are expected to be operated on normal profits. However, at times, it has to suffer a loss due to unavoidable circumstances or because of having no strict control in making expenditure from time to time. The other reason might be of having no keen interest in increasing the income of APMC. All these things differ from one APMC to other APMC, depending on the situation of transactions held. An attempt has been made to present the situation, under which the APMCs have to face losses for one reason or the other. The

position of APMCs having surplus over expenditure and those having no surplus have been presented in Table No.6.15 given below along with the frequencies of years of surplus / deficit during the period of 10 years (2000 – 01 to 2009 – 10).

6.5.2 Number of Years of losses

The data in respect of the number of years of losses sustained by the selected APMCs during 10 years period have been presented in Table 6.15 . Then the situation of losses of the APMCs have been examined by referring to the break up of income and expenditure of each year of the APMCs.

Table 6.15: No. of Years of Profit / Losses of the selected APMC during the period 2000 – 01 to 2009 – 10.

| Sr. No. | Names of APMCs | No. of Years | | |
|---------|----------------|--------------|-----------|-------|
| | | of Profit | of Losses | Total |
| 1 | Baramati | 10 | - | 10 |
| 2 | Daund | 8 | 2 | 10 |
| 3 | Indapur | 9 | 1 | 10 |
| 4 | Junnar | 10 | - | 10 |
| 5 | Khed | 8 | 2 | 10 |
| 6 | Manchar | 10 | - | 10 |
| 7 | Nira | 3 | 7 | 10 |
| 8 | Pune | 10 | - | 10 |
| 9 | Shirur | 4 | 6 | 10 |
| 10 | Talegaon | - | 7 | 7 |

The data presented in Table No.6.15 showed that, out of 10 APMCs,

- i] Four APMCs viz. Baramati, Junnar, Manchar and Pune showed surplus in all the years of the period 2000 – 01 to 2009 – 10.

- ii] Indapur APMC suffered the loss during one year only.
- iii] Daund and Khed APMCs had a loss in two years.
- iv] The APMC Shirur had the losses in six years out of 10 years period.
- v] Nira APMC had losses during seven years out of 10 years period.
- vi] Talegaon APMC seemed to have a loss during all the 7 years period in succession and had no profit during the period.

6.5.3 Reason for losses.

It was felt necessary to go into reason of the losses sustained by some of the APMCs, as indicated in Table No. 6.15. For the purpose, yearwise data on break-up of income and expenditure of the APMCs were examined.

It showed that the following common reasons of losses of some of the APMCs.

- 1] Reduced income of the APMC from the Market Fees due to less arrivals of agricultural commodities.
- 2] Reduction in income from sources other than the market fees and license fees.
- 3] Heavy expenses on items of meetings, travelling allowances and transport and such other items of expenses.

The observations made there on are presented in following paragraphs.

APMC Indapur:

This APMC suffered a loss in one year only (2002 – 03). The data presented in Table No. 6.10 showed that this APMC suffered a loss (deficit) of Rs.1.38 lacs during 2002 – 03. This loss was seemed to be because of high expenditure of Rs.51.31 lacs during the said year as compared to that in previous year (Rs.30.28 lacs) as well as in succeeding year (Rs.50.98 lacs). On further high examination of break-up of such expenditure it was seen that the expenditure towards “Other items” was observed to be high as compared to that in previous year as well as that of succeeding year. The particulars of items under the head “ Other expenditure ” need to be examined for clarification.

APMC Daund:

During the year 2003 – 04 , the APMC had to suffer a loss of Rs. 0.82 lacs. This was mainly because of two reasons viz

- 1] Establishment charges increased by 5.21% over the previous years expenditure on it.
- 2] Meeting charges were also increased by 38.05% during the year 2003 – 04 as compared to that in previous year.
- 3] During another year 2006 – 07 also the APMC seems to have suffered a loss of Rs. 90 lacs. This was mainly due to the following reasons.
 - a) The income from Market fee was reduced to half of the previous years market-fee. The same situation is observed in respect of income from other sources. It needs to mention that the market arrivals were also reduced, which was resulted in lesser income during 2006 – 07.

APMC Khed:

This APMC suffered a loss of Rs. 11.47 lacs during 2004 – 05 and Rs. 6.19 lacs during 2003 – 04 . It seemed from the Table No.6.7 that the expenditure was rather heavy during these two years. The position of income during 2003 – 04 was better than that during the previous years (2002–03). However, the expenditure side was heavier than that during 2001–02 and 2002–03 years. It was further seen that the expenditure on ‘other expenditure’ were increased heavily during 2003–04 by nearly Rs.20 lacs. The details of this item needs to be looked into the annual reports. As regards the heavy losses of Rs. 11.47 lacs during 2004–05, it was observed that there was reduction in income during 2004–05 as compared to that during the previous period of 5 years. On comparing the break up of income of the previous year (2003–04) with that of 2004–05, it was seen that the income due to ‘market fee’ was reduced nearly by Rs.12 lacs. This is naturally due to less arrivals of commodities during 2004–05 as compared to that in previous years. The reduction in income due to licence fees and other items was also observed during 2004–05 as compared to that in previous years.

The above discussion leads to suggest that the Committee should spell out the reasons in the annual report regarding heavy losses in respect of the period under report. This will facilitate to the Committee to exercise the control the sudden heavy expenditure and also to make efforts wherever possible in increasing the income.

APMC Nira:

This APMC suffered losses during the period of 7 years out of 10 years right from 2001 – 02 to 2007 – 08. On going through the losses figures of the above said years it was observed that the losses ranged from 1.12 lacs to 5.24 lacs. The year wise position was as follows.

- i) During 2001 – 02, the income was reduced to 18.45 lacs from Rs. 20.70 lacs. As against this the expenditure was raised to 21.82 lacs from 19.89 lacs. The reduced income is due to less arrivals during 2001 – 02 as compared to that of previous year.
- ii) During 2003–04, the income from market fee was reduced to 8.64 lacs from 13.00 lacs during 2000–01. The income from other source was also reduced. As against this, the expenditure amount did not reduce but it remained more or less during 2003–04. The sizable amount of deficit (Rs. 50.24 lacs) during 2007–08 was also due to low income both from market fee and “other sources” as compared to that in previous six years.

It is only in 2008–09 and 2009–10, the income from market fees was increased as compared to earlier 7 years, and more so that it covered the high expenditure incurred by the APMC during 2008–09 and 2009–10. So the main problem of this APMC was seemed to be the less arrivals of agricultural commodities.

AMPC Shirur:

The AMPC Shirur has faced the losses during a period of six years viz. 2000–01 to 2001–02 and 2003–04 to 2006–07. For the purpose of examining this situation, a data on income and expenditure as given in Table 6.8 was thoroughly examined. It showed that :

- i) During the two years period viz. 2000–01 to 2001–02, the income of the APMC was far below that during 2002–03. This seemed to be because of very less income under the head “other income” as compared to that during the subsequent years.
- ii) As regards the situation of losses during the period viz. 2003–04 to 2006–07, it was observed that the main cause of increase in total expenditure during these 4 years period was the sizable increase in expenditure on “other expenses” item. This needs further investigation into detail of all item wise expenditure under the head “other expenditure”.
- iii) It is therefore suggested the committee should point out the details of high expenditure in their annual report.

Talegaon APMC:

This APMC is not so sound enough, as the Committee has suffered losses during the years viz. 2000 – 01 to 2005 – 06 and also during 2007 – 08 . On examining the reasons for a such situation seems to be mainly the following :

- i) Arrivals of farm commodities do not show any increasing trend.
- ii) Possibility of increasing the income from other sources seems to be rare or the Committee itself seems to have not done for the same.
- iii) Expenditure on Establishment is so much high that, even the major source of income viz. Market fee does not cover it.

A time has come that the concerned authorities have to think very seriously as to whether this APMC has to continue as it is or

find out the ways to increase the income of APMC etc. or reduce the expenditure to the bear minimum.

6.5.4 Conclusions :

On the basis of observations based on the situations of the various APMCs running into losses for some years, it can be concluded that.

- i) The expenditure on establishment and meetings should be reduced to bear minimum.
- ii) The heavy expenses under the item viz. other expenses should be placed in Annual General Meeting with a view to have opinion of the members.
- iii) The items of heavy expenses usually presented under “other expenses” should be shown specifically in the Annual Statement of Income and Expenditure of the APMC’s annual report every year.

6.6 Statistical Analysis :

6.6.1 Correlation between Income and Expenditure of selected APMCs

In earlier paragraphs, a variation in income and expenditure of APMCs was examined for each of the APMC, by estimating the values of σ and Co-efficient of Variation. Now it is proposed to examine the simultaneous variation in income and expenditure of APMCs with the help of correlation analysis technique. The formula for estimating the value of co-relation co-efficient, called as ‘r’, was as follows.

$$r = \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sqrt{(\sum x_i^2 - \frac{(\sum x_i)^2}{n})(\sum y_i^2 - \frac{(\sum y_i)^2}{n})}}$$

- Where, r is value of correlation co-efficient.
- x is income of the APMC during the year.
- y is expenditure of the APMC during the year.
- n is no. of years, for which data is available.

The values of correlation co-efficient thus worked out are given in Table 6.16. for each APMCs.

Table 6.16 : Values of Correlation Co-efficient, showing relationships between income – expenditure of the selected APMCs.

| Sr. No. | Names of APMCs | Values of ‘ r ’ |
|---------|----------------|-----------------|
| 1 | Baramati | 0.96 ** |
| 2 | Daund | 0.98** |
| 3 | Indapur | 0.97** |
| 4 | Junnar | 0.98** |
| 5 | Khed | 0.91** |
| 6 | Manchar | 0.92** |
| 7 | Nira | 0.77* |
| 8 | Pune | 0.99** |
| 9 | Shirur | 0.76* |
| 10 | Talegaon | 0.99** |

- ‘ * ’ indicates the value is significant at 5% level.
- ‘ ** ’ indicates the value is significant at 1% level.

The data presented in Table 6.16: showed that the values of ‘r’ in respect of all APMCs, excepting Nira and Shirur were highly significant showing that these APMCs were more cautious enough

in incurring the expenditure, keeping in view the level of income of the APMCs.

In case of the two APMCs viz. Nira and Shirur had the values of 'r' were not highly significant at 1% level of significance but significant at 5% indicating that the committee have attempted to incur the expenditure on the basis of income of the APMC. But these committees can not be said to be much successful in keeping the high correlation between the income and expenditure as the remaining APMCs mentioned earlier.

6.6.2 Regression Analysis

In earlier paragraph, a relationship between two variables viz. Yearly Income and Yearly Expenditure of the selected APMCs was studied. Now this relationship could further be utilised in estimating the value of dependant variable (viz. Expenditure) on the basis of information of the independent variable (viz. Income). Such relationship is established by carrying out the regression analysis of the data pertaining to variables.

In the present study, the linear regression equation of the following type was fitted to the data.

$$y = a + bx$$

where,

y is dependant variable (yearly expenditure of the APMC).

x is independent variable (yearly income of the APMC).

b is a regression co-efficient.

a is a constant.

Regression Equations : -**1] APMC: Baramati**

$$y = 1148052 + 0.740899x$$

(0.073)

2] APMC : Daund

$$y = -72966 + 0.992286x$$

(0.050)

3] APMC: Indapur

$$y = 1296848 + 0.598433x$$

(0.056)

4] APMC: Junnar

$$y = 3006994 + 0.363428x$$

(0.026)

5] APMC : Khed

$$y = 2904334 + 0.5774x$$

(0.087)

6] APMC: Manchar

$$y = -981735 + 0.806087x$$

(0.117)

7] APMC : Nira

$$y = 1123159 + 0.49424x$$

(0.142)

8] APMC : Pune

$$y = -44864447 + 1.1563766x$$

(0.053)

9] **APMC : Shirur**

$$y = 1498539 + 0.696036x$$

(0.212)

10] **APMC : Talegaon**

$$y = 0.00 + 1.28279x$$

(0.066)

Figures in bracket indicate the standard error of 'b' values.

The regression equations fitted for all the APMCs have been shown above. It showed that the values of 'a' were negative in respect of three APMCs viz. Daund, Manchar and Pune, for the rest of the APMCs (except Talegaon) the values were positive. In the above equations the values of Standard Errors of 'b_i's in respect of all the equations have been shown in the brackets.

6.6.3 Study Of Annual Arrivals in Relation to Annual Average Price Of the APMC (Application Of Linear Growth Rates)

A study on relationship between arrivals of Agricultural Commodities and its prices during the same day / week generally shows inverse relationship. In case of data on total annual arrivals and its annual average prices may not give negative correlation. In such type of data, it is proposed here to estimate the growth rates of total annual arrivals and also the growth rates of annual average price of the same commodity. These growth rates show the increased or decreased growth rates over the period of years. Keeping this in view, the growth rates of annual arrivals and the annual average prices of the various agricultural commodities of the selected APMCs are shown in the following Table No. 6.17.1 to 6.17.10.

Table 6.17: Linear Growth Rates

Table No. 6.17.1 APMC : Baramati

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -7.6267 | 26.29 |
| 2 | Wheat | -3.2733 | 13.92 |
| 3 | Rice | -9.66 | 7.39 |
| 4 | Jowar | 3.37 | 17.10 |
| 5 | Maize | 11.08 | 17.06 |
| 6 | Jaggery | -7.68 | 6.95 |
| 7 | Gram | 6.71 | 12.11 |
| 8 | Tur | -34.27 | 3.43 |
| 9 | Mug | -19.89 | 3.10 |
| 10 | Groundnut | -5.35 | 14.96 |
| 11 | Sunflower | 5.94 | 18.02 |
| 12 | Soyabean | 9.17 | 6.75 |
| 13 | Safflower | 15.79 | 12.58 |

Table No. 6.17.2 : APMC : Daund

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -0.42 | 6.19 |
| 2 | Wheat | 3.19 | 8.21 |
| 3 | Jowar | 23.92 | 7.08 |
| 4 | Maize | 33.33 | 7.83 |
| 5 | Jaggery | 5.63 | 8.30 |
| 6 | Gram | 13.20 | 5.34 |
| 7 | Tur | 4.30 | 13.35 |
| 8 | Mug | 20.84 | 6.80 |
| 9 | Groundnut | -19.60 | 4.08 |
| 10 | Sunflower | 36.64 | 3.77 |
| 11 | Kulthi | 5.02 | 4.97 |

Table No. 6.17.3 : APMC : Indapur

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -9.39 | 7.29 |
| 2 | Wheat | -6.11 | 7.51 |
| 3 | Jowar | -2.88 | 8.64 |
| 4 | Maize | 13.20 | 7.50 |
| 5 | Jaggery | -9.37 | 8.64 |
| 6 | Gram | 4.55 | 22.46 |
| 7 | Tur | 13.29 | 12.00 |
| 8 | Mug | 1.56 | 6.61 |
| 9 | Sunflower | -0.15 | 6.85 |
| 10 | Safflower | -0.23 | 6.73 |
| 11 | Onion | -20.13 | 14.01 |

Table No. 6.17.4 : APMC : Junnar

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -18.31 | 9.20 |
| 2 | Wheat | 9.53 | -3.85 |
| 3 | Rice | 7.61 | -8.13 |
| 4 | Jowar | 7.73 | 9.17 |
| 5 | Jaggery | -6.08 | 5.42 |
| 6 | Gram | 5.52 | 4.17 |
| 7 | Mug | -20.24 | 10.33 |
| 8 | Potato | -0.99 | -7.51 |
| 9 | Onion | 13.89 | 7.68 |

Table No. 6.17.5 : APMC : Khed

| Sr. No | Commodity | Arrivals | Prices |
|--------|------------------|----------|--------|
| 1 | Potato | 7.24 | 7.29 |
| 2 | Leafy Vegetables | 50.09 | 1.87 |
| 3 | Other Vegetables | 23.86 | -5.00 |
| 4 | Onion | 8.88 | 7.05 |
| 5 | Green Chillies | 12.26 | 3.71 |

Table No. 6.17.6 : APMC : Manchar

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -26.07 | 9.46 |
| 2 | Wheat | 10.30 | 6.25 |
| 3 | Rice | 8.66 | -0.50 |
| 4 | Jowar | 17.38 | 10.98 |
| 5 | Jaggery | -19.07 | 9.75 |
| 6 | Potato | -2.49 | 5.31 |
| 7 | Onion | -8.74 | 27.07 |

Table No. 6.17.7 : APMC : Nira

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -4.07 | 5.95 |
| 2 | Wheat | -4.16 | 9.03 |
| 3 | Rice | -9.27 | 9.84 |
| 4 | Jowar | 3.98 | 29.77 |
| 5 | Maize | 19.06 | 0.34 |
| 6 | Jaggery | -11.36 | 7.80 |
| 7 | Gram | 4.03 | 2.19 |

Table No. 6.17.8 : APMC : Pune

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -1.77 | 7.98 |
| 2 | Wheat | 1.69 | 7.85 |
| 3 | Rice | 5.42 | -1.73 |
| 4 | Jowar | -2.11 | 10.85 |
| 5 | Maize | -5.86 | 7.03 |
| 6 | Jaggery | -4.21 | 8.30 |
| 7 | Gram | 4.15 | 3.77 |
| 8 | Mug | 6.59 | 6.93 |
| 9 | Potato | 3.84 | 6.98 |
| 10 | Onion | -1.24 | 6.34 |

Table No. 6.17.9 : APMC : Shirur

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | 4.88 | 6.37 |
| 2 | Wheat | 1.65 | 7.18 |
| 3 | Jowar | 9.18 | 6.51 |
| 4 | Maize | 12.36 | 5.32 |
| 5 | Jaggery | -19.72 | 12.26 |
| 6 | Gram | -0.93 | 5.52 |
| 7 | Tur | -24.48 | 10.40 |
| 8 | Mug | -13.84 | 6.18 |
| 9 | Sunflower | -10.13 | 8.20 |
| 10 | Soyabean | 4.78 | 24.45 |
| 11 | Safflower | -33.52 | 10.97 |
| 12 | Onion | -32.75 | 7.20 |

Table No. 6.17.10 : APMC : Talegaon

| Sr. No | Commodity | Arrivals | Prices |
|--------|-----------|----------|--------|
| 1 | Bajari | -17.69 | 6.39 |
| 2 | Wheat | 3.98 | -3.04 |
| 3 | Rice | -6.31 | -5.58 |
| 4 | Jowar | -16.08 | -6.18 |
| 5 | Jaggery | -21.67 | 4.55 |
| 6 | Gram | -19.15 | 6.18 |

1 Baramati APMC

It is observed that in case of growth rates of annual arrival of most of the, agricultural Commodities excepting few of those viz. Jowar, Maize, Oilseeds, the growth rates were negative, as against this, the growth rates of average prices of all the commodities were positive, ranging from 3.10 to 26.29. This indicated that with low arrivals of Jowar, Maize, Oilseeds, their prices have increased.

2 Daund APMC

The situation of annual arrivals of the commodities was different than that of Baramati Market. In case of Daund Market, the growth rates of nearly 9 commodities were positive as against those of remaining two viz. Bajari and Groundnut, the rates were negative. As regards the growth rates of average prices it was observed that the growth rates of all the commodities were positive and were ranging from 3.77 to 13.35. The growth rates of average prices of bajri and groundnut were very low as compared to those of remaining commodities.

3 Indapur APMC

The growth rates of annual arrivals of 7 out of 11 Agricultural Commodities were negative while those of 3 pulses and mung were positive. As observed in earlier two APMC, the growth rates of prices of all the commodities were positive ranging from 6.61 to 22.46.

4 Junnar APMC

The situation of this APMC is different from that of Indapur APMC. In Junnar APMC, the growth rates of annual arrivals of 4 commodities viz. Bajari, Jaggery, Mug and Potato were negative while those of remaining commodities, the growth rates were positive. As regards the growth rates in respect of Annual Average Price, it was observed that out of 9 commodities only 3 commodities showed negative growth rates.

5 Khed APMC

In case of this APMC, the growth rates of arrivals were very high mostly in case of vegetable commodities. This showed that the farmers are bringing more and more area under vegetable crops. However, it is also observed that the growth rates of annual prices of all 4 commodities out of 5 commodities were positive.

6 Manchar APMC

The trend of growth rates of annual arrivals of Bajari, Jaggery, Potato, showed more or less the same trend as is observed in case of Junnar APMC. However, in case of growth rates of this APMC was different than that in Junnar APMC. In case of Manchar APMC, the growth rates of average price in case of rice

was hardly -0.50. In case of remaining commodities, the growth rates are positive. It is noteworthy to observe that the growth rates of arrivals and also of prices of cereal crops were positive, indicating that the prices were high even with more arrivals of cereal crops.

7 Nira APMC

The growth rates of annual arrivals of 4 commodities viz. Bajari, Wheat, Rice and Jaggery were negative while it were positive in case of commodities, viz Jowar, Maize and Gram. However, the growth rates of annual average prices of all 7 commodities were positive, indicating the increasing trend in prices of 7 commodities over the years. It is noteworthy to observe that even positive growth rates of arrivals, in case of Jowar and Maize commodity the growth rates of prices remained positive.

8 Pune APMC

Out of 10 commodities, the growth rates in annual arrivals of commodities like Bajri, Jowar, Maize, Jaggery and Onion were negative. While in case of Annual Prices, the growth rates of all the commodities excepting Rice, were positive. It was further seen that the growth rates of arrivals and prices were in opposite direction in respect of four commodities viz. Bajri, Rice, Jowar, Maize and Onion.

9 Shirur APMC

Out of 12 commodities, the growth rates of Annual arrivals were positive only in case of 5 commodities. As against this, the growth rates in annual prices were positive in case of all the 12 commodities.

10 Talegaon APMC

The linear growth rates of annual arrivals was positive in case of Wheat alone. While in case of 5 commodities, they were negative. Regarding the annual average prices, it was observed that out of 6 commodities, 3 commodities Bajari, Jaggery and Gram showed positive growth rates while the rest showed negative growth rates in the annual average prices.

From the above discussions, it could be said that

- i) Almost all APMCs showed positive linear growth rates of annual average prices in almost all the agricultural commodities.
- ii) Almost APMCs, excepting Daund APMC, showed positive linear growth rates in Arrival of commodities in half of the commodities.
- iii) Maize commodity showed positive growth rates both in arrivals and prices, except APMC Pune.
- iv) Jaggery commodity showed negative growth rates of annual arrivals in all the APMC excepting APMC Daund.
- iv) Excepting the case of Talegaon APMC, the linear growth rates in arrivals of some crops is observed to be positive. While those in case of annual prices the linear growth rates were positive in almost all the APMC.

In brief, it can be concluded that there is an increasing trend in the annual average prices of various agricultural commodities in almost all the APMC excepting Talegaon APMC. While such was not the situation in case annual arrivals of the agricultural commodities at the selected APMCs.

6.7 Financial Analysis (I)

(Primary compilation)

It is well known fact that the analytical work of financial data of any business unit/ firm is rather cumbersome and involves the huge work of primary compilation in form of various tabular statements. In the present study, an attempt has been made first to present the basic data in tabular forms. Thereafter the analysis of such primarily compiled data was undertaken to arrive at the various financial statements etc. And thus, the financial analysis of data was undertaken into 3 stages

- a) Primary compilation of financial data.
- b) Preparation of financial statements.
- c) Estimation of selective financial ratios.

Primary Compilation:

The basic data of various financial items of the selected APMC have been compiled into following suitable table showing the following information.

- i) Income of APMC of each year separately for the selected APMCs.
- ii) Expenses of APMC of each year separately for the selected APMCs.
- iii) Year wise surplus (profit) of each of the selected APMCs.
- iv) Items of capital employed by each of the selected APMCs.
- v) Items of Assets and liabilities by each of the selected APMCs.

The information on items i, ii and iii have been shown in Table No.6.18.1, to 6.18.8 in respect of eight APMCs.

In addition to data presented in Table No.6.18.1 to 6.18.8, the information on items iv and v have also been shown in Table No.6.19.1 to 6.19.8.

This data being the primary information i.e. basic financial information of the APMCs is used for further financial analysis.

Table No. 6.18 : Annual Income, Expenditure and Surplus of the selected APMCs.

Table No. 6.18.1 : APMC : Baramati

Rs. In lakhs

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|-------------------|---------|
| 2000-2001 | 78.93 | 55.47 | 23.46 |
| 2001-02 | 69.83 | 65.65 | 4.18 |
| 2002-03 | 74.58 | 72.12 | 2.46 |
| 2003-04 | 63.06 | 58.79 | 4.27 |
| 2004-05 | 84.16 | 72.29 | 11.87 |
| 2005-06 | 91.74 | 79.48 | 12.26 |
| 2006-07 | 95.96 | 85.62 | 10.34 |
| 2007-08 | 61.79 | 57.01 | 4.78 |
| 2008-09 | 128.66 | 117.76 | 10.9 |
| 2009-10 | 167.2 | 129.24 | 37.96 |

Table No. 6.18.2 : APMC : Indapur

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|-------------------|---------|
| 2000-2001 | 37.69 | 30.32 | 7.37 |
| 2001-02 | 32.95 | 30.27 | 2.68 |
| 2002-03 | 49.92 | 51.31 | -1.39 |
| 2003-04 | 55.6 | 50.98 | 4.62 |
| 2004-05 | 71.68 | 56.14 | 15.54 |
| 2005-06 | 73.08 | 56.31 | 16.77 |
| 2006-07 | 74.41 | 59.46 | 14.95 |
| 2007-08 | 52.87 | 39.85 | 13.02 |
| 2008-09 | 111.16 | 75.02 | 36.14 |
| 2009-10 | 114.05 | 82.93 | 31.12 |

Table No. 6.18.3 : APMC : Junnar

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|-------------------|---------|
| 2000-2001 | 49.48 | 43.16 | 6.32 |
| 2001-02 | 64.00 | 52.40 | 11.60 |
| 2002-03 | 67.81 | 58.29 | 9.52 |
| 2003-04 | 110.40 | 61.37 | 49.03 |
| 2004-05 | 111.74 | 84.55 | 27.19 |
| 2005-06 | 120.33 | 79.55 | 40.78 |
| 2006-07 | 188.72 | 101.26 | 87.46 |
| 2007-08 | 88.67 | 55.46 | 33.21 |
| 2008-09 | 244.54 | 115..10 | 129.44 |
| 2009-10 | 314.61 | 143.91 | 170.70 |

Table No. 6.18.4 : APMC : Khed

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|----------------------|---------|
| 2000-2001 | 85.86 | 60.18 | 25.68 |
| 2001-02 | 77.65 | 68.73 | 8.92 |
| 2002-03 | 83.50 | 74.98 | 8.52 |
| 2003-04 | 94.37 | 100.57 | -6.20 |
| 2004-05 | 81.60 | 93.08 | -11.48 |
| 2005-06 | 109.71 | 93.19 | 16.52 |
| 2006-07 | 141.41 | 121.12 | 20.29 |
| 2007-08 | 80.15 | 63.86 | 16.29 |
| 2008-09 | 191.54 | 129.65 | 61.89 |
| 2009-10 | 208.41 | 151.64 | 56.77 |

Table No. 6.18.5 : APMC : Manchar

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|----------------------|---------|
| 2000-2001 | 37.36 | 22.07 | 15.29 |
| 2001-02 | 52.12 | 28.69 | 23.43 |
| 2002-03 | 61.89 | 35.49 | 26.40 |
| 2003-04 | 64.81 | 43.17 | 21.64 |
| 2004-05 | 70.88 | 57.29 | 13.59 |
| 2005-06 | 76.93 | 48.89 | 28.04 |
| 2006-07 | 96.48 | 50.57 | 45.91 |
| 2007-08 | 60.26 | 44.65 | 15.81 |
| 2008-09 | 74.72 | 65.24 | 9.48 |
| 2009-10 | 134.68 | 103.74 | 30.94 |

Table No. 6.18.6 : APMC : Nira

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|-------------------|---------|
| 2000-2001 | 20.69 | 19.88 | 0.81 |
| 2001-02 | 18.46 | 21.81 | -3.35 |
| 2002-03 | 19.03 | 20.72 | -1.69 |
| 2003-04 | 15.92 | 20.77 | -4.85 |
| 2004-05 | 17.12 | 22.35 | -5.23 |
| 2005-06 | 21.32 | 22.44 | -1.12 |
| 2006-07 | 18.63 | 22.61 | -3.98 |
| 2007-08 | 6.49 | 11.52 | -5.03 |
| 2008-09 | 24.32 | 21.75 | 2.57 |
| 2009-10 | 24.58 | 20.60 | 3.98 |

Table No. 6.18.7 : APMC : Pune

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|-------------------|---------|
| 2000-2001 | 1115.30 | 817.04 | 298.26 |
| 2001-02 | 1343.75 | 1001.50 | 342.25 |
| 2002-03 | 1334.41 | 1217.99 | 116.42 |
| 2003-04 | 1559.35 | 1509.98 | 49.37 |
| 2004-05 | 1483.59 | 1238.50 | 245.09 |
| 2005-06 | 1735.81 | 1633.78 | 102.03 |
| 2006-07 | 2081.96 | 1881.81 | 200.15 |
| 2007-08 | 1168.90 | 772.79 | 396.11 |
| 2008-09 | 2464.75 | 2464.58 | 0.17 |
| 2009-10 | 3205.62 | 3204.61 | 1.01 |

Table No. 6.18.8 : APMC : Shirur

| Year | Total Income | Total Expenditure | Surplus |
|-----------|--------------|-------------------|---------|
| 2000-2001 | 23.70 | 30.92 | -7.22 |
| 2001-02 | 22.54 | 25.65 | -3.11 |
| 2002-03 | 36.16 | 33.69 | 2.47 |
| 2003-04 | 40.95 | 40.10 | 0.85 |
| 2004-05 | 36.58 | 48.53 | -11.95 |
| 2005-06 | 40.99 | 60.66 | -19.67 |
| 2006-07 | 37.76 | 48.40 | -10.64 |
| 2007-08 | 24.01 | 23.66 | 0.35 |
| 2008-09 | 54.14 | 48.55 | 5.59 |
| 2009-10 | 73.16 | 50.98 | 22.18 |

The information on following items has been shown in Table No. 6.19.1 to 6.19.8 under the head, “the components of financial statements of APMC’s viz.

1. Total expenditure under various heads.
2. Capital Employed
3. Current Liabilities
4. Non-current Liabilities
5. Total Asset
6. Fixed Asset
7. Current Asset.
8. Surplus

Table No. 6.19.1 :- Components of Financial Statements of APMC : Baramati

(Rs. In Lakhs)

| Expenses | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Establishment Expenss | 21.59 | 27.51 | 23.30 | 33.59 | 29.80 | 34.62 | 31.94 | 18.46 | 42.73 | 48.19 |
| Meeting Expenses | 0.99 | 1.74 | 2.05 | 2.28 | 2.29 | 0.83 | 1.17 | 0.72 | 1.56 | 2.15 |
| Other Expenses | 32.89 | 36.40 | 46.77 | 22.92 | 40.20 | 44.03 | 52.51 | 37.83 | 73.47 | 78.90 |
| Total Cost | 55.47 | 65.65 | 72.12 | 58.79 | 72.29 | 79.48 | 85.62 | 57.01 | 117.76 | 129.24 |

Capital employed

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 348.47 | 352.78 | - | 368.81 | 390.67 | 410.93 | 437.47 | 439.71 | 542.30 | 580.26 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | - | 34.00 | - | 0.14 | 16.72 | 45.85 | 116.86 | 150.67 | 130.59 | 108.10 |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 348.47 | 386.78 | - | 368.95 | 407.39 | 456.78 | 554.33 | 590.38 | 672.89 | 688.36 |
| Average Capital employed | 348.47 | 367.63 | - | 368.95 | 388.17 | 432.09 | 505.56 | 572.36 | 631.64 | 680.63 |

Table No. 6.19.1 (Baramati) Contd...

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|--------------|--------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 26.24 | 30.31 | - | 23.58 | 28.06 | 42.93 | 47.79 | 53.01 | 54.85 | 62.09 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 26.24 | 30.31 | - | 23.58 | 28.06 | 42.93 | 47.79 | 53.01 | 54.85 | 62.09 |
| | | | | | | | | | | |
| Non current Liabilities | 15.08 | 29.13 | - | 40.43 | 42.91 | 49.47 | 64.15 | 73.50 | 114.82 | 135.81 |

| | | | | | | | | | | |
|---------------------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|
| Total assets | 389.79 | 446.22 | - | 432.96 | 478.36 | 549.18 | 666.27 | 716.89 | 842.56 | 886.26 |
| Fixed Assets | 193.22 | 184.81 | - | 330.76 | 380.30 | 447.69 | 578.14 | 614.09 | 694.99 | 691.13 |
| Cash and Securities | 9.44 | 19.31 | - | 6.57 | 9.88 | 3.25 | 6.87 | 11.12 | 14.68 | 55.28 |
| Non current assets | 180.69 | 112.39 | - | 81.04 | 77.98 | 69.45 | 52.34 | 58.76 | 125.35 | 132.35 |
| Current Assets | 6.44 | 129.72 | - | 14.59 | 10.20 | 28.79 | 28.93 | 32.92 | 7.54 | 7.51 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 78.93 | 69.83 | 74.58 | 63.06 | 84.16 | 91.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Total Expenses | 55.47 | 65.65 | 72.12 | 58.79 | 72.29 | 79.48 | 85.62 | 57.01 | 117.76 | 129.24 |
| Net surplus | 23.46 | 4.18 | 2.46 | 4.27 | 11.87 | 12.26 | 10.34 | 4.78 | 10.90 | 37.96 |

Table No. 6.19.2 :- Components of Financial Statements of APMC : Indapur

(Rs. In Lakhs)

| Expenses | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Establishment Expenss | 14.90 | 13.91 | 14.75 | 17.23 | 16.46 | 18.25 | 22.34 | 14.91 | 30.35 | 38.08 |
| Meeting Expenses | 1.09 | 1.15 | 1.57 | 3.21 | 2.26 | 2.26 | 2.25 | 1.14 | 2.68 | 3.42 |
| Other Expenses | 14.33 | 15.21 | 34.99 | 30.54 | 37.42 | 35.80 | 34.87 | 23.80 | 41.99 | 41.43 |
| Total Cost | 30.32 | 30.27 | 51.31 | 50.98 | 56.14 | 56.31 | 59.46 | 39.85 | 75.02 | 82.93 |

Capital employed

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 160.25 | 175.13 | 175.29 | 179.91 | 195.94 | 212.70 | 227.65 | 241.06 | 277.96 | 309.24 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | - | - | - | - | - | - | 6.00 | 5.30 | 5.30 | 5.30 |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 160.25 | 175.13 | 175.29 | 179.91 | 195.94 | 212.70 | 233.65 | 246.36 | 283.26 | 314.54 |
| Average Capital employed | 160.25 | 167.69 | 175.21 | 177.60 | 187.93 | 204.32 | 223.18 | 240.01 | 264.81 | 298.90 |

Table No. 6.19.2 (Indapur) Contd...

(Rs. In Lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | - | 3.38 | 4.54 | 5.17 | 5.42 | 6.31 | 6.97 | 5.79 | 24.37 | 41.61 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 3.38 | 4.54 | 5.17 | 5.42 | 6.31 | 6.97 | 5.79 | 24.37 | 41.61 |
| | | | | | | | | | | |
| Non current Liabilities | - | 80.42 | 125.30 | 142.65 | 177.90 | 200.47 | 226.66 | 251.24 | 355.70 | 416.45 |

| | | | | | | | | | | |
|---------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total assets | - | 258.93 | 305.13 | 327.73 | 379.26 | 419.48 | 467.28 | 503.40 | 663.33 | 772.60 |
| Fixed Assets | - | 224.00 | 225.91 | 228.09 | 233.25 | 236.84 | 271.26 | 280.82 | 451.59 | 640.34 |
| Cash and Securities | - | 6.84 | 3.66 | 6.98 | 5.76 | 9.95 | 23.11 | 19.56 | 53.27 | 28.85 |
| Non current assets | - | 18.15 | 64.90 | 77.49 | 126.65 | 133.09 | 106.89 | 83.70 | 95.43 | 32.99 |
| Current Assets | - | 9.94 | 10.66 | 15.17 | 13.60 | 39.61 | 66.02 | 119.32 | 63.04 | 70.42 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 37.69 | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Total Expenses | 30.32 | 30.27 | 51.31 | 50.98 | 56.14 | 56.31 | 59.46 | 39.85 | 75.02 | 82.93 |
| Net surplus | 7.37 | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |

Table No. 6.19.3 :- Components of Financial Statements of APMC : Junnar

(Rs. In Lakhs)

| Expenditure | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Establishment Expenss | 18.90 | 18.14 | 22.69 | 24.11 | 27.98 | 33.62 | 42.16 | 15.40 | 46.19 | 63.73 |
| Meeting Expenses | 0.72 | 0.70 | 1.28 | 1.58 | 2.42 | 2.30 | 3.77 | 1.77 | 2.61 | 3.93 |
| Other Expenses | 23.54 | 33.56 | 34.31 | 35.66 | 54.15 | 43.62 | 55.34 | 38.29 | 66.29 | 76.25 |
| Total Cost | 43.16 | 52.40 | 58.23 | 61.35 | 84.55 | 79.54 | 101.27 | 55.46 | 115.09 | 143.91 |

CAPITAL EMPLOYED

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 119.95 | 138.15 | 147.67 | 196.71 | 223.90 | 264.68 | 352.14 | 388.35 | 517.79 | 688.49 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | 3.33 | 2.81 | 2.21 | 1.52 | 0.73 | 0.33 | - | - | - | - |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 123.28 | 140.96 | 149.88 | 198.23 | 224.63 | 265.01 | 352.14 | 388.35 | 517.79 | 688.49 |
| Average Capital employed | 123.28 | 132.12 | 145.42 | 174.06 | 211.43 | 244.82 | 308.58 | 370.25 | 453.07 | 603.14 |

Table No. 6.19.3 (Junnar) contd...

(Rs. In Lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 285.85 | 276.15 | 311.03 | 325.48 | 323.43 | 421.94 | 470.44 | 472.81 | 474.34 | 475.60 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 285.85 | 276.15 | 311.03 | 325.48 | 323.43 | 421.94 | 470.44 | 472.81 | 474.34 | 475.60 |
| | | | | | | | | | | |
| Non current liabilities | 34.37 | 39.72 | 34.35 | 35.26 | 45.30 | 50.50 | 45.43 | 49.07 | 53.16 | 67.79 |

| | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|
| Total assets | 443.50 | 456.83 | 495.26 | 558.97 | 593.36 | 737.45 | 868.01 | 910.23 | 1,045.29 | 1,231.88 |
| Fixed Assets | 339.81 | 383.28 | 393.19 | 389.13 | 396.52 | 529.55 | 598.40 | 619.10 | 613.65 | 850.62 |
| Cash and Securities | 69.16 | 36.10 | 68.03 | 127.74 | 146.53 | 162.82 | 217.70 | 239.13 | 362.61 | 302.94 |
| Non current assets | 29.32 | 34.25 | 29.25 | 29.88 | 36.44 | 33.13 | 33.21 | 37.17 | 43.88 | 58.15 |
| Current Assets | 5.21 | 3.20 | 4.79 | 12.22 | 13.87 | 11.95 | 18.70 | 14.83 | 25.15 | 20.17 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Total Expenses | 43.16 | 52.40 | 58.28 | 61.35 | 84.55 | 79.54 | 101.27 | 55.46 | 115.09 | 143.91 |
| Net surplus | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |

Table No. 6.19.4 :- Components of Financial Statements of APMC : Khed

(Rs. In Lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Establishment Expenss | 28.09 | 32.95 | 35.02 | 40.06 | 39.35 | 42.73 | 46.46 | 24.75 | 58.35 | 76.34 |
| Meeting Expenses | 1.54 | 1.56 | 1.81 | 2.28 | 2.31 | 2.44 | 2.37 | 1.38 | 2.60 | 3.50 |
| Other Expenses | 30.55 | 34.22 | 38.15 | 58.23 | 51.42 | 48.02 | 72.29 | 37.73 | 68.70 | 71.80 |
| Total Cost | 60.18 | 68.73 | 74.98 | 100.57 | 93.08 | 93.19 | 121.12 | 63.86 | 129.65 | 151.64 |

CAPITAL EMPLOYED

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 306.40 | 315.45 | 322.13 | 315.92 | 304.37 | 320.91 | 341.23 | 357.52 | 421.38 | 478.14 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | - | - | - | - | - | - | - | - | - | - |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 306.40 | 315.45 | 322.13 | 315.92 | 304.37 | 320.91 | 341.23 | 357.52 | 421.38 | 478.14 |
| Average Capital employed | 306.40 | 310.93 | 318.79 | 319.03 | 310.15 | 312.64 | 331.07 | 349.38 | 389.45 | 449.76 |

Table No. 6.19.4 (Khed) Contd...

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 8.44 | 3.59 | 12.41 | 12.17 | 11.94 | 13.90 | 7.55 | 14.26 | 11.77 | 12.64 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 8.44 | 3.59 | 12.41 | 12.17 | 11.94 | 13.90 | 7.55 | 14.26 | 11.77 | 12.64 |
| | | | | | | | | | | |
| Non current Liabilities | 118.58 | 137.28 | 149.58 | 174.95 | 203.25 | 237.63 | 284.34 | 301.40 | 385.99 | 413.96 |

| | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total assets | 433.42 | 456.32 | 484.12 | 503.04 | 519.56 | 572.44 | 633.12 | 673.18 | 819.14 | 904.74 |
| Fixed Assets | 312.66 | 355.17 | 327.57 | 334.83 | 337.59 | 358.09 | 373.89 | 410.90 | 447.39 | 585.31 |
| Cash and Securities | 16.77 | 11.82 | 17.83 | 24.06 | 28.81 | 25.17 | 23.10 | 43.43 | 108.28 | 119.06 |
| Non current Assets | 79.56 | 65.21 | 69.11 | 74.77 | 84.29 | 121.42 | 153.18 | 153.64 | 122.78 | 107.32 |
| Current Assets | 24.43 | 24.12 | 69.61 | 69.38 | 68.87 | 67.76 | 82.95 | 65.21 | 140.69 | 93.05 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Total Expenses | 60.18 | 68.73 | 74.98 | 100.57 | 93.08 | 93.19 | 121.12 | 63.86 | 129.65 | 151.64 |
| Net surplus | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |

Table No. 6.19.5 :- Components of Financial Statements of APMC : Manchur

(Rs. In Lakhs)

| Expenditure | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Establishment Expenss | 11.81 | 12.97 | 13.11 | 15.81 | 18.71 | 18.33 | 18.47 | 12.08 | 22.78 | 35.22 |
| Meeting Expenses | 1.01 | 0.74 | 1.34 | 1.66 | 1.79 | 2.04 | 2.16 | 1.61 | 2.75 | 3.96 |
| Other Expenses | 9.25 | 14.98 | 21.04 | 25.70 | 36.79 | 28.52 | 29.94 | 30.96 | 39.71 | 64.56 |
| Total Cost | 22.07 | 28.69 | 35.49 | 43.17 | 57.29 | 48.89 | 50.57 | 44.65 | 65.24 | 103.74 |

Capital employed

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 174.35 | 206.40 | 244.35 | 281.27 | 310.83 | 354.87 | 418.93 | 454.03 | 485.54 | 546.73 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | - | - | - | - | - | - | - | - | - | - |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 174.35 | 206.40 | 244.35 | 281.27 | 310.83 | 354.87 | 418.93 | 454.03 | 485.54 | 546.73 |
| Average Capital employed | 174.34 | 190.38 | 225.38 | 262.81 | 296.05 | 332.85 | 386.90 | 436.48 | 469.79 | 516.14 |

Table No. 6.19.5 (Manchar) Contd...

(Rs. In Lakhs)

| particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 7.19 | 9.52 | 7.23 | 10.23 | 13.59 | 17.00 | 24.41 | 36.28 | 131.83 | 132.11 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 7.19 | 9.52 | 7.23 | 10.23 | 13.59 | 17.00 | 24.41 | 36.28 | 131.83 | 132.11 |
| | | | | | | | | | | |
| Non Current Liabilities | 153.92 | 162.00 | 210.24 | 203.74 | 206.05 | 227.56 | 235.30 | 236.82 | 250.45 | 271.40 |

| | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total assets | 335.46 | 377.92 | 461.82 | 495.24 | 530.47 | 599.43 | 678.64 | 727.13 | 867.82 | 950.24 |
| Fixed Assets | 220.01 | 237.12 | 266.97 | 293.17 | 358.72 | 363.91 | 381.01 | 395.02 | 548.59 | 588.50 |
| Cash and Securities | 24.01 | 9.80 | 7.34 | 20.48 | 15.72 | 27.31 | 35.72 | 22.76 | 25.87 | 59.61 |
| Non Current Assets | 86.09 | 117.65 | 170.08 | 163.02 | 136.77 | 188.72 | 241.48 | 283.60 | 266.62 | 274.26 |
| Current Assets | 5.35 | 13.35 | 17.43 | 18.57 | 19.26 | 19.49 | 20.43 | 25.75 | 26.74 | 27.87 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 37.36 | 52.12 | 61.89 | 64.81 | 70.88 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Total Expenditure | 22.07 | 28.69 | 35.49 | 43.17 | 57.29 | 48.89 | 50.57 | 44.65 | 65.24 | 103.74 |
| Net surplus | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |

Table No. 6.19.6 :- Components of Financial Statements of APMC : Nira

(Rs. In Lakhs)

| Expenses | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Establishment Expenss | 10.26 | 12.89 | 11.92 | 13.60 | 15.07 | 13.71 | 16.14 | 7.84 | 15.97 | 15.84 |
| Meeting Expenses | 0.67 | 0.61 | 0.49 | 0.56 | 0.56 | 0.59 | 0.50 | 0.36 | 0.53 | 0.57 |
| Other Expenses | 8.95 | 8.31 | 8.31 | 6.61 | 6.72 | 8.14 | 5.97 | 3.32 | 5.25 | 4.19 |
| Total Cost | 19.88 | 21.81 | 20.72 | 20.77 | 22.35 | 22.44 | 22.61 | 11.52 | 21.75 | 20.60 |

Capital employed

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 17.42 | 14.05 | 12.35 | 7.49 | 2.25 | 1.13 | (2.85) | (7.88) | 10.89 | 14.87 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | 10.08 | 17.93 | 17.96 | 18.31 | 18.31 | 18.31 | 18.31 | 18.01 | 17.94 | 17.94 |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 27.50 | 31.98 | 30.31 | 25.80 | 20.56 | 19.44 | 15.46 | 10.13 | 28.83 | 32.81 |
| Average Capital employed | 27.50 | 29.74 | 31.15 | 28.06 | 23.18 | 20.00 | 17.45 | 12.80 | 19.48 | 30.82 |

Table No. 6.19.6 (Nira) Contd...

(Rs. In Lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 44.10 | 46.28 | 46.83 | 50.17 | 49.89 | 53.15 | 56.50 | 58.27 | 23.47 | 23.32 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 44.10 | 46.28 | 46.83 | 50.17 | 49.89 | 53.15 | 56.50 | 58.27 | 23.47 | 23.32 |

| | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Non current Liabilities | 5.16 | 6.27 | 7.66 | 9.36 | 10.08 | 11.14 | 13.81 | 14.97 | 17.77 | 20.04 |
| | | | | | | | | | | |
| Total assets | 76.76 | 84.53 | 84.80 | 85.33 | 80.53 | 83.73 | 85.77 | 83.37 | 70.07 | 76.17 |
| Fixed Assets | 61.58 | 60.69 | 66.64 | 65.65 | 65.22 | 66.77 | 66.68 | 66.70 | 49.15 | 51.36 |
| Cash and Securities | 0.43 | 1.91 | 2.19 | 2.93 | 0.52 | 0.58 | 0.18 | 0.50 | 0.52 | 1.21 |
| Non current Assets | 0.51 | 0.51 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 |
| Current Assets | 14.24 | 21.42 | 15.51 | 16.29 | 14.33 | 15.92 | 18.45 | 15.71 | 19.94 | 23.14 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Total Expenses | 19.88 | 21.81 | 20.72 | 20.77 | 22.35 | 22.44 | 22.61 | 11.52 | 21.75 | 20.60 |
| Net surplus | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |

Table No. 6.19.7 :- Components of Financial Statements of APMC : Pune

(Rs. In Lakhs)

| Expenditure | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| Establishment Expenss | 311.73 | 358.76 | 493.62 | 581.31 | 604.68 | 557.28 | 686.60 | 485.76 | 839.51 | 962.94 |
| Meeting Expenses | 1.72 | 1.71 | 3.84 | - | - | - | 575.21 | - | - | - |
| Other Expenses | 503.60 | 641.03 | 720.52 | 928.67 | 633.81 | 1,076.56 | 620.00 | 287.03 | 1,625.08 | 2,241.67 |
| Total Cost | 817.05 | 1,001.50 | 1,217.98 | 1,509.98 | 1,238.49 | 1,633.84 | 1,881.81 | 772.79 | 2,464.59 | 3,204.61 |

Capital employed

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 2,120.47 | 2,361.83 | 2,781.72 | 3,411.01 | 3,789.01 | 3,581.21 | 4,201.26 | 5,657.29 | 6,658.21 | 8,119.23 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | 8.82 | 15.26 | - | - | - | - | - | - | - | - |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 2,129.29 | 2,377.09 | 2,781.72 | 3,411.01 | 3,789.01 | 3,581.21 | 4,201.26 | 5,657.29 | 6,658.21 | 8,119.23 |
| Average Capital employed | 2,129.29 | 2,253.19 | 2,579.41 | 3,096.37 | 3,600.01 | 3,685.11 | 3,891.24 | 4,929.28 | 6,157.75 | 7,388.72 |

Table No. 6.19.7 (Pune) Contd...

(Rs. In Lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 512.45 | 682.59 | 676.75 | 737.70 | 876.34 | 855.73 | 1,004.72 | 1,236.98 | 1,527.30 | 1,754.92 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 512.45 | 682.59 | 676.75 | 737.70 | 876.34 | 855.73 | 1,004.72 | 1,236.98 | 1,527.30 | 1,754.92 |
| | | | | | | | | | | |
| Non current Liabilities | 1,950.12 | 1,996.66 | 2,062.89 | 2,156.80 | 2,303.86 | 2,351.73 | 2,458.33 | 2,634.30 | 2,795.58 | 3,102.96 |

| | | | | | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Total assets | 4,591.86 | 5,056.34 | 5,521.36 | 6,305.51 | 6,969.21 | 6,788.67 | 7,664.31 | 9,528.57 | 10,981.09 | 12,977.11 |
| Fixed Assets | 2,692.70 | 3,710.70 | 3,781.23 | 3,783.65 | 3,931.05 | 3,845.16 | 4,265.57 | 4,804.96 | 6,733.87 | 7,943.20 |
| Cash and Bank Balances | 166.66 | 176.45 | 412.90 | 216.11 | 310.75 | 259.29 | 230.26 | 718.83 | 515.74 | 1,157.71 |
| Non current Assets | 1,098.50 | 661.00 | 783.87 | 1,698.87 | 2,189.17 | 2,165.18 | 2,705.43 | 3,180.86 | 3,165.16 | 3,235.16 |
| Current Assets | 634.00 | 508.19 | 543.36 | 606.88 | 538.24 | 519.04 | 463.05 | 823.92 | 566.32 | 641.04 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total Income | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 |
| Total Expenses | 817.05 | 1,001.50 | 1,217.98 | 1,509.98 | 1,238.49 | 1,633.84 | 1,881.81 | 772.79 | 2,464.59 | 3,204.61 |
| Net surplus | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 |

Table No. 6.19.8 : Components of Financial Statements of APMC : Shirur

(Rs. In Lakhs)

| Expenditure | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Establishment Expenss | 13.70 | 12.75 | 16.57 | 13.72 | 22.11 | 19.88 | 16.84 | 8.50 | 26.68 | 15.58 |
| Meeting Expenses | 2.01 | 2.55 | 3.10 | 3.32 | 2.78 | 4.37 | 3.91 | 1.37 | 3.26 | 5.20 |
| Other Expenses | 15.21 | 10.35 | 14.02 | 23.06 | 23.64 | 36.41 | 27.65 | 13.79 | 18.61 | 30.20 |
| Total Cost | 30.92 | 25.65 | 33.69 | 40.10 | 48.53 | 60.66 | 48.40 | 23.66 | 48.55 | 50.98 |

Capital employed

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|---------------|
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves and Surplus | 71.22 | 65.83 | 71.46 | 69.16 | 63.69 | 44.48 | 35.90 | 36.24 | 95.84 | 102.61 |
| Cash credit | - | - | - | - | - | - | - | - | - | - |
| Bank Loan | 12.24 | 11.95 | 11.95 | 11.94 | 8.23 | 145.03 | 75.37 | 38.57 | 38.57 | 42.88 |
| Non Trading Investments | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 83.46 | 77.78 | 83.41 | 81.10 | 71.92 | 189.51 | 111.27 | 74.81 | 134.41 | 145.49 |
| Average Capital employed | 83.46 | 80.62 | 80.60 | 82.26 | 76.51 | 130.72 | 150.39 | 93.04 | 104.61 | 139.95 |

Table No. 6.19.8 (Shirur) Contd...

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CURRENT LIABILITIES | | | | | | | | | | |
| Current Liabilities | 30.23 | 35.60 | 53.50 | 65.61 | 63.47 | 89.19 | 93.99 | 88.57 | 83.43 | 90.70 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 30.23 | 35.60 | 53.50 | 65.61 | 63.47 | 89.19 | 93.99 | 88.57 | 83.43 | 90.70 |
| | | | | | | | | | | |
| Non current Liabilities | 41.18 | 71.32 | 94.78 | 128.89 | 290.30 | 523.63 | 575.59 | 635.64 | 745.20 | 1,051.92 |

| | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Total assets | 154.87 | 184.70 | 231.69 | 275.60 | 425.69 | 802.33 | 780.85 | 799.02 | 963.04 | 1,288.11 |
| Fixed Assets | 3.50 | 4.30 | 4.16 | 4.06 | 4.23 | 22.08 | 22.41 | 21.96 | 141.15 | 311.20 |
| Cash and Securities | 2.71 | 2.55 | 2.75 | 2.68 | 13.11 | 0.91 | 4.15 | 4.72 | 0.70 | 3.70 |
| Non Current Assets | 127.91 | 158.66 | 204.50 | 246.51 | 387.70 | 756.44 | 726.98 | 744.04 | 744.12 | 894.66 |
| Current Assets | 20.75 | 19.19 | 20.28 | 22.35 | 20.65 | 22.90 | 27.31 | 28.30 | 77.07 | 78.55 |

Revenue Ratios

(Rs. In Lakhs)

| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 23.70 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Total Expenses | 30.92 | 25.65 | 33.69 | 40.10 | 48.53 | 60.66 | 48.40 | 23.66 | 48.55 | 50.98 |
| Net surplus | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |

6.8 Financial Analysis (II)

6.8.1 Introduction :

Usually, each and every business concern/firm maintain the usual annual financial statements viz. Balance sheet and Profit & Loss Account. These two financial statements are prepared on the basis of information maintained in various account books. Besides, the firm / business unit also undergoes in preparation of few financial statements which are of much use to them.

6.8.2 Meaning :

As stated above, the information of various transactions of the business firm, maintained in various account books is further utilized for preparation of various financial statements. The financial statements, thus prepared, are made use of in decision making evaluation of operational and financial efficiency of the business unit and preparation of future plan of running the business unit on most profitable lines.

In short, it incorporates the assessment of past performance and planning the future performance.

6.8.3 Utility :

The evaluation of past operations if carried out correctly, it would help the business-owner to evaluate the business unit. It would help the business owner/ Director for assessing the results of the past experience and current financial position. This would help in taking up various policy decisions with regard to investment policy. In short, it

can be said that on the basis of the financial analysis, the business owner would be able to evaluate the operational and financial efficiency of the enterprise as a whole and further, for preparation of further plan of expansion of the business concern.

6.8.4 Selective Financial Statements :

In carrying out the financial analysis, at first the suitable tabular statements have been prepared where in the information of annual income, expenses, surplus etc. have been incorporated. The financial statements tables thus prepared, were as follows.

- I) Comparative Income Statements.
- II) Comparative Balance Sheet.
- III) Common Size Balance Sheet.
- IV) Common Size Income Statements.

In each of the tabular statements, the information of eight APMCs have been incorporated. The required information in respect of two APMCs viz. Daund and Talegaon were not obtained and hence were not incorporated in the above tables.

The four tabular statements as above are given in following table numbers:

- | | |
|---------------------------|----------------------|
| i) 6.20.1 to 6.20.8, | ii) 6.21.1 to 6.21.8 |
| iii) 6.22.1 to 6.22.8 and | iv) 6.23.1 to 6.23.8 |

6.8.5 Comparative Income Statements

In order to carry out the financial analysis of the data, the first and foremost data regarding annual income, annual expenditure and annual surplus, is required. Further, it is also necessary to examine the changes in income, expense and surplus over its previous years. These changes in absolute terms do not give the correct idea about the prosperity of the APMC over the years. And so the % changes have also been worked out. Such percentage changes in income, expenses, surplus if examined in respect of their trend, it would bring out the correct financial position of the APMCs over the period of 10 years.

This has been already discussed earlier under paragraph No.6.1 to 6.4 of this chapter; on page number 136 to 190.

6.8.6 Comparative Balance Sheets

The Comparative Balance Sheet shows the various assets and liabilities of the APMCs. Such statements are prepared for each of the APMCs separately for 10 years of period. Besides, the percentages changes in values of fixed assets and liabilities from year to year have been shown in the said sheet. This is helpful in comparing, not only absolute balances from one year to the succeeding year in absolute terms but also for studying the changes in percentage terms from year to year and thus, this Comparative Balance Sheet is helpful in analyzing and evaluating the financial position of the APMC over a period of 10 years.

The comparative Balance Sheets of each of the APMCs have been shown vide Table Nos. 6.20.1 to 6.20.8.

Table No. 6.20.1 Comparative Balance Sheet for APMC : Baramati

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Fixed Assets | 193.22 | 184.81 | - | 330.76 | 380.30 | 447.69 | 578.14 | 614.09 | 694.99 | 691.13 |
| Total Fixed Assets | 193.22 | 184.81 | - | 330.76 | 330.3 | 447.69 | 578.14 | 614.09 | 694.99 | 691.13 |
| Cash & Bank Balance | 9.44 | 19.31 | - | 6.57 | 9.88 | 3.25 | 6.87 | 11.12 | 14.68 | 55.28 |
| Non current assets | 180.69 | 112.39 | - | 81.04 | 77.98 | 69.45 | 52.34 | 58.76 | 125.35 | 132.35 |
| Current Assets Loans and advances | 6.44 | 129.72 | - | 14.59 | 10.20 | 28.79 | 28.93 | 32.92 | 7.54 | 7.51 |
| Total Current Assets | 196.57 | 261.42 | - | 102.2 | 98.06 | 101.49 | 88.14 | 102.8 | 147.57 | 195.14 |
| Current Liabilities | 26.24 | 30.31 | - | 23.58 | 28.06 | 42.93 | 47.79 | 53.01 | 54.85 | 62.09 |
| Non current liabilities | 15.08 | 29.13 | - | 40.43 | 42.91 | 49.47 | 64.15 | 73.50 | 114.82 | 135.81 |
| Provisions | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 41.32 | 59.44 | - | 64.01 | 70.97 | 92.40 | 111.94 | 126.51 | 169.67 | 197.90 |
| Net working Capital | 155 | 202 | - | 38 | 27 | 9 | (24) | (24) | (22) | (3) |
| Share Capital | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 348.47 | 352.79 | - | 368.81 | 390.67 | 410.93 | 437.48 | 439.71 | 542.30 | 580.27 |
| Proprietor's Fund | 348.47 | 352.79 | - | 368.81 | 390.67 | 410.93 | 437.48 | 439.71 | 542.3 | 580.27 |
| Secured Loans | - | 34.00 | - | 0.14 | 16.72 | 45.85 | 116.86 | 150.67 | 130.59 | 108.10 |
| Total Assets | 389.79 | 446.23 | - | 432.96 | 478.36 | 549.18 | 666.28 | 716.89 | 842.56 | 886.27 |
| Cap+Total Liabilities | 389.79 | 446.23 | - | 432.96 | 478.36 | 549.18 | 666.28 | 716.89 | 842.56 | 886.27 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|---------------|---------------|------------|------------|------------|------------|---------------|----------------|--------------|-----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | (8.41) | (4.55) | - | - | - | - | 49.54 | 13.03 | 67.39 | 15.05 |
| Total Fixed Assets | (8.41) | (4.55) | - | - | - | - | 49.54 | 13.03 | 67.39 | 15.05 |
| Cash & Bank Balance | 9.87 | 51.11 | - | - | - | - | 3.31 | 33.50 | (6.63) | (204.00) |
| Non current assets | (68.30) | (60.77) | - | - | - | - | (3.06) | (3.92) | (8.53) | (12.28) |
| Current Assets Loans and advances | 123.28 | 95.04 | - | - | - | - | (4.39) | (43.04) | 18.59 | 64.57 |
| Total Current Assets | 64.85 | 85.38 | - | - | - | - | (4.14) | (13.46) | 3.43 | (151.71) |
| Current Liabilities | 4.07 | 13.43 | - | - | - | - | 4.48 | 15.97 | 14.87 | 34.64 |
| Non current liabilities | 14.05 | 48.23 | - | - | - | - | 2.48 | 5.78 | 6.56 | 13.26 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 18.12 | 61.66 | - | - | - | - | 6.96 | 21.75 | 21.43 | 47.90 |
| Net working Capital | 46.73 | 23.14 | - | - | - | - | (11.10) | (40.97) | (18.00) | (198.02) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 4.32 | 1.22 | - | - | - | - | 21.86 | 5.60 | 20.26 | 4.93 |
| Proprietor's Fund | 4.32 | 1.22 | - | - | - | - | 21.86 | 5.60 | 20.26 | 4.93 |
| Secured Loans | 34.00 | 100.00 | - | - | - | - | 16.58 | 99.16 | 29.13 | 63.53 |
| Total Assets | 56.44 | 12.65 | - | - | - | - | 45.40 | 9.49 | 70.82 | 12.90 |
| Cap+Total Liabilities | 56.44 | 12.65 | - | - | - | - | 45.40 | 9.49 | 70.82 | 12.90 |

| Particulars | Percentages | | | | | | | |
|-----------------------------------|----------------|---------------|--------------|--------------|---------------|-----------------|---------------|-----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | in 2006-07 | in 2006-07 | in 2007-08 | in 2007-08 | in 2008-09 | in 2008-09 | in 2009-10 | in 2009-10 |
| | | | | | | | | |
| Fixed Assets | 130.45 | 29.14 | 35.95 | 5.85 | 80.90 | 11.64 | (3.86) | (0.56) |
| Total Fixed Assets | 130.45 | 29.14 | 35.95 | 5.85 | 80.90 | 11.64 | (3.86) | (0.56) |
| Cash & Bank Balance | 3.62 | 111.38 | 4.25 | 38.22 | 3.56 | 24.25 | 40.60 | 73.44 |
| Non current assets | (17.11) | (24.64) | 6.42 | 10.93 | 66.59 | 53.12 | 7.00 | 5.29 |
| Current Assets Loans and advances | 0.14 | 0.49 | 3.99 | 12.12 | (25.38) | (336.60) | (0.03) | (0.40) |
| Total Current Assets | (13.35) | 87.23 | 14.66 | 61.27 | 44.77 | (259.23) | 47.57 | 78.33 |
| Current Liabilities | 4.86 | 11.32 | 5.22 | 9.85 | 1.84 | 3.35 | 7.24 | 11.66 |
| Non current liabilities | 14.68 | 29.67 | 9.35 | 12.72 | 41.32 | 35.99 | 20.99 | (135.81) |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 19.54 | 40.99 | 14.57 | 22.57 | 43.16 | 39.34 | 28.23 | (124.15) |
| Net working Capital | (32.89) | (361.83) | 0.09 | (0.38) | 1.61 | (7.29) | 19.34 | (700.72) |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | (32.89) | (8.00) | 2.23 | 0.51 | 102.59 | 18.92 | 37.97 | 6.54 |
| Proprietor's Fund | 26.55 | (8.00) | 2.23 | 0.51 | 102.59 | 18.92 | 37.97 | 6.54 |
| Secured Loans | 71.01 | 154.87 | 33.81 | 22.44 | (20.08) | (15.38) | (22.49) | (20.80) |
| Total Assets | 117.10 | 21.32 | 50.61 | 7.06 | 125.67 | 14.92 | 43.71 | 4.93 |
| Cap+Total Liabilities | 117.10 | 21.32 | 50.61 | 7.06 | 125.67 | 14.92 | 43.71 | 4.93 |

Table No. 6.20.2 :- Comparative Balance Sheet for APMC : Indapur

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------------------|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Fixed Assets | - | 224.00 | 225.91 | 228.09 | 233.25 | 236.84 | 271.26 | 280.82 | 451.59 | 640.34 |
| Total Fixed Assets | - | 224.00 | 225.91 | 228.09 | 233.25 | 236.84 | 271.26 | 280.82 | 451.59 | 640.34 |
| Cash & Bank Balance | - | 6.84 | 3.68 | 6.98 | 5.76 | 9.95 | 23.11 | 19.56 | 53.27 | 28.85 |
| Non current Assets | - | 18.15 | 64.90 | 77.49 | 126.65 | 133.09 | 106.89 | 83.70 | 95.43 | 32.99 |
| Current Assets Loans and advances | - | 9.94 | 10.66 | 15.17 | 13.60 | 39.61 | 66.02 | 119.32 | 63.04 | 70.42 |
| Total Current Assets | - | 34.93 | 79.22 | 99.64 | 146.01 | 182.65 | 196.02 | 222.58 | 211.74 | 132.26 |
| Current Liabilities | - | 3.38 | 4.54 | 5.17 | 5.42 | 6.31 | 6.97 | 5.79 | 24.37 | 41.61 |
| Non current liabilities | - | 80.42 | 125.30 | 142.65 | 177.90 | 200.47 | 226.66 | 251.24 | 355.70 | 416.45 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | - | 83.80 | 129.84 | 147.82 | 183.32 | 206.78 | 233.63 | 257.03 | 380.07 | 458.06 |
| Net working Capital | - | (48.87) | (50.62) | (48.18) | (37.31) | (24.13) | (37.61) | (34.45) | (168.33) | (325.80) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | - | 175.13 | 175.29 | 179.91 | 195.94 | 212.71 | 227.65 | 241.07 | 277.96 | 309.24 |
| Proprietor's Fund | - | 175.13 | 175.29 | 179.91 | 195.94 | 212.71 | 227.65 | 241.07 | 277.96 | 309.24 |
| Secured Loans | - | - | - | - | - | - | 6.00 | 5.30 | 5.30 | 5.30 |
| Total Assets | - | 258.93 | 305.13 | 327.73 | 379.26 | 419.49 | 467.28 | 503.40 | 663.33 | 772.60 |
| Cap+Total Liabilities | - | 258.93 | 305.13 | 327.73 | 379.26 | 419.49 | 467.28 | 503.40 | 663.33 | 772.60 |
| | - | - | - | - | - | - | - | - | - | - |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|-------------|------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | - | - | 1.91 | 0.85 | 2.18 | 0.96 | 5.16 | 2.21 | 3.59 | 1.52 |
| Total Fixed Assets | - | - | 1.91 | 0.85 | 2.18 | 0.96 | 5.16 | 2.21 | 3.59 | 1.52 |
| Cash & Bank Balance | - | - | (3.18) | (86.89) | 3.32 | 47.56 | (1.22) | (21.18) | 4.19 | 42.11 |
| Non current assets | - | - | 46.75 | 72.03 | 12.59 | 16.25 | 49.16 | 38.82 | 6.44 | 4.84 |
| Current Assets Loans and advances | - | - | 0.72 | 6.75 | 4.51 | 29.73 | (1.57) | (11.54) | 26.01 | 65.67 |
| Total Current Assets | - | - | 44.29 | (8.11) | 20.42 | 93.54 | 46.37 | 6.10 | 36.64 | 112.62 |
| Current Liabilities | - | - | 1.18 | 25.55 | 0.63 | 12.19 | 0.25 | 4.61 | 0.89 | 14.10 |
| Non current liabilities | - | - | 44.88 | 35.82 | 17.35 | 12.16 | 35.25 | 19.81 | 22.57 | 11.26 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | - | - | 46.04 | 61.37 | 17.98 | 24.35 | 35.50 | 24.42 | 23.46 | 25.36 |
| Net working Capital | - | - | (1.75) | 3.46 | 2.44 | (5.06) | 10.87 | (29.13) | 13.18 | (54.62) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | - | - | 0.16 | 0.09 | 4.62 | 2.57 | 16.03 | 8.18 | 16.77 | 7.88 |
| Proprietor's Fund | - | - | 0.16 | 0.09 | 4.62 | 2.57 | 16.03 | 8.18 | 16.77 | 7.88 |
| Secured Loans | - | - | - | - | - | - | - | - | - | - |
| Total Assets | - | - | 46.20 | 15.14 | 22.60 | 6.90 | 51.53 | 13.59 | 40.23 | 9.59 |
| Cap+Total Liabilities | - | - | 46.20 | 15.14 | 22.60 | 6.90 | 51.53 | 13.59 | 40.23 | 9.59 |

| Particulars | Percentages | | | | | | | |
|-----------------------------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|-----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 |
| Fixed Assets | 34.42 | 12.69 | 9.56 | 3.40 | 170.77 | 37.82 | 188.75 | 29.48 |
| Total Fixed Assets | 34.42 | 12.69 | 9.56 | 3.40 | 170.77 | 37.82 | 188.75 | 29.48 |
| Cash & Bank Balance | 13.18 | 56.95 | (3.55) | (18.15) | 33.71 | 63.28 | (24.42) | (84.64) |
| Non current assets | (26.20) | (24.51) | (23.19) | (27.71) | 11.73 | 12.29 | (62.44) | (189.27) |
| Current Assets Loans and advances | 26.41 | 40.00 | 53.30 | 44.67 | (56.28) | (89.28) | 7.38 | 10.48 |
| Total Current Assets | 13.37 | 72.44 | 26.56 | (1.19) | (10.84) | (13.71) | (79.48) | (263.43) |
| Current Liabilities | 0.66 | 9.47 | (1.18) | (20.38) | 18.58 | 76.24 | 17.24 | 41.43 |
| Non current liabilities | 26.19 | 11.55 | 24.58 | 9.78 | 104.46 | 29.37 | 60.75 | 14.59 |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 26.85 | 21.02 | 23.40 | (10.60) | 123.04 | 105.61 | 77.99 | 56.02 |
| Net working Capital | (13.48) | 35.84 | 3.16 | (9.17) | (133.88) | 79.53 | (157.47) | 48.33 |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | 14.94 | 6.56 | 13.42 | 5.57 | 36.89 | 13.27 | 31.28 | 10.12 |
| Proprietor's Fund | 14.94 | 6.56 | 13.42 | 5.57 | 36.89 | 13.27 | 31.28 | 10.12 |
| Secured Loans | 8.00 | - | (0.70) | - | - | - | - | - |
| Total Assets | 47.79 | 10.23 | 36.12 | 7.18 | 159.93 | 24.11 | 109.27 | 16.47 |
| Cap+Total Liabilities | 47.79 | 10.23 | 36.12 | 7.18 | 159.93 | 24.11 | 109.27 | 16.47 |

Table No. 6.20.3 :- Comparative Balance Sheet for APMC : Junnar

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|
| Fixed Assets | 339.81 | 383.28 | 393.19 | 389.13 | 396.52 | 529.55 | 598.40 | 619.10 | 613.65 | 850.62 |
| Total Fixed Assets | 339.81 | 383.28 | 393.19 | 389.13 | 396.52 | 529.55 | 598.40 | 619.10 | 613.65 | 850.62 |
| Cash & Bank Balance | 69.16 | 36.10 | 68.03 | 127.74 | 146.53 | 162.82 | 217.70 | 239.13 | 362.61 | 302.94 |
| Non current assets | 29.32 | 34.25 | 29.25 | 29.88 | 36.44 | 33.13 | 33.21 | 37.17 | 43.88 | 58.15 |
| Current Assets Loans and advances | 5.21 | 3.20 | 4.79 | 12.22 | 13.87 | 11.95 | 18.70 | 14.83 | 25.15 | 20.17 |
| Total Current Assets | 103.69 | 73.55 | 102.07 | 169.84 | 196.84 | 207.90 | 269.61 | 291.13 | 431.64 | 381.26 |
| Current Liabilities | 285.85 | 276.15 | 311.03 | 325.48 | 323.43 | 421.94 | 470.44 | 472.81 | 474.34 | 475.60 |
| Non current Liabilities | 34.37 | 39.72 | 34.35 | 35.26 | 45.30 | 50.50 | 45.43 | 49.07 | 53.16 | 67.79 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 320.22 | 315.87 | 345.38 | 360.74 | 368.73 | 472.44 | 515.87 | 521.88 | 527.50 | 543.39 |
| Net working Capital | (216.53) | (242.32) | (243.31) | (190.90) | (171.89) | (264.54) | (246.26) | (230.75) | (95.86) | (162.13) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 119.95 | 138.15 | 147.67 | 196.71 | 223.90 | 264.68 | 352.14 | 388.35 | 517.79 | 688.49 |
| Proprietor's Fund | 119.95 | 138.15 | 147.67 | 196.71 | 223.90 | 264.68 | 352.14 | 388.35 | 517.79 | 688.49 |
| Secured Loans | 3.33 | 2.81 | 2.21 | 1.52 | 0.73 | 0.33 | - | - | - | - |
| Total Assets | 443.50 | 456.83 | 495.26 | 558.97 | 593.36 | 737.45 | 868.01 | 910.23 | 1,045.29 | 1,231.88 |
| Cap+Total Liabilities | 443.50 | 456.83 | 495.26 | 558.97 | 593.36 | 737.45 | 868.01 | 910.23 | 1,045.29 | 1,231.88 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|----------------|-----------------|--------------|---------------|---------------|---------------|--------------|--------------|---------------|----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | 43.47 | 11.34 | 9.91 | 2.52 | (4.06) | (1.04) | 7.39 | 1.86 | 133.03 | 25.12 |
| Total Fixed Assets | 43.47 | 11.34 | 9.91 | 2.52 | (4.06) | (1.04) | 7.39 | 1.86 | 133.03 | 25.12 |
| Cash & Bank Balance | (33.06) | (91.58) | 31.93 | 46.94 | 59.71 | 46.74 | 18.79 | 12.82 | 16.29 | 10.00 |
| Non current Assets | 4.93 | 14.39 | (5.00) | (17.09) | 0.63 | 2.11 | 6.56 | 18.00 | (3.31) | (9.99) |
| Current Assets Loans and advances | (2.01) | (62.81) | 1.59 | 33.19 | 7.43 | 60.80 | 1.65 | 11.90 | (1.92) | (16.07) |
| Total Current Assets | (30.14) | (140.00) | 28.52 | 63.04 | 67.77 | 109.65 | 27.00 | 42.72 | 11.06 | (16.06) |
| Current Liabilities | (9.70) | (3.51) | 34.88 | 11.21 | 14.45 | 4.44 | (2.05) | (0.63) | 98.51 | 23.35 |
| Non current Liabilities | 5.35 | 13.47 | (5.37) | (15.63) | 0.91 | 2.58 | 10.04 | 22.16 | 5.20 | 10.30 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | (4.35) | 9.96 | 29.51 | (4.42) | 15.36 | 7.02 | 7.99 | 21.53 | 103.71 | 33.65 |
| Net working Capital | (25.79) | 10.64 | (0.99) | 0.41 | 52.41 | (27.45) | 19.01 | (11.06) | (92.65) | 35.02 |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 18.20 | 13.17 | 9.52 | 6.45 | 49.04 | 24.93 | 27.19 | 12.14 | 40.78 | 15.41 |
| Proprietor's Fund | 18.20 | 13.17 | 9.52 | 6.45 | 49.04 | 24.93 | 27.19 | 12.14 | 40.78 | 15.41 |
| Secured Loans | (0.52) | (18.51) | (0.60) | (27.15) | (0.69) | (45.39) | (0.79) | (108.22) | (0.40) | (121.21) |
| Total Assets | 13.33 | 2.92 | 38.43 | 7.76 | 63.71 | 11.40 | 34.39 | 5.80 | 144.09 | 19.54 |
| Cap+Total Liabilities | 13.33 | 2.92 | 38.43 | 7.76 | 63.71 | 11.40 | 34.39 | 5.80 | 144.09 | 19.54 |

| Particulars | Percentages | | | | | | | |
|-----------------------------------|---------------|---------------|--------------|---------------|---------------|---------------|----------------|----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 |
| Fixed Assets | 68.85 | 11.51 | 20.70 | 3.34 | (5.45) | (0.89) | 236.97 | 27.86 |
| Total Fixed Assets | 68.85 | 11.51 | 20.70 | 3.34 | (5.45) | (0.89) | 236.97 | 27.86 |
| Cash & Bank Balance | 54.88 | 25.21 | 21.43 | 8.96 | 123.48 | 34.05 | (59.67) | (19.70) |
| Non current Assets | 0.08 | 0.24 | 3.96 | 10.65 | 6.71 | 15.29 | 14.27 | 24.54 |
| Current Assets Loans and advances | 6.75 | 36.10 | (3.87) | (26.10) | 10.32 | 41.03 | (4.98) | (24.69) |
| Total Current Assets | 61.71 | 61.55 | 21.52 | (6.49) | 140.51 | 90.37 | (50.38) | (19.85) |
| Current Liabilities | 48.50 | 10.31 | 2.37 | 0.50 | 1.53 | 0.32 | 1.26 | 0.26 |
| Non current Liabilities | (5.07) | (11.16) | 3.64 | 7.42 | 4.09 | 7.69 | 14.63 | 21.58 |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 43.43 | (0.85) | 6.01 | 7.92 | 5.62 | 8.01 | 15.89 | 21.84 |
| Net working Capital | 19.28 | (7.42) | 15.51 | (6.72) | 134.89 | (140.72) | (66.27) | 40.87 |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | 87.46 | 24.84 | 36.21 | 9.32 | 129.44 | 25.00 | 170.70 | 24.79 |
| Proprietor's Fund | 87.46 | 24.84 | 36.21 | 9.32 | 129.44 | 25.00 | 170.70 | 24.79 |
| Secured Loans | (0.33) | - | - | - | - | - | - | - |
| Total Assets | 130.56 | 15.04 | 42.22 | 4.64 | 135.06 | 12.92 | 186.59 | 15.15 |
| Cap+Total Liabilities | 130.56 | 15.04 | 42.22 | 4.64 | 135.06 | 12.92 | 186.59 | 15.15 |

Table No. 6.20.4 :- Comparative Balance Sheet for APMC : Khed

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Fixed Assets | 312.66 | 355.17 | 327.57 | 334.83 | 337.59 | 358.09 | 373.89 | 410.90 | 447.39 | 585.31 |
| Total Fixed Assets | 312.66 | 355.17 | 327.57 | 334.83 | 337.59 | 358.09 | 373.89 | 410.90 | 447.39 | 585.31 |
| Cash & Bank Balance | 16.77 | 11.82 | 17.83 | 24.06 | 28.81 | 25.17 | 23.10 | 43.43 | 108.28 | 119.06 |
| Non current Assets | 79.56 | 65.21 | 69.11 | 74.77 | 84.29 | 121.42 | 153.18 | 153.64 | 122.78 | 107.32 |
| Current Assets Loans and | 24.43 | 24.12 | 69.61 | 69.38 | 68.87 | 67.76 | 82.95 | 65.21 | 140.69 | 93.05 |
| Total Current Assets | 120.76 | 101.15 | 156.55 | 168.21 | 181.97 | 214.35 | 259.23 | 262.28 | 371.75 | 319.43 |
| Current Liabilities | 8.44 | 3.59 | 12.41 | 12.17 | 11.94 | 13.90 | 7.55 | 14.26 | 11.77 | 12.64 |
| Non current Liabilities | 118.58 | 137.28 | 149.58 | 174.95 | 203.25 | 237.63 | 284.34 | 301.40 | 385.99 | 413.96 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 127.02 | 140.87 | 161.99 | 187.12 | 215.19 | 251.53 | 291.89 | 315.66 | 397.76 | 426.60 |
| Net working Capital | (6.26) | (39.72) | (5.44) | (18.91) | (33.22) | (37.18) | (32.66) | (53.38) | (26.01) | (107.17) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 306.40 | 315.45 | 322.13 | 315.92 | 304.37 | 320.91 | 341.23 | 357.52 | 421.38 | 478.14 |
| Proprietor's Fund | 306.40 | 315.45 | 322.13 | 315.92 | 304.37 | 320.91 | 341.23 | 357.52 | 421.38 | 478.14 |
| Secured Loans | - | - | - | - | - | - | - | - | - | - |
| Total Assets | 433.42 | 456.32 | 484.12 | 503.04 | 519.56 | 572.44 | 633.12 | 673.18 | 819.14 | 904.74 |
| Cap+Total Liabilities | 433.42 | 456.32 | 484.12 | 503.04 | 519.56 | 572.44 | 633.12 | 673.18 | 819.14 | 904.74 |

| Particulars | Percentages | | | | | | | | | |
|----------------------------------|----------------|-----------------|----------------|---------------|---------------|---------------|----------------|---------------|--------------|--------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | 42.51 | 11.97 | (27.60) | (8.43) | 7.26 | 2.17 | 2.76 | 0.82 | 20.50 | 5.72 |
| Total Fixed Assets | 42.51 | 11.97 | (27.60) | (8.43) | 7.26 | 2.17 | 2.76 | 0.82 | 20.50 | 5.72 |
| Cash & Bank Balance | (4.95) | (41.88) | 6.01 | 33.71 | 6.23 | 25.89 | 4.75 | 16.49 | (3.64) | (14.46) |
| Non current Assets | (14.35) | (22.01) | 3.90 | 5.64 | 5.66 | 7.57 | 9.52 | 11.29 | 37.13 | 30.58 |
| Current Assets Loans and | (0.31) | (1.29) | 45.49 | 65.35 | (0.23) | (0.33) | (0.51) | (0.74) | (1.11) | (1.64) |
| Total Current Assets | (19.61) | (65.18) | 55.40 | 104.70 | 11.66 | 33.13 | 13.76 | 27.04 | 32.38 | 14.48 |
| Current Liabilities | (4.85) | (135.10) | 8.82 | 71.07 | (0.24) | (1.97) | (0.23) | (1.93) | 1.96 | 14.10 |
| Non current Liabilities | 18.70 | 13.62 | 12.30 | 8.22 | 25.37 | 14.50 | 28.30 | 13.92 | 34.38 | 14.47 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 13.85 | (121.48) | 21.12 | 79.29 | 25.13 | 12.53 | 28.07 | 11.99 | 36.34 | 28.57 |
| Net working Capital | (33.46) | 84.24 | 34.28 | (630.15) | (13.47) | 71.23 | (14.31) | 43.08 | (3.96) | 10.65 |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 9.05 | 2.87 | 6.68 | 2.07 | (6.21) | (1.97) | (11.55) | (3.79) | 16.54 | 5.15 |
| Proprietor's Fund | 9.05 | 2.87 | 6.68 | 2.07 | (6.21) | (1.97) | (11.55) | (3.79) | 16.54 | 5.15 |
| Secured Loans | - | - | - | - | - | - | - | - | - | - |
| Total Assets | 22.90 | 5.02 | 27.80 | 5.74 | 18.92 | 3.76 | 16.52 | 3.18 | 52.88 | 9.24 |
| Cap+Total Liabilities | 22.90 | 5.02 | 27.80 | 5.74 | 18.92 | 3.76 | 16.52 | 3.18 | 52.88 | 9.24 |

| Particulars | Percentages | | | | | | | |
|----------------------------------|--------------|----------------|--------------|--------------|---------------|--------------|----------------|----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 |
| Fixed Assets | 15.80 | 4.23 | 37.01 | 9.01 | 36.49 | 8.16 | 137.92 | 23.56 |
| Total Fixed Assets | 15.80 | 4.23 | 37.01 | 9.01 | 36.49 | 8.16 | 137.92 | 23.56 |
| Cash & Bank Balance | (2.07) | (8.96) | 20.33 | 46.81 | 64.85 | 59.89 | 10.78 | 9.05 |
| Non current assets | 31.76 | 20.73 | 0.46 | 0.30 | (30.86) | (25.13) | (15.46) | (14.41) |
| Current Assets Loans and | 15.19 | 18.31 | (17.74) | (27.20) | 75.48 | 53.65 | (47.64) | (51.20) |
| Total Current Assets | 44.88 | 30.08 | 3.05 | 19.91 | 109.47 | 88.41 | (52.32) | (56.56) |
| Current Liabilities | (6.35) | (84.11) | 6.71 | 47.05 | (2.49) | (21.16) | 0.87 | 6.88 |
| Non current Liabilities | 46.71 | 16.43 | 17.06 | 5.66 | 84.59 | 21.92 | 27.97 | 6.76 |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 40.36 | (67.68) | 23.77 | 52.71 | 82.10 | 0.76 | 28.84 | 13.64 |
| Net working Capital | 4.52 | (13.84) | (20.72) | 38.82 | 27.37 | (105.23) | (81.16) | 75.73 |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | 20.32 | 5.95 | 16.29 | 4.56 | 63.86 | 15.15 | 56.76 | 11.87 |
| Proprietor's Fund | 20.32 | 5.95 | 16.29 | 4.56 | 63.86 | 15.15 | 56.76 | 11.87 |
| Secured Loans | - | - | - | - | - | - | - | - |
| Total Assets | 60.68 | 9.58 | 40.06 | 5.95 | 145.96 | 17.82 | 85.60 | 9.46 |
| Cap+Total Liabilities | 60.68 | 9.58 | 40.06 | 5.95 | 145.96 | 17.82 | 85.60 | 9.46 |

Table No. 6.20.5 : Comparative Balance Sheet for APMC : Manchhar

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|
| Fixed Assets | 220.01 | 237.12 | 266.97 | 293.17 | 358.72 | 363.91 | 381.01 | 395.02 | 548.59 | 588.50 |
| Total Fixed Assets | 220.01 | 237.12 | 266.97 | 293.17 | 358.72 | 363.91 | 381.01 | 395.02 | 548.59 | 588.50 |
| Cash & Bank Balance | 24.01 | 9.80 | 7.34 | 20.48 | 15.72 | 27.31 | 35.72 | 22.76 | 25.87 | 59.61 |
| Non Current Assets | 86.09 | 117.65 | 170.08 | 163.02 | 136.77 | 188.72 | 241.48 | 283.60 | 266.62 | 274.26 |
| Current Assets Loans and Advances | 5.35 | 13.35 | 17.43 | 18.57 | 19.26 | 19.49 | 20.43 | 25.75 | 26.74 | 27.87 |
| Total Current Assets | 115.45 | 140.80 | 194.85 | 202.07 | 171.75 | 235.52 | 297.63 | 332.11 | 319.23 | 361.74 |
| Current Liabilities | 7.19 | 9.52 | 7.23 | 10.23 | 13.59 | 17.00 | 24.41 | 36.28 | 131.83 | 132.11 |
| Non Current Liabilities | 153.92 | 162.00 | 210.24 | 203.74 | 206.05 | 227.56 | 235.30 | 236.82 | 250.45 | 271.40 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 161.11 | 171.52 | 217.47 | 213.97 | 219.64 | 244.56 | 259.71 | 273.10 | 382.28 | 403.51 |
| Net working Capital | (45.66) | (30.72) | (22.62) | (11.90) | (47.89) | (9.04) | 37.92 | 59.01 | (63.05) | (41.77) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 174.35 | 206.40 | 244.35 | 281.27 | 310.83 | 354.87 | 418.93 | 454.03 | 485.54 | 546.73 |
| Proprietor's Fund | 174.35 | 206.40 | 244.35 | 281.27 | 310.83 | 354.87 | 418.93 | 454.03 | 485.54 | 546.73 |
| Secured Loans | - | - | - | - | - | - | - | - | - | - |
| Total Assets | 335.46 | 377.92 | 461.82 | 495.24 | 530.47 | 599.43 | 678.64 | 727.13 | 867.82 | 950.24 |
| Cap+Total Liabilities | 335.46 | 377.92 | 461.82 | 495.24 | 530.47 | 599.43 | 678.64 | 727.13 | 867.82 | 950.24 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|--------------|----------------|---------------|----------------|--------------|--------------|----------------|----------------|--------------|--------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | 17.11 | 7.22 | 29.85 | 11.18 | 26.20 | 8.94 | 65.55 | 18.27 | 5.19 | 1.43 |
| Total Fixed Assets | 17.11 | 7.22 | 29.85 | 11.18 | 26.20 | 8.94 | 65.55 | 18.27 | 5.19 | 1.43 |
| Cash & Bank Balance | (14.21) | (145.00) | (2.46) | (33.51) | 13.14 | 64.16 | (4.76) | (30.28) | 11.59 | 42.44 |
| Non Current assets | 31.56 | 26.83 | 52.43 | 30.83 | (7.06) | (4.33) | (26.25) | (19.19) | 51.95 | 27.53 |
| Current Assets Loans and Advances | 8.00 | 59.93 | 4.08 | 23.41 | 1.14 | 6.14 | 0.69 | 3.58 | 0.23 | 1.18 |
| Total Current Assets | 25.35 | (58.24) | 54.05 | 20.73 | 7.22 | 65.97 | (30.32) | (45.89) | 63.77 | 71.15 |
| Current Liabilities | 2.33 | 24.47 | (2.29) | (31.67) | 3.00 | 29.33 | 3.36 | 24.72 | 3.41 | 20.06 |
| Non Current Liabilities | 8.08 | 4.99 | 48.24 | 22.95 | (6.50) | (3.19) | 2.31 | 1.12 | 21.51 | 9.45 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 2.33 | 24.47 | (2.29) | (31.67) | 3.00 | 29.33 | 3.36 | 24.72 | 3.41 | 20.06 |
| Net working Capital | 14.94 | (48.63) | 8.10 | (35.81) | 10.72 | (90.08) | (35.99) | 75.15 | 38.85 | (429.76) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 32.05 | 15.53 | 37.95 | 15.53 | 36.92 | 13.13 | 29.56 | 9.51 | 44.04 | 12.41 |
| Proprietor's Fund | 32.05 | 15.53 | 37.95 | 15.53 | 36.92 | 13.13 | 29.56 | 9.51 | 44.04 | 12.41 |
| Secured Loans | - | - | - | - | - | - | - | - | - | - |
| Total Assets | 42.46 | 11.24 | 83.90 | 18.17 | 33.42 | 6.75 | 35.23 | 6.64 | 68.96 | 11.50 |
| Cap+Total Liabilities | 34.38 | 9.10 | 35.66 | 7.72 | 39.92 | 8.06 | 32.92 | 6.21 | 47.45 | 7.92 |

| Particulars | Percentages | | | | | | | |
|-----------------------------------|--------------|--------------|--------------|----------------|----------------|--------------|--------------|--------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 |
| Fixed Assets | 17.10 | 4.49 | 14.01 | 3.55 | 153.57 | 27.99 | 39.91 | 6.78 |
| Total Fixed Assets | 17.10 | 4.49 | 14.01 | 3.55 | 153.57 | 27.99 | 39.91 | 6.78 |
| Cash & Bank Balance | 8.41 | 23.54 | (12.96) | (56.94) | 3.11 | 12.02 | 33.74 | 56.60 |
| Non Current Assets | 52.76 | 21.85 | 42.12 | 14.85 | (16.98) | (6.37) | 7.64 | 2.79 |
| Current Assets Loans and Advances | 0.94 | 4.60 | 5.32 | 20.66 | 0.99 | 3.70 | 1.13 | 4.05 |
| Total Current Assets | 62.11 | 49.99 | 34.48 | (21.43) | (12.88) | 9.35 | 42.51 | 63.44 |
| Current Liabilities | 7.41 | 30.36 | 11.87 | 32.72 | 95.55 | 72.48 | 0.28 | 0.21 |
| Non Current Liabilities | 7.74 | 3.29 | 1.52 | 0.64 | 13.63 | 5.44 | 20.95 | 7.72 |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 7.41 | 30.36 | 11.87 | 32.72 | 95.55 | 72.48 | 0.28 | 0.21 |
| Net working Capital | 46.96 | 123.84 | 21.09 | 35.74 | (122.06) | 193.59 | 21.28 | (50.95) |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | 64.06 | 15.29 | 35.10 | 7.73 | 31.51 | 6.49 | 61.19 | 11.19 |
| Proprietor's Fund | 64.06 | 15.29 | 35.10 | 7.73 | 31.51 | 6.49 | 61.19 | 11.19 |
| Secured Loans | - | - | - | - | - | - | - | - |
| Total Assets | 79.21 | 11.67 | 48.49 | 6.67 | 140.69 | 16.21 | 82.42 | 8.67 |
| Cap+Total Liabilities | 71.47 | 10.53 | 46.97 | 6.46 | 127.06 | 14.64 | 61.47 | 6.47 |

Table No. 6.20.6 : Comparative Balance Sheet for APMC : Nira

Amount (Rs.In lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|
| Fixed Assets | 61.58 | 60.69 | 66.64 | 65.65 | 65.22 | 66.77 | 66.68 | 66.70 | 49.15 | 51.36 |
| Total Fixed Assets | 61.58 | 60.69 | 66.64 | 65.65 | 65.22 | 66.77 | 66.68 | 66.70 | 49.15 | 51.36 |
| Cash & Bank Balance | 0.43 | 1.91 | 2.19 | 2.93 | 0.52 | 0.58 | 0.18 | 0.50 | 0.52 | 1.21 |
| Non Current Assets | 0.51 | 0.51 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 |
| Current Assets Loans and advances | 14.24 | 21.42 | 15.51 | 16.29 | 14.33 | 15.92 | 18.45 | 15.71 | 19.94 | 23.14 |
| Total Current Assets | 15.18 | 23.84 | 18.16 | 19.68 | 15.31 | 16.96 | 19.09 | 16.67 | 20.92 | 24.81 |
| Current Liabilities | 44.10 | 46.28 | 46.83 | 50.17 | 49.89 | 53.15 | 56.50 | 58.27 | 23.47 | 23.32 |
| Non current Liabilities | 5.16 | 6.27 | 7.66 | 9.36 | 10.08 | 11.14 | 13.81 | 14.97 | 17.77 | 20.04 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 49.26 | 52.55 | 54.49 | 59.53 | 59.97 | 64.29 | 70.31 | 73.24 | 41.24 | 43.36 |
| Net working Capital | (34.08) | (28.71) | (36.33) | (39.85) | (44.66) | (47.33) | (51.22) | (56.57) | (20.32) | (18.55) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 17.42 | 14.05 | 12.35 | 7.49 | 2.25 | 1.13 | (2.85) | (7.88) | 10.89 | 14.87 |
| Proprietor's Fund | 17.42 | 14.05 | 12.35 | 7.49 | 2.25 | 1.13 | (2.85) | (7.88) | 10.89 | 14.87 |
| Secured Loans | 10.08 | 17.93 | 17.96 | 18.31 | 18.31 | 18.31 | 18.31 | 18.01 | 17.94 | 17.94 |
| Total Assets | 76.76 | 84.53 | 84.80 | 85.33 | 80.53 | 83.73 | 85.77 | 83.37 | 70.07 | 76.17 |
| Cap+Total Liabilities | 76.76 | 84.53 | 84.80 | 85.33 | 80.53 | 83.73 | 85.77 | 83.37 | 70.07 | 76.17 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|-----------------|---------------|----------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | (0.89) | (1.47) | 5.95 | 8.93 | (0.99) | (1.51) | (0.43) | (0.66) | 1.55 | 2.32 |
| Total Fixed Assets | (0.89) | (1.47) | 5.95 | 8.93 | (0.99) | (1.51) | (0.43) | (0.66) | 1.55 | 2.32 |
| Cash & Bank Balance | 1.48 | 77.49 | 0.28 | 12.79 | 0.74 | 25.26 | (2.41) | (463.46) | 0.06 | 10.34 |
| Non current Assets | - | - | (0.05) | (10.87) | - | - | - | - | - | - |
| Current Assets Loans and advances | 7.18 | 33.52 | (5.91) | (38.10) | 0.78 | 4.79 | (1.96) | (13.68) | 1.59 | 9.99 |
| Total Current Assets | 8.66 | 111.01 | (5.68) | (36.18) | 1.52 | 30.05 | (4.37) | (477.14) | 1.65 | 20.33 |
| Current Liabilities | 2.18 | 4.71 | 0.55 | 1.17 | 3.34 | 6.66 | (0.28) | (0.56) | 3.26 | 6.13 |
| Non current Liabilities | 1.11 | 17.70 | 1.39 | 18.15 | 1.70 | 18.16 | 0.72 | 7.14 | 1.06 | 9.52 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 2.18 | 4.71 | 0.55 | 1.17 | 3.34 | 6.66 | (0.28) | (0.56) | 3.26 | 6.13 |
| Net working Capital | 5.37 | (18.70) | (7.62) | 20.97 | (3.52) | 8.83 | (4.81) | 10.77 | (2.67) | 5.64 |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | (3.37) | (23.99) | (1.70) | (13.77) | (4.86) | (64.89) | (5.24) | (232.89) | (1.12) | (99.12) |
| Proprietor's Fund | (3.37) | (23.99) | (1.70) | (13.77) | (4.86) | (64.89) | (5.24) | (232.89) | (1.12) | (99.12) |
| Secured Loans | 7.85 | 43.78 | 0.03 | 0.17 | 0.35 | 1.91 | - | - | - | - |
| Total Assets | 7.77 | 9.19 | 0.27 | 0.32 | 0.53 | 0.62 | (4.80) | (5.96) | 3.20 | 3.82 |
| Cap+Total Liabilities | 6.66 | 7.88 | (1.12) | (1.32) | (1.17) | (1.37) | (5.52) | (6.85) | 2.14 | 2.56 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 | In 2009-10 | In 2009-10 |
| Fixed Assets | (0.09) | (0.13) | 0.02 | 0.03 | (17.55) | (35.71) | 2.21 | 4.30 | | |
| Total Fixed Assets | (0.09) | (0.13) | 0.02 | 0.03 | (17.55) | (35.71) | 2.21 | 4.30 | | |
| Cash & Bank Balance | (0.40) | (222.22) | 0.32 | 64.00 | 0.02 | 3.85 | 0.69 | 57.02 | | |
| Non Current Assets | - | - | - | - | - | - | - | - | | |
| Current Assets Loans and advances | 2.53 | 13.71 | (2.74) | (17.44) | 4.23 | 21.21 | 3.20 | 13.83 | | |
| Total Current Assets | 2.13 | (208.51) | (2.42) | 46.56 | 4.25 | 25.06 | 3.89 | 70.85 | | |
| Current Liabilities | 3.35 | 5.93 | 1.77 | 3.04 | (34.80) | (148.27) | (0.15) | (0.64) | | |
| Non current Liabilities | 2.67 | 19.33 | 1.16 | 7.75 | 2.80 | 15.76 | 2.27 | 11.33 | | |
| Provisions | - | - | - | - | - | - | - | - | | |
| Total Current Liabilities | 3.35 | 5.93 | 1.77 | 3.04 | (34.80) | (148.27) | (0.15) | (0.64) | | |
| Net working Capital | (3.89) | 7.59 | (5.35) | 9.46 | 36.25 | (178.40) | 1.77 | (9.54) | | |
| Share Capital | - | - | - | - | - | - | - | - | | |
| Reserves | (3.98) | 139.65 | (5.03) | 63.83 | 18.77 | 172.36 | 3.98 | 26.77 | | |
| Proprietor's Fund | (3.98) | 139.65 | (5.03) | 63.83 | 18.77 | 172.36 | 3.98 | 26.77 | | |
| Secured Loans | - | - | (0.30) | (1.67) | (0.07) | (0.39) | - | - | | |
| Total Assets | 2.04 | 2.38 | (2.40) | (2.88) | (13.30) | (18.90) | 6.10 | 8.01 | | |
| Cap+Total Liabilities | (0.63) | (0.73) | (3.56) | (4.27) | (16.10) | (22.98) | 3.83 | 5.03 | | |

Table No. 6.20.7 :- Comparative Balance Sheet for APMC : Pune

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|--|----------|------------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Fixed Assets | 2,692.70 | 3,710.70 | 3,781.23 | 3,783.65 | 3,931.05 | 3,845.16 | 4,265.57 | 4,804.96 | 6,733.87 | 7,943.20 |
| Total Fixed Assets | 2,692.70 | 3,710.70 | 3,781.23 | 3,783.65 | 3,931.05 | 3,845.16 | 4,265.57 | 4,804.96 | 6,733.87 | 7,943.20 |
| Cash & Bank Balance | 166.66 | 176.45 | 412.90 | 216.11 | 310.75 | 259.29 | 230.26 | 718.83 | 515.74 | 1,157.71 |
| Non Current assets | 1,098.50 | 661.00 | 783.87 | 1,698.87 | 2,189.17 | 2,165.18 | 2,705.43 | 3,180.86 | 3,165.16 | 3,235.16 |
| Current Assets Loans and advances | 634.00 | 508.19 | 543.36 | 606.88 | 538.24 | 519.04 | 463.05 | 823.92 | 566.32 | 641.04 |
| Total Current Assets | 1,899.16 | 1,345.64 | 1,740.13 | 2,521.86 | 3,038.16 | 2,943.51 | 3,398.74 | 4,723.61 | 4,247.22 | 5,033.91 |
| Current Liabilities | 512.45 | 682.59 | 676.75 | 737.70 | 876.34 | 855.73 | 1,004.72 | 1,236.98 | 1,527.30 | 1,754.92 |
| Non Current Liabilities | 1,950.12 | 1,996.66 | 2,062.89 | 2,156.89 | 2,303.86 | 2,351.73 | 2,458.33 | 2,634.30 | 2,795.58 | 3,102.96 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 2,462.57 | 2,679.25 | 2,739.64 | 2,894.50 | 3,180.20 | 3,207.46 | 3,463.05 | 3,871.28 | 4,322.88 | 4,857.88 |
| Net working Capital | (563.41) | (1,333.61) | (999.51) | (372.64) | (142.04) | (263.95) | (64.31) | 852.33 | (75.66) | 176.03 |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 2,120.47 | 2,361.83 | 2,781.72 | 3,411.01 | 3,789.01 | 3,581.21 | 4,201.26 | 5,657.29 | 6,658.21 | 8,119.23 |
| Proprietor's Fund | 2,120.47 | 2,361.83 | 2,781.72 | 3,411.01 | 3,789.01 | 3,581.21 | 4,201.26 | 5,657.29 | 6,658.21 | 8,119.23 |
| Secured Loans | 8.82 | 15.26 | - | - | - | - | - | - | - | - |
| Total Assets | 4,591.86 | 5,056.34 | 5,521.36 | 6,305.51 | 6,969.21 | 6,788.67 | 7,664.31 | 9,528.57 | 10,981.09 | 12,977.11 |
| Cap+Total Liabilities | 4,591.86 | 5,056.34 | 5,521.36 | 6,305.51 | 6,969.21 | 6,788.67 | 7,664.31 | 9,528.57 | 10,981.09 | 12,977.11 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | 1,018.00 | 27.43 | 70.53 | 1.97 | 2.42 | 0.06 | 147.40 | 3.75 | (85.89) | (2.23) |
| Total Fixed Assets | 1,018.00 | 27.43 | 70.53 | 1.87 | 2.42 | 0.06 | 147.40 | 3.75 | (85.89) | (2.23) |
| Cash & Bank Balance | 9.79 | 5.55 | 236.45 | 57.27 | (196.79) | (91.06) | 94.64 | 30.46 | (51.46) | (19.85) |
| Non Current assets | (437.50) | (66.19) | 122.87 | 15.67 | 915.00 | 53.86 | 490.30 | 22.40 | (23.99) | (1.11) |
| Current Assets Loans and advances | (125.81) | (24.76) | 35.17 | 6.47 | 63.52 | 10.47 | (68.64) | (12.75) | (19.20) | (3.70) |
| Total Current Assets | (553.52) | (85.40) | 394.49 | 79.41 | 781.73 | (26.73) | 516.30 | 40.11 | (94.65) | (24.66) |
| Current Liabilities | 170.14 | 24.93 | (5.84) | (0.86) | 60.95 | 8.26 | 138.64 | 15.82 | (20.61) | (2.41) |
| Non current Liabilities | 46.54 | 2.33 | 66.23 | 3.21 | 93.91 | 4.35 | 147.06 | 6.38 | 47.87 | 2.04 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 170.14 | 24.93 | (5.84) | (0.86) | 60.95 | 8.26 | 138.64 | 15.82 | (20.61) | (2.41) |
| Net working Capital | (770.20) | 57.75 | 334.10 | (33.43) | 626.87 | (168.22) | 230.60 | (162.35) | (121.91) | 46.19 |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 241.36 | 10.22 | 419.89 | 15.09 | 629.29 | 18.45 | 378.00 | 9.98 | (207.80) | (5.80) |
| Proprietor's Fund | 241.36 | 10.22 | 419.89 | 15.09 | 629.29 | 18.45 | 378.00 | 9.98 | (207.80) | (5.80) |
| Secured Loans | 6.44 | 42.20 | (15.26) | - | - | - | - | - | - | - |
| Total Assets | 464.48 | 9.19 | 465.02 | 8.42 | 784.15 | 12.44 | 663.70 | 9.52 | (180.54) | (2.66) |
| Cap+Total Liabilities | 417.94 | 8.27 | 398.79 | 7.22 | 690.24 | 10.95 | 516.64 | 7.41 | (228.41) | (3.36) |

| Particulars | Percentages | | | | | | | |
|-----------------------------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|---------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 |
| Fixed Assets | 420.41 | 9.86 | 539.39 | 11.23 | 1,928.91 | 28.64 | 1,209.33 | 15.22 |
| Total Fixed Assets | 420.41 | 9.86 | 539.39 | 11.23 | 1,928.91 | 28.64 | 1,209.33 | 15.22 |
| Cash & Bank Balance | (29.03) | (12.61) | 488.57 | 67.97 | (203.09) | (39.38) | 641.97 | 55.45 |
| Non Current Assets | 540.25 | 19.97 | 475.43 | 14.95 | (15.70) | (0.50) | 70.00 | 2.16 |
| Current Assets Loans and advances | (55.99) | (12.09) | 360.87 | 43.80 | (257.60) | (45.49) | 74.72 | 11.66 |
| Total Current Assets | 455.23 | (4.73) | 1,324.87 | 126.72 | (476.39) | (85.37) | 786.69 | 69.27 |
| Current Liabilities | 148.99 | 14.83 | 232.26 | 18.78 | 290.32 | 19.01 | 227.62 | 12.97 |
| Non Current Liabilities | 106.60 | 4.34 | 175.97 | 6.68 | 161.28 | 5.77 | 307.38 | 9.91 |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 148.99 | 14.83 | 232.26 | 18.78 | 290.32 | 19.01 | 227.62 | 12.97 |
| Net working Capital | 199.84 | (310.43) | 916.64 | 107.55 | (927.99) | 1,226.53 | 251.69 | 142.98 |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | 620.05 | 14.76 | 1,456.03 | 25.74 | 1,000.92 | 15.03 | 1,461.02 | 17.99 |
| Proprietor's Fund | 620.05 | 14.76 | 1,456.03 | 25.74 | 1,000.92 | 15.03 | 1,461.02 | 17.99 |
| Secured Loans | - | - | - | - | - | - | - | - |
| Total Assets | 875.64 | 11.42 | 1,864.26 | 19.56 | 1,452.52 | 13.23 | 1,996.02 | 15.38 |
| Cap+Total Liabilities | 769.04 | 10.03 | 1,688.29 | 17.72 | 1,291.24 | 11.76 | 1,688.64 | 13.01 |

Table No. 6.20.8 :- Comparative Balance Sheet for APMC : Shirur

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Fixed Assets | 3.50 | 4.30 | 4.16 | 4.06 | 4.23 | 22.08 | 22.41 | 21.96 | 141.15 | 311.20 |
| Total Fixed Assets | 3.50 | 4.30 | 4.16 | 4.06 | 4.23 | 22.08 | 22.41 | 21.96 | 141.15 | 311.20 |
| Cash & Bank Balance | 2.71 | 2.55 | 2.75 | 2.68 | 13.11 | 0.91 | 4.15 | 4.72 | 0.70 | 3.70 |
| Non Current Assets | 127.91 | 158.66 | 204.50 | 246.51 | 387.70 | 756.44 | 726.98 | 744.04 | 744.12 | 894.66 |
| Current Assets Loans and advances | 20.75 | 19.19 | 20.28 | 22.35 | 20.65 | 22.90 | 27.31 | 28.30 | 77.07 | 78.55 |
| Total Current Assets | 151.37 | 180.40 | 227.53 | 271.54 | 421.46 | 780.25 | 758.44 | 777.06 | 821.89 | 976.91 |
| Current Liabilities | 30.23 | 35.60 | 53.50 | 65.61 | 63.47 | 89.19 | 93.99 | 88.57 | 83.43 | 90.70 |
| Non Current Liabilities | 41.18 | 71.32 | 94.78 | 128.89 | 290.30 | 523.63 | 575.59 | 635.64 | 745.20 | 1,051.92 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 71.41 | 106.92 | 148.28 | 194.50 | 353.77 | 612.82 | 669.58 | 724.21 | 828.63 | 1,142.62 |
| Net working Capital | 79.96 | 73.48 | 79.25 | 77.04 | 67.69 | 167.43 | 88.86 | 52.85 | (6.74) | (165.71) |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 71.22 | 65.83 | 71.46 | 69.16 | 63.69 | 44.48 | 35.90 | 36.24 | 95.84 | 102.61 |
| Proprietor's Fund | 71.22 | 65.83 | 71.46 | 69.16 | 63.69 | 44.48 | 35.90 | 36.24 | 95.84 | 102.61 |
| Secured Loans | 12.24 | 11.95 | 11.95 | 11.94 | 8.23 | 145.03 | 75.37 | 38.57 | 38.57 | 42.88 |
| Total Assets | 154.87 | 184.70 | 231.69 | 275.60 | 425.69 | 802.33 | 780.85 | 799.02 | 963.04 | 1,288.11 |
| Cap+Total Liabilities | 154.87 | 184.70 | 231.69 | 275.60 | 425.69 | 802.33 | 780.85 | 799.02 | 963.04 | 1,288.11 |

| Particulars | Percentages | | | | | | | | | |
|--|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2001-02 | In 2001-02 | In 2002-03 | In 2002-03 | In 2003-04 | In 2003-04 | In 2004-05 | In 2004-05 | In 2005-06 | In 2005-06 |
| Fixed Assets | 0.80 | 18.60 | (0.14) | (3.37) | (0.10) | (2.46) | 0.17 | 4.02 | 17.85 | 80.84 |
| Total Fixed Assets | 0.80 | 18.60 | (0.14) | (3.37) | (0.10) | (2.46) | 0.17 | 4.02 | 17.85 | 80.84 |
| Cash & Bank Balance | (0.16) | (6.27) | 0.20 | 7.27 | (0.07) | (2.61) | 10.43 | 79.56 | (12.20) | (1,340.66) |
| Non Current Assets | 30.75 | 19.38 | 45.84 | 22.42 | 42.01 | 17.04 | 141.19 | 36.42 | 368.74 | 48.75 |
| Current Assets Loans and advances | (1.56) | (8.13) | 1.09 | 5.37 | 2.07 | 9.26 | (1.70) | (8.23) | 2.25 | 9.83 |
| Total Current Assets | 29.03 | 4.98 | 47.13 | 35.06 | 44.01 | 23.69 | 149.92 | 107.75 | 358.79 | (1,282.08) |
| Current Liabilities | 5.37 | 15.08 | 17.90 | 33.46 | 12.11 | 18.46 | (2.14) | (3.37) | 25.72 | 28.84 |
| Non current Liabilities | 30.14 | 42.26 | 23.46 | 24.75 | 34.11 | 26.46 | 161.41 | 55.60 | 233.33 | 44.56 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 35.51 | 57.34 | 41.36 | 58.21 | 46.22 | 44.92 | 159.27 | 52.23 | 259.05 | 73.40 |
| Net working Capital | (6.48) | (8.82) | 5.77 | 7.28 | (2.21) | (2.87) | (9.35) | (13.81) | 99.74 | 59.57 |
| Share Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | (5.39) | (8.19) | 5.63 | 7.88 | (2.30) | (3.33) | (5.47) | (8.59) | (19.21) | (43.19) |
| Proprietor's Fund | (5.39) | (8.19) | 5.63 | 7.88 | (2.30) | (3.33) | (5.47) | (8.59) | (19.21) | (43.19) |
| Secured Loans | (0.29) | (2.43) | - | - | (0.01) | (0.08) | (3.71) | (45.08) | 136.80 | 94.33 |
| Total Assets | 29.83 | 16.15 | 46.99 | 20.28 | 43.91 | 15.93 | 150.09 | 35.26 | 376.64 | 46.94 |
| Cap+Total Liabilities | 29.83 | 16.15 | 46.99 | 20.28 | 43.91 | 15.93 | 150.09 | 35.26 | 376.64 | 46.94 |

| Particulars | Percentages | | | | | | | |
|-----------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|
| | Change | %Change | Change | %Change | Change | %Change | Change | %Change |
| | In 2006-07 | In 2006-07 | In 2007-08 | In 2007-08 | In 2008-09 | In 2008-09 | In 2009-10 | In 2009-10 |
| Fixed Assets | 0.33 | 1.47 | (0.45) | (2.05) | 119.19 | 84.44 | 170.05 | 54.64 |
| Total Fixed Assets | 0.33 | 1.47 | (0.45) | (2.05) | 119.19 | 84.44 | 170.05 | 54.64 |
| Cash & Bank Balance | 3.24 | 78.07 | 0.57 | 12.08 | (4.02) | (574.29) | 3.00 | 81.08 |
| Non current Assets | (29.46) | (4.05) | 17.06 | 2.29 | 0.08 | 0.01 | 150.54 | 16.83 |
| Current Assets Loans and advances | 4.41 | 16.15 | 0.99 | 3.50 | 48.77 | 63.28 | 1.48 | 1.88 |
| Total Current Assets | (21.81) | 90.17 | 18.62 | 17.87 | 44.83 | (511.00) | 155.02 | 99.79 |
| Current Liabilities | 4.80 | 5.11 | (5.42) | (6.12) | (5.14) | (6.16) | 7.27 | 8.02 |
| Non Current Liabilities | 51.96 | 9.03 | 60.05 | 9.45 | 109.56 | 14.70 | 306.72 | 29.16 |
| Provisions | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 56.76 | 14.14 | 54.63 | 3.33 | 104.42 | 8.54 | 313.99 | 37.18 |
| Net working Capital | (78.57) | (88.42) | (36.01) | (68.14) | (59.59) | 884.12 | (158.97) | 95.93 |
| Share Capital | - | - | - | - | - | - | - | - |
| Reserves | (8.58) | (23.90) | 0.34 | 0.94 | 59.60 | 62.19 | 6.77 | 6.60 |
| Proprietor's Fund | (8.58) | (23.90) | 0.34 | 0.94 | 59.60 | 62.19 | 6.77 | 6.60 |
| Secured Loans | (69.66) | (92.42) | (36.80) | - | - | - | 4.31 | - |
| Total Assets | (21.48) | (2.75) | 18.17 | 2.27 | 164.02 | 17.03 | 325.07 | 25.24 |
| Cap+Total Liabilities | (21.48) | (2.75) | 18.17 | 2.27 | 164.02 | 17.03 | 325.07 | 25.24 |

It showed the following findings.

1] APMC : Baramati :

The total current assets and the total current liabilities do not show any trend. The total current assets were better during the 1st year (2000–2001) and the last two years (2008–09 to 2009–10). As against this, the total current liabilities were better during the four years of period viz. 2006–07 to 2009–10.

2] APMC : Indapur :

The total fixed and current assets of this APMC showed fairly increasing trend and the total liabilities and proprietors fund also showed the linear increasing trend over the years.

3] APMC : Junnar :

Barring the years 2009–10, the Total Current Assets of this APMC showed a linear trend. As against this, the Total Current liabilities also showed a liner trend throughout the period of 10 years, it showed that the APMC did not face any financial difficulties and tried to keep the financial status very sound.

4] APMC : Khed :

This APMC showed the same nature as was observed in the APMC Junnar.

5] APMC : Manchar :

In case of this APMC, the total fixed and current assets and current liabilities showed increasing trend. Linear growth in proprietors fund was also observed over the ten years period.

6] APMC : Nira :

In case of this APMC, the situation of assets and liabilities seemed to be contrasting. This is because, the non-linear trend in values of total current assets showed non-linear trend while the total current liabilities showed a linear trend. It is therefore necessary for the APMC to try level best in maintaining the situation of liabilities keeping in view the situation of assets.

7] APMC : Pune :

In case of this APMC, the percentage changes in values of total current assets did not show any trend. However in absolute terms the values of fixed assets seems to have been increasing from the year 2001–02 to 2009–10. As against this the liabilities of the APMC showed perfect linear increasing trend over the period 2000–01 to 2009–10. The values in proprietors fund showed increasing trend over the period of ten years.

8] APMC : Shirur :

In case of this APMC, increasing trend in fixed assets as well as current assets were observed over period of ten years. However, in case of total current liabilities, the linear trend was observed. Proprietors fund do not showed any specific trend.

6.8.7 Common Size Balance Sheet :

In these balance sheets, the yearwise details of information in respect of total current assets, total current liabilities, total assets and total liabilities are incorporated. Besides, the percentages of items of total assets have been shown. And so also,

the percentages of the items of current liabilities etc. to total of capital + total liabilities have been shown for each of the APMCs under study separately., vide Table no. 6.21.1 to 6.21.8.

Table No. 6.21.1 :- Common Size Balance Sheet for APMC : Baramati

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|--|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Fixed Assets | 193.22 | 184.81 | - | 330.76 | 380.30 | 447.69 | 578.14 | 614.09 | 694.99 | 691.13 |
| Total Fixed Assets | 193.22 | 184.81 | - | 330.76 | 380.30 | 447.69 | 578.14 | 614.09 | 694.99 | 691.13 |
| Cash & Bank Balance | 9.44 | 19.31 | - | 6.57 | 9.88 | 3.25 | 6.87 | 11.12 | 14.68 | 55.28 |
| Non current assets | 180.69 | 112.39 | - | 81.04 | 77.98 | 69.45 | 52.34 | 58.76 | 125.35 | 132.35 |
| Current Assets Loans and advances | 6.44 | 129.72 | - | 14.59 | 10.20 | 28.79 | 28.93 | 32.92 | 7.54 | 7.51 |
| Total Current Assets | 196.57 | 261.42 | - | 102.20 | 98.06 | 101.49 | 88.14 | 102.80 | 147.57 | 195.14 |
| Current Liabilities | 26.24 | 30.31 | - | 23.58 | 28.05 | 42.93 | 47.79 | 53.01 | 54.85 | 62.09 |
| Non current liabilities | 15.08 | 29.13 | - | 40.43 | 42.91 | 49.47 | 64.15 | 73.50 | 114.82 | 135.81 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 41.32 | 59.44 | - | 64.01 | 70.97 | 92.40 | 111.94 | 126.51 | 169.67 | 197.90 |
| Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 348.47 | 352.79 | - | 368.81 | 390.67 | 410.93 | 437.48 | 439.71 | 542.30 | 580.27 |
| Proprietor's Fund | 348.47 | 352.79 | - | 368.81 | 390.67 | 410.93 | 437.48 | 439.71 | 542.30 | 580.27 |
| Secured Loans | - | 34.00 | - | 0.14 | 16.72 | 45.85 | 116.86 | 150.67 | 130.59 | 108.10 |
| Total Liabilities | - | 34.00 | - | 0.14 | 16.72 | 45.85 | 116.86 | 150.67 | 130.59 | 108.10 |
| Total Assets | 389.79 | 446.23 | - | 432.96 | 478.36 | 549.18 | 666.28 | 716.89 | 842.56 | 886.27 |
| Cap+Total Liabilities | 389.79 | 446.23 | - | 432.96 | 478.36 | 549.18 | 666.28 | 716.89 | 842.56 | 886.27 |

** Data for the year 2002-03 was not available

| Particulars | Percentages | | | | | | | | | |
|--|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 49.57 | 41.42 | - | 76.40 | 79.50 | 81.52 | 86.77 | 85.66 | 82.49 | 77.98 |
| Total Fixed Assets | 49.57 | 41.42 | - | 76.40 | 79.50 | 81.52 | 86.77 | 85.66 | 82.49 | 77.98 |
| Cash & Bank Balance | 2.42 | 4.33 | - | 1.52 | 2.07 | 0.59 | 1.03 | 1.55 | 1.74 | 6.24 |
| Non current assets | 46.36 | 25.19 | - | 18.72 | 16.30 | 12.65 | 7.86 | 8.20 | 14.88 | 14.93 |
| Current Assets Loans and advances | 1.65 | 29.07 | - | 3.37 | 2.13 | 5.24 | 4.34 | 4.59 | 0.90 | 0.85 |
| Total Current Assets | 50.43 | 58.59 | - | 23.61 | 20.50 | 18.48 | 13.23 | 14.34 | 17.52 | 22.02 |
| Current Liabilities | 6.73 | 6.79 | - | 5.45 | 5.87 | 7.82 | 7.17 | 7.39 | 6.51 | 7.01 |
| Non current liabilities | 3.87 | 6.53 | - | 9.34 | 8.97 | 9.01 | 9.63 | 10.25 | 13.63 | 15.32 |
| Provisions | - | - | - | - | - | - | - | - | - | - |
| Total Current Liabilities | 10.60 | 13.32 | - | 14.79 | 14.84 | 16.83 | 16.80 | 17.64 | 20.14 | 22.33 |
| Capital | - | - | - | - | - | - | - | - | - | - |
| Reserves | 89.40 | 79.06 | - | 85.18 | 81.67 | 74.83 | 65.66 | 61.34 | 64.36 | 65.47 |
| Proprietor's Fund | 89.40 | 79.06 | - | 85.18 | 81.67 | 74.83 | 65.66 | 61.34 | 64.36 | 65.47 |
| Secured Loans | - | 7.62 | - | 0.03 | 3.50 | 8.35 | 17.54 | 21.02 | 15.50 | 12.20 |
| Total Liabilities | - | 7.62 | - | 0.03 | 3.50 | 8.35 | 17.54 | 21.02 | 15.50 | 12.20 |
| Total Assets | 100.00 | 100.00 | - | 100.01 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Cap+Total Liabilities | 100.00 | 100.00 | - | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Table No. 6.21.2 :- Common Size Balance Sheet of APMC : Indapur

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|----------|------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|------------|
| Fixed Assets | 0 | 224 | 225.91 | 228.09 | 233.25 | 236.84 | 271.26 | 280.82 | 451.59 | 640.34 |
| Total Fixed Assets | 0 | 224 | 225.91 | 228.09 | 233.25 | 236.84 | 271.26 | 280.82 | 452 | 640 |
| Cash & Bank Balance | 0 | 6.84 | 3.66 | 6.98 | 5.76 | 9.95 | 23.11 | 19.56 | 53.27 | 28.85 |
| Non current assets | 0 | 18.15 | 64.9 | 77.49 | 126.65 | 133.09 | 106.89 | 83.7 | 95.43 | 32.99 |
| Current Assets Loans and a | 0 | 9.94 | 10.66 | 15.17 | 13.6 | 39.61 | 66.02 | 119.32 | 63.04 | 70.42 |
| Total Current Assets | 0 | 35 | 79 | 100 | 146 | 183 | 196 | 223 | 212 | 132 |
| Current Liabilities | 0 | 3.38 | 4.54 | 5.17 | 5.42 | 6.31 | 6.97 | 5.79 | 24.37 | 41.61 |
| Non current liabilities | 0 | 80.42 | 125.3 | 142.65 | 177.9 | 200.47 | 226.66 | 251.24 | 355.7 | 416.45 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 0 | 84 | 130 | 148 | 183 | 207 | 234 | 257 | 380 | 458 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 0 | 175.13 | 175.29 | 179.91 | 195.94 | 212.71 | 227.65 | 241.07 | 277.96 | 309.24 |
| Proprietor's Fund | 0 | 175 | 175 | 180 | 196 | 213 | 228 | 241 | 278 | 309 |
| Secured Loans | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5.3 | 5.3 | 5.3 |
| Total Liabilities | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 5 | 5 |
| Total Assets | 0 | 259 | 305 | 328 | 379 | 419 | 467 | 503 | 663 | 773 |
| Cap+Total Liabilities | 0 | 259 | 305 | 328 | 379 | 419 | 467 | 503 | 663 | 773 |

| | <i>Percentages</i> | | | | | | | | | |
|----------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 0 | 86.51 | 74.04 | 69.6 | 61.5 | 56.46 | 58.05 | 55.78 | 68.08 | 82.88 |
| Total Fixed Assets | 0 | 86.51 | 74.04 | 69.6 | 61.5 | 56.46 | 58.05 | 55.78 | 68.08 | 82.88 |
| Cash & Bank Balance | 0 | 2.64 | 1.2 | 2.13 | 1.52 | 2.37 | 4.95 | 3.89 | 8.03 | 3.73 |
| Current Assets Loans and a | 0 | 3.84 | 3.49 | 4.63 | 3.59 | 9.44 | 14.13 | 23.7 | 9.5 | 9.11 |
| Total Current Assets | 0 | 6.48 | 4.69 | 6.76 | 5.11 | 11.81 | 19.08 | 27.59 | 17.53 | 12.84 |
| Current Liabilities | 0 | 1.31 | 1.49 | 1.58 | 1.43 | 1.5 | 1.49 | 1.15 | 3.67 | 5.39 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 0.00 | 1.31 | 1.49 | 1.58 | 1.43 | 1.50 | 1.49 | 1.15 | 3.67 | 5.39 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 0 | 67.64 | 57.45 | 54.9 | 51.66 | 50.71 | 48.72 | 47.89 | 41.9 | 40.03 |
| Proprietor's Fund | 0.00 | 67.64 | 57.45 | 54.90 | 51.66 | 50.71 | 48.72 | 47.89 | 41.90 | 40.03 |
| Secured Loans | 0 | 0 | 0 | 0 | 0 | 0 | 1.28 | 1.05 | 0.8 | 0.69 |
| Total Liabilities | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 1.05 | 0.80 | 0.69 |
| Total Assets | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 0 | 69 | 59 | 57 | 53 | 52 | 52 | 50 | 46 | 46 |

Table No. 6.21.3 : Common Size Balance Sheet of APMC : Junnar

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|
| Fixed Assets | 339.81 | 383.28 | 393.19 | 389.13 | 396.52 | 529.55 | 598.4 | 619.1 | 613.65 | 850.62 |
| Total Fixed Assets | 339.81 | 383.28 | 393.19 | 389.13 | 396.52 | 529.55 | 598.4 | 619.1 | 614 | 851 |
| Cash & Bank Balance | 69.16 | 36.1 | 68.03 | 127.74 | 146.53 | 162.82 | 217.7 | 239.13 | 362.61 | 302.94 |
| Non current assets | 29.32 | 34.25 | 29.25 | 29.88 | 36.44 | 33.13 | 33.21 | 37.17 | 43.88 | 58.15 |
| Current Assets Loans and advance | 5.21 | 3.2 | 4.79 | 12.22 | 13.87 | 11.95 | 18.7 | 14.83 | 25.15 | 20.17 |
| Total Current Assets | 104 | 74 | 102 | 170 | 197 | 208 | 270 | 291 | 432 | 381 |
| Current Liabilities | 285.85 | 276.15 | 311.03 | 325.48 | 323.43 | 421.94 | 470.44 | 472.81 | 474.34 | 475.6 |
| Non current Liabilities | 34.37 | 39.72 | 34.35 | 35.26 | 45.3 | 50.5 | 45.43 | 49.07 | 53.16 | 67.79 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 320 | 316 | 345 | 361 | 369 | 472 | 516 | 522 | 528 | 543 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 119.95 | 138.15 | 147.67 | 196.71 | 223.9 | 264.68 | 352.14 | 388.35 | 517.79 | 688.49 |
| Proprietor's Fund | 120 | 138 | 148 | 197 | 224 | 265 | 352 | 388 | 518 | 688 |
| Secured Loans | 3.33 | 2.81 | 2.21 | 1.52 | 0.73 | 0.33 | 0 | 0 | 0 | 0 |
| Total Liabilities | 3 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Total Assets | 444 | 457 | 495 | 559 | 593 | 737 | 868 | 910 | 1045 | 1232 |
| Cap+Total Liabilities | 444 | 457 | 495 | 559 | 593 | 737 | 868 | 910 | 1045 | 1232 |

| | Percentages | | | | | | | | | |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 76.62 | 83.9 | 79.39 | 69.62 | 66.83 | 71.81 | 68.94 | 68.02 | 58.71 | 69.05 |
| Total Fixed Assets | 76.62 | 83.9 | 79.39 | 69.62 | 66.83 | 71.81 | 68.94 | 68.02 | 58.71 | 69.05 |
| Cash & Bank Balance | 15.59 | 7.9 | 13.74 | 22.85 | 24.69 | 22.08 | 25.08 | 26.27 | 34.69 | 24.59 |
| Non current Assets | 6.61 | 7.5 | 5.91 | 5.35 | 6.14 | 4.49 | 3.83 | 4.08 | 4.2 | 4.72 |
| Current Assets Loans and advance | 1.17 | 0.7 | 0.97 | 2.19 | 2.34 | 1.62 | 2.15 | 1.63 | 2.41 | 1.64 |
| Total Current Assets | 23.37 | 16.1 | 20.62 | 30.39 | 33.17 | 28.19 | 31.06 | 31.98 | 41.3 | 30.95 |
| Current Liabilities | 64.45 | 60.45 | 62.8 | 58.23 | 54.51 | 57.22 | 54.2 | 51.94 | 45.38 | 38.61 |
| Non current Liabilities | 7.75 | 8.69 | 6.94 | 6.31 | 7.63 | 6.85 | 5.23 | 5.39 | 5.09 | 5.5 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 72.20 | 69.14 | 69.74 | 64.54 | 62.14 | 64.07 | 59.43 | 57.33 | 50.47 | 44.11 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 27.05 | 30.24 | 29.82 | 35.19 | 37.73 | 35.89 | 40.57 | 42.67 | 49.54 | 55.89 |
| Proprietor's Fund | 27.05 | 30.24 | 29.82 | 35.19 | 37.73 | 35.89 | 40.57 | 42.67 | 49.54 | 55.89 |
| Secured Loans | 0.75 | 0.62 | 0.45 | 0.27 | 0.12 | 0.04 | 0 | 0 | 0 | 0 |
| Total Liabilities | 0.75 | 0.62 | 0.45 | 0.27 | 0.12 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Assets | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table No. 6.21.4 :- Common Size Balance Sheet of APMC : Khed

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|------------|------------|
| Fixed Assets | 312.66 | 355.17 | 327.57 | 334.83 | 337.59 | 358.09 | 373.89 | 410.9 | 447.39 | 585.31 |
| Total Fixed Assets | 312.66 | 355.17 | 327.57 | 334.83 | 337.59 | 358.09 | 373.89 | 410.9 | 447 | 585 |
| Cash & Bank Balance | 16.77 | 11.82 | 17.83 | 24.06 | 28.81 | 25.17 | 23.1 | 43.43 | 108.28 | 119.06 |
| Non current Assets | 79.56 | 65.21 | 69.11 | 74.77 | 84.29 | 121.42 | 153.18 | 153.64 | 122.78 | 107.32 |
| Current Assets Loans and advances | 24.43 | 24.12 | 69.61 | 69.38 | 68.87 | 67.76 | 82.95 | 65.21 | 140.69 | 93.05 |
| Total Current Assets | 121 | 101 | 157 | 168 | 182 | 214 | 259 | 262 | 372 | 319 |
| Current Liabilities | 8.44 | 3.59 | 12.41 | 12.17 | 11.94 | 13.9 | 7.55 | 14.26 | 11.77 | 12.64 |
| Non current Liabilities | 118.58 | 137.28 | 149.58 | 174.95 | 203.25 | 237.63 | 284.34 | 301.4 | 385.99 | 413.96 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 127 | 141 | 162 | 187 | 215 | 252 | 292 | 316 | 398 | 427 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 306.4 | 315.45 | 322.13 | 315.92 | 304.37 | 320.91 | 341.23 | 357.52 | 421.38 | 478.14 |
| Proprietor's Fund | 306 | 315 | 322 | 316 | 304 | 321 | 341 | 358 | 421 | 478 |
| Secured Loans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Liabilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Assets | 433 | 456 | 484 | 503 | 520 | 572 | 633 | 673 | 819 | 905 |
| Cap+Total Liabilities | 433 | 456 | 484 | 503 | 520 | 572 | 633 | 673 | 819 | 905 |

| | Percentages | | | | | | | | | |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 72.14 | 77.83 | 67.66 | 66.56 | 64.98 | 62.56 | 59.06 | 61.04 | 54.62 | 64.69 |
| Total Fixed Assets | 72.14 | 77.83 | 67.66 | 66.56 | 64.98 | 62.56 | 59.06 | 61.04 | 54.62 | 64.69 |
| Cash & Bank Balance | 3.87 | 2.59 | 3.68 | 4.78 | 5.55 | 4.4 | 3.65 | 6.45 | 13.22 | 13.16 |
| Non current assets | 18.36 | 14.29 | 14.28 | 14.86 | 16.22 | 21.21 | 24.19 | 22.82 | 14.99 | 11.86 |
| Current Assets Loans and advances | 5.64 | 5.29 | 14.38 | 13.79 | 13.26 | 11.84 | 13.1 | 9.69 | 17.18 | 10.28 |
| Total Current Assets | 27.87 | 22.17 | 32.34 | 33.43 | 35.03 | 37.45 | 40.94 | 38.96 | 45.39 | 35.3 |
| Current Liabilities | 1.95 | 0.79 | 2.56 | 2.42 | 2.3 | 2.43 | 1.19 | 2.12 | 1.44 | 1.4 |
| Non current Liabilities | 27.36 | 30.08 | 30.9 | 34.78 | 39.12 | 41.51 | 44.91 | 44.77 | 47.12 | 45.75 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 29.31 | 30.87 | 33.46 | 37.20 | 41.42 | 43.94 | 46.10 | 46.89 | 48.56 | 47.15 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 70.69 | 69.13 | 66.54 | 62.8 | 58.58 | 56.06 | 53.9 | 53.11 | 51.44 | 52.85 |
| Proprietor's Fund | 70.69 | 69.13 | 66.54 | 62.80 | 58.58 | 56.06 | 53.90 | 53.11 | 51.44 | 52.85 |
| Secured Loans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Liabilities | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Assets | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table No. 6.21.5 :- Common Size Balance Sheet of APMC : Manchur

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|------------|
| Fixed Assets | 220.01 | 237.12 | 266.97 | 293.17 | 358.72 | 363.91 | 381.01 | 395.02 | 548.59 | 588.5 |
| Total Fixed Assets | 220.01 | 237.12 | 266.97 | 293.17 | 358.72 | 363.91 | 381.01 | 395.02 | 549 | 589 |
| Cash & Bank Balance | 24.01 | 9.8 | 7.34 | 20.48 | 15.72 | 27.31 | 35.72 | 22.76 | 25.87 | 59.61 |
| Non current Assets | 86.09 | 117.65 | 170.08 | 163.02 | 136.77 | 188.72 | 241.48 | 283.6 | 266.62 | 274.26 |
| Current Assets Loans and a | 5.35 | 13.35 | 17.43 | 18.57 | 19.26 | 19.49 | 20.43 | 25.75 | 26.74 | 27.87 |
| Total Current Assets | 115 | 141 | 195 | 202 | 172 | 236 | 298 | 332 | 319 | 362 |
| Current Liabilities | 7.19 | 9.52 | 7.23 | 10.23 | 13.59 | 17 | 24.41 | 36.28 | 131.83 | 132.11 |
| Non Current Liabilities | 153.92 | 162 | 210.24 | 203.74 | 206.05 | 227.56 | 235.3 | 236.82 | 250.45 | 271.4 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 161 | 172 | 217 | 214 | 220 | 245 | 260 | 273 | 382 | 404 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 174.35 | 206.4 | 244.35 | 281.27 | 310.83 | 354.87 | 418.93 | 454.03 | 485.54 | 546.73 |
| Proprietor's Fund | 174 | 206 | 244 | 281 | 311 | 355 | 419 | 454 | 486 | 547 |
| Secured Loans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Liabilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Assets | 335 | 378 | 462 | 495 | 530 | 599 | 679 | 727 | 868 | 950 |
| Cap+Total Liabilities | 335 | 378 | 462 | 495 | 530 | 599 | 679 | 727 | 868 | 950 |

| | Percentages | | | | | | | | | |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 65.58 | 62.74 | 57.81 | 59.2 | 67.62 | 60.71 | 56.14 | 54.33 | 63.21 | 61.93 |
| Total Fixed Assets | 65.58 | 62.74 | 57.81 | 59.2 | 67.62 | 60.71 | 56.14 | 54.33 | 63.21 | 61.93 |
| Cash & Bank Balance | 7.16 | 2.59 | 1.59 | 4.14 | 2.96 | 4.56 | 5.26 | 3.13 | 2.98 | 6.27 |
| Non Current Assets | 25.66 | 31.13 | 36.83 | 32.92 | 25.78 | 31.48 | 35.58 | 39 | 30.72 | 28.86 |
| Current Assets Loans and a | 1.59 | 3.53 | 3.77 | 3.75 | 3.63 | 3.25 | 3.01 | 3.54 | 3.08 | 2.93 |
| Total Current Assets | 34.41 | 37.25 | 42.19 | 40.81 | 32.37 | 39.29 | 43.85 | 45.67 | 36.78 | 38.06 |
| Current Liabilities | 2.14 | 2.52 | 1.57 | 2.07 | 2.56 | 2.84 | 3.6 | 4.99 | 15.19 | 13.9 |
| non current Liabilities | 45.88 | 42.87 | 45.52 | 41.14 | 38.84 | 37.96 | 34.67 | 32.57 | 28.86 | 28.56 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 48.02 | 45.39 | 47.09 | 43.21 | 41.40 | 40.80 | 38.27 | 37.56 | 44.05 | 42.46 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 51.97 | 54.61 | 52.91 | 56.79 | 58.6 | 59.2 | 61.73 | 62.44 | 55.95 | 57.54 |
| Proprietor's Fund | 51.97 | 54.61 | 52.91 | 56.79 | 58.60 | 59.20 | 61.73 | 62.44 | 55.95 | 57.54 |
| Secured Loans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Liabilities | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Assets | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table No. 6.21.6 :- Common Size Balance Sheet of APMC : Nira

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------|-----------|
| Fixed Assets | 61.58 | 60.69 | 66.64 | 65.65 | 65.22 | 66.77 | 66.68 | 66.7 | 49.15 | 51.36 |
| Total Fixed Assets | 61.58 | 60.69 | 66.64 | 65.65 | 65.22 | 66.77 | 66.68 | 66.7 | 49 | 51 |
| Cash & Bank Balance | 0.43 | 1.91 | 2.19 | 2.93 | 0.52 | 0.58 | 0.18 | 0.5 | 0.52 | 1.21 |
| Non current Assets | 0.51 | 0.51 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 |
| Current Assets Loans and a | 14.24 | 21.42 | 15.51 | 16.29 | 14.33 | 15.92 | 18.45 | 15.71 | 19.94 | 23.14 |
| Total Current Assets | 15 | 24 | 18 | 20 | 15 | 17 | 19 | 17 | 21 | 25 |
| Current Liabilities | 44.1 | 46.28 | 46.83 | 50.17 | 49.89 | 53.15 | 56.5 | 58.27 | 23.47 | 23.32 |
| Non Current Liabilities | 5.16 | 6.27 | 7.66 | 9.36 | 10.08 | 11.14 | 13.81 | 14.97 | 17.77 | 20.04 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 49 | 53 | 54 | 60 | 60 | 64 | 70 | 73 | 41 | 43 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 17.42 | 14.05 | 12.35 | 7.49 | 2.25 | 1.13 | -2.85 | -7.88 | 10.89 | 14.87 |
| Proprietor's Fund | 17 | 14 | 12 | 7 | 2 | 1 | -3 | -8 | 11 | 15 |
| Secured Loans | 10.08 | 17.93 | 17.96 | 18.31 | 18.31 | 18.31 | 18.31 | 18.01 | 17.94 | 17.94 |
| Total Liabilities | 10 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Total Assets | 77 | 85 | 85 | 85 | 81 | 84 | 86 | 83 | 70 | 76 |
| Cap+Total Liabilities | 77 | 85 | 85 | 85 | 81 | 84 | 86 | 83 | 70 | 76 |

| | Percentages | | | | | | | | | |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 80.22 | 71.8 | 78.58 | 76.94 | 80.99 | 79.74 | 77.74 | 80 | 70.14 | 67.43 |
| Total Fixed Assets | 80.22 | 71.8 | 78.58 | 76.94 | 80.99 | 79.74 | 77.74 | 80 | 70.14 | 67.43 |
| Cash & Bank Balance | 0.56 | 2.26 | 2.58 | 3.43 | 0.65 | 0.69 | 0.21 | 0.6 | 0.74 | 1.59 |
| Non current assets | 0.66 | 0.6 | 0.54 | 0.54 | 0.57 | 0.55 | 0.54 | 0.55 | 0.66 | 0.6 |
| Current Assets Loans and a | 18.55 | 25.34 | 18.29 | 19.09 | 17.79 | 19.01 | 21.51 | 18.84 | 28.46 | 30.38 |
| Total Current Assets | 19.77 | 28.2 | 21.41 | 23.06 | 19.01 | 20.25 | 22.26 | 19.99 | 29.86 | 32.57 |
| Current Liabilities | 57.45 | 54.75 | 55.22 | 58.8 | 61.95 | 63.48 | 65.87 | 69.89 | 33.5 | 30.62 |
| Non Current Liabilities | 6.72 | 7.42 | 9.03 | 10.97 | 12.52 | 13.3 | 16.1 | 17.96 | 25.36 | 26.31 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 64.17 | 62.17 | 64.25 | 69.77 | 74.47 | 76.78 | 81.97 | 87.85 | 58.86 | 56.93 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 22.69 | 16.62 | 14.56 | 8.78 | 2.79 | 1.35 | -3.32 | -9.45 | 15.54 | 19.52 |
| Proprietor's Fund | 22.69 | 16.62 | 14.56 | 8.78 | 2.79 | 1.35 | -3.32 | -9.45 | 15.54 | 19.52 |
| Secured Loans | 13.13 | 21.21 | 21.18 | 21.46 | 22.74 | 21.87 | 21.35 | 21.6 | 25.6 | 23.55 |
| Total Liabilities | 13.13 | 21.21 | 21.18 | 21.46 | 22.74 | 21.87 | 21.35 | 21.60 | 25.60 | 23.55 |
| Total Assets | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table No. 6.21.7 : Common Size Balance Sheet of APMC : Pune

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|
| Fixed Assets | 2692.7 | 3710.7 | 3781.23 | 3783.65 | 3931.05 | 3845.16 | 4265.57 | 4804.96 | 6733.87 | 7943.2 |
| Total Fixed Assets | 2692.7 | 3710.7 | 3781.23 | 3783.65 | 3931.05 | 3845.16 | 4265.57 | 4804.96 | 6734 | 7943 |
| Cash & Bank Balance | 166.66 | 176.45 | 412.9 | 216.11 | 310.75 | 259.29 | 230.26 | 718.83 | 515.74 | 1157.71 |
| Non Current assets | 1098.5 | 661 | 783.87 | 1698.87 | 2189.17 | 2165.18 | 2705.43 | 3180.86 | 3165.16 | 3235.16 |
| Current Assets Loans and a | 634 | 508.19 | 543.36 | 606.88 | 538.24 | 519.04 | 463.05 | 823.92 | 566.32 | 641.04 |
| Total Current Assets | 1899 | 1346 | 1740 | 2522 | 3038 | 2944 | 3399 | 4724 | 4247 | 5034 |
| Current Liabilities | 512.45 | 682.59 | 676.75 | 737.7 | 876.34 | 855.73 | 1004.72 | 1236.98 | 1527.3 | 1754.92 |
| Non Current Liabilities | 1950.12 | 1996.66 | 2062.89 | 2156.8 | 2303.86 | 2351.73 | 2458.33 | 2634.3 | 2795.58 | 3102.96 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 2463 | 2679 | 2740 | 2895 | 3180 | 3207 | 3463 | 3871 | 4323 | 4858 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 2120.47 | 2361.83 | 2781.72 | 3411.01 | 3789.01 | 3581.21 | 4201.26 | 5657.29 | 6658.21 | 8119.23 |
| Proprietor's Fund | 2120 | 2362 | 2782 | 3411 | 3789 | 3581 | 4201 | 5657 | 6658 | 8119 |
| Secured Loans | 8.82 | 15.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Liabilities | 9 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Assets | 4592 | 5056 | 5521 | 6306 | 6969 | 6789 | 7664 | 9529 | 10981 | 12977 |
| Cap+Total Liabilities | 4592 | 5056 | 5521 | 6306 | 6969 | 6789 | 7664 | 9529 | 10981 | 12977 |

| | Percentages | | | | | | | | | |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 58.64 | 73.39 | 68.48 | 60.01 | 56.41 | 56.64 | 55.65 | 50.43 | 61.32 | 61.21 |
| Total Fixed Assets | 58.64 | 73.39 | 68.48 | 60.01 | 56.41 | 56.64 | 55.65 | 50.43 | 61.32 | 61.21 |
| Cash & Bank Balance | 3.63 | 3.49 | 7.48 | 3.43 | 4.46 | 3.82 | 3 | 7.54 | 4.7 | 8.92 |
| Non Current Assets | 23.92 | 13.07 | 14.2 | 26.94 | 31.41 | 31.89 | 35.3 | 33.38 | 28.82 | 24.93 |
| Current Assets | 13.81 | 10.05 | 9.84 | 9.62 | 7.72 | 7.65 | 6.04 | 8.65 | 5.16 | 4.94 |
| Total Current Assets | 41.36 | 26.61 | 31.52 | 39.99 | 43.59 | 43.36 | 44.34 | 49.57 | 38.68 | 38.79 |
| Current Liabilities | 11.16 | 13.5 | 12.26 | 11.7 | 12.57 | 12.61 | 13.11 | 12.98 | 13.91 | 13.52 |
| Non current Liabilities | 42.47 | 39.49 | 37.36 | 34.21 | 33.06 | 34.64 | 32.08 | 27.65 | 25.46 | 23.91 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 53.63 | 52.99 | 49.62 | 45.91 | 45.63 | 47.25 | 45.19 | 40.63 | 39.37 | 37.43 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 46.18 | 46.71 | 50.38 | 54.1 | 54.37 | 52.75 | 54.82 | 59.37 | 60.63 | 62.57 |
| Proprietor's Fund | 46.18 | 46.71 | 50.38 | 54.10 | 54.37 | 52.75 | 54.82 | 59.37 | 60.63 | 62.57 |
| Secured Loans | 0.19 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Liabilities | 0.19 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Assets | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table No. 6.21.8 :- Common Size Balance Sheet of APMC : Shirur

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------------------------|------------|------------|-------------|-------------|-------------|--------------|--------------|--------------|------------|-------------|
| Fixed Assets | 3.5 | 4.3 | 4.16 | 4.06 | 4.23 | 22.08 | 22.41 | 21.96 | 141.15 | 311.2 |
| Total Fixed Assets | 3.5 | 4.3 | 4.16 | 4.06 | 4.23 | 22.08 | 22.41 | 21.96 | 141 | 311 |
| Cash & Bank Balance | 2.71 | 2.55 | 2.75 | 2.68 | 13.11 | 0.91 | 4.15 | 4.72 | 0.7 | 3.7 |
| Non Current Assets | 127.91 | 158.66 | 204.5 | 246.51 | 387.7 | 756.44 | 726.98 | 744.04 | 744.12 | 894.66 |
| Current Assets Loans and a | 20.75 | 19.19 | 20.28 | 22.35 | 20.65 | 22.9 | 27.31 | 28.3 | 77.07 | 78.55 |
| Total Current Assets | 151 | 180 | 228 | 272 | 421 | 780 | 758 | 777 | 822 | 977 |
| Current Liabilities | 30.23 | 35.6 | 53.5 | 65.61 | 63.47 | 89.19 | 93.99 | 88.57 | 83.43 | 90.7 |
| Non current Liabilities | 41.18 | 71.32 | 94.78 | 128.89 | 290.3 | 523.63 | 575.59 | 635.64 | 745.2 | 1051.92 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 71 | 107 | 148 | 195 | 354 | 613 | 670 | 724 | 829 | 1143 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 71.22 | 65.83 | 71.46 | 69.16 | 63.69 | 44.48 | 35.9 | 36.24 | 95.84 | 102.61 |
| Proprietor's Fund | 71 | 66 | 71 | 69 | 64 | 44 | 36 | 36 | 96 | 103 |
| Secured Loans | 12.24 | 11.95 | 11.95 | 11.94 | 8.23 | 145.03 | 75.37 | 38.57 | 38.57 | 42.88 |
| Total Liabilities | 12 | 12 | 12 | 12 | 8 | 145 | 75 | 39 | 39 | 43 |
| Total Assets | 155 | 185 | 232 | 276 | 426 | 802 | 781 | 799 | 963 | 1288 |
| Cap+Total Liabilities | 155 | 185 | 232 | 276 | 426 | 802 | 781 | 799 | 963 | 1288 |

| Percentages | | | | | | | | | | |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Fixed Assets | 2.26 | 2.33 | 1.8 | 1.47 | 0.99 | 2.75 | 2.87 | 2.75 | 14.66 | 24.16 |
| Total Fixed Assets | 2.26 | 2.33 | 1.8 | 1.47 | 0.99 | 2.75 | 2.87 | 2.75 | 14.66 | 24.16 |
| Cash & Bank Balance | 1.75 | 1.38 | 1.19 | 0.97 | 3.08 | 0.11 | 0.53 | 0.59 | 0.07 | 0.29 |
| Non current assets | 82.59 | 85.9 | 88.26 | 89.44 | 91.08 | 94.28 | 93.1 | 93.12 | 77.27 | 69.46 |
| Current Assets Loans and a | 13.4 | 10.39 | 8.75 | 8.11 | 4.85 | 2.85 | 3.5 | 3.54 | 8 | 6.1 |
| Total Current Assets | 97.74 | 97.67 | 98.2 | 98.52 | 99.01 | 97.24 | 97.13 | 97.25 | 85.34 | 75.85 |
| Current Liabilities | 19.52 | 19.27 | 23.09 | 23.81 | 14.91 | 11.12 | 12.04 | 11.08 | 8.66 | 7.04 |
| Non current liabilities | 26.59 | 38.61 | 40.91 | 46.77 | 68.2 | 65.26 | 73.71 | 79.55 | 77.38 | 81.66 |
| Provisions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Current Liabilities | 46.11 | 57.88 | 64.00 | 70.58 | 83.11 | 76.38 | 85.75 | 90.63 | 86.04 | 88.70 |
| Capital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reserves | 45.99 | 35.64 | 30.84 | 25.09 | 14.96 | 5.54 | 4.6 | 4.54 | 9.95 | 7.97 |
| Proprietor's Fund | 45.99 | 35.64 | 30.84 | 25.09 | 14.96 | 5.54 | 4.60 | 4.54 | 9.95 | 7.97 |
| Secured Loans | 7.9 | 6.47 | 5.16 | 4.33 | 1.93 | 18.08 | 9.65 | 4.83 | 4.01 | 3.33 |
| Total Liabilities | 7.90 | 6.47 | 5.16 | 4.33 | 1.93 | 18.08 | 9.65 | 4.83 | 4.01 | 3.33 |
| Total Assets | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cap+Total Liabilities | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

6.8.8 Common Size Income Statements :

In these statements, the summary of yearwise income, expenditure and surplus is given in respect of 10 years. Besides, the information on total expenses and the surplus in percentages (expressed in percentages to total income) have been given. This gives the trend of expenses and the surplus keeping in view the total income for each year. The situation of the selected APMCs in this regard is as per the table number 6.22.1 to 6.22.8.

Trend Percentage Analysis : The trend analysis in respect of Income, Expenditure and Surplus was carried out by considering the first year (2000-01) as base year. This percentage change for the succeeding years have been worked out in respect of 8 APMCs separately and these statements have been shown separately vide Table number 6.23.1 to 6.23.8. These statements showed the following observations -

APMC Baramati and Nira – No specific trend was observed in all the three aspects viz. Income, Expenditure and Surplus.

APMC Indapur and Junnar – All the three aspects viz. Income, Expenditure and Surplus showed fairly increasing trend.

APMC Khead – Barring the year 2004-05, the increasing trend was observed in Income of APMC While the trend in respect of expenditure and surplus was not specific.

APMC Manchar – Barring the year 2007-08, and 2008-09 the trend of Income and Surplus was observed to be increasing while that of Expenditure the trend found to be straight was increasing.

APMC Pune – Barring the year 2007-08, the increasing trend was observed in Income while no specific trend was observed in expenditure and surplus.

APMC Shirur – Barring the year 2007-08, the trend in Income and Expenditure was slowly increased while no such trend was observed in respect of surplus.

Table No. 6.22.1 :- Common Size Income Statement of APMLC : Baramati

| Particulars | Amount (Rs.in lakhs) | | | | | | | | | |
|-----------------------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 78.93 | 69.83 | 74.58 | 63.06 | 84.16 | 71.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Total Expenses | 55.47 | 65.65 | 71.12 | 58.79 | 72.29 | 79.48 | 85.62 | 57.01 | 117.76 | 129.24 |
| Surplus | 23.46 | 4.18 | 3.46 | 4.27 | 11.87 | (7.74) | 10.34 | 4.78 | 10.90 | 37.96 |
| Net Profit before tax | 23.46 | 4.18 | 3.46 | 4.27 | 11.87 | (7.74) | 10.34 | 4.78 | 10.90 | 37.96 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 70.28 | 94.01 | 95.36 | 93.23 | 85.9 | 110.79 | 89.22 | 92.26 | 91.53 | 77.3 |
| Surplus | 29.72 | 5.99 | 4.64 | 6.77 | 14.10 | -10.79 | 10.78 | 7.74 | 8.47 | 22.70 |
| Net Profit before tax | 29.72 | 5.99 | 4.64 | 6.77 | 14.1 | -10.79 | 10.78 | 7.74 | 8.47 | 22.7 |

Table No. 6.22.2 :- Common Size Income Statement of APMC : Indapur

| Particulars | Amount (Rs.in lakhs) | | | | | | | | | |
|-----------------------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 37.69 | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Total Expenses | 30.32 | 30.27 | 51.31 | 50.98 | 56.14 | 56.31 | 59.46 | 39.85 | 75.02 | 82.93 |
| Surplus | 7.37 | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |
| Net Profit before tax | 7.37 | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |

| Particulars | Percentages | | | | | | | | | |
|-----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 80.45 | 91.87 | 102.78 | 91.69 | 78.32 | 77.05 | 79.91 | 75.37 | 67.49 | 72.71 |
| Surplus | 19.55 | 8.13 | -2.78 | 8.31 | 21.68 | 22.95 | 20.09 | 24.63 | 32.51 | 27.29 |
| Net Profit before tax | 19.55 | 8.13 | -2.78 | 8.31 | 21.68 | 22.95 | 20.09 | 24.63 | 32.51 | 27.29 |

Table No. 6.22.3 :- Common Size Income Statement of APMC : Junnar

| Amount (Rs.in lakhs) | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Total Expenses | 43.16 | 52.40 | 58.28 | 61.35 | 84.55 | 79.54 | 101.27 | 55.46 | 115.09 | 143.91 |
| Surplus | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |
| Net Profit before tax | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |

| Percentages | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 87.23 | 81.88 | 85.95 | 55.57 | 75.66 | 66.1 | 53.66 | 62.54 | 47.06 | 45.74 |
| Surplus | 12.77 | 18.13 | 14.05 | 44.43 | 24.34 | 33.90 | 46.34 | 37.46 | 52.94 | 54.26 |
| Net Profit before tax | 12.77 | 18.13 | 14.05 | 44.43 | 24.34 | 33.9 | 46.34 | 37.46 | 52.94 | 54.26 |

Table No. 6.22.4 :- Common Size Income Statement of APMC : Khed

| Amount (Rs.in lakhs) | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Total Expenses | 60.18 | 68.73 | 74.98 | 100.57 | 93.08 | 93.19 | 121.12 | 63.86 | 129.65 | 151.64 |
| Surplus | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |
| Net Profit before tax | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |

| Percentages | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 70.09 | 88.51 | 89.8 | 106.57 | 114.07 | 84.92 | 85.65 | 79.68 | 67.69 | 72.76 |
| Surplus | 29.91 | 11.49 | 10.20 | -6.57 | -14.07 | 15.08 | 14.35 | 20.32 | 32.31 | 27.24 |
| Net Profit before tax | 29.91 | 11.49 | 10.2 | -6.57 | -14.07 | 15.08 | 14.35 | 20.32 | 32.31 | 27.24 |

Table No. 6.22.5 :- Common Size Income Statement of APMC : Manchhar

| Amount (Rs.in lakhs) | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 37.36 | 52.12 | 61.89 | 64.81 | 70.83 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Total Expenses | 22.07 | 28.69 | 35.49 | 43.17 | 57.29 | 48.89 | 50.57 | 44.65 | 65.24 | 103.74 |
| Surplus | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |
| Net Profit before tax | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |

| Percentages | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 59.07 | 55.05 | 57.34 | 66.61 | 80.83 | 63.55 | 52.42 | 74.1 | 87.31 | 77.03 |
| Surplus | 40.93 | 44.95 | 42.66 | 33.39 | 19.17 | 36.45 | 47.58 | 25.90 | 12.69 | 22.97 |
| Net Profit before tax | 40.93 | 44.95 | 42.66 | 33.39 | 19.17 | 36.45 | 47.58 | 25.9 | 12.69 | 22.97 |

Table No. 6.22.6 :- Common Size Income Statement of APMC : Nira

| Amount (Rs.in lakhs) | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Total Expenses | 19.88 | 21.81 | 20.72 | 20.77 | 22.35 | 22.44 | 22.61 | 11.52 | 21.75 | 20.60 |
| Surplus | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |
| Net Profit before tax | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |

| Percentages | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 96.09 | 118.15 | 108.88 | 130.46 | 130.55 | 105.25 | 121.36 | 177.5 | 89.43 | 83.81 |
| Surplus | 3.91 | -18.15 | -8.88 | -30.46 | -30.55 | -5.25 | -21.36 | -77.50 | 10.57 | 16.19 |
| Net Profit before tax | 3.91 | -18.15 | -8.88 | -30.46 | -30.55 | -5.25 | -21.36 | -77.5 | 10.57 | 16.19 |

Table No. 6.22.7 :- Common Size Income Statement of APMC : Pune

| Amount (Rs.in lakhs) | | | | | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 |
| Total Expenses | 817.05 | 1,001.50 | 1,217.98 | 1,509.98 | 1,238.49 | 1,633.84 | 1,881.81 | 772.79 | 2,464.59 | 3,204.61 |
| Surplus | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 |
| Net Profit before tax | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 |

| Percentages | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 73.26 | 74.53 | 91.28 | 96.83 | 83.48 | 94.12 | 90.39 | 66.11 | 99.99 | 99.97 |
| Surplus | 26.74 | 25.47 | 8.72 | 3.17 | 16.52 | 5.88 | 9.61 | 33.89 | 0.01 | 0.03 |
| Net Profit before tax | 26.74 | 25.47 | 8.72 | 3.17 | 16.52 | 5.88 | 9.61 | 33.89 | 0.01 | 0.03 |

Table No. 6.22.8 :- Common Size Income Statement of APMC : Shirur

Amount (Rs.in lakhs)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 23.70 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Total Expenses | 30.92 | 25.65 | 33.69 | 40.10 | 48.53 | 60.66 | 48.40 | 23.66 | 48.55 | 50.98 |
| Surplus | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |
| Net Profit before tax | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |

Percentages

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Total Expenses | 130.46 | 113.8 | 93.17 | 97.92 | 132.67 | 147.99 | 128.18 | 98.54 | 89.67 | 69.68 |
| Surplus | -30.46 | -13.80 | 6.83 | 2.08 | -32.67 | -47.99 | -28.18 | 1.46 | 10.33 | 30.32 |
| Net Profit before tax | -30.46 | -13.8 | 6.83 | 2.08 | -32.67 | -47.99 | -28.18 | 1.46 | 10.33 | 30.32 |

APMC - BARAVATI
6.23.1 : TREND PERCENTAGE ANALYSIS

Source Data

| | | | | | | | | Amount (Rs. In Lakhs) | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| | | | | | | | | | | |
| Total Income | 78.93 | 69.83 | 74.58 | 63.06 | 84.16 | 71.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Total Expenses | 55.47 | 65.65 | 71.12 | 58.79 | 72.29 | 79.48 | 85.62 | 57.01 | 117.76 | 129.24 |
| Surplus | 23.46 | 4.18 | 3.46 | 4.27 | 11.87 | (7.74) | 10.34 | 4.78 | 10.90 | 37.96 |
| Net Profit | 23.46 | 4.18 | 3.46 | 4.27 | 11.87 | (7.74) | 10.34 | 4.78 | 10.90 | 37.96 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | |
| Total Income | 100 | 88.47 | 94.49 | 79.89 | 106.63 | 90.89 | 121.58 | 78.28 | 163.01 | 211.83 |
| Total Expenses | 100 | 118.35 | 128.21 | 105.99 | 130.32 | 143.28 | 154.35 | 102.78 | 212.29 | 232.99 |
| Surplus | 100 | 17.82 | 14.75 | 18.2 | 50.6 | -32.99 | 44.08 | 20.38 | 46.46 | 161.81 |
| Net Profit | 100 | 17.82 | 14.75 | 18.2 | 50.6 | -32.99 | 44.08 | 20.38 | 46.46 | 161.81 |

APMC - INDAPUR
6.23.2 : TREND PERCENTAGE ANALYSIS

Source Data

| | | | | | | | | Amount (Rs. In Lakhs) | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| | | | | | | | | | | |
| Total Income | 37.69 | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Total Expenses | 30.32 | 30.27 | 51.31 | 50.98 | 56.14 | 56.31 | 59.46 | 39.85 | 75.02 | 82.93 |
| Surplus | 7.37 | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |
| Net Profit | 7.37 | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | |
| Total Income | 100 | 87.42 | 132.45 | 147.52 | 190.18 | 193.9 | 197.43 | 140.28 | 294.93 | 302.6 |
| Total Expenses | 100 | 99.84 | 169.23 | 168.14 | 185.16 | 185.72 | 196.11 | 131.43 | 247.43 | 273.52 |
| Surplus | 100 | 36.36 | -18.86 | 62.69 | 210.85 | 227.54 | 202.85 | 176.66 | 490.37 | 422.25 |
| Net Profit | 100 | 36.36 | -18.86 | 62.69 | 210.85 | 227.54 | 202.85 | 176.66 | 490.37 | 422.25 |

APMC - JUNNAR
6.23.3 : TREND PERCENTAGE ANALYSIS

Source Data

| | | | | | | | | Amount (Rs. In Lakhs) | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| | | | | | | | | | | |
| Total Income | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Total Expenses | 43.16 | 52.40 | 58.28 | 61.35 | 84.55 | 79.54 | 101.27 | 55.46 | 115.09 | 143.91 |
| Surplus | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |
| Net Profit | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | |
| Total Income | 100 | 129.35 | 137.05 | 223.12 | 225.85 | 243.19 | 381.41 | 179.22 | 494.22 | 635.85 |
| Total Expenses | 100 | 121.41 | 135.03 | 142.15 | 195.9 | 184.29 | 234.64 | 128.5 | 266.66 | 333.43 |
| Surplus | 100 | 183.54 | 150.79 | 776.11 | 430.38 | 645.41 | 1383.7 | 525.63 | 2048.26 | 2701.11 |
| Net Profit | 100 | 183.54 | 150.79 | 776.11 | 430.38 | 645.41 | 1383.7 | 525.63 | 2048.26 | 2701.11 |

APMC - KHED
6.23.4 : TREND PERCENTAGE ANALYSIS

Source Data

| | | | | | | | | Amount (Rs. In Lakhs) | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Total Expenses | 60.18 | 68.73 | 74.98 | 100.57 | -93.08 | 93.19 | 121.12 | 63.86 | 129.65 | 151.64 |
| Surplus | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |
| Net Profit | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 100 | 90.44 | 97.25 | 109.91 | 95.04 | 127.81 | 164.7 | 93.35 | 223.08 | 242.73 |
| Total Expenses | 100 | 114.21 | 124.59 | 167.12 | 154.67 | 154.85 | 201.26 | 106.11 | 215.44 | 251.98 |
| Surplus | 100 | 34.74 | 33.18 | -24.14 | -44.7 | 64.45 | 79.01 | 63.43 | 241 | 221.07 |
| Net Profit | 100 | 34.74 | 33.18 | -24.14 | -44.7 | 64.45 | 79.01 | 63.43 | 241 | 221.07 |

APMC - MANCHAR
6.23.5 : TREND PERCENTAGE ANALYSIS

Source Data

| Amount (Rs. In Lakhs) | | | | | | | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 37.36 | 52.12 | 61.89 | 64.81 | 70.88 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Total Expenses | 22.07 | 28.69 | 35.49 | 43.17 | 57.29 | 48.89 | 50.57 | 44.65 | 65.24 | 103.74 |
| Surplus | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |
| Net Profit | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 100 | 139.51 | 165.66 | 173.47 | 189.72 | 205.92 | 258.24 | 161.3 | 200 | 360.49 |
| Total Expenses | 100 | 130 | 160.81 | 195.6 | 259.58 | 221.52 | 229.13 | 202.31 | 295.6 | 470.05 |
| Surplus | 100 | 153.24 | 172.66 | 141.53 | 88.88 | 183.39 | 300.26 | 102.09 | 62 | 202.35 |
| Net Profit | 100 | 153.24 | 172.66 | 141.53 | 88.88 | 183.39 | 300.26 | 102.09 | 62 | 202.35 |

APMC - NIRA
6.23.6 : TREND PERCENTAGE ANALYSIS

Source Data

| | | | | | | | | Amount (Rs. In Lakhs) | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|---------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Total Expenses | 19.88 | 21.81 | 20.72 | 20.77 | 22.35 | 22.44 | 22.61 | 11.52 | 21.75 | 20.60 |
| Surplus | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |
| Net Profit | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 100 | 89.22 | 91.98 | 76.95 | 82.75 | 103.04 | 90.04 | 31.37 | 117.54 | 118.8 |
| Total Expenses | 100 | 109.71 | 104.23 | 104.48 | 112.42 | 112.88 | 113.73 | 57.95 | 109.41 | 103.62 |
| Surplus | 100 | -413.58 | -208.64 | -598.77 | -645.68 | -138.27 | -491.36 | -620.99 | 317.28 | 491.36 |
| Net Profit | 100 | -413.58 | -208.64 | -598.77 | -645.68 | -138.27 | -491.36 | -620.99 | 317.28 | 491.36 |

APMC - PUNE
6.23.7 : TREND PERCENTAGE ANALYSIS

Source Data

| | | | | | | | | Amount (Rs. In Lakhs) | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|------------------------|----------|----------|
| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 |
| Total Expenses | 817.05 | 1,001.50 | 1,217.98 | 1,509.98 | 1,238.49 | 1,633.84 | 1,881.81 | 772.79 | 2,464.59 | 3,204.61 |
| Surplus | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 |
| Net Profit | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 100 | 120.48 | 119.64 | 139.81 | 133.02 | 155.64 | 186.67 | 104.81 | 220.99 | 287.42 |
| Total Expenses | 100 | 122.58 | 149.07 | 184.81 | 151.58 | 199.97 | 230.32 | 94.58 | 301.64 | 392.22 |
| Surplus | 100 | 114.75 | 39.03 | 16.56 | 82.18 | 34.21 | 67.11 | 132.81 | 0.05 | 0.34 |
| Net Profit | 100 | 114.75 | 39.03 | 16.56 | 82.18 | 34.21 | 67.11 | 132.81 | 0.05 | 0.34 |

APMC - SHIRUR
6.23.8 : TREND PERCENTAGE ANALYSIS

Source Data

| Particulars | Amount (Rs. In Lakhs) | | | | | | | | | |
|----------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Income | 23.70 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Total Expenses | 30.92 | 25.65 | 33.69 | 40.10 | 48.53 | 60.66 | 48.40 | 23.66 | 48.55 | 50.98 |
| Surplus | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |
| Net Profit | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |

Trend Analysis

(Taking 2000-01 as the base year)

| Particulars | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Income | 100 | 95.11 | 152.57 | 172.78 | 154.35 | 172.95 | 159.32 | 101.31 | 228.44 | 308.69 |
| Total Expenses | 100 | 82.96 | 108.96 | 129.69 | 156.95 | 196.18 | 156.53 | 76.52 | 157.02 | 164.88 |
| Surplus | 100 | 43.07 | -34.21 | -11.77 | 165.51 | 272.44 | 147.37 | -4.85 | -77.42 | -307.2 |
| Net Profit | 100 | 43.07 | -34.21 | -11.77 | 165.51 | 272.44 | 147.37 | -4.85 | -77.42 | -307.2 |

From the above table it was observed that -

APMC Baramati :

The total expenses of the APMC is seemed to be highest (110.79 %) during 2005–06 and the lowest percentage (70.28 %) during 2000–01. This has resulted into surplus of (Rs.-10.79) during 2005–06 and the highest one during 2000–01 (29.72 %).

APMC Indapur :

In case of this APMC, the percentage of expenses was highest (102.78 %) during 2002–03 and the lowest (67.49 %) during 2008–09. And the percentage of surplus was low (-2.78 %) during 2002–03 and the highest (32.51 %) during 2008–09.

On the basis of results of 10 years data of APMC Baramati and the APMC Indapur. It can be concluded that

- i) Whenever the percentage of annual expenses to annual income is highest, the percentage of surplus to annual becomes the lowest.
- ii) Whenever the percentage of annual expenses to annual income is the lowest, the percentage of surplus becomes the highest.

Similar observations as above were also seen in cases of the remaining APMCs viz. Junnar, Khed, Manchar, Nira, Pune and Shirur.

6.9 Financial Ratio Analysis

6.9.1 Introduction :

Ratio analysis of financial statements is mainly undertaken by working out the following various ratios.

Ratio Analysis : The financial ratio analysis is widely used as a tool of financial statement Analysis. The term “Ratio” in it refers to the relationship expressed in mathematical term between two individual figures or group of figures connected with each other in the same logical manner and are selected from the financial statements of the business firm/concern. The “Ratio Analysis” is a mathematical relationship between two or more accounting figures in such a way that the users can draw conclusions about the performance, strength and weaknesses of a firm.

6.9.2 Types of Ratios :

Following are the various ratios which are used in carrying out the financial analysis of business unit.

1] Liquidity Ratios :

- a) Current ratio.
- b) Quick ratio.
- c) Absolute quick ratio.

2] Activity Ratios :

- a) Capital turn – over ratio.
- b) Working capital turnover ratio.
- c) Inventory turn – over ratio.
- d) Debtors turn – over ratio.
- e) Creditors turn – over ratio.
- f) Total assets turn – over ratio.
- g) Fixed assets turn – over ratio.

- 3] Revenue Ratios :
 - a) Gross profit ratio.
 - b) Net profit ratio.
 - c) Operating profit ratio.
- 4] Profitability Ratios :
 - a) Dividend per share.
 - b) Returns on assets.
 - c) Returns on capital employed.
- 5] Capital Structure Leverage Ratios :

6.9.3 Financial Ratios selected for the present study

The following financial ratios which were appropriate and useful for undertaking the financial analysis of the APMCs.

- i) Current ratio.
- ii) Capital turnover ratio.
- iii) Working capital turnover ratio.
- iv) Total assets turnover ratio.
- v) Net profit ratio.
- vi) Return on equity ratio.

Financial Ratio Analysis

Ratio analysis of financial statements is mainly undertaken by working out the following various ratios.

$$1) \quad \text{Current Ratio} \quad = \quad \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

- 2) Capital Turnover Ratio $= \frac{* \text{ Sales}}{\text{Capital employed}}$
- 3) Working Capital Turnover Ratio $= \frac{* \text{ Sales}}{\text{Working Capital}}$
- 4) Total Asset Turnover Ratio $= \frac{* \text{ Net Sales}}{\text{Total Asset}}$
- 5) Net Profit Ratio $= \frac{\text{Net Profit}}{\text{Sales}}$
- 6) Return on Equity Ratio $= \frac{\text{Net Profit}}{\text{Averaged Capital Employed}}$

* In the above formulae, the term "Sales" of the firm have been shown. However, in case of analysis of data of AMPC, the term "Income" is considered."

Table no. 6.24.1 to 6.24.8 showed the various ratios of the selected APMCs in Pune district.

Table No. 6.24.1 :- Financial Ratio of APMC : Baramati

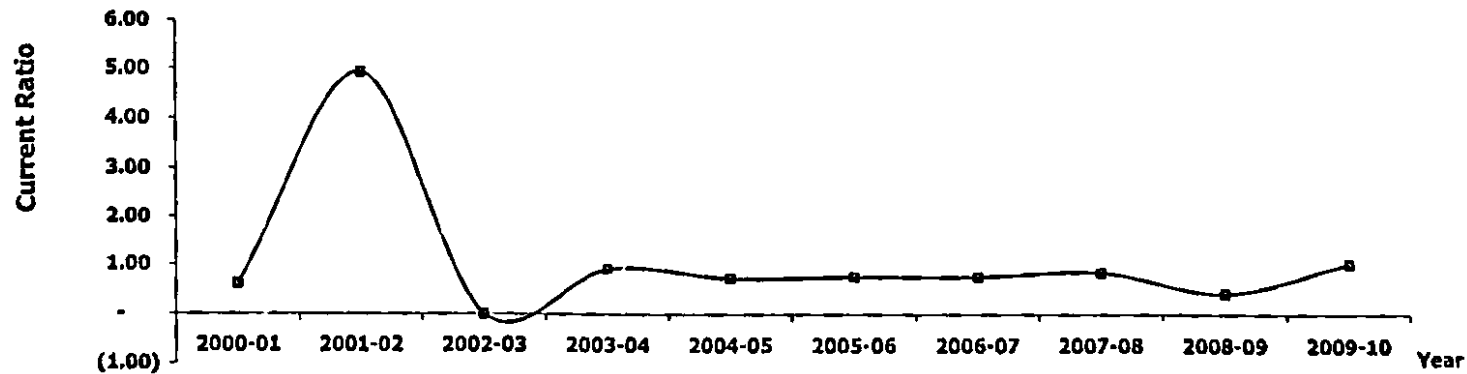
A) Current Ratio

| Particulars | YEAR (Rs. in Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 15.88 | 149.03 | - | 21.16 | 20.08 | 32.04 | 35.80 | 44.04 | 22.22 | 62.79 |
| Current Liabilities (b) | 26.24 | 30.31 | - | 23.58 | 28.06 | 42.93 | 47.79 | 53.01 | 54.85 | 62.09 |
| Working Capital (c=a-b) (c) | (10.36) | 118.72 | - | (2.42) | (7.98) | (10.89) | (11.99) | (8.97) | (32.63) | 0.70 |
| Current Ratio = | 0.61 | 4.92 | - | 0.90 | 0.72 | 0.75 | 0.75 | 0.83 | 0.41 | 1.01 |

Current Assets

Current Liabilities

Graph No. 23 : Current Ratio



980

B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 78.93 | 69.83 | - | 63.06 | 84.16 | 91.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Capital Employed | 348.47 | 367.63 | - | 368.95 | 388.17 | 432.09 | 505.56 | 572.36 | 631.64 | 680.63 |
| Capital Turnover Ratio | 0.23 | 0.19 | - | 0.17 | 0.22 | 0.21 | 0.19 | 0.11 | 0.20 | 0.25 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 78.93 | 69.83 | - | 63.06 | 84.16 | 91.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Working Capital | (10.36) | 118.72 | - | (2.42) | (7.98) | (10.89) | (11.99) | (8.97) | (32.63) | 0.70 |
| Working Capital Turnover Ratio | (7.62) | 0.59 | - | (26.06) | (10.55) | (8.42) | (8.00) | (6.89) | (3.94) | 238.86 |

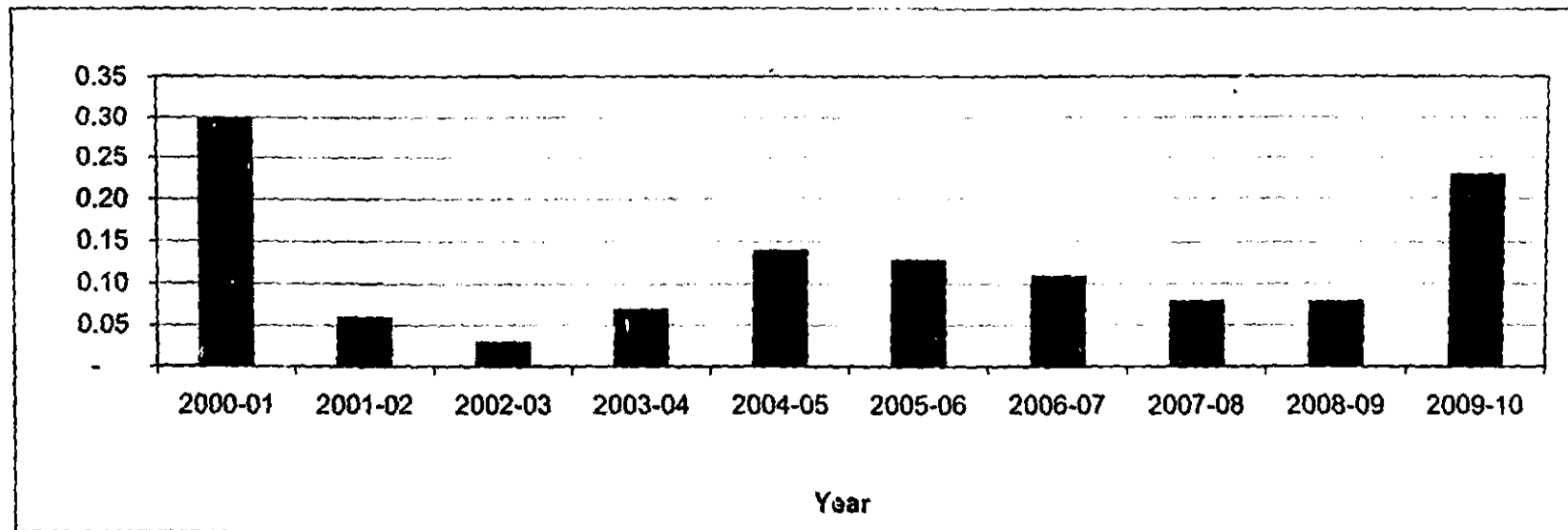
D) Net Profit Ratio

| Particulars | YEAR (Rs. in Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 78.93 | 69.83 | 74.58 | 63.06 | 84.16 | 91.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Profit after tax | 23.46 | 4.18 | 2.46 | 4.27 | 11.87 | 12.26 | 10.34 | 4.78 | 10.90 | 37.96 |
| Net Profit Ratio = | 0.30 | 0.06 | 0.03 | 0.07 | 0.14 | 0.13 | 0.11 | 0.08 | 0.08 | 0.23 |

Profit After Tax

Sales

Graph No. 24 : Net Profit



E) Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | 23.46 | 4.18 | - | 4.27 | 11.87 | 12.26 | 10.34 | 4.78 | 10.90 | 37.96 |
| Net Worth | 348.47 | 352.78 | - | 368.81 | 390.67 | 410.93 | 437.47 | 439.71 | 542.30 | 580.26 |
| Return On Equity = | 0.07 | 0.01 | - | 0.01 | 0.03 | 0.03 | 0.02 | 0.01 | 0.02 | 0.07 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 78.93 | 69.83 | - | 63.06 | 84.16 | 91.74 | 95.96 | 61.79 | 128.66 | 167.20 |
| Total Assets | 389.79 | 446.22 | - | 432.96 | 478.36 | 549.18 | 666.27 | 716.89 | 842.56 | 886.26 |
| Total Assets Turnover Ratio | 0.2 | 0.16 | 0 | 0.15 | 0.18 | 0.17 | 0.14 | 0.09 | 0.15 | 0.19 |

Table No. 6.24.2 :- Financial Ratio of APMC : Indapur

A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | - | 16.78 | 14.32 | 22.15 | 19.36 | 49.56 | 89.13 | 138.88 | 116.31 | 99.27 |
| Current Liabilities (b) | - | 3.38 | 4.54 | 5.17 | 5.42 | 6.31 | 6.97 | 5.79 | 24.37 | 41.61 |
| Working Capital (c=a-b) (c) | - | 13.40 | 9.78 | 16.98 | 13.94 | 43.25 | 82.16 | 133.09 | 91.94 | 57.66 |
| Current Ratio = | - | 4.96 | 3.15 | 4.28 | 3.57 | 7.85 | 12.79 | 23.99 | 4.77 | 2.39 |

Current Assets

Current Liabilities

Graph No. 25 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | - | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Capital Employed | - | 167.69 | 175.21 | 177.60 | 187.93 | 204.32 | 223.18 | 240.01 | 264.81 | 298.90 |
| Capital Turnover Ratio | - | 0.20 | 0.28 | 0.31 | 0.38 | 0.36 | 0.33 | 0.22 | 0.42 | 0.38 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | - | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Working Capital | - | 13.40 | 9.78 | 16.98 | 13.94 | 43.25 | 82.16 | 133.09 | 91.94 | 57.66 |
| Working Capital Turnover Ratio | - | 2.46 | 5.10 | 3.27 | 5.14 | 1.69 | 0.91 | 0.40 | 1.21 | 1.98 |

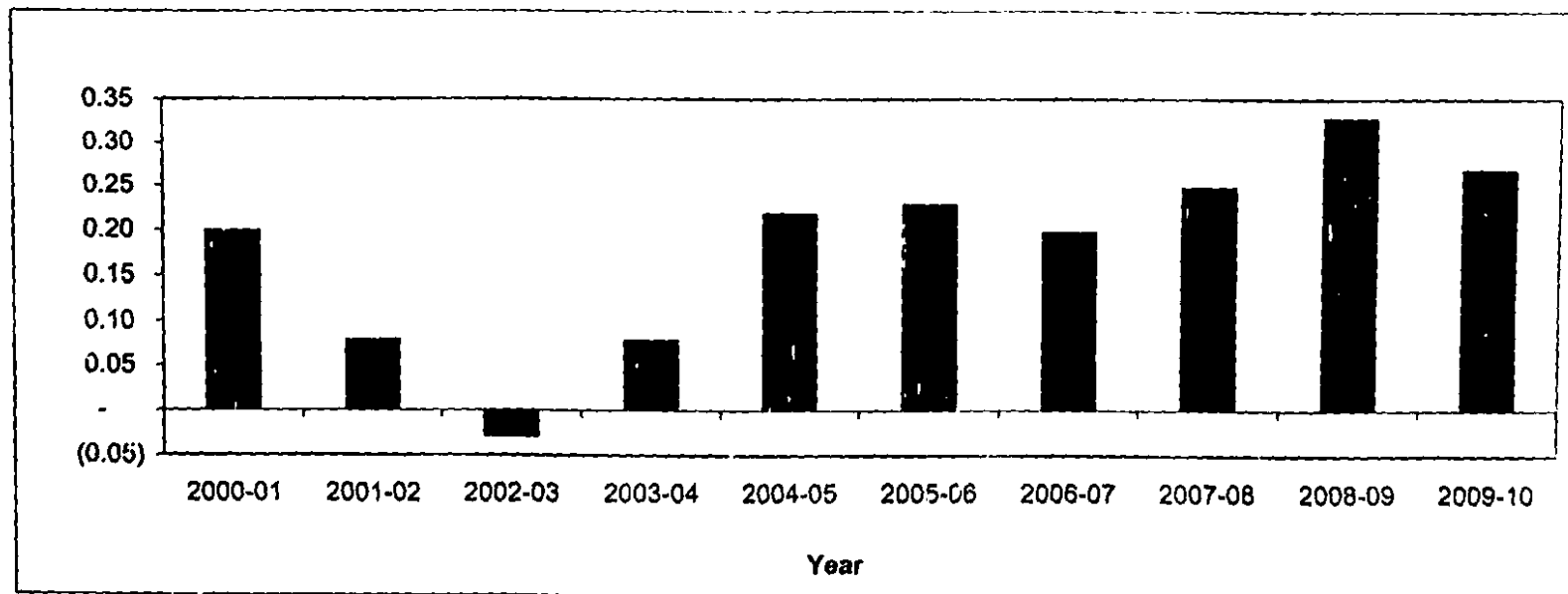
D) Net Profit Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 37.69 | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Profit after tax | 7.37 | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |
| Net Profit Ratio = | 0.20 | 0.08 | (0.03) | 0.08 | 0.22 | 0.23 | 0.20 | 0.25 | 0.33 | 0.27 |

Profit After Tax

Sales

Graph No. 26 : Net Profit



E)Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | - | 2.68 | (1.39) | 4.62 | 15.54 | 16.77 | 14.95 | 13.02 | 36.14 | 31.12 |
| Net Worth | - | 175.13 | 175.29 | 179.91 | 195.94 | 212.70 | 227.65 | 241.06 | 277.96 | 309.24 |
| Return On Equity = | - | 0.02 | (0.01) | 0.03 | 0.08 | 0.08 | 0.07 | 0.05 | 0.13 | 0.10 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | - | 32.95 | 49.92 | 55.60 | 71.68 | 73.08 | 74.41 | 52.87 | 111.16 | 114.05 |
| Total Assets | - | 258.93 | 305.13 | 327.73 | 379.26 | 419.48 | 467.28 | 503.40 | 663.33 | 772.60 |
| Total Assets Turnover Ratio | 0 | 0.13 | 0.16 | 0.17 | 0.19 | 0.17 | 0.16 | 0.11 | 0.17 | 0.15 |

Table No. 6.24.3 : - Financial Ratio of APMC : Junnar

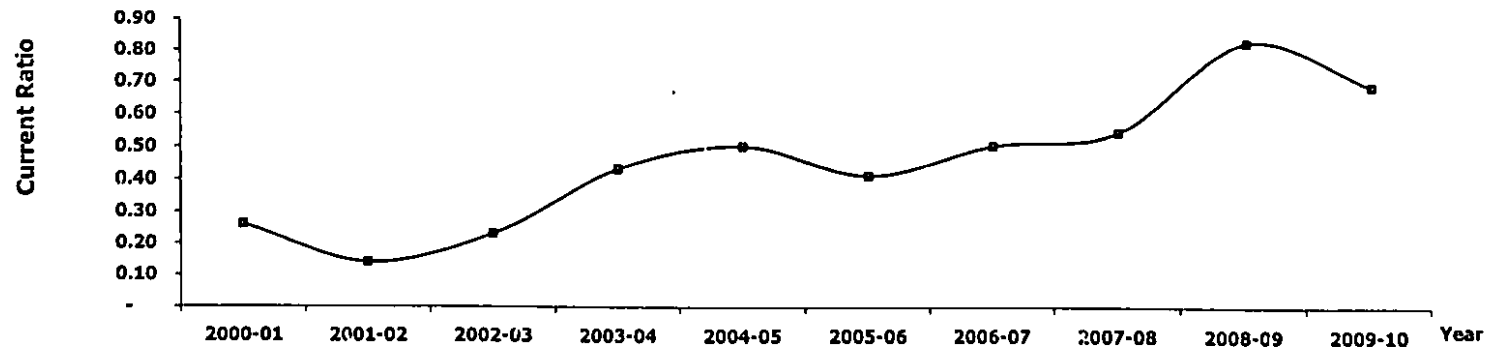
A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|----------|----------|----------|----------|----------|----------|----------|---------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 74.37 | 39.30 | 72.82 | 139.96 | 160.40 | 174.77 | 236.40 | 253.96 | 387.76 | 323.11 |
| Current Liabilities (b) | 285.85 | 276.15 | 311.03 | 325.48 | 323.43 | 421.94 | 470.44 | 472.81 | 474.34 | 475.60 |
| Working Capital (c=a-b) (c) | (211.48) | (236.85) | (238.21) | (185.52) | (163.03) | (247.17) | (234.04) | (218.85) | (86.58) | (152.49) |
| Current Ratio = | 0.26 | 0.14 | 0.23 | 0.43 | 0.50 | 0.41 | 0.50 | 0.54 | 0.82 | 0.68 |

Current Assets

Current Liabilities

Graph No. 27 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Capital Employed | 123.28 | 132.12 | 145.42 | 174.06 | 211.43 | 244.82 | 308.58 | 370.25 | 453.07 | 603.14 |
| Capital Turnover Ratio | 0.40 | 0.48 | 0.47 | 0.63 | 0.53 | 0.49 | 0.61 | 0.24 | 0.54 | 0.52 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|----------|----------|----------|----------|----------|----------|----------|---------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Working Capital | (211.48) | (236.85) | (238.21) | (185.52) | (163.03) | (247.17) | (234.04) | (218.85) | (86.58) | (152.49) |
| Working Capital Turnover Ratio | (0.23) | (0.27) | (0.28) | (0.60) | (0.69) | (0.49) | (0.81) | (0.41) | (2.82) | (2.06) |

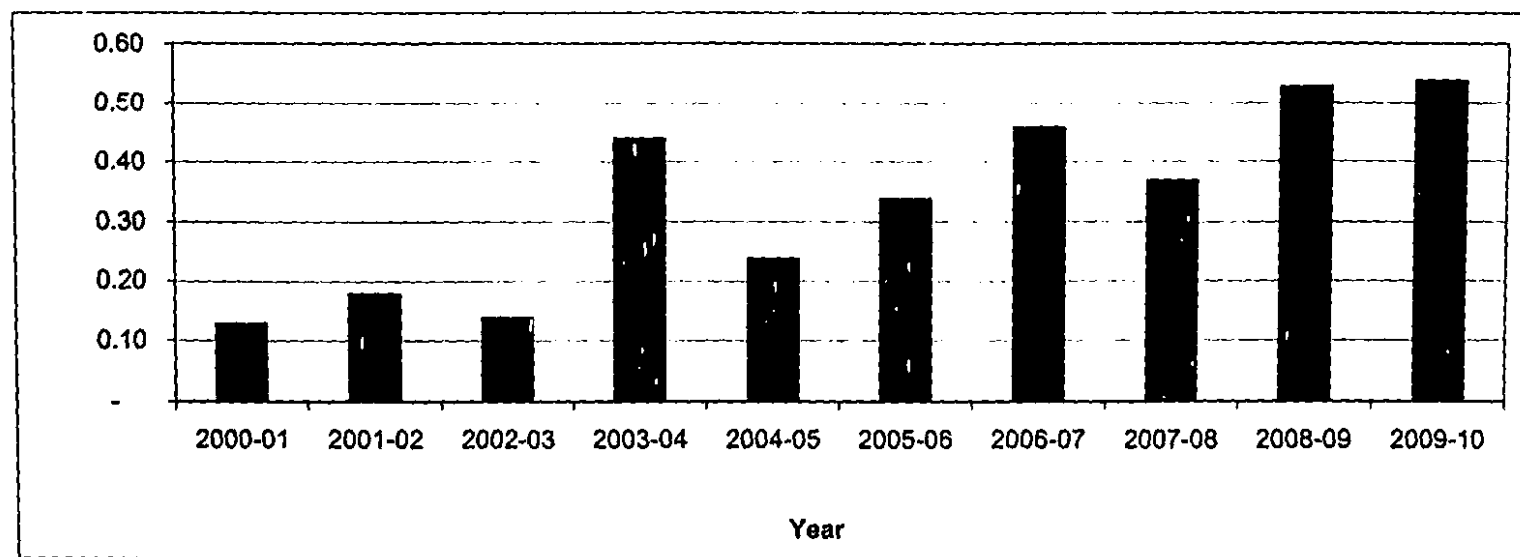
D) Net Profit Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Profit after tax | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |
| Net Profit Ratio = | 0.13 | 0.18 | 0.14 | 0.44 | 0.24 | 0.34 | 0.46 | 0.37 | 0.53 | 0.54 |

Profit After Tax

Sales

Graph No. 28 : Net Profit



E)Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | 6.32 | 11.60 | 9.53 | 49.05 | 27.20 | 40.79 | 87.45 | 33.22 | 129.45 | 170.71 |
| Net Worth | 119.95 | 138.15 | 147.67 | 196.71 | 223.90 | 264.68 | 352.14 | 388.35 | 517.79 | 688.49 |
| Return On Equity = | 0.05 | 0.08 | 0.06 | 0.25 | 0.12 | 0.15 | 0.25 | 0.09 | 0.25 | 0.25 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 49.48 | 64.00 | 67.81 | 110.40 | 111.75 | 120.33 | 188.72 | 88.68 | 244.54 | 314.62 |
| Total Assets | 443.50 | 456.83 | 495.26 | 558.97 | 593.36 | 737.45 | 868.01 | 910.23 | 1,045.29 | 1,231.88 |
| Total Assets Turnover Ratio | 0.11 | 0.14 | 0.14 | 0.2 | 0.19 | 0.16 | 0.22 | 0.1 | 0.23 | 0.26 |

Table No. 6.24.4 :- Financial Ratio of APMC : Khed

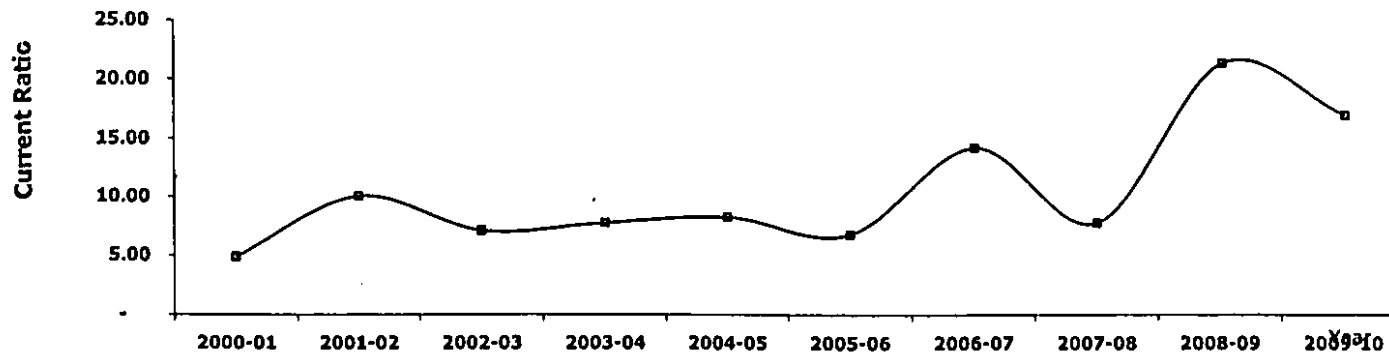
A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 41.20 | 35.94 | 87.44 | 93.44 | 97.68 | 92.93 | 106.05 | 108.64 | 248.97 | 212.11 |
| Current Liabilities (b) | 8.44 | 3.59 | 12.41 | 12.17 | 11.94 | 13.90 | 7.55 | 14.26 | 11.77 | 12.64 |
| Working Capital (c=a-b) (c) | 32.76 | 32.35 | 75.03 | 81.27 | 85.74 | 79.03 | 98.50 | 94.38 | 237.20 | 199.47 |
| Current Ratio = | 4.88 | 10.01 | 7.05 | 7.68 | 8.18 | 6.69 | 14.05 | 7.62 | 21.15 | 16.78 |

Current Assets

Current Liabilities

Graph No. 29 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Capital Employed | 306.40 | 310.93 | 318.79 | 319.03 | 310.15 | 312.64 | 331.07 | 349.38 | 389.45 | 449.76 |
| Capital Turnover Ratio | 0.28 | 0.25 | 0.26 | 0.30 | 0.26 | 0.35 | 0.43 | 0.23 | 0.49 | 0.46 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Working Capital | 32.76 | 32.35 | 75.03 | 81.27 | 85.74 | 79.03 | 98.50 | 94.38 | 237.20 | 199.47 |
| Working Capital Turnover Ratio | 2.62 | 2.40 | 1.11 | 1.16 | 0.95 | 1.39 | 1.44 | 0.85 | 0.81 | 1.04 |

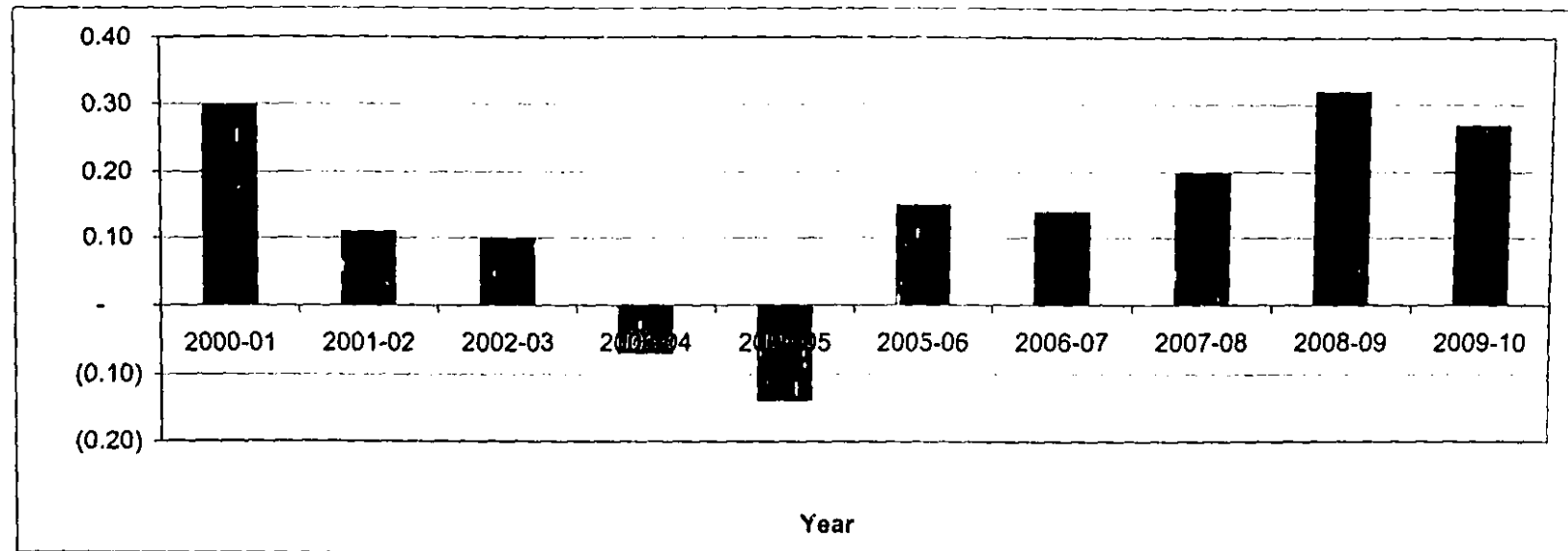
D) Net Profit Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Profit after tax | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |
| Net Profit Ratio = | 0.30 | 0.11 | 0.10 | (0.07) | (0.14) | 0.15 | 0.14 | 0.20 | 0.32 | 0.27 |

Profit After Tax

Sales

Graph No. 30 : Net Profit



E)Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | 25.68 | 8.92 | 8.52 | (6.20) | (11.48) | 16.55 | 20.29 | 16.29 | 61.89 | 56.77 |
| Net Worth | 306.40 | 315.45 | 322.13 | 315.92 | 304.37 | 320.91 | 341.23 | 357.52 | 421.38 | 478.14 |
| Return On Equity = | 0.08 | 0.03 | 0.03 | (0.02) | (0.04) | 0.05 | 0.06 | 0.05 | 0.15 | 0.12 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 85.86 | 77.65 | 83.50 | 94.37 | 81.60 | 109.74 | 141.41 | 80.15 | 191.54 | 208.41 |
| Total Assets | 433.42 | 456.32 | 484.12 | 503.04 | 519.56 | 572.44 | 633.12 | 673.18 | 819.14 | 904.74 |
| Total Assets Turnover Ratio | 0.2 | 0.17 | 0.17 | 0.19 | 0.16 | 0.19 | 0.22 | 0.12 | 0.23 | 0.23 |

Table No. 6.24.5 :- Financial Ratio of APMC : Manchur

A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 29.36 | 23.15 | 24.77 | 39.05 | 34.98 | 46.80 | 56.15 | 48.51 | 52.61 | 87.48 |
| Current Liabilities (b) | 7.19 | 9.52 | 7.23 | 10.23 | 13.59 | 17.00 | 24.41 | 36.28 | 131.83 | 132.11 |
| Working Capital (c=a-b) (c) | 22.17 | 13.63 | 17.54 | 28.82 | 21.39 | 29.80 | 31.74 | 12.23 | (79.22) | (44.63) |
| Current Ratio = | 4.08 | 2.43 | 3.43 | 3.82 | 2.57 | 2.75 | 2.30 | 1.34 | 0.40 | 0.66 |

Current Assets

Current Liabilities

Graph No. 31 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 37.36 | 52.12 | 61.89 | 64.81 | 70.88 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Capital Employed | 174.34 | 190.38 | 225.38 | 262.81 | 296.05 | 332.85 | 386.90 | 436.48 | 469.79 | 516.14 |
| Capital Turnover Ratio | 0.21 | 0.27 | 0.27 | 0.25 | 0.24 | 0.23 | 0.25 | 0.14 | 0.16 | 0.26 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 37.36 | 52.12 | 61.89 | 64.81 | 70.88 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Working Capital | 22.17 | 13.63 | 17.54 | 28.82 | 21.39 | 29.80 | 31.74 | 12.23 | (79.22) | (44.63) |
| Working Capital Turnover Ratio | 1.69 | 3.82 | 3.53 | 2.25 | 3.31 | 2.58 | 3.04 | 4.93 | (0.94) | (3.02) |

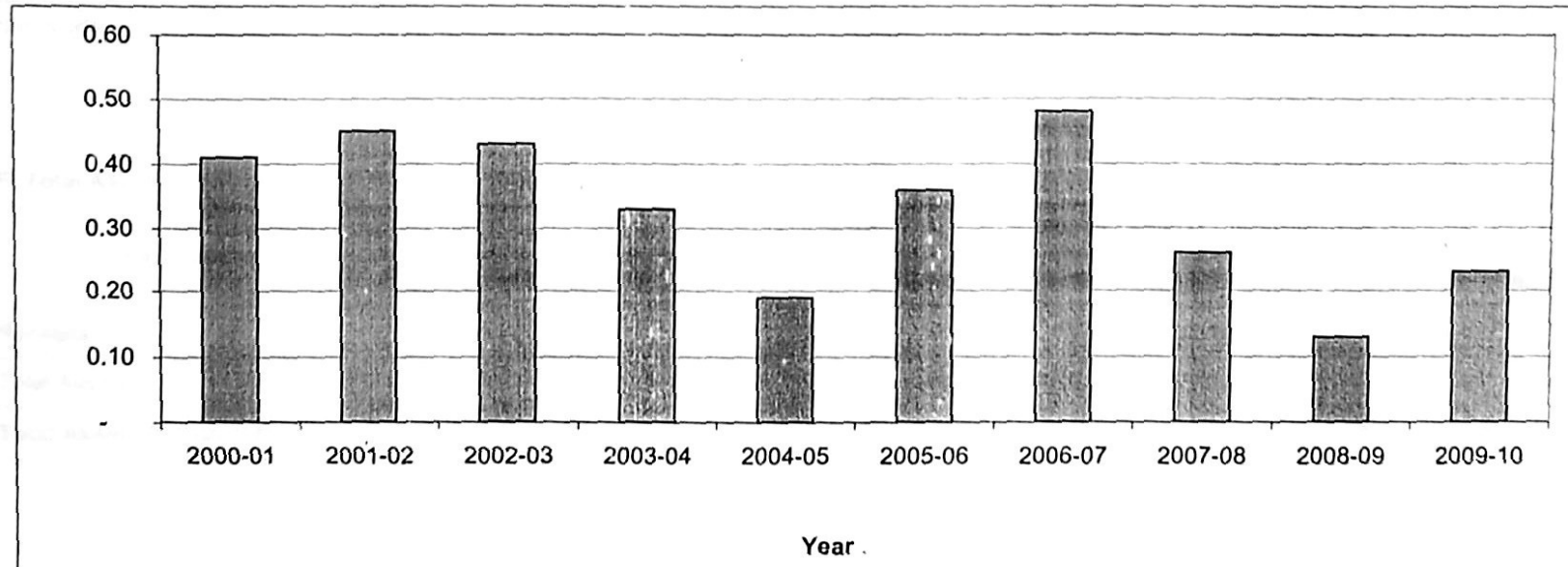
D) Net Profit Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 37.36 | 52.12 | 61.89 | 64.81 | 70.88 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Profit after tax | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |
| Net Profit Ratio = | 0.41 | 0.45 | 0.43 | 0.33 | 0.19 | 0.36 | 0.48 | 0.26 | 0.13 | 0.23 |

Profit After Tax

Sales

Graph No. 32 : Net Profit



E) Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | 15.29 | 23.43 | 26.40 | 21.64 | 13.59 | 28.04 | 45.91 | 15.61 | 9.48 | 30.94 |
| Net Worth | 174.35 | 206.40 | 244.35 | 281.27 | 310.83 | 354.87 | 418.93 | 454.03 | 485.54 | 546.73 |
| Return On Equity = | 0.09 | 0.11 | 0.11 | 0.08 | 0.04 | 0.08 | 0.11 | 0.03 | 0.02 | 0.06 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 37.36 | 52.12 | 61.89 | 64.81 | 70.88 | 76.93 | 96.48 | 60.26 | 74.72 | 134.68 |
| Total Assets | 335.46 | 377.92 | 461.82 | 495.24 | 530.47 | 599.43 | 678.64 | 727.13 | 867.82 | 950.24 |
| Total Assets Turnover Ratio | 0.11 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.08 | 0.09 | 0.14 |

Table No. 6.24.6 :- Financial Ratio of APMC : Nira

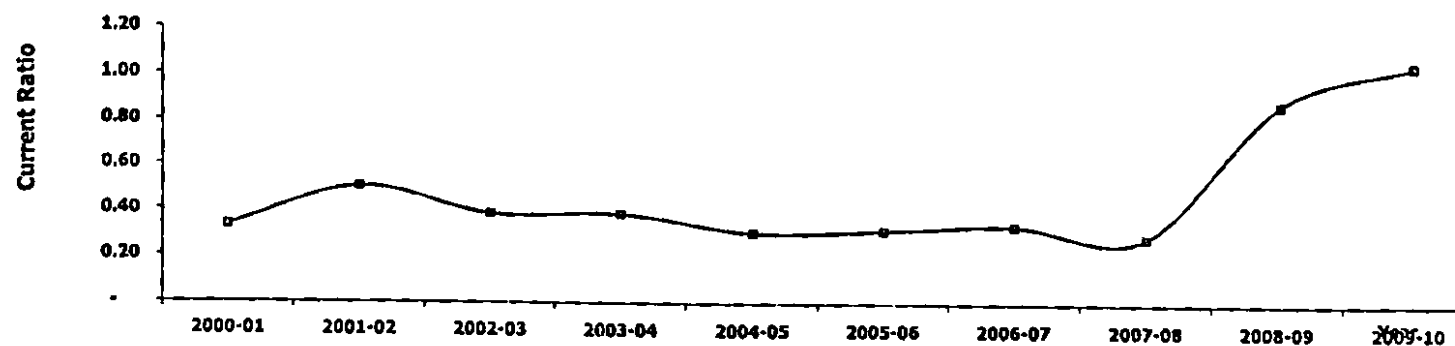
A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 14.67 | 23.33 | 17.70 | 19.22 | 14.85 | 16.50 | 18.63 | 16.21 | 20.46 | 24.35 |
| Current Liabilities (b) | 44.10 | 46.28 | 46.83 | 50.17 | 49.89 | 53.15 | 56.50 | 58.27 | 23.47 | 23.32 |
| Working Capital (c=a-b) (c) | (29.43) | (22.95) | (29.13) | (30.95) | (35.04) | (36.65) | (37.87) | (42.06) | (3.01) | 1.03 |
| Current Ratio = | 0.33 | 0.50 | 0.38 | 0.38 | 0.30 | 0.31 | 0.33 | 0.28 | 0.87 | 1.04 |

Current Assets

Current Liabilities

Graph No. 33 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Capital Employed | 27.50 | 29.74 | 31.15 | 28.06 | 23.18 | 20.00 | 17.45 | 12.80 | 19.48 | 30.82 |
| Capital Turnover Ratio | 0.75 | 0.62 | 0.61 | 0.57 | 0.74 | 1.07 | 1.07 | 0.51 | 1.25 | 0.80 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Working Capital | (29.43) | (22.95) | (29.13) | (30.95) | (35.04) | (36.65) | (37.87) | (42.06) | (3.01) | 1.03 |
| Working Capital Turnover Ratio | (0.70) | (0.80) | (0.65) | (0.51) | (0.49) | (0.58) | (0.49) | (0.15) | (8.08) | 23.86 |

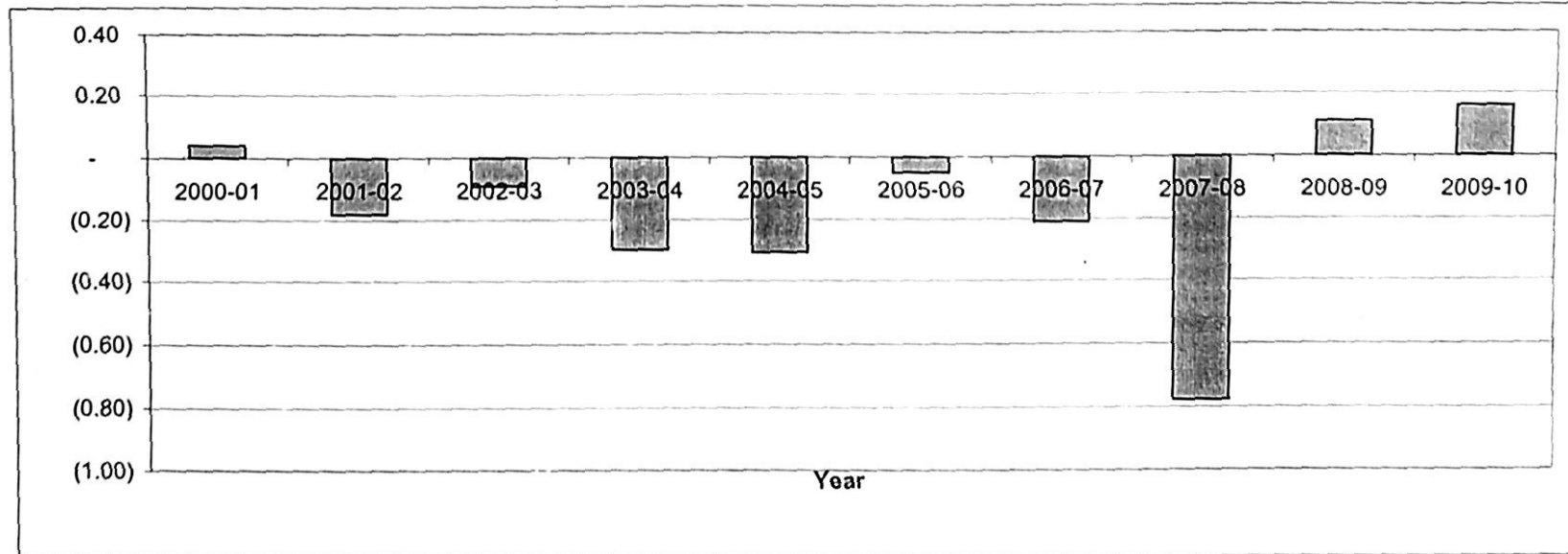
D) Net Profit Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Profit after tax | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |
| Net Profit Ratio = | 0.04 | (0.18) | (0.09) | (0.30) | (0.31) | (0.05) | (0.21) | (0.78) | 0.11 | 0.16 |

Profit After Tax

Sales

Graph No. 34 : Net Profit



E) Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | 0.81 | (3.35) | (1.69) | (4.85) | (5.23) | (1.12) | (3.98) | (5.03) | 2.57 | 3.98 |
| Net Worth | 17.42 | 14.05 | 12.35 | 7.49 | 2.25 | 1.13 | (2.85) | (7.88) | 10.89 | 14.87 |
| Return On Equity = | 0.05 | (0.24) | (0.14) | (0.65) | (2.32) | (0.99) | 1.40 | 0.64 | 0.24 | 0.27 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 20.69 | 18.46 | 19.03 | 15.92 | 17.12 | 21.32 | 18.63 | 6.49 | 24.32 | 24.58 |
| Total Assets | 76.76 | 84.53 | 84.80 | 85.33 | 80.53 | 83.73 | 85.77 | 83.37 | 70.07 | 76.17 |
| Total Assets Turnover Ratio | 0.27 | 0.22 | 0.22 | 0.19 | 0.21 | 0.25 | 0.22 | 0.08 | 0.35 | 0.32 |

Table No. 6.24.7 :- Financial Ratio of APMC : Pune

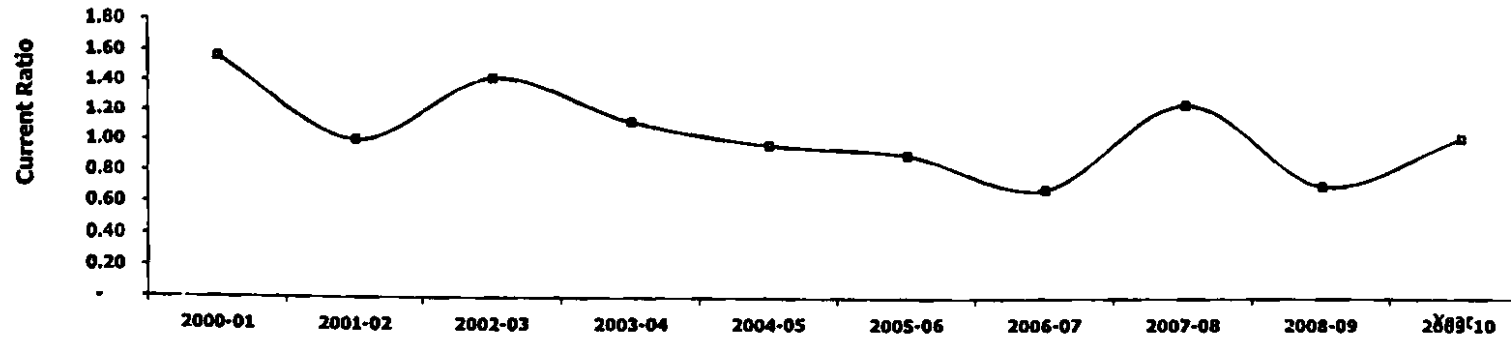
A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 800.66 | 684.64 | 956.26 | 822.99 | 848.99 | 778.33 | 693.31 | 1,542.75 | 1,082.06 | 1,798.75 |
| Current Liabilities (b) | 512.45 | 682.59 | 676.75 | 737.70 | 876.34 | 855.73 | 1,004.72 | 1,236.98 | 1,527.30 | 1,754.92 |
| Working Capital (c=a-b) (c) | 288.21 | 2.05 | 279.51 | 85.29 | (27.35) | (77.40) | (311.41) | 305.77 | (445.24) | 43.83 |
| Current Ratio = | 1.56 | 1.00 | 1.41 | 1.12 | 0.97 | 0.91 | 0.69 | 1.25 | 0.71 | 1.02 |

Current Assets

Current Liabilities

Graph No. 35 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|------------------------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 |
| Capital Employed | 2,129.29 | 2,253.19 | 2,579.41 | 3,096.37 | 3,600.01 | 3,685.11 | 3,891.24 | 4,929.28 | 6,157.75 | 7,388.72 |
| Capital Turnover Ratio | 0.52 | 0.60 | 0.52 | 0.50 | 0.41 | 0.47 | 0.54 | 0.24 | 0.40 | 0.43 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------------------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 |
| Working Capital | 288.21 | 2.05 | 279.51 | 85.29 | (27.35) | (77.40) | (311.41) | 305.77 | (445.24) | 43.83 |
| Working Capital Turnover Ratio | 3.87 | 655.49 | 4.77 | 18.28 | (54.24) | (22.43) | (6.69) | 3.82 | (5.54) | 73.14 |

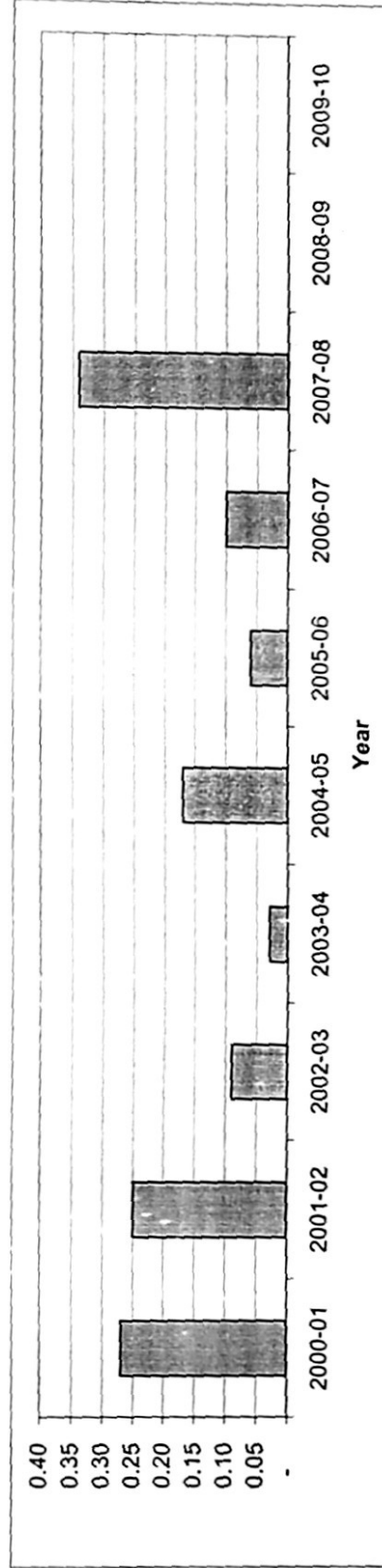
D) Net Profit Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | | |
|--------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | |
| Total Receipts | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 | |
| Profit after tax | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 | |
| Net Profit Ratio = | 0.27 | 0.25 | 0.09 | 0.03 | 0.17 | 0.06 | 0.10 | 0.34 | - | - | |

Profit After Tax

Sales

Graph No. 36 : Net Profit



E) Return On Equity

| Particulars | YEAR (Rs. in Lakhs) | | | | | | | | | |
|--------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | 298.26 | 342.25 | 116.42 | 49.38 | 245.10 | 102.03 | 200.15 | 396.12 | 0.16 | 1.01 |
| Net Worth | 2,120.47 | 2,361.83 | 2,781.72 | 3,411.01 | 3,789.01 | 3,581.21 | 4,201.26 | 5,657.29 | 6,658.21 | 8,119.23 |
| Return On Equity = | 0.14 | 0.14 | 0.04 | 0.01 | 0.06 | 0.03 | 0.05 | 0.07 | - | - |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. in Lakhs) | | | | | | | | | |
|-----------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 1,115.31 | 1,343.75 | 1,334.40 | 1,559.36 | 1,483.59 | 1,735.87 | 2,081.96 | 1,168.91 | 2,464.75 | 3,205.62 |
| Total Assets | 4,591.86 | 5,056.34 | 5,521.36 | 6,305.51 | 6,969.21 | 6,788.67 | 7,664.31 | 9,528.57 | 10,981.09 | 12,977.11 |
| Total Assets Turnover Ratio | 0.24 | 0.27 | 0.24 | 0.25 | 0.21 | 0.26 | 0.27 | 0.12 | 0.22 | 0.25 |

Table No. 6.24.8 :- Financial Ratio of APMC : Shirur

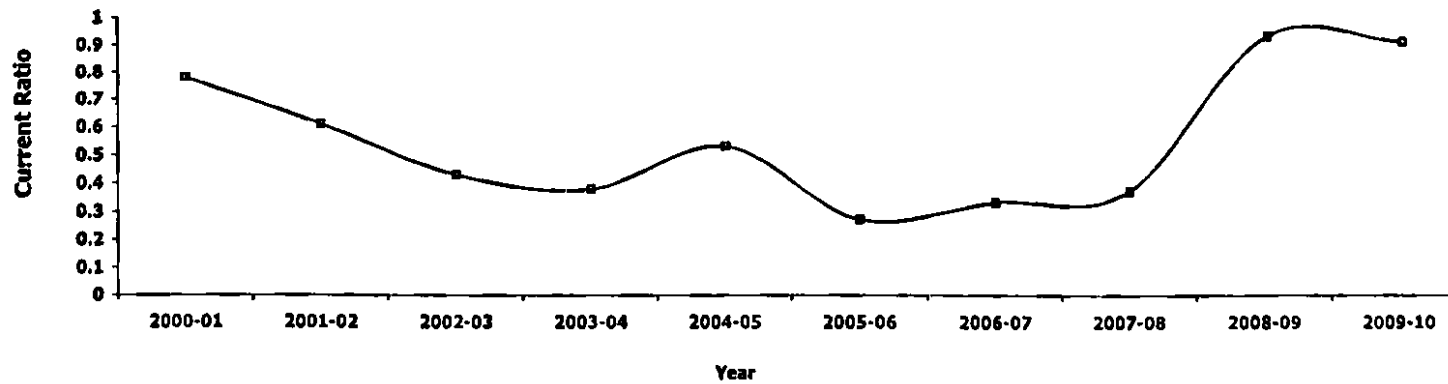
A) Current Ratio

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Current Assets (a) | 23.46 | 21.74 | 23.03 | 25.03 | 33.76 | 23.81 | 31.46 | 33.02 | 77.77 | 82.25 |
| Current Liabilities (b) | 30.23 | 35.60 | 53.50 | 65.61 | 63.47 | 89.19 | 93.99 | 88.57 | 83.43 | 90.70 |
| Working Capital (c=a-b) (c) | (6.77) | (13.86) | (30.47) | (40.58) | (29.71) | (65.38) | (62.53) | (55.55) | (5.66) | (8.45) |
| Current Ratio = | 0.78 | 0.61 | 0.43 | 0.38 | 0.53 | 0.27 | 0.33 | 0.37 | 0.93 | 0.91 |

Current Assets

Current Liabilities

Graph No. 37 : Current Ratio



B) Capital Turnover Ratio = Sales / Capital Employed

| Particulars | YEAR (Rs. In lakhs) | | | | | | | | | |
|-------------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 23.70 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Capital Employed | 83.46 | 80.62 | 80.60 | 82.26 | 76.51 | 130.72 | 150.39 | 93.04 | 104.61 | 139.95 |
| Capital Turnover Ratio | 0.28 | 0.28 | 0.45 | 0.50 | 0.48 | 0.31 | 0.25 | 0.26 | 0.52 | 0.52 |

C) Working Capital Turnover Ratio = Sales / Working Capital

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|---------------------------------------|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 23.7 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Working Capital | (6.77) | (13.86) | (30.47) | (40.58) | (29.71) | (65.38) | (62.53) | (55.55) | (5.66) | (8.45) |
| Working Capital Turnover Ratio | (3.50) | (1.63) | (1.19) | (1.01) | (1.23) | (0.63) | (0.60) | (0.43) | (9.57) | (8.66) |

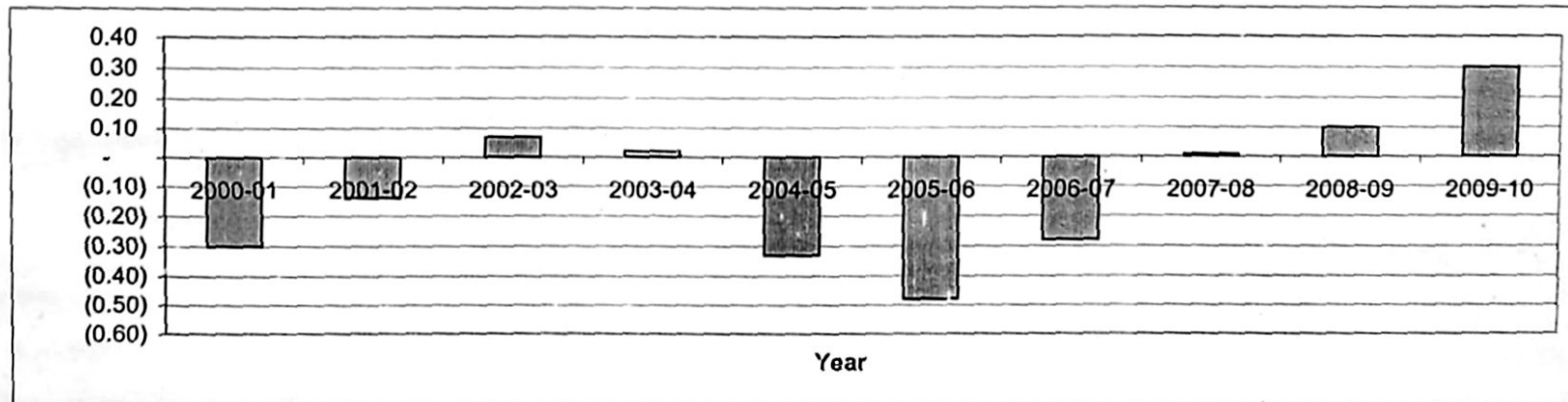
D) Net Profit Ratio

| Particulars | YEAR (Rs. in Lakhs) | | | | | | | | | |
|--------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Total Receipts | 23.70 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Profit after tax | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |
| Net Profit Ratio = | (0.30) | (0.14) | 0.07 | 0.02 | (0.33) | (0.48) | (0.28) | 0.01 | 0.10 | 0.30 |

Profit After Tax

Sales

Graph No. 38 : Net Profit



E)Return On Equity

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|--------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Surplus | (7.22) | (3.11) | 2.47 | 0.85 | (11.95) | (19.67) | (10.64) | 0.35 | 5.59 | 22.18 |
| Net Worth | 71.22 | 65.83 | 71.46 | 69.16 | 63.69 | 44.48 | 35.90 | 36.24 | 95.84 | 102.61 |
| Return On Equity = | (0.10) | (0.05) | 0.03 | 0.01 | (0.19) | (0.44) | (0.30) | 0.01 | 0.06 | 0.22 |

Surplus

Net Worth

F) Total Assets Turnover Ratio = Net Sales / Total Assets

| Particulars | YEAR (Rs. In Lakhs) | | | | | | | | | |
|-----------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
| Receipts | 23.70 | 22.54 | 36.16 | 40.95 | 36.58 | 40.99 | 37.76 | 24.01 | 54.14 | 73.16 |
| Total Assets | 154.87 | 184.70 | 231.69 | 275.60 | 425.69 | 802.33 | 780.85 | 799.02 | 963.04 | 1,288.11 |
| Total Assets Turnover Ratio | 0.15 | 0.12 | 0.16 | 0.15 | 0.09 | 0.05 | 0.05 | 0.03 | 0.06 | 0.06 |

Table No. 6.25 :- Financial Ratio Abstract of Selected APMCs in Pune District (2000-2001 to 2009-2010)

| Table No. 6.25.1 Current Ratio | | | | | | | | | | | | | | |
|---|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--------|
| | Year | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Average | SD | CV |
| 1 | Baramati | 0.61 | 4.92 | | 0.90 | 0.72 | 0.75 | 0.75 | 0.83 | 0.41 | 1.01 | 1.21 | 1.32 | 109.08 |
| 2 | Indapur | | 4.96 | 3.15 | 4.28 | 3.57 | 7.85 | 12.79 | 23.99 | 4.77 | 2.39 | 7.53 | 6.54 | 86.86 |
| 3 | Junnar | 0.26 | 0.14 | 0.23 | 0.43 | 0.5 | 0.41 | 0.5 | 0.54 | 0.82 | 0.68 | 0.45 | 0.20 | 43.53 |
| 4 | Khed | 4.88 | 10.01 | 7.05 | 7.68 | 8.18 | 6.69 | 14.05 | 7.62 | 21.15 | 16.78 | 10.41 | 4.95 | 47.58 |
| 5 | Manchar | 4.08 | 2.43 | 3.43 | 3.82 | 2.57 | 2.75 | 2.3 | 1.34 | 0.4 | 0.66 | 2.38 | 1.19 | 50.13 |
| 6 | Nira | 0.33 | 0.5 | 0.38 | 0.38 | 0.3 | 0.31 | 0.33 | 0.28 | 0.87 | 1.04 | 0.47 | 0.25 | 53.25 |
| 7 | Pune | 1.56 | 1 | 1.41 | 1.12 | 0.97 | 0.91 | 0.69 | 1.25 | 0.71 | 1.02 | 1.06 | 0.27 | 24.99 |
| 8 | Shirur | 0.78 | 0.61 | 0.43 | 0.38 | 0.53 | 0.27 | 0.33 | 0.37 | 0.93 | 0.91 | 0.55 | 0.23 | 41.68 |
| Table No. 6.25.2 Capital Turnover Ratio | | | | | | | | | | | | | | |
| | Year | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Average | SD | CV |
| 1 | Baramati | 0.23 | 0.19 | | 0.17 | 0.22 | 0.21 | 0.19 | 0.11 | 0.2 | 0.25 | 0.20 | 0.04 | 19.33 |
| 2 | Indapur | | 0.2 | 0.28 | 0.31 | 0.38 | 0.36 | 0.33 | 0.22 | 0.42 | 0.38 | 0.32 | 0.07 | 22.10 |
| 3 | Junnar | 0.4 | 0.48 | 0.47 | 0.63 | 0.53 | 0.49 | 0.61 | 0.24 | 0.54 | 0.52 | 0.49 | 0.10 | 21.37 |
| 4 | Khed | 0.28 | 0.25 | 0.26 | 0.3 | 0.26 | 0.35 | 0.43 | 0.23 | 0.49 | 0.46 | 0.33 | 0.09 | 27.44 |
| 5 | Manchar | 0.21 | 0.27 | 0.27 | 0.25 | 0.24 | 0.23 | 0.25 | 0.14 | 0.16 | 0.26 | 0.23 | 0.04 | 18.79 |
| 6 | Nira | 0.75 | 0.62 | 0.61 | 0.57 | 0.74 | 1.07 | 1.07 | 0.51 | 1.25 | 0.8 | 0.80 | 0.24 | 29.61 |
| 7 | Pune | 0.52 | 0.6 | 0.52 | 0.5 | 0.41 | 0.47 | 0.54 | 0.24 | 0.4 | 0.43 | 0.46 | 0.09 | 20.51 |
| 8 | Shirur | 0.28 | 0.28 | 0.45 | 0.5 | 0.48 | 0.31 | 0.25 | 0.26 | 0.52 | 0.52 | 0.39 | 0.11 | 28.98 |

Table No. 6.25.3 Working Capital Turnover Ratio

| | Year | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Average | SD | CV |
|---|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 1 | Baramati | -7.62 | 0.59 | | -26.06 | -10.55 | -8.42 | -8 | -6.89 | -3.94 | 238.86 | 18.66 | 78.15 | 418.73 |
| 2 | Indapur | | 2.46 | 5.1 | 3.27 | 5.18 | 1.69 | 0.91 | 0.4 | 1.21 | 1.98 | 2.47 | 1.63 | 66.28 |
| 3 | Junnar | -0.23 | -0.27 | -0.28 | -0.6 | -0.69 | -0.49 | -0.81 | -0.41 | -2.82 | -2.06 | -0.87 | 0.82 | -95.23 |
| 4 | Khed | 2.62 | 2.4 | 1.11 | 1.16 | 0.95 | 1.39 | 1.44 | 0.85 | 0.81 | 1.04 | 1.38 | 0.60 | 43.63 |
| 5 | Manchar | 1.69 | 3.82 | 3.53 | 2.25 | 3.31 | 2.58 | 3.04 | 4.93 | -0.94 | -3.02 | 2.12 | 17.08 | 806.25 |
| 6 | Nira | -0.7 | -0.8 | -0.65 | -0.51 | -0.49 | -0.58 | -0.49 | -0.15 | -8.08 | 23.86 | 1.14 | 7.90 | 692.44 |
| 7 | Pune | 3.87 | 655.49 | 4.77 | 18.28 | -54.24 | -52.43 | -6.69 | 3.82 | -5.54 | 73.14 | 64.05 | 200.04 | 312.33 |
| 8 | Shirur | -3.5 | -1.63 | -1.19 | -1.01 | -1.23 | -0.63 | -0.6 | -0.43 | -9.57 | -8.66 | -2.85 | 3.25 | -114.13 |

Table No. 6.25.4 Total Asset Turnover Ratio

| | Year | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Average | SD | CV |
|---|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-------|
| 1 | Baramati | 0.2 | 0.16 | | 0.15 | 0.18 | 0.17 | 0.14 | 0.09 | 0.15 | 0.19 | 0.16 | 0.03 | 19.33 |
| 2 | Indapur | - | 0.13 | 0.16 | 0.17 | 0.19 | 0.17 | 0.16 | 0.11 | 0.17 | 0.15 | 0.16 | 0.02 | 14.49 |
| 3 | Junnar | 0.11 | 0.14 | 0.14 | 0.2 | 0.19 | 0.16 | 0.22 | 0.1 | 0.23 | 0.26 | 0.18 | 0.05 | 28.94 |
| 4 | Khed | 0.2 | 0.17 | 0.17 | 0.19 | 0.16 | 0.19 | 0.22 | 0.12 | 0.23 | 0.23 | 0.19 | 0.03 | 16.64 |
| 5 | Manchar | 0.11 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.08 | 0.09 | 0.14 | 0.12 | 0.02 | 16.72 |
| 6 | Nira | 0.27 | 0.22 | 0.22 | 0.19 | 0.21 | 0.25 | 0.22 | 0.08 | 0.35 | 0.32 | 0.23 | 0.07 | 30.11 |
| 7 | Pune | 0.24 | 0.27 | 0.24 | 0.25 | 0.21 | 0.26 | 0.27 | 0.12 | 0.22 | 0.25 | 0.23 | 0.04 | 17.17 |
| 8 | Shirur | 0.15 | 0.12 | 0.16 | 0.15 | 0.09 | 0.05 | 0.05 | 0.03 | 0.06 | 0.06 | 0.09 | 0.05 | 50.47 |

Table No. 6.25.5 Net Profit Ratio

| | Year | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Average | SD | CV |
|---|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|---------|
| 1 | Baramati | 0.3 | 0.06 | 0.03 | 0.07 | 0.14 | 0.13 | 0.11 | 0.08 | 0.08 | 0.23 | 0.12 | 0.08 | 64.23 |
| 2 | Indapur | 0.2 | 0.08 | -0.03 | 0.08 | 0.22 | 0.23 | 0.2 | 0.25 | 0.33 | 0.27 | 0.18 | 0.10 | 55.84 |
| 3 | Junnar | 0.13 | 0.18 | 0.14 | 0.44 | 0.24 | 0.34 | 0.46 | 0.37 | 0.53 | 0.54 | 0.34 | 0.15 | 44.11 |
| 4 | Khed | 0.3 | 0.11 | 0.1 | -0.07 | -0.14 | 0.15 | 0.14 | 0.2 | 0.32 | 0.27 | 0.14 | 0.14 | 103.39 |
| 5 | Manchar | 0.41 | 0.45 | 0.43 | 0.33 | 0.19 | 0.36 | 0.48 | 0.26 | 0.13 | 0.23 | 0.33 | 0.11 | 34.68 |
| 6 | Nira | 0.04 | -0.18 | -0.09 | -0.3 | -0.31 | -0.05 | -0.21 | -0.78 | 0.11 | 0.16 | -0.16 | 0.26 | -159.77 |
| 7 | Pune | 0.74 | 0.72 | 0.75 | 0.74 | 0.8 | 0.71 | 0.73 | 0.84 | 0.71 | 0.67 | 0.74 | 0.05 | 6.17 |
| 8 | Shirur | -0.3 | -0.14 | 0.07 | 0.02 | -0.33 | -0.48 | -0.28 | 0.01 | 0.1 | 0.3 | -0.10 | 0.23 | -222.80 |

Table No. 6.25.6 Return On Equity Ratio

| | Year | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Average | SD | CV |
|---|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|---------|
| 1 | Baramati | 0.07 | 0.01 | | 0.01 | 0.03 | 0.03 | 0.02 | 0.01 | 0.02 | 0.07 | 0.03 | 0.02 | 75.36 |
| 2 | Indapur | | 0.02 | -0.01 | 0.03 | 0.08 | 0.08 | 0.07 | 0.05 | 0.13 | 0.1 | 0.06 | 0.04 | 66.56 |
| 3 | Junnar | 0.05 | 0.08 | 0.06 | 0.25 | 0.12 | 0.15 | 0.25 | 0.09 | 0.25 | 0.25 | 0.16 | 0.08 | 52.91 |
| 4 | Khed | 0.08 | 0.03 | 0.03 | -0.02 | -0.04 | 0.05 | 0.06 | 0.05 | 0.15 | 0.12 | 0.05 | 0.05 | 106.84 |
| 5 | Manchar | 0.09 | 0.11 | 0.11 | 0.08 | 0.04 | 0.08 | 0.11 | 0.03 | 0.02 | 0.06 | 0.07 | 0.03 | 44.20 |
| 6 | Nira | 0.05 | -0.24 | -0.14 | -0.65 | -2.32 | -0.99 | 1.4 | 0.64 | 0.24 | 0.27 | -0.17 | 0.95 | -547.10 |
| 7 | Pune | 0.14 | 0.14 | 0.04 | 0.01 | 0.06 | 0.03 | 0.05 | 0.07 | | | 0.07 | 0.05 | 66.97 |
| 8 | Shirur | -0.1 | -0.05 | 0.03 | 0.01 | -0.19 | -0.44 | -0.3 | 0.01 | 0.06 | 0.22 | -0.08 | 0.18 | -241.86 |

**Table No. 6.26 : Average Ratios of Selected APMCs
for 10 Years (2000-01 to 2009-10)**

| Name of APMC | Name of the Ratio | | | | | |
|--------------|-------------------|------------------|--------------------------|----------------------|------------|------------------|
| | Current | Capital Turnover | Working Capital Turnover | Total Asset Turnover | Net Profit | Return On Equity |
| Baramati | 1.21 | 0.20 | 18.66 | 0.16 | 0.12 | 0.03 |
| Indapur | 7.53 | 0.32 | 2.47 | 0.16 | 0.18 | 0.06 |
| Junnar | 0.45 | 0.49 | -0.87 | 0.18 | 0.34 | 0.16 |
| Khed | 10.41 | 0.33 | 1.38 | 0.19 | 0.14 | 0.05 |
| Manchar | 2.38 | 0.23 | 2.12 | 0.12 | 0.33 | 0.07 |
| Nira | 0.47 | 0.80 | 1.14 | 0.23 | -0.16 | -0.17 |
| Pune | 1.06 | 0.46 | 64.05 | 0.23 | 0.74 | 0.07 |
| Shirur | 0.55 | 0.39 | -2.85 | 0.09 | -0.10 | -0.08 |
| Total | 24.07 | 3.21 | 86.10 | 1.36 | 1.59 | 0.19 |
| Average | 3.01 | 0.40 | 10.76 | 0.17 | 0.20 | 0.02 |

Current Ratio :

Current Ratio indicates the availability of current assets to meet current liabilities. This ratio gives the margin by which the value of current assets may decline without creating any problem of payment for the firm. The higher is the current ratio, the greater margin would be available and the lower is the current ratio, the lesser margin would be available to the firm.

The yearwise data on current ratios of the selected APMCs have been presented in Table 6.25.1. It shows that no specific trend was observed in case of all APMCs. The highest average (10.41) in respect of this ratio was observed in case of APMC Khed and the lowest one (0.45) was observed in case of Junnar APMC. As regards the variation in current ratios over the ten years period it was observed that the lowest variation (C.V = 24.99%) in case of Pune APMC followed by APMC Shirur (C.V = 41.68%). The highest variation (C.V = 109.08%) was observed in case of APMC Baramati on the whole. The average ratio for Khed APMC has been the best followed by Indapur and Manchar APMC. As against this, the ratio was poor in respect of Junnar, Nira, and Shirur APMC. The low ratio suggests that APMCs are finding it difficult to meet their current liabilities.

Capital – Turnover Ratio :

The capital turnover ratio indicates the ability of the APMC to generate income per rupee of long term investment. Higher the ratio,

the more utilization of the funds. A lower ratio indicates lower income generated in relation to capital employed. The yearwise data of this ratio of all APMCs has been given in Table 6.25.2. As we can see, this ratio has been consistent for all the APMC except in the year 2007 – 08 which recorded a sharp drop in the ratio for all the APMCs.

APMC Manchar have not been able to increase the ratio as it failed in increasing the income by a large margin.

On examining the variation in ratios over the 10 years period it was observed that APMC Nira showed highest variation (29.61%) followed by Shirur (28.98%) and Khed (27.44%). The remaining APMCs had the variation within the range of 18.79% to 22.10%. However, if we compare average ratio, the APMC of the Nira and Junnar have performed well, they had average capital turnover ratio of 0.80 and 0.49 respectively. As against this Baramati, Manchar, Indapur and Khed APMC have not performed well because they had low capital turnover ratios viz. 0.20, 0.223, 0.32 and 0.33 respectively.

Working Capital Turnover Ratio :

Working capital turnover ratio studies utilization of the working capital of the APMC during the year. Higher the ratio, lower the investment in working capital & higher the profitability. However, a high ratio implies lower working capital in relation to its sales volume.

The values of the ratios shown in the table no. 6.25.3 showed that average working capital ratio were negative in respect of Junnar (-0.87) and

Shirur (-2.85) APMCs. The highest average values were observed to be 64.05 in case of Pune APMC followed by Baramati (18.66), Indapur (2.47), Manchar (2.12), Khed (1.38) and Nira (1.14)

Total Assets Turnover Ratio :

The Total Assets Turnover Ratio indicates the efficiency of the APMC with which the total assets are utilized. A higher ratio indicates better utilization of resource and lower ratio indicates poor utilization of resources. The ratios of the selected APMC have been shown below in Table 6.25.4. The APMC have shown consistent trend during 10 years period except the year 2007–08 during which the ratio sharply declined.

On comparison of the average Total Assets Turnover Ratios, Nira and Pune APMC have performed well in comparison to remaining APMCs. The APMC of Shirur have shown poor performance as its ratio was 0.09. As regards the variability in values of these ratios, it was observed the Co-efficient of Variation were higher in case of APMC of Shirur 50.47% and Nira 30.11% and Junnar 28.94%.

It needs to mentioned that the APMCs should increase their income with a view to have higher Total Assets Turnover Ratio and show best utilization of available assets.

Net Profit Ratio :

The Net Profit Ratio helps in determining the efficiency with which affairs of the business are being managed. An increase in the ratio over the previous period indicates in operational efficiency of the business. The ratio is thus an effective measure to determine the profitability of the APMC.

The Net Profit Ratios averaged over 10 years period, it was observed that the ratios were higher in respect of APMC Pune (0.74), Junnar (0.34) and Manchar (0.33) as compared to those of remaining APMCs. The APMC namely Nira and Shirur had negative net profit ratios indicating these APMC are running in losses. Further it was observed that the values of Co-efficient of Variation were negative in respect of Nira and Shirur APMCs. The Khed APMC has high C.V. of 103.39%. The Pune APMC showed lowest value of Co-efficient of Variation (6.17%) showing thereby that there exists consistency in net profit ratio over 10 years period. The APMC Junnar and Manchar also performed fairly well as they had moderate values of co-efficient of variation namely 44.11% and 34.68% respectively.

Return on Equity Ratio :

The Return on Equity Ratio examines profitability from the investors side. This ratio indicates as to how well the funds of the investor have been utilized by the APMC. It also indicates whether

the APMC have been able to earn satisfactory return or not. The values of ratios were higher in case of Junnar APMC (0.16), Pune (0.07) and Manchar (0.07) as compared to remaining APMCs. The negative value of ratios were observed in respect of APMC Nira (-0.17) and Shirur (-0.08). The variability in the ratios was observed to be least (44.20%) in case of Manchar APMC followed by Junnar, Indapur, Pune, Baramati and Khed where the values of Co-efficients of Variation were 52.91%, 66.56%, 66.97%, 75.36% and 106.84% respectively.

6.10 Testing of Hypothesis

While planning for the research on the present topic, three hypotheses were set up. Keeping in view the objectives of the study, the research work was undertaken as per methodology given in chapter III and on the basis of analysis of data collected in respect of 9 APMCs for the period of 10 years and that of one viz. Talegaon APMC for seven years, the results of the study have been discussed in chapter VI. However, it is absolutely essential to test the hypotheses as to conclude that the hypotheses have been proved or disproved. The same have been presented below.

Hypothesis I : There is much increase in income and expenditure of the selected APMCs.

From the Table 6.4 presented in chapter VI, it could be seen that linear growth rates of income in respect of all eight APMCs were positive and significant and those of other two APMCs viz. Nira and Talegaon, the linear growth rates were statistically non-significant. Hence, it can be said that, on the whole, the hypothesis about the increase in income of the selected APMC is proved. As regards the linear growth rates of expenditure, it was observed that out of 10 APMC, the growth rates were significant in case of two APMCs only viz. Indapur and Junnar, while for the rest of the APMCs, the growth rates were non significant. And as such the hypothesis about the increase in expenditure of the selected APMCs is disproved, in respect of eight APMCs, while for the remaining two APMCs viz. Indapur and Junnar, the said hypothesis can be said to be proved.

In connection with the issue of increase in both income and expenditure, it needs to be stated that the APMC should spend less than

what it gets. The situation of increase in both income and expenditure is not desirable, as the APMC is expected to save some surplus over the years with a view to face the situation of losses in some years. There for the situation of increase in income and no much increase in expenditure is desirable, so as to have some surplus over the years.

Hypothesis II : There is no much surplus left out for the APMCs during the period of 10 years.

The results of annual surplus of the selected APMCs are given in Table 6.10. It could be observed that there was sizable surplus in case of six APMCs, while one APMC viz. Daund could earn very low surplus. In case of the rest of APMCs viz. Nira, Shirur and Talegaon, the average surplus was negative. And hence the hypothesis set up in respect of surplus is true in case of seven APMCs while it can not be said as true in respect of three APMCs viz. Nira, Shirur and Talegaon.

Hypothesis (III)

For testing the hypothesis viz. "At the overall, the financial performance of the APMC's under study do show their better performance over the years". The following selective financial ratios as mentioned below were worked out for each of the APMCs under study.

- i] Current Ratio
- ii] Capital Turn Over Ratio
- iii] Working Capital Ratio
- iv] Total Asset Turn-over Ratio
- v] Net Profit Ratio
- vi] Returns on Equity Ratio

At first, the information on the Mean values, Standard Deviation and the Co-efficient of Variation (C.V.) of the above ratios is presented in Table no.6.27.1 to 6.27.6 to facilitate the discussion on soundness of financial position of the selected APMCs.

The mean values of various ratios are based on the ratios worked out for ten years separately.

The same has been discussed below.

Table No. 6.27

Estimates of Financial ratios of Selected APMCs in Pune District : its mean, S.D. and C.V.

Table no. 6.27.1 : Current Ratio

| Names of APMCs | Mean | σ | C.V. % |
|----------------|-------|----------|--------|
| Baramati | 1.21 | 1.32 | 109.08 |
| Indapur | 7.53 | 6.54 | 86.86 |
| Junnar | 0.45 | 0.20 | 43.53 |
| Khed | 10.41 | 4.95 | 47.58 |
| Manchar | 2.38 | 1.19 | 50.13 |
| Nira | 0.47 | 0.25 | 53.25 |
| Pune | 1.06 | 0.27 | 24.99 |
| Shirur | 0.55 | 0.23 | 41.68 |

Table no. 6.27.2 : Capital Turn Over Ratio

| Names of APMCs | Mean | σ | C.V. % |
|----------------|------|----------|--------|
| Baramati | 0.20 | 0.04 | 19.33 |
| Indapur | 0.32 | 0.07 | 22.10 |
| Junnar | 0.49 | 0.10 | 21.37 |
| Khed | 0.33 | 0.09 | 27.44 |
| Manchar | 0.23 | 0.04 | 18.79 |
| Nira | 0.80 | 0.24 | 29.61 |
| Pune | 0.46 | 0.09 | 20.51 |
| Shirur | 0.39 | 0.11 | 28.98 |

Table no. 6.27.3 : Working Capital Ratio

| Names of APMCs | Mean | σ | C.V. % |
|----------------|-------|----------|---------|
| Baramati | 18.66 | 78.15 | 418.73 |
| Indapur | 2.47 | 1.63 | 66.28 |
| Junnar | -0.87 | 0.82 | -95.23 |
| Khed | 1.38 | 0.60 | 43.63 |
| Manchar | 2.12 | 17.08 | 806.25 |
| Nira | 1.14 | 7.90 | 692.44 |
| Pune | 64.05 | 200.04 | 312.33 |
| Shirur | -2.85 | 3.25 | -114.13 |

Table no. 6.27.4 : Total Asset Turn Over Ratio

| Names of APMCs | Mean | σ | C.V. % |
|----------------|------|----------|--------|
| Baramati | 0.16 | 0.03 | 19.33 |
| Indapur | 0.16 | 0.02 | 14.49 |
| Junnar | 0.18 | 0.05 | 28.94 |
| Khed | 0.19 | 0.03 | 16.64 |
| Manchar | 0.12 | 0.02 | 16.72 |
| Nira | 0.23 | 0.07 | 30.11 |
| Pune | 0.23 | 0.04 | 17.17 |
| Shirur | 0.09 | 0.05 | 50.47 |

Table no. 6.27.5 : Net Profit Ratio

| Names of APMCs | Mean | σ | C.V. % |
|----------------|-------|----------|---------|
| Baramati | 0.12 | 0.08 | 64.23 |
| Indapur | 0.18 | 0.10 | 55.84 |
| Junnar | 0.34 | 0.15 | 44.11 |
| Khed | 0.14 | 0.14 | 103.39 |
| Manchar | 0.33 | 0.11 | 34.68 |
| Nira | -0.16 | 0.26 | -159.77 |
| Pune | 0.74 | 0.05 | 6.17 |
| Shirur | -0.10 | 0.23 | -222.80 |

Table no. 6.27.6 : Return on Equity Ratio

| Names of APMCs | Mean | σ | C.V. % |
|----------------|-------|----------|---------|
| Baramati | 0.03 | 0.02 | 75.36 |
| Indapur | 0.06 | 0.04 | 66.56 |
| Junnar | 0.16 | 0.08 | 52.91 |
| Khed | 0.05 | 0.05 | 106.84 |
| Manchar | 0.07 | 0.03 | 44.20 |
| Nira | -0.17 | 0.95 | -547.10 |
| Pune | 0.07 | 0.05 | 66.97 |
| Shirur | -0.08 | 0.18 | -241.86 |

σ = Standard Deviation.

C.V. % = Co – efficient of Variation.

The discussion on six ratios as presented in Table 6.27.1 to Table 6.27.6 is as below.

1] Current Ratio :-

For discussion on the Current ratio the data presented in Table No. 6.27.1 has been taken into account.

Baramati APMC :

The Current Ratio figures of this APMC, ranged from 0.41 (2008-09) to 4.92 (2001-02) leading to overall average of 1.21. Average current ratio is non satisfactory. It has high S.D. which led to high value of C.V.

(109.08%). It means, the current Ratio Values over the years did not remain stable.

Indapur APMC :-

The overall average of 9 years, the Current Ratio came out to 7.53. Although average current ratio is better but it has relatively high SD of (6.54) which lead to high value of CV (86.86%). This ratio has increased during first eight years but later on decreased during 2009-10.

Junnar APMC :-

The overall average of Current Ratio over 10 years came out to very low figure (0.45) with slight S.D. of 0.20 and C.V. of 43.53 %.

Khed and Manchar APMCS :-

The Current Ratio in respect of these two APMCs were found to be better 10.41 of Khed and 2.38 of Manchar leading to CV of 47.58% and 50.13 respectively. These two APMCs are better as far as their financial position is concerned.

Nira, Shirur and Pune APMCs :-

The situation of Current Ratio in case of these three APMCs were found unsatisfactory. The current ratios were 0.47 of Nira, 1.06 of Pune and 0.55 of Shirur leading to CV of 53.25%, 24.99% and 41.68% respectively.

It is to mention that the APMCs who's current ratios were low will have to be very cautious in operating their Agriculture Produce Market Committees.

2] Capital Turn-Over Ratio :-

The data presented in Table 6.27.2 showed that the Capital turn over ratios of 7 APMCs out of eight were far below (1.00) and for the APMC Nira it was (0.80) with high value of SD (0.24) leading to high CV (29.61%). Therefore the financial position of all the APMCs are not at all better

3] Working Capital Turn-Over Ratio

Table No. 6.27.3 showed that the APMCs Junnar and Shirur had negative Working Capital Turn Over Ratio, meaning there by that these APMCs showed unprofitable working. The Nira APMC showed negative ratio during 9 years. It is only in 2009-10, the ratio was exceptionally high, leading to overall average value of Working Capital Turn Over Ratio as 1.14. The Baramati, Pune & Manchar APMCs showed negative ratios for seven years, four years and two years respectively. In case of Baramati APMC the ratio was exceptionally high in 2009-10. And in case of Pune APMC it was high in 2001-02 and 2009-10. As such at the overall it is concluded that the APMCs are not financially sound.

4] Total Asset Turn-Over Ratio

As could be seen from the Table No. 6.27.4 that the total Asset Turnover Ratio of all the 8 APMCs were far below 1 with higher C.V. in respect of three APMCs viz. Shirur, Nira & Junnar as compared to those of remaining five APMCs. However, considering the very low values of Total Asset Turnover ratios, all the APMCs showed poor financial position.

5] Net Profit Ratio

Out of 8 APMCs, 2 APMCs viz. Nira and Shirur showed negative figures of this ratio (-0.16) and (-0.10). Remaining six APMCs showed

some surplus of the order of 12% to 74%. However, on going through the value of Net Profit Ratios (Table No.6.27.5) of remaining 6 APMCs viz. Baramati, Indapur, Junnar, Khed, Manchar and Pune it was observed that the ratios were positive and have fair values, though with high S.D values. However, the average estimates of Net Profit Ratio had high values of S.D. leading to high C.V. in almost all APMCs except Pune.

6] Return on Equity ratio :-

In case of this ratio, the same trend was observed as was observed in respect of Net Profit Ratio.

Overall Conclusions

Barring the two APMCs, viz. Nira and Shirur the remaining six APMCs were found to be partially financially better, as (1) their Net Profit Ratios and Return on Equity Ratio were rather fairly good (2) the third ratio viz. current ratio was fairly good only in respect of three APMCS viz. Khed, Indapur and Manchar, (3) and remaining two APMCs Nira and Shirur showed all the six ratios unsatisfactory. These two APMCs should be very serious for its improvement.

In view of the conclusions, based on Capital Turnover Ratio, Working Capital Turnover Ratio and Total Asset Turnover ratio in respect of all 8 APMCs and Current Ratio in respect of six APMCs, it is to state that the financial position of these APMCs is very weak.

However, on going through the values of Net Profit ratio and Returns on Equity ratio, the values are positive and just fair, in respect of six APMCs viz. Baramati, Indapur, Junnar, Khed, Manchar and Pune. And current ratio in respect of three APMCs viz. Khed, Manchar and Indapur. This has led to conclude that these six APMCs remained in operating the Regulated Agricultural Produce Markets with just normal

profits. As regards, the other two APMC's viz. Nira and Shirur, it was observed that the values of Net Profit ratio and Returns on equity ratio and current ratio were unsatisfactory, indicating that these two APMCs are financially weak and needs serious thinking for its improvement in these financial ratios.

The above discussion leads to conclude that the hypothesis as stated above is partly proved in respect of six APMC's viz. Baramati, Pune, Junnar, Khed, Manchar, Indapur while for other two APMCs viz. Nira and Shirur, the hypothesis is disproved.

Table No. 6.28

A Table :- Average Estimates of financial Ratios of the selected APMC's in Pune District.

| Ratios -> APMC ↓ | Current Ratio | Capital Turnover Ratio | Working Capital Turnover Ratio | Total Asset Turnover Ratio | Net Profit Ratio | Return on Equity Ratio |
|------------------------------------|--------------------------|---------------------------------------|---|---|---------------------------------|---|
| Baramati | 1.21 | 0.20 | 18.66 | 0.16 | 0.12 | 0.03 |
| Indapur | 7.53 | 0.32 | 2.47 | 0.16 | 0.18 | 0.06 |
| Junnar | 0.45 | 0.49 | -0.87 | 0.18 | 0.34 | 0.16 |
| Khed | 10.41 | 0.33 | 1.38 | 0.19 | 0.14 | 0.05 |
| Manchar | 2.38 | 0.23 | 2.12 | 0.12 | 0.33 | 0.07 |
| Nira | 0.47 | 0.80 | 1.14 | 0.23 | -0.16 | -0.17 |
| Pune | 1.06 | 0.46 | 64.05 | 0.23 | 0.74 | 0.07 |
| Shirur | 0.55 | 0.39 | -2.85 | 0.09 | -0.10 | -0.08 |

All the above six ratios are based on 10 year's data (2000-01 to 2009-10).

Table No. 6.29

Table:- Statement showing the Net Profit and Returns on Equity in percentage terms.

| Sr. No. | Name of APMC | Net Profit in % | Returns on Equity in % |
|----------------|---------------------|------------------------|-------------------------------|
| 1 | Baramati | 12 | 3 |
| 2 | Indapur | 18 | 6 |
| 3 | Junnar | 34 | 16 |
| 4 | Khed | 14 | 5 |
| 5 | Manchar | 33 | 7 |
| 6 | Nira | -16 | -17 |
| 7 | Pune | 74 | 7 |
| 8 | Shirur | - 10 | - 8 |
| 9 | Daund | N.A. | N.A |
| 10 | Talegaon | N.A. | N.A |

N.A. :- It means Not Available.

CHAPTER VII

SUMMARY, FINDINGS AND RECOMMENDATIONS

7.1 Summary

7.2 Findings of the study (A)

7.3 Findings of the study (B)

7.4 Recommendations

7.1 Summary

Marketing of agricultural production plays an important role in protecting the interest of the producers of various agricultural commodities. With the introduction of modern technology of agricultural production since 1964, the Government both at Central and State level tried hard to increase the agricultural production in the country. As a result, the agricultural production has been increased to high level. This has resulted into some problems in marketing of such high production of agricultural commodities. The Government intervened in such a burning issue of marketing of high production and passed various acts relating to marketing of agricultural production. And as such, the agricultural produce regulated markets have been established all over the country.

In Maharashtra, the no. of such regulated markets (including sub yards) so established has reached to 912 till 2011. All these regulated markets established under the Act (Regulation) of 1963 and subsequent Acts passed there after are being administered by the Committee called as Agricultural Produce Market Committee (APMC).

These Committees have to operate the Agricultural Produce Regulated Markets successfully both from the administrative and the financial points of view. The present study has been planned with the following objectives.

- I] To study the income, expenditure and surplus (profit) of the selected APMCs for the period 2000 – 01 to 2009 – 10.
- II] To examine the trend of income and expenditure of the selected APMCs.
- III] To study the relationship between income and expenditure of the selected APMCs.
- IV] To examine the growth rates of arrivals and average prices of important agricultural commodities traded at the agricultural produce regulated markets.
- V] To study critically the important financial ratios of the selected APMCs.

For the study 10 out of 12 APMCs of the regulated markets located mostly at the tahsil places of Pune district were selected for the present study. The selected 10 APMCs spread over the district represent the Pune district. To achieve the objectives as laid down for the study, a secondary data of ten APMCs for a period of 10 years viz. 2000 – 01 to 2009 – 10 was collected personally from the office-bearers of the respective APMCs. The names of Agricultural Produce Regulated Markets located at the following places were selected for the study.

- | | |
|-----------------------------|--------------------------------|
| 1] Baramati | 2] Daund |
| 3] Indapur | 4] Junnar |
| 5] Khed | 6] Manchar (Tahsil : Ambegaon) |
| 7] Nira (Tahsil : Purandar) | 8] Pune |
| 9] Shirur | 10] Talegaon (Tahsil : Maval) |

Research Methodology

The research methodology employed in the present study was as under.

- 1] Estimation of annual average income, expenditure and surplus of the selected APMC along with their Standard Derivation and Co – efficient of Variation.
- 2] Trend analysis of data on income, expenditure of the selected APMCs by examining the percentage changes in income and expenditure over its preceding years.
- 3] Estimation of values of Correlation Co-efficient for studying the relationship between income and expenditure of the selected APMCs by using Karl Pearsons formula.
- 4] Estimation of linear growth rates of arrivals and annual prices of the important agricultural commodities traded at the selected regulated agricultural markets.
- 5] Estimation of important financial ratios in respect of the selected APMCs, by using the relevant formulae.

7.2 Findings of the Study (A)

- 1] The annual average income of the APMCs (excluding Pune and Talegaon) ranged from Rs.18.66 lakhs (Nira APMC) to Rs.136.03 lakhs (Junnar APMC) while the annual average expenditure of the APMCs (excluding Pune and Talegaon APMCs) ranged from Rs.20.45 lakhs (Nira APMC) to Rs.95.69 lakhs (Khed APMC)
- 2] The Pune APMC being the biggest market had annual average income of Rs.1749.35 lakhs as against the annual average expenditure of Rs.1574.27 lakhs.

- 3] Talegaon APMC, being the smallest one, had an annual average income of Rs.3.86 lakhs as against its average expenditure of Rs.5.07 lakhs.
- 4] Regarding the variability in income during 10 years period, it was observed that the variability was the highest (60.40%) on APMC Junnar and the lowest one (17.37%) on APMC Talegaon.
- 5] Regarding the variability in annual expenditure, it was the highest (46.40%) on Pune APMC while it was the lowest (6.31%) at Talegaon APMC.
- 6] Regarding the annual average surplus it was observed that the APMC Pune topped the list (Rs.175.09 lakhs), followed by the APMC Junnar (Rs.56.52 lakhs) while the APMC Shirur ranked last number receiving average annual deficit of Rs.2.13 lakhs.
- 7] As regards the total no. of years of surplus during the period of 10 years it was observed that the three APMCs viz, Baramati, Junnar and Manchar secured surplus during all 10 years period. The APMC Indapur suffered deficit only in one year. While Daund and Khed APMC twice and the remaining APMCs viz. Nira, Talegaon and Shirur suffered losses during 7, 7 and 6 years respectively. Talegaon APMC did not secure surplus during any of the years.

8] Trend Analysis

For carrying out the trend analysis of income of the APMC, the change in average income of a particular year over that of its previous year is expressed in percentage term. This is done for the 10 APMCs. The observations are as under.

i) Annual Income :

The overall average of 10 Years changes in income was observed to be positive in case of all the APMCs excepting the APMC Talegaon (-3.90%). It was the highest (40.91%) in case of APMCs Junnar. For the rest of the APMCs (excluding Talegaon APMC), it ranged from 15% to 23.47%. While in case of rest of the APMCs, the negative changes were observed two to four times during 10 years period.

ii) Annual Expenditure :

The average percentage change in expenditure over its previous year was observed to be the highest (40.43%) at Pune APMC. In case of the remaining APMCs (excluding Talegaon), the percentage changes ranged from 4.80% (Nira APMC) to 28.45% (APMC Baramati).

On comparing the average income change (%) with the average expenditure change (%), it was observed that the percentage changes in income were higher than the percentage changes in expenditure in cases of 5 APMCs only viz Indapur, Junnar, Khed, Nira and Shirur.

Correlation Analysis :-

Each and every APMC is expected to incur the expenditure in relation to availability of income.

To verify this statement a correlation analysis was carried out by estimating the value of correlation coefficient. The formula evolved by Karl Pearson was used. The values of 'r' worked out for all 10 APMCs showed that the relationship between annual income and annual expenditure was statistically highly significant in case of all APMCs (excepting Nira and Shirur). The values of 'r' in case of these APMCs were significant at 5% level. This showed that each and every APMC incurred the yearly expenditure, keeping in view the level of income during the year.

Linear Growth Rates :-

A] Income of the selected APMCs :-

The growth rates of income was the highest (17.81%) in case of Junnar AMPC followed by AMPC Indapur (11.77%) and AMPC Khed (10.78%) and Daund AMPC (10.74%). The growth rates in respect of AMPCs Manchar, Pune, Shirur and Baramati were more or less the same. The growth rates in respect of Nira and Talegaon AMPC were very low and non-significant.

B] Expenditure of the selected APMCs :-

It could be observed that the highest growth rate was observed in respect of AMPC Manchar (12.37%) followed by AMPC Pune (11.94%) and AMPC of Junnar (11.02%). In case of Baramati, Indapur, Khed and Shirur AMPCs, the values were more or less the same and lower than those of Pune and Manchar AMPCs. The values were negative in respect of Nira AMPC (-1.02%) and Talegaon (-0.61%).

It is to be mentioned here that the lower values of growth rate do not indicate the AMPCs are sound enough. It would be appropriate if the growth rates of surplus are examined critically.

C] Surplus of the selected APMCs :-

The linear growth rates of surplus of the AMPCs under study, showed that the values of growth rates of Indapur AMPC (23.78%) and Junnar AMPC (27.36%) were not only high but also were significant. This showed that these two AMPCs were well cautious in operating their markets on well profitable lines over ten years period. The remaining APMC viz. Baramati, Daund and Khed had, no doubts positive linear growth rates viz. 10.23%, 11.00% and 24.48%. But these values were statistically non – significant. The APMC Manchar and Talegaon had very low growth rates viz. 3.19% and 7.23% respectively. Further, it could be seen that the APMCs viz. Nira, Pune and Shirur had negative values of surplus growth rates but were non-significant. However, on the basis of these figures of negative growth rates of surplus, it needs to be mentioned that these APMCs have to attempt to increase their level of Surplus higher and higher in years to come.

D] Annual Agricultural Arrivals and Average Prices in selected APMCs :-

It is fact that the income from market fee to the APMC would increase the income of the APMC. So also, the increase in market fee is dependent on arrivals and prices of commodity. This phenomenon was examined by estimating the linear growth rates both of annual arrival and annual average prices of the various agricultural commodities traded in the regulated markets. It showed that the linear growth rates were satisfactory and positive in case of annual arrivals of cereal crops and also of annual prices at all the APMCs excepting that of Talegaon market. Regarding the pulses, the situation of growth rate was not better as is observed in case of cereal crops. Regarding oil seeds, the linear growth rates both of annual arrivals and prices were fairly good. In case of

jaggary, though a commercial commodity, the growth rates of annual arrivals were negative. As against this, the growth rates of prices of jaggary were positive.

7.3 Findings of the study (B) :-

I] Financial Analysis

The financial analysis of the APMCs selected for study was carried out on the basis of 10 year statement of accounts called as financial statements. These statements were as follows

- 1) Comparative income statement
- 2) Comparative Balance sheet
- 3) Common size Balance sheet
- 4) Common size income statement

II] Ratio Analysis

The ratio analysis of the data presented in above financial statements was carried out to judge the financial efficiency of the APMCs selected for the study. The following ratios were considered for analysis in the present study.

1) Current Ratio

Current ratio indicates the availability of current assets to current liabilities. On an average of 10 years, the current ratio was the highest in respects of Khed APMC (10.41) followed by Indapur APMC(7.53) and Manchar APMC (2.38), meaning there by the sufficient margin is available to meet current liabilities. For the

remaining APMCs it was low, ranging from 0.47 to 1.21, meaning that the lesser margin is available to meet current liabilities

2) Capital Turnover Ratio

This ratio indicates the turnover achieved over fixed capital invested. Higher is the ratio, better utilization of fixed capital. This ratio was highest (0.80) in case of Nira APMC while it was the lowest (0.20) in case of Baramati APMC. This suggests the income of APMC should be increased by increasing the total amount of market fees.

3) Working Capital Turnover

This ratio was calculated as below

$$\text{Working Capital Turnover} = (\text{Turn over} / \text{Working Capital})$$

It was observed that, this ratio were minus in case of two APMCs viz Junnar (-0.87) and Shirur (-2.85). It indicate that the current liabilities are more than current assets. The Nira APMC has negative ratio during nine years it was high in 2009-10 leading to overall average value of ratio as 1.14. Similarly the APMCs Baramati, Pune and Manchar showed negative ratios for seven years, four years and two years respectively. In case of Baramati APMC this ratio was exceptionally high in the year 2009-2010 and in case of Pune APMC it was high in the year 2001-02 and 2009-10. As such it could be concluded that the APMCs are not financially sound.

4) Total Asset Turnover Ratio

This was calculated as follow

$$\text{Total Asset Turnover Ratio} = (\text{Turn over} / \text{Total Asset})$$

This ratio indicates that the turnover is achieved by using all the assets. It was observed, that this ratio ranged from 0.09 to 0.23. These ratios are very low and needs to be increased.

5) Net Profit Ratio

This was calculate = (Net Surplus / Total Receipts)

It is expected that the ratio should be higher and higher. It was observed that these ratios were found to be ranging from 0.12 to 0.74 excepting those of Nira and Shirur APMCs of which the ratios were - 0.16 and -0.10.

6) Return on Equity Ratio

This ratio was higher in case of Junner APMC (0.16) as compare to those of remaining APMCs. The negative values of ratios were observed in respect of APMC Nira (-0.17) and Shirur (-0.08).

III] Testing of Hypothesis :-

The three hypotheses were set up for the study.

The first hypothesis :- The first hypotheses “There is much increase in income and expenditure of the selected APMCs”, was partly proved as shown below.

- 1] The hypothesis about the increase in income of the selected APMCs is proved.
- 2] The hypothesis about the increase in expenditure partly true. It was true in respect of two APMCs viz. Indapur and Junnar APMCs while in respect of remaining eight APMCs, the hypothesis was not true.

The Second hypothesis :- The second hypothesis was as below.

There is no much surplus left out for the APMCs during the period of 10 years.

This hypothesis was observed to be false in respect of three APMCs viz. Nira, Shirur and Talegaon and for rest of the seven APMCs, the hypothesis was observed to be true.

The Third hypothesis :- The third hypothesis was about the six financial ratios, selected for analysis. It is as follows:

At the overall the financial performance of the APMCs under study do show their better performance over the years.

This hypothesis was observed to be partly true in case of six APMCs viz. Baramati, Indapur, Junnar, Khed, Manchar and Pune, as -

1. The financial ratios viz. (i) Net Profit Ratio, (ii) Return on Equity Ratio were observed to be better in respect of these 6 APMCs.
2. The current ratios were better in respect of three APMCs viz. Khed, Indapur and Manchar APMCs, while for the rest of the APMCs viz. Shirur, Nira none of the six ratios were satisfactory. This leads to conclude that the hypothesis in respect of these two APMCs was not true.

7.4 Recommendations:

Following are the recommendations suggested for the improvement in the financial status of the Agriculture Produce Market Committees

- 1) The APMCs should be cautious in planning the items of expenditure, keeping in view the probable income of the committee every year

- 2) The APMCs which are marginally in profit should strive hard for taking up the APMCs to higher level of profit, by way of increasing the income from other sources such as rent, interest on savings, deposits, etc.
- 3) In order to increase income from market fees, the APMC needs to try for attracting the producers for bringing their produce to the market by way of displaying facilities available in the market. If needed, the committee members should visit periodically the villagers, and hold their meetings and distributes the hand bills about the facilities available at APMC and request or sale of crops produce in their market only.
- 4) In case of losses continuously for two years or frequent losses, the committee needs to go for increase in the income through other activities like opening sale counters of improved seeds, manures, pesticides, equipments etc.
- 5) It would be appreciated that in case of frequent losses of the APMC, the committee should visit near by regulated market, controlled efficiently by the committee and have dialogue with committee members regarding the operations of their market activities.
- 6) Lastly, wherever necessary, the committee should adhere to good management practices, strict supervision over their various functionaries, honesty and dedication of members of the APMC to various functions of the committee.

BIBLIOGRAPHY

Literature Reviewed -

- Acharya , S.S (1998), "Agricultural Marketing in India: Some Facts and Emerging Issues" Indian J. of Agril.Econ.Econ 53(3): 311-329.
- Anonymous (2012), "Department of Agril. Economics, A report of the Research Work, 2011-2012(Mimeo)". To Mahatma Phule Krishi Vidyapeeth, Rahuri Dist. Ahamednagar (Maharashtra). Pp.99-108.
- Anonymous (2012), "Department of Agril. Economics, A report of the Research Work, 2011-2012(Mimeo)".To Mahatma Phule Krishi Vidyapeeth, Rahuri Dist. Ahamednagar (Maharashtra). Pp.910-126.
- Ajjan, N. (1986), "Regulated Markets in Tamil Nadu:A Malody Remedy Analysis", Agril. Situation in India,41(9):455-458.
- Anonymous (2001), "Summary of discussions and Recommendation Of the 14th held al. Visakhapathanam on 3rd, 4th, 5th Feb 2001 India J. of Agril Mktg. 15(2) Pp. 58-61.
- Arya, A (1992), "Trends and Determinants of Income of Regulated Markets of Kheda District: A Note" , Econ Affairs Calcutta 37(3) : 179-181.
- Biradar, R.D. (1989), "Effectiveness of Regulated market in Protecting the Interest of Cultivators at the market Place." A case study of APMC Kolhapur, M.S. 32(1):25 – 28 J. of Agril Economics.
- Brahma Prakash and Sushila Shrivastava, (1997), "A study of impact of market Regulations in U.P." Ind.J. of Agril Mktg., 11(1)= 85-86
- Chikara O.P. Kumar K. and Singh H (1998), "Agricultural Regulated Markets in Haryana: Problems And projects" J. Agril Economics , 53(3) : 420
- Deogirkar, A.V. (2002), "Organizational and Management Constraints Of Agricultural Produce Market Committee Washim in Maharashtra: A case study." M.Sc.(Agriculture) thesis, submitted to the Mahatma Phule Krishi Vidyapeeth, Rahuri Dist. Ahamednagar (Maharashtra).

- Grover R.K, Suhag K.S. and Niwas S. (1994), "Pattern of Arrivals and Infrastructural Development In Wholesale Markets of Haryana" Indian J. of Agril Mktg. 1994, Special Issue, 92-98
- Jain, B.C. (1998), "Market Structure and Performance of Regulated Market" J. of Agril Econ. 53(3): 400-401
- Kambali, S.J. (2005), "Organisational Structure and Marketing Management of Agricultural Produce Marketing Committee , Vashi, Navi Mumbai" A case study M.Sc.(Agriculture) thesis submitted To Mahatma Phule Krishi Vidyapeeth, Rahuri Dist. Ahamednagar (Maharashtra).
- Kalyankar S.P. and Shelke, R.D. (1998), "Patterns of Market Arrivals and Prices of Tomato in Parbhani District of Maharashtra state" J. of Agril.Econ. 53(3): 423-424
- Kaur Paraminder and Kaur Arjinder (2003), "Progress and performance of Regulated Markets In Punjab" Ind.J. Agril Mktg. 17(1) :34-39
- Khodiar , M. B. , K. L. Antoni and V.M. Patel,(2002), "Management Effectiveness and working of Selected Regulated Markets in Kachchh dist. Gujarat state. The bihar journal Agril Mktg. 10(1):100-104
- Mishra A.M. and shrivastav A. (1998), "Trends in Market Arrivals and Prices of Gram and soyabean in two mandies of M.P." J. of Agril-Econ.53(3):402-403
- Nare N. M., (1995), "Functioning at Regulated Markets in Maharashtra With Special Reference to Pune District" Ph.D thesis, submitted to the University of Pune, Maharashtra, (India).
- Nawadkar, D.S, Pagire, B.V. Pokharkar V.G. and Sale D.L. (1992), "Arrivals and Prices of Selected Commodities In Pune Regulated Market of Maharashtra state" Indian J. of Agril. Mktg 6(2): 8-11
- Pagire B.V. , Shinde H.R. , Mali B.K , and Yadav D.B. (2000), "Progress and Performance of Rahuri APMC: A case study" Indian J. of Agril Mktg 14(3)=38

- Pannambalam R. (2001), "Ideal Marketing Environments-A Solution to increase Financial Efficiency of Market Committee" Ind. J. Mktg Conference Special 2001:42-43.
- Prakash B. and Shrivastava S. (1995), "Effect of Market Arrivals on Price of Field Pea in U.P." Bihar J. of Agril Mktg 3(3): 249 – 254
- Pednekar A. (2003), "Performance of Regulated Markets in Goa- A case study" Ind. J. Agril Mktg 17(1):194-203
- Raj K.N., Singh S.P., Singh S.N. and Mehta V.P.(2002), "Growth and development of Rgulated Markets in Haryana" Ind,J, of Agril Mktg. 14(3):25-32
- Ravi Kumar, K.N., K.S. Lakshami and V.T. Raju (2001), "Trends in arrivals and prices of selected Commodities in Anakpalle Regulated Market Of A.P." Agril. Mktg. 43(4): 26-33
- Ravi Kummar K.N., K.S. Lakshami and V.T. Raju(2002), "Price response Analysis of Agricultural Commodities In Anakpalle Regulated Market Of A.P." Indian. Journal of Agril. Mktg. 43(3): 50-51
- Rangi P.S. and Sidhu M.S. (1996), "Analysis of Income and Expenditure of Market Committees In Punjab" Bihar J. of Agril. Mktg 4(2)166-176
- Sarawgi A.k Beoher, B.B. and kurmi S.L. (2000), "Impact of Regulated Market in the context of income Generation in M.P." Ind J. Agril Mktg. 14(3)=36-37
- Sharma H.O. and Nahatkar S.O.(1995), "Relation between Market Arrivals and Prices of Soybean with special Reference to Krishi Upaj Mandi Sihore M.P "Bharatiy Krishi Anusandhan Patrika 10(4):190-196
- Shinde, T.M. (2010), "Financial Aspects of Agriculture Produce Market Committees – A study with Reference to Nanded District" Variorum, Vol-1, Issue-1, August 2010.

- Singh S.K., B.B. Singh and R.P. Singh (1998), "Study of organization structure and performance of Daharighat Regulated Market in Man District Of Uttar Pradesh" J. Agril Econ 53(3):377-378
- Shrinivasan , N. (1997), Organizational and Management Effectiveness of Market Committees and Regulated Markets in Tamil Nadu Ind. J. Mktg. 11(1): 103-107
- Singh R.I., Prasad V. and Singh G.N.(1992), Poor Arrivals of Agricultural Produce in Regulated Market of U.P. Identification of Constraints and their Remedies" Indian. J. Mktg 6(2):1-4
- Takalkar, S.D.(2005) , "A Study of Management of Agricultural Produce Market Committees in Pune District with Special Reference to Khed, Ambegaon and Junnar Taluka" Ph.D thesis, submitted to the University of Pune,41107

Reference Books -

- Advanced Accountancy – II, S.P. Jain, K.L. Narang, Kalyani Publishers New Delhi.
- Agricultural Marketing in India, Acharya S.S. and N. L. Agarwal (2011), Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
- Agricultural Risks Management – Challenges and Strategies, BVS Prasad and Suchitra Mohanty.
- Cost Accounting and Financial Management Ravi Kishore, Taxman, Allied Services Pvt. Ltd. 59132 New Rhotak Road New Delhi. 110005.
- Essentials of Management Accounting, Jawahar Lal (2005), First Edition Himalaya Publishing House Mumbai, First Edition 400004.
- Financial Management Tenth Edition I. M. Pandey, Vikas Publishing House 576 Masjid Road Jangpura, New Delhi.110014.
- Financial Statement Analysis, S.KR. Paul, New Central Book Agency Pvt.Ltd. Chintamani Das Lane, Kolkata 700009.

- Fundamentals of Financial Management (2006) Vyaptakesh Sharam, Dorling Kinderslay (India) Pvt. Ltd. 482,F.I.E. Patparganj, Delhi.
- George W. Snedecor (1961), “Statistical Methods”, Allied Pacific Pvt. Ltd. Bombay.
- Glimpses of India Agriculture Macro and Micro Aspects Volume I and Volume II, General Editor S.M. Jharwal Academic Foundation New Delhi.
- Goulden, C.H. (1912), “Methods of Statistical Analysis”, Asia Publishing House,Bombay.
- Indian Agricultural Trade – Challenges and Opportunities, S. Bhaskaran and K.S. Kumaravel.
- Indian Economy, 66th revised edition, Datta and Sundaram, S. Chand Publicaion, New Delhi 110055.
- Khan M.Y., P.K. Jain “Financial Management”, Sixth Edition, Tata Mc.Graw Hill Education Pvt. Ltd New – Delhi 110008.
- Maharashtra Agricultural Produce Marketing Regulation at 1963 and Rules 1967, V. S. Joshi and P.V. Joshi. Dnyaydeep Publication 15 Ambika Housing Scociety Pune -16.
- Maharashtra Government Publication, The Maharashtra Agricultural Produce Marketing (Regulated Act.1963 and Rules 1967) Government Printing Press, Bombay 1993.
- Marketing Management, C. B. Mamoria and R. K. Suri.
- Panse, V.G. and P.V. Sukhatme (1957), Statistical Methods for Agricultural Workers, Second edition, I.C.A.R. New – Delhi.
- Principles and Practices in Marketing in India, Dr. Memoria, Joshi and Mulla.
- Readings in Indian Agriculture and Industry, K. L. Krishna and U. Kapil
- World Agricultural Trade, WTO Perspective, Rahul Gupta.

Reports and Periodicals -

- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Baramati.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Indapur.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Junnar.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Khed.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Manchar.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Nira.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Pune.
- Annual Administrative Reports and Financial Statements, (unpublished) : 2000-01 to 2009-10. APMC : Shirur.
- Economic Survey of India.
- Maharashtrachi Arthik Pahani.
- Pune zila Social and Economic Samalochan.
- State at a Glance.