A TECHNICAL NOTE TO THE EIGHTH PLAN OF INDIA (1992-97)



GOVERNMENT OF INDIA PLANNING COMMISSION

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GOVERNMENT OF INDIA PLANNING COMMISSION PERSPECTIVE PLANNING DIVISION



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FOREWORD

The concept of development and the role of planning in India has been clearly perceived from the very beginning. The First Five Year Plan, which marked the beginning of a new era of development under the stewardship of our great leader Pandit Jawaharlal Nehru. said:

"The central objective of planning in India ... is to initiate a process of development which will raise living standards and open out to the people new opportunities for a nother and more varied life... Economic planning has to be viewed as an integral part of a wider process aiming not merely at the development of resources in a narrow technical sense but at the development of human faculties and the building up of an institutional framework adequate to the needs and aspirations of the people".

This has been the frame of reference all these years. The Eighth Plan reiterated the human development goals. Prime Minister Shri P.V. Narasimha Rao, in his foreword to the Eighth Plan, wrote:

"...Human Development, in all its many facets, is the ultimate goal of the Eighth Plan, it is towards fulfilling this goal that the Eighth Plan accords priority to the generation of adequate employment opportunities to achieve near-full employment by the turn of the century, building up of people's institutions, control of population growth, universalisation of elementary education, eradication of illiteracy, provision of safe drinking water and primary health facilities to all, growth and diversification of agriculture to achieve self-sufficiency in foodgrains and generate surpluses for exports..."

Needless to state that economic growth and social development are both important for achieving the ultimate goal of human development.

Matching of resources and instrumentalities with the goals of development requires substantial amount of technical work. Potential of resources, nature and quantities of investment in different sectors, balance of payments constraints, energy and infrastructure requirements, efficiency of use of resources or incremental capital-outbut ratio, etc., are all to be assessed in constantly changing situation. These have all to be assessed in a certain framework where relationship of one variable with another is clearly defined on the basis of real behaviour of the economy. Assessment of those relationships is necessarily an on-going process. The framework which defines these processes is called a "model" in the jargon of economists. These models express the relationships in mathematical terms. Historically, planning models have played two roles. One was that of defining a strategy of development, i.e., answering questions of priority between industry and agriculture, between heavy industry and light industry, between consumer goods and investment goods, etc. Mahalanobis model was an important landmark in this category of models. The other role of planning models has been that of assessing parameters and arriving at targets which are consistent with resources on one hand, and mutually consistent on the other. It is this second category of models which have to be constantly estimated and updated.

The Eighth Plan was finalised in a relatively short period of time. All the necessary technical work had been done for this purpose. However documentation of the technical work has taken sometime. The staff of the Perspective Planning Division under the leadership of Professor S.R. Hashim has done a painstaking job in this respect. Dr. Arjun Sengupta, Member-Secretary of Planning Commission has provided the overall guidance. The technical work of the Eighth Plan also benefitted from the guidance from Dr. C. Rangarajan, Member, Planning Commission during the period when the Eighth Plan was being finalised.

Our perception about the effective working of the economic system has been changing in the light of our own experiences. We took a major step in initiating economic reforms since 1991. Under the reformed system, market and decentralised decision making will play larger role in economic system, thus releasing new economic energy for fast growth and more effective development. Planning instauments and planning models will also have to adopt to the new situation. Dr. Arjun Sengupta, Member-Secretary, Planning Commission has taken new initiatives in networking with some of the most prominent national and international modelling groups and cademicians with Planning Commission playing a nodal role in developing suitable modelling frames which answer more adequately to the needs of the changed economic scenario I very much hope that the results of these efforts will be available for use in the formulation of the Ninth Plan. The present Technical Note provides a base line on which further structures can be developed.

17th May, 1995 New Dethi.

(Pranab Mukheriee)

CONTENTS

			Page No
		Foreword	
		Preface	4
		Introduction	n
Chapter	1	The Model Structure	1
Chapter	2	Demography and Employment	27
Chapter	3	Financial Resources Sub model	46
Chapter	4	Agricultural Sub model	58
Chapter	5	Industry Sub model	66
Chapter	6	Trade Sub model	88
Chapter	7	Consumption Sub model	96
Chapter	8	Future Tasks	114
		Annexure	121
		Annexure Tables	126

LIST OF TABLES

Table No	Title	Pag
1 1	Growth of Value Added and Output Eighth Plan	2
1 2	Structure of Output and Value Added 1991 92 and 1996-97	2
13	Investment in Eighth Plan	2
14	Indicators of Development A Perspective	2
2 1	Married Females in Age Group 15 44	3
2 2	Estimated Values of CPR in Plan Exercises	3
23	Anticipated Annual Increase in ell for Males for Various Levels of	3
	e8	
2 4	Labour Force Participation Rates	3
2 5	Labour Force Projections	3
26	Growth of Employment 1977 78 to 1987 88	3
27	Sectoral Growth in Employment	4
28	Growth in Organised Sector Employment	4
29	Growth in Employment of the Educated	4
2 10	Sectoral Distribution of Workers	4
2 11	Distribution of Workers by Employment Status	4
2 12	Sectoral Value Added and Employment Growth in Eighth Plen 1992 97	4
3 1	Sectoral Savings in the Eighth Plan	5-
3 2	Household Disposable Income and Savings in Eighth Plan	5
3 3	Net Financial Savings of the Household Sector	5
3 4	Government Disposable Income and Savings	5
4 1	Area and Cropping Intensity in Eighth Plan	6
4 2	Agricultural Perspective	6
4 3	Area Production and Yield of Foodgrain Crops 1991 92 and 1996 97	6
4 4	Foodgrains Production Area Yield and Fertilizer Consumption	6
4 5	Contribution of Area and Yield in Foodgrains Production in Eighth Plan	6
5 1	Material Balance for Selected Commodities 1991 92 and 1996 97	73
5 2	Material Balance for Coal 1991 92 and 1996 97	79
5 3	Sector wise Demand for Petroleum Products in 1996 97	80
5 4	Distribution of Households Based on the Use of Primary Source of Energy for Lighting	8
5 5	Population and Kerosene Consumption Growth Rates	8:
56	Sectorwise Demand For Finished Steel	83
5 7	Projection of Freight Traffic in Railways	84
58	Rail Transport Coefficients Proportion of Commodity Moved by Rail	85

5 9	Projection of Demand for Electricity in Major Industry Groups 1996 97	86
5 10	Material Balance for Electricity 1991 92 and 1996 97	87
6 1	Balance of Payments Scenario in the Eighth Plan	92
62	Export Projection in the Eighth Plan	92
63	Import Projection in the Eighth Plan	94
7 1	Poverty Line and Inequality	108
72	Poverty Ratio	108
73	Monthly Per Capita Consumption Expenditure	109
74	Consumption Share Growth Rates	110
75	Consumption Inequality Growth Rates	110
76	Decile wise Share of Consumption	111
77	Fractile wise Per Capita Consumption and its Growth	111
78	Structure of Consumption 1991 92	112
79	Structure of Consumption 1996 97	112
7 10	Poverty Ratio from NSS Consumption Distribution and Lognormal Distribution	113

Annexure Tables

Table No	Tetle	Page No
1 1	Input Output Coefficients 1991 92	126
1 2	Input Output Coefficients 1996 97	138
1 3	Intermediate Use and Final Demands for 60 Sectors 1991 92	150
1 4	Intermediate Use and Final Demands for 60 Sectors 1996 97	164
15	Intermediate Use and Final Demands for 11 Sectors 1991 92	178
1 6	Intermediate Use and Final Demands for 11 Sectors 1996 97	180
1 7	Import Coefficients 1991 92	182
18	Import Coefficients 1996 97	194
19	Import Transactions at 60 Sectors 1991 92	206
1 10	Import Transactions at 60 Sectors 1996 97	220
1 11	Import Transactions at 11 Sectors 1991 92	234
1 12	import Transactions at 11 Sectors 1996 97	236
1 13	Structure of Imports 1991 92	238
1 14	Structure of Imports 1996 97	240
1 15	Structure of Indirect Taxes 1991 92	242
1 16	Structure of Indirect Taxes 1996 97	244
1 17	Structure of Final Demand 1991 92	246
1 18	Structure of Final Demand 1996 97	248
1 19	Output Coefficients	250
1 20	Capital Coefficient Matrix	262
1 21	Trade and Transport Margin Rates	263
1 22	Investment by Destination 1996 97	265
1 23	Parameters of Investment Function	266
1 24	Sector Classification of Input Output Table	267
1 25	Mapping of Input Output Sectors to National Accounting Frame	270
3 1	Macro Economic Identities in the Framework of National Accounts	271
3 2	Regression Equations Linear	272
3 3	Regression Equations Log Linear	273
3 4	Regression Equations with Lagged Variables	274
4 1	Foodgrains Estimation of Gross Cropped Area Gross Irrigated Area and Yield	275
4 2	Estimation of Gross Cropped Area and Output of Foodgrain Crops	276
4 3	Estimation of Statewise Foodgrain Production	277
4 4	Area Production and Yield of Rice Growth Rates	278
4 5	Area Product on and Yield of Wheat Growth Rates	279
4 6	Area Production and Yield of Coarse Cereals Growth Rates	280

7	Area Production and Yield of Pulses Growth Rates	281
8	Area, Production and Yield of Foodgrains Growth Rates	282
9	Contribution of Area and Yield in Foodgrains Production during 1980's	283
5 1	Electricity and Oil Input Coefficient in Agriculture	284
2	Electricity Input Coefficient in Aluminium Industry	285
3	Electricity Input Coefficient in Steel Industry	286
4	Electricity Input Coefficient in Cement Industry	287
5 5	Railways Combined Effect of Conservation Measures and Changes in Modal Mix of Traffic on Energy Input Coefficient	288
6	Railways Effect of Changes in Modal Mix of Traffic on Energy Input Coefficient	289
7	Electricity Coefficient in Electricity Generation due to Conservation Measures and Technological Change	290
8	Share of Agriculture and Households in Electricity Consumption at Consumers End in Utility	291
9	Change in Share of Capacities Based on Feedstock in Fertilizer Industry	29
10	Electricity Input Coefficient in Fertilizer Industry	29:
11	Electricity Input Coefficient in Cotton Textile Industry	293
12	Electricity Input Coefficient in Paper Industry with Conservation Measures Superimposed on Technological Change	294
13	Coal Input Coefficient in Electricity Generation	29
5 14	Coal Input Coefficient in Iron and Steel Industry due to Technological Change	29
15	Coal Input Coefficient in Cement Industry	29
16	Natural Gas and Petroleum Products Input Coefficient in Fertilizer Industry due to Technological Change	298
17	Petroleum Products Input Coefficient in Steel Industry	299
18	Petroleum Products Input in Electricity Generation	300
5 19	Effects on Petroleum Products Inputs in Other Transport due to Conservation Measures	30
5 20	Input of Crude Oil in Petroleum Refining and Effect of Conservation Measures	30:
5 21	Natural Gas Input Coefficient in Electricity Generation	303
5 22	Natural Gas Iriput Coefficient in Steel Industry by Technological Change Alone	304
5 23	Coal Correspondence between Material Balance and Input Output Projection	30
5 24	Electricity Correspondence between Material Balance and Input Output Projection	30
5 25	Petroleum Products Correspondence between Material Balance and Input Output Projection	30
5 26	Crude Oil Correspondence between Material Balance and Input Output Projection	308

5 27	Material Balance and Input Output Projection	309
5 28	iron Ore Correspondence between Material Balance and Input Output Projection	310
7 1	Share of Consumption Rural	311
72	Share of Consumption Urban	312
7 3	Trend in Decile wise Consumption Share in Rural Areas 1958 73	313
7 4	Trend in Decile wise Consumption Share in Rural Areas 1977 91	314
7 5	Trend in Decile wise Consumption Share in Rural Areas 1958 91	315
7 6	Trend in Decile wise Consumption Share in Urban Areas 1958 73	316
7 7	Trend in Decile wise Consumption Share in Urban Areas 1977 91	317
7 8	Trend in Decile wise Consumption Share in Urban Areas 1958 91	317
79	Lorenz Ratio of Consumption Distribution	318
7 10	Trend in Inequality in Consumption Distribution	319

PREFACE

Indian planning process is extremely complex, it involves outlining the strategies for development and the supporting policy environment, working out the macro-parameters for the growth and its sectoral pattern, allocation of resources between centre and states and for different sectoral activities, detailed allocation of budgetary support and consideration of specific projects/programmes and schemes in the public sector. Formalised modelling is used for working out the macro-parameters for growth and its sectoral pattern and allocation of resources for different sectoral activities. Since the Fifth Plan, the numerical exercises and the technical work at the back of the formulation of the plan are being presented separately in the form of a technical note. The technical note outlines the methodology of plan formulation in detail by capturing the diverse inter-relationships of forces and factors that lie behind the national plan and describe in detail the various assumptions, techniques and analysis that form the basis of the plan. From this point of view, the technical notes have been found very useful. The Eighth Plan Technical Note is the fourth in this series. This note describes in detail the technical work that went behind formulation of the Eighth Plan and contains eight chapters. Chapter-1 presents the mathematical framework of the multi-sectoral input-output model which is used to derive mutually consistent sectoral output targets and corresponding sectoral investment demands. A set of sub-models have been used to assess the impact of those variables which are not adequately captured through the input-output frame. Chapter-2 describes demography and employment. Chapter-3 describes the financial resources sub-model. A detailed description of the determination of the agricultural output targets are provided in Chapter-4. Chapter-5 gives industry sub-model. The methodology adopted for projections of export and import are covered under trade sub-model in Chapter-6. Chapter-7 outlines the method of estimation of sectoral private consumption in consumption sub-model.

Launching of the Eighth Five Year Plan also coincided with major initiatives in economic reforms and liberalisation. In the changed economic environment, market will play a larger role, private sector would be expanding and the public sector would become increasingly more autonomous and subject to market forces. The international trade will start having larger impact on the domestic economy. The Government will be in social sectors and in creating a suitable environment for growth and development including infrastructure. This will require some re-orientation in the planning process. Some thoughts along these lines have been spett out in Chapter-8.

Needless to say that technical work relating to the preparation of the plan demands cooperation, collaboration and active participation of all the Divisions in Plannino Commission. Such help was available in full measure.

Work on the Eighth Plan had started much before the Eighth Plan began Guidance of Dr. C. Rangarajan, the then Member, Planning Commission was very valuable during the period of the finalisation of Eighth Plan and the related technical work. However, the write-up on technical note was somewhat delayed. It was the keen interest shown, encouragement given and guidance provided by Dr. Arjun K. Sengupta, Member-Secretary, Planning Commission which enabled us to bring out the note in its final form.

A team of officers of the Perspective Planning Division undertook the final drafting of the note. The team was led by St. I.K. L. Datta and included Mrs. Savita Sharma, Shri Mohan Chutani, Shri Rajeev Malhotra, Shri R K. Chandolia, Shri Subroto Dhar. Shri S. V. Ramana Murthy and Shri Albk Kumar.

The sub-model on trade has been prepared by Shri Prabhu Dayal with the assistance of Shri M.R. Verma. Shri J. Satyanarayana was intensively involved in the modelling work at the time of the preparation of the Plan. Shri R. K. Pruthi, Technical

Director provided computer programming support during preparation of the Plan The industry sub-model has been prepared by Shn E. Rajagopalacharyulu. Shn R.B. Tyagi and Shn A. Jacob. The perspective on energy use efficiency has been prepared by Shn R.Y. Kadeer. These industry specific studies were supervised by Shn Shailendra Sharma. Shri S.N. Raghavan also helped in drafting at an earlier stage.

The model has a heavy programming responsibility. This was efficiently handled by Shn A K Bhattacharya Senior System Analyst. The manuscript was typed by Shn Pardeep Bajaj. Shr N P S Chadha Principal System Analyst assisted by Shn Vinod Kumar System Analyst and Shn Raj Singh. Sehrawat. Tradesman prepared the DTP format.

Last but not the least I am grateful to Dr S P Gupta former Adviser Perspective Planning Division for taking pains to go through the draft of this note carefully The responsibility for errors and ommissions if any however rests with me

1 4)-12.

17th May 1995 New Delhi (SR Hashim) Principal Adviser Perspective Planning Division

INTRODUCTION

A Five Year Plan is conceived in terms of a set of social and economic goals. Feasibility of achieving these goals depends on availability of resources and other enabling conditions. Checking the feasibility of goals against enabling conditions itself requires elaborate technical work. How much of financial resources can be made available in the future, how the saving behaviour would change or how it could be modified, what would be the balance of payments constraints or the resource use efficiency, etc., are some of the concrete questions of macro-economic nature which have to be answered. Yet another set of questions pertain to the instrumentality of achieving the goals. These instrumentalities could relate to physical conditions, like availability of necessary infrastructure and essential inputs, energy, technology, etc. Instrumentalities could also relate to policies and institutions and mobilisation of

The relationship between the goals, macro-economic parameters and physical conditions are amenable to modelling in terms of a set of defined mathematical relationships. Technical work of the plan pertains to determining the exact nature of these relationships as well as preparing the suitable data-base for the plan

This technical note describes the mathematical models and quantitative work that lies at the back of the formulation of the Eighth Five Year Plan The use of formal mathematical models in capturing the economic realities and spelling out the development philosophy started from the early days of planning The path-breaking exercise of P.C. Mahalanobis culminated in the formulation of a mathematical model which guided India's planning strategies right from the early days, particularly since the formulation of the Second Plan. This model came to be known as Mahalanobis model

Leontief Input-Output table which details out the precise relationship between the output of an industry and the inputs drawn from other industries to produce that output, became a very powerful instrument in determining economic interrelationship between different sectors of production. With the construction of the Leontief input-output tables for India during the early sixties, input-output tables came to be used in the projection of long term economic growth scenario and also for working out sectoral output and investment consistency of the Fourth Plan. For the Fifth Plan, Prof. Sukhomoy Chakravarty evolved a model integrating the models of Harrod-Domar type and the Leontief input-output system in a demand-supply frame relating growth with investment. Thus we had a plan model which integrated macro- economic parameters with the consistency requirements at a more disaggregated level of intersectoral relationships. The model has undergone some variations overtime. More variables have been endogenised in successive plans. The Eighth Plan model belongs to this family of models where investment, consumption and imports - the three major variables determining the growth rate and the level of living are endogenously determined in the model.

The model system used in the Eighth Plan exercise comprises of a core model and a set of inter-linked sub-models. The core model consists of macro-economic model, input-output model and investment model. The sub-models are for Agniculture, Financial Resources, Consumption, Industry and Trade. A simple description of the working of the model systems is given in what fullows.

To start with we make an astimate of investible resources which the economy could make available over the Plan-period. At the macro level those resources are called savings. Savings depend both on income levels and on habits (i.e., observed behaviour). Income levels, or the way the income would grow over the plan period is not certain at this stage. So we work with a few alternatives. Savings behaviour is assessed from past observations of how different saving agents have

behaved over time or how they have responded to vanous instruments (i.e. policies) adopted to modify that behaviour in the past. Main saving agents are households Government public enterprise sector and private corporate sector. An estimate of resources available from abroad is also made, and when added to the savings, it gives estimate of investible resources available over the Plan pendo.

It so happens that agents who generate savings need not make investments in equal amounts. A large part of savings of households gets invested by Public sector or Private Corporate sectors. Savings change hands through financial institutions. Hence an estimate of such flows among the saving and investing agents has to be made. In doing this investment capabilities and investment needs of various investing agents are taken into account. Since the model has not yet been fully worked out these estimates are tentative and serve as a starting point. These may get revised in the light of the final result of the model and then the full model has to be worked out again beginning from this point. Thus though the planning model is largely sequential it does become iterative in actual working because some variables have to be fed from outside the model (i.e. they are not fully endogenised.)

Then there is the estimate of a relationship between investment and output at the level of the economy. This is known as capital output ratio. Where this ratio pertains to the investment made during the plan period and additional output/in come to be generated during the period, it is known as Incremental Capital Output Ratio (ICOR). This is estimated for the economy on the basis of the past observations and future prospects.

Given the investible resources and the ICOR one has an idea of the rate of growth which could be targetted/achieved. Since this point marks the beginning one has to start with a few alternative estimates of resources. ICOR and achievable rates of growth.

Savings Investments Gross Domestic Product and its rates of growth are all pint of macro model. Also in this macro model are included the other related variables such as exports imports balance of payments and fiscal variables i e revenue expenditure savings and borrowing of the Government.

The next stage in the exercise is to work out at more detailed level the final demands in keeping with the indicated levels of output in the macro model. The final demands consist of private consumption public consumption exports imports and capital formation (including change in stocks). Each of these has to be worked out at such levels of disaggregation (o by as many industries and sectors) as is the level of disaggregation of the Input Output Table.

The Input Output Table used in the Eighth Plan had 60 sectors and its reference year was 1991 92; i.e. the base year of the Plan This Table was prepared by updating and re calibrating a basic input output table prepared by the CSO for the year 1983 84. The input output table yields an input coefficients matrix in which inputs used in an industry are expressed as quantities per unit of output of that industry. The input coefficient matrix for the terminal year of the plan is projected from the coefficient matrix of the base year after incorporating the antic pated changes in product and technology mix on the basis of information available for various sectors or industries in the economy.

The core model brings forth the interaction between a set of final demand elements (vectors or columns) and the input output matrix which represents the inter industry relationships as well as the state of technology. For each of the elements of final demands, there is a separate sub model.

The consumption sub-model estimates private consumption demand for different goods and services, taking into account the growth pattern of the economy as postulated in the Plan, the projected growth in population and its rural-urban composition and the inequality in consumption distribution. Private consumption is divided into four segments: rural and trban, and each into poor and non-poor groups of population. The model incorporates the perameters of consumer behaviour for each of these separate segments of population. A detailed exercise is done for assessment of the poverty cut-off points and the pattern of distribution of consumption for poor and non-poor. The consumption model, in effect, quantifies the extent of improvement in levels of living as a result of increase in per capita consumption expenditure and reduction in the disparity of consumption expenditure between different income classes of the population. The changes in consumption expenditure during the plan period suggest a relatively higher growth in per capita terms in rural areas as compared to urban.

The investment necessary to generate the desired level of output at sectoral level is worked out in the investment sub-model. Investment requirements of different sectors are known as "investment by destinations" and the type of capital goods which form the investment are known as "investment by source" in the model. The relationship between outputs and investments are assessed through econometric techniques (or econometric models). Aggregate gross investment in a sector consists of new investment and replacement investment. New investments are geared to capacity creations. Sectoral investment is again divided into committed investment for on-poing projects and investment for projects indicated during the plan period. Investment to output relations have a gestation lag as investments are spread over a number of years before a project or programme starts cenerating output.

The model treats public and private investments separately, as allocation of investment in public sector is a target while that in private sector is an indicative forecast. Finally, the model checks the consistency of output requirements in the postplan period with long term objectives and matches it with the growth potentials of the Plan

The final demand elements of imports and exports are projected with the help of the trade sub-model which estimates exports and imports in conjunction with balance of payments and current account deficit. The current account deficit, in turn, becomes the foreign component of investible resources of the economy.

Import requirements are broadly of two types. One is of those imports which are required in the production process. The other is of those imports which balance the gap between demand and production for consumption purposes. Production related imports are estimated through an import matrix which is a sub- matrix of the input-output table, and describes in detail the import input requirements of each industry.

The projected levels of imports in conjunction with the desirable level of current account deficit, which in turn has implications for foreign debt and debt servicing, determines the needed level of exports in aggregate. This aggregate level of exports is then disaggregated into commoditywise exports on the basis of commoditywise feasibility studies based on past trends and future prospects. These also have to take into account the policy changes and the World trade environment.

After the final demand components, disaggregated by industries/sectors (or "final demand vectors"), have been worked out, the consistent production levels can be worked out. These production levels would enable final demands to be met, while at the same time fully meeting the needs of industrial consumption (inputs). This exercise is accomplished through the core model, which has input-output martix at its base. This exercise is undertaken for alternative sets of final demand, implying alternative sets of growth possibilities. The set in which the detailed exercise is

consistent with the set of macro-parameters worked out in the beginning is finally considered feasible.

At the detailed production level, two more checks are provided to check the feasibility of production for agriculture and to check the demand supply balance for important industrial outputs. This is done through two sub-models which are known as Agriculture sub-model and industry sub-model respectively.

Agriculture sub-model essentially checks the feasibility of levels and growth of production of important commodities in agriculture. This is done specially for agriculture because the land and water constraints operating on the output of this sector do not get fully reflected in the input-output matrix.

Feasibility of agricultural output targets is determined in relation to type of land use, availability of irrigation and fertiliser application levels. The parameters relating to cropping intensity, area under irrigation and rainfed crops as well as area under high yielding and traditional variety of seeds by major crops at regional level are measured. The Plan objectives of growth and diversification of agriculture, self-sufficiency in food and generation of surpluses for exports are further assessed through the parameters estimated in the agriculture sub-model.

The Industry sub-model deals with outputs of selected industries or commodities and checks at the demand-supply balances as well as capacity-use constraints. Sectoral estimates of capacity and output, along with likely absorption of the commodity in major consuming sectors are worked out at a disaggregated level. The estimates of output are worked out in physical units, as the commodities are considered at more homogenous levels. The commodity-wise demand and supply within each input-output sector is obtained through material balance studies. Successive stages are. (i) identification of major consuming sectors and their sub-sectors, their current production and targets of production in the Plan, (ii) determination of input norms in the past on the basis of observed data and adopting these for future period in the light of relevant technical information, (iii) calculation of materal requirements from the targets of production of user sector and the input norms, and (iv) estimation of addition to stocks and other uses.

Material balances are prepared for key products such as coal, electricity, petroleum products, steel, heavy machinery and petro-chemicals, sugar, cloth, jute, non-ferrous metals.

The starting point of the entire exercise, as discussed earlier, is the assessment of investible resources

This exercise is further taken up in detail in the Financial Resources sub- model.

The financial resources sub-model estimates the availability of resources in order to finance the investment needs estimated in the input-output and investment model necessary to generate the desired growth rate. The sub-model assesses the level of domestic savings sectorally as well as in terms of its composition using econometric estimation procedure. These estimates are consistent with the macro aggregates of the plan. The estimate of resource in the Financial Resources sub-model is procedurally recursive to the input-output cum investment model due to the simultaneity between savings and income.

The aggregate savings function is estimated by regressing Gross Domestic Savings (GDS) on Gross Domestic Product (GDP) The elasticity of domestic savings with respect to GDP is estimated from appropriate savings function. The Eighth Plan postulates that both the marginal propensity and the average propensity to save during the plan period would be of the same order. Household savings is estimated on the basis of it's functional relationship with household disposable income. The marginal rate of household saving and the elasticity of household savings are estimated with respect to household siposable income. The savings of the household sector in the form of physical assets are independently estimated by relating them to gross capital formation in terms of productive assets. The relationship between gross physical assets and gross disposable income of the household sector is assessed by regressing the former on household disposable income.

Savings in the public sector are estimated separately for Government sector and public enterprises in the framework of National Accounts. The savings of Government sector are assessed from a detailed analysis of various components of income such as direct and indirect taxes, non-tax revenues and public expenditure. The savings of public sector enterprises are assessed from the enterprise level analysis of their operational performance evaluated in terms of return to investment and retained profits. The savings of private corporate sector is assessed separately.

The scheme of financing pattern of public sector plan consists of public enterprises. This is backed up by inflow of foreign savings. The inter sectoral flow of funds in terms of flow of household savings to public sector is worked out from an analysis of the financial yaring system embracing the structure of interest rates and other monetary and financial variables which govern the relative rates of return in public and private enterprises.

The Five-Year Plan has to be set within a perspective of long term growth and constraints, including the long-term demographic trends and constraints on basic resources, like land, water, energy and environment. The Eighth Plan has been formulated against the background of a perspective covering the period of 15 years from 1991-92 to 2008-07. The perspective of development visualises elimination of poverty and unemployment, a certain level of food consumption, reduction in disparity between urban and rural areas in respect of income and consumption and meeting the basic socio-economic needs and aspirations of the people. The factors which basically influence the scenario of the perspective plan are demographic trends and basic resource endowments. The structure of population growth and the associated growth and size of labour force characterize the demographic trends. Basic resource endowments are assessed in terms of land ,water, energy and other essential minerals and environment.

The output level of the terminal year of the Eighth Plan serves as the base for projections of growth in the future. The sectoral production levels in the perspective period are estimated from the input output model on the basis of exogenously estimated values of the macro variables, keeping the base level technology co-efficient matrix and other associated parameters generally unchanged. The feasible growth rate consistent with the long-run projection of sectoral demand was set at 5.6% per year for the plan period and 6.2% per year for the post-plan period. The pattern of long term growth in the perspective period is thus consistent with the investment policy framed in the plan, keeping in view the socio-economic requirements of the population. The growth rate in the post plan period estimated as 6.2 per cent per year was revised marginally upwards to 6.28 per cent per annum considering related improvements in efficiency in key areas and institutional reforms. The model results are based on an exogenously determined savings rate of 23.9 per cent and investment rate of 24.9% in the post-terminal period.

Since the model described above is basically a production and investment model, the social objectives of the plan get integrated into the model only through their additional consumption requirements or through their additional investment requirements both of which become part of the final demand in the system. Thus, when people cross the poverty line during the plan period their consumption requirements change and increase and these have to be provided for when more of schools and hospitals have to be built these add to the investment requirements and in consequence requirements of producing more cement, bricks and medical equipments. However, the instrumentalities of bringing people above the poverty line have to be worked out outside the model. These are essentially social processes and necessitate social mobilisation, institution building and adopting a set of socio-economic policies. Model, as it is, yields a set of production and investment levels, and given the existing levels of techniques and the trends in technology, it will yield a given level of employment in the system. But if the need for employment is more, then policies and patterns of growth will have to be adopted which yield higher levels of employment. To a very large extent such policies by way of pattern of growth are already inter-woven in the model, though they are not mathematically tractable. A particular emphasis on agriculture and related inputs, sufficiency of food production, etc., for example, are a part of the pattern of growth But most of the policies and details of programmes related to social objectives have to be worked out outside the model

Thus, the model is a crucial step in plan-formulation though it is not the entire plan.

CHAPTER - 1

THE MODEL STRUCTURE

The quantitative modelling and associated numerical scheme of calculation of the Fifth Plan which by all means was the handwork of late Professor Sukhamoy Chakravarty, changed the language and approach of Indian planning. The scope of the change in the approach of planning in India since then has largely been conditioned by what Prof. Chakravarty articulated nearly two decades ago in the form of integration of the models of Harrod-Domar type and Leontief input-output system. The models used in Indian planning since then have relied on extending this approach in a demand-supply frame.

The model system used in the Eighth Plan exercise comprises of a core model and a set of inter-linked sub models. The core model consists of:

- (i) Macro economic model,
- (ii) Input-output model, and
- (iii) Investment model

A multi-sectoral input-output model is used to derive mutually consistent sectoral output targets and corresponding sectoral investment demands. The model frame is enveloped by a family of sub-models which play a crucial role in unfolding the details of the intricacies of economic interdependence which are complementary to the core model. Thus, the guiding spirit of the model is inter-industry consistency. No attempt is made at approximating social optimality.

The requirements for consumption and investment, each separated into public and private sectors, demand for export and import and of intermediate goods are first assessed in tune with the various objectives set in the plan. These estimates of demand, both sectoral as well as aggregate, are worked out in the core model. While the consistency of output levels is assessed through the input-output model, their supply feasibilities are checked mainly through the sub-models. The sub-models play a crucial role in estimating the sectoral supply potentials. The sub-models are estimated separately and their integration with other sub models and the core model is achieved by iterative processes.

I. Macro-Economic Model

The macro-economic model provides medium and long term projections for (a) gross domestic product (GDP) at factor cost which is consistent with the desired growth rate in the plan, and (b) total investment. These projections are based on a number of structural relationships, most of which are in the form of income and expenditure identities developed within the model. The forecast estimates of the macro variables such as gross domestic product, public and private consumption, savings, investment and net inflow from the rest of the world are worked out by balancing income and expenditure for a series of alternative growth rates of income (or GDP) during the plan period. The set of estimates which is found consistent with the aggregate savings behaviour and domestic production possibilities is adopted

Aggregate import in the terminal year of the plan is obtained from the input-output model. Aggregate consumption and exports adopted in the model are determined exogenously. Net revenue from indirect taxes is also treated as exogenous. This coupled with the aggregate gross domestic product at factor cost produces the aross domestic product at market prices. The estimate of investment in the macro model

is matched with the investment need assessed from the investment model. The model ensures aggregate macro economic balances amongst income and expenditure, compnsing aggregate gross domestic product public and private consumption, savings, investment and net inflow from the rest of the world.

II. Input-Output Model

The core of the Plan model is the input-output model which has an input coefficient matrix based on a calibrated input-output table taking into account the economic flows of the base year of the Plan. In the input-output model where the entire economy is divided into 60 sectors. Supply and demand of the product of each sector is fully balanced. The intermediate demand of each sector is obtained through inter-relationships amongst different sectors using input-output coefficients representing the technology of production process. The final demand of the product of each sector is determined separately in respect of private consumption, public consumption, gross fixed investment change in stocks and export. The consumption demand is endogenous in the model on the assumption of likely changes in consumption distribution parameters separately for rural and urban areas. The import vector, i.e., sectorwise imports is determined mainly as input requirements in the production system, through the input output model.

The scalar values of the macro vanables relating to final demands estimated in the macro model are transformed into vectors in the input-output model. The final demand vectors consist of final private and public consumption external trade and investment. The final demand vector though exogenous to the input-output model, is none the less governed by the overall target rate of growth and also the observed internal economic relations expressed in terms of import coefficient matrix governing the trade vectors production functions governing the investment vector and consumption parameters expressed in terms of consumption expenditure elasticities governing the private consumption expenditure.

The scalar values of Government consumption gross fixed investment and changes in stocks are transformed into vectors in the input-output model. Private final consumption vector is worked out from the consumption model. The aggregate level of export in the macro model is largely a balancing item balancing the balancing he payments account after imports are endogenously determined and current account deficit is exogenously targetted. The export vector is exogenously determined on the basis of past trends future potentials and promotional possibilities. Sectoral changes in stocks are obtained as fixed proportions of the increase in output levels of different sectors. These final demand vectors are added to arrive at aggregate final demand, which is used in conjunction with the input output matrices (Leontief inverse) to derive output value added and imports for each sector of the input-output model. The rates of indirect tax net of subsidies are then prorated to the base year so that the estimates of net indirect taxes generated in the macro model agree to that obtained from its sectoral estimates.

The structure of input output model used in the Eighth Plan exercises is described below

a) Inter Industry Flow Matrix

The plan projections are based on 1991-92 as the base year An input output table for 1991-92 has been constructed using the inter-industry transactions matrix for the year 1983 84 produced by the Central Statistical Organisation (CSO) Department of Statistics Ministry of Planning The inter industry flows in the input output table of 1983 84, which is originally constructed for 115 sectors, has been aggregated into 60 sectors for use in the Eighth plan exercises. The inter-industry table of 1983-84 is updated to 1991-92 on the basis of input norms, commodity output, exports, imports investment, public and private consumption each at the proceprevailing in 1991-92. The once index used to update the input-output table has been

developed in two stages. First, the actual price rise between 1983-84 and 1989-90 has been assessed for each sector from the detailed data on wholesale price index available from the Office of the Economic Adviser, Ministry of Industry, Government of India. Then, for the period 1989-90 to 1991-92, a forecast estimate of the price rise developed on the basis of past trend has been used to arrive at 1991-92 prices. (This way, the prices prevailing in 1991-92 is a forecast estimate based on the actuals until 1989-90). This updated input output table is belanced with the sectoral estimates of output and final demand of the base year of the plan.

b) Sectoral Output

The sectoral outputs in the base year are estimated on the basis of the commodity outputs of approximately 300 items in 1983-84 and 1991-92 in terms of their values and physical production levels. The sectoral outputs in 1991-92 are estimated from the growth rates of value of output and physical unit of production between 1983-84 and 1991-92. In case of agriculture, the sectoral estimates of output are based on the projected output levels of 1991-92. In case of manufacturing sector, only the values of commodities are available. These values of commodities at 1983-84 prices are converted into base year price levels using the use in price index between 1983-84 and 1991-92 Then, the real growth rates of output between 1983-84 and 1991-92 are obtained. These growth rates in real terms are used to estimate the output levels in manufacturing sector in 1991-92. In case of construction and services sectors for which output levels are not available, the growth rates in real terms have been obtained on the basis of past trends of value added and output. The sectoral output in the input output table of 1983-84 are then converted into 1991-92 levels on the application of value added to output ratios in conjunction with the growth in output during the penod 1983-84 to 1991-92. These estimates of output for 1991-92 are balanced with the forecast estimates of the output levels of 1991-92 obtained on the basis of actual observations until 1989-90 and forecast estimates for the period 1989-90 to 1991-92

c) Value Added

The estimates of gross value added are available by 14 sector classification in the National Accounts Statistics. The base year estimates of gross value added in the input output model have been worked out on the basis of sectoral value added contained in the input output table of 1983-84. The value added estimates in the input output table are first aggregated to 14 sector classification of the national accounts These are converted into 1991-92 prices using sectoral GDP deflators obtained by regressing the time series data of GDP deflators on the wholesale price index. The sectoral GDP deflators are estimated from the National Accounts Statistics. The wholesale price index for each sector has been estimated by aggregating the wholesale price index of more than 400 commodities, which are available from the Office of the Economic Adviser, Ministry of Industry Government of India. The sectoral value added in 1991-92 are forecast estimates based on the actuals until 1989-90. These estimates of gross value added in 1991-92 are used as controls to balance the sectoral estimates of value added in the base year. The conversion of commodity output into industry output for the base year has been made with the help of a "make matrix" for 1983-84 It means that the 'make matrix" of 1983-84 has been assumed to be valid for the production structure of 1991-92

d) Final Demand Vectors

The final demand vectors consist of private and public consumption, gross fixed investment changes in stocks export and import vectors. The method of generation of each of these vectors is discussed below.

i) Private Consumption

The private consumption expenditure for 1991-92 is estimated first by commodity groups following the sector classification of the National Accounts Statistics. These are then disagregated using the consumption model which generates the

private consumption vector for the base year at purchasers price in conformity with the aggregate private consumption as given in the macro economic balance. The aggregate private consumption in the macro balance is bifurcated into rural and urban segments using per capita consumption differential between rural and urban areas. The private consumption vector is estimated separately for people below and above the poverty line in rural and urban areas on the basis of poverty cut off points in each area determined outside the model. The private consumption vectors for people below and above the poverty line in rural and urban areas are estimated on the basis of a demand system consisting of a Linear Expenditure System (LES) for broad groups of commodities and a set of consumer demand functions in the form of Engel equations for disaggregated commodity levels. The private consumption vector of each of these four groups of population are added to obtain the private consumption for the entire population.

This vector of private consumption is obtained at purchasers in prices it is converted into market prices using trade and transport margin rates which are estimated outside the model. The sectoral private consumption at purchasers prices are converted into market prices using a set of equations as described below.

Defining

 C_i = Private consumption of sector i of the input output table at purchasers price i = 1 60

 $C_{\it i}^*$ = Private consumption of sector i of the input output table at market prices i = 1 60

i = 1 60 are the 60 sectors of input output model

Tk = Margin rates with k where

k = 1 = Trade margin rates

= 2 = Railway transport margin rates

= 3 = Other transport margin rates

For the 60 sectors of input output model

 $C^{\bullet} = C (1 \Sigma_{k}^{3} + T_{k})$

$$C_i^* = C + \Sigma_j^{60} + C_j T_{2j}$$

$$C_i^* = C_i + \sum_{i=1}^{60} C_i T_{3i}$$

$$C_i' = C_i + \sum_{i=1}^{60} C_i T_{1i}$$

"Purchasers price" and "market price" are defined as below:

- i) Purchasers price (PP) = The price at which consumers buy from the market or the price at which the commodity is sold at the market.
- ii) Market price (MP) = Purchasers price less trade and transport margin.

It means market price is equivalent to purchaser price less trade and transport margin of the commodity.

iii) Factor Cost (FC) = Market price less all indirect taxes net of subsidies.

It means factor cost is equivalent to market price minus all indirect taxes (i.e., taxes on central excise, sales tax, customs duties, etc.) less subsidies.

ii) Public Consumption

The public consumption or Government consumption refers to the expenditure on the current needs of the administrative departments of Central and State Governments and various local bodies and it excludes expenditure on capital formation. The aggregate public consumption expenditure is obtained from the macro- model. The commodity composition of this aggregate consumption expenditure (i.e., the Government consumption vector) is obtained by using the commodity composition as reflected in the input-output table of 1983-84 appropriately adjusted for variation in prices and checking it against the trend analysis of time senes data on different components of public consumption.

iii) Gross Fixed investment

The aggregate gross fixed investment for the base year of the Plan is obtained from the macro economic balance. As the sectoral composition of gross fixed investment is limited to a very few items, the aggregate investment is decomposed into 60 sectors of the input-output table on the basis of the sectoral share of fixed investment in 1983-84 as reflected in the input output table of 1983-84, duly adjusted for variation in prices. The estimates of capital goods delivered by different sectors have also been computed separately based on trend analysis of relevant data for the purpose of finalising the vector of gross fixed investment for 1991-92.

iv) Change in Stocks

The estimates of changes in stocks are obtained in the following way.

The estimate of aggregate of final uses, i.e., final demands plus intermediate uses is obtained for each sector of input-output table. The difference between the aggregate final use and supply (production plus import) of the commodity is attributed to changes in stocks. The level of inventory holding in case of certain agricultural commodities such as foodgrains, which are directly available are also taken into account while arriving at the changes in stocks. The total of changes in stock in all sectors is then checked against the corresponding figure obtained from the macro-balance.

v) Exports

Given the aggregate level of exports from macro-balance, the estimate of exports of different commodities are made on the basis of a detailed analysis of the

trade statistics available from the Directorate General of Commercial Intelligence and Statistics (DGCIAS) and the Reserve Bank of India (RBI) The Report of the Working Group on Balance of Payments (constituted by the Planning Commission for the Eighth Five Year Plan) has also been used. The available data on invisibles are utilised to determine the service component of exports. The value of export for each of the input output sectors is first estimated at 1 ob. prices and then it is converted into market prices using relevant sectoral trade and transport margin rates estimated exogenously. The conversion of sectoral exports from fine to market prices are made in the following way.

Defining

E₁ = Export of sector i at f o b prices

E' = Export of sector i at market prices

i = 1 60 are the 60 sectors of input output model

Tk = Margin rates with k where

k = 1 = Trade margin rates

= 2 = Railway transport margin rates

= 3 = Other transport margin rates

For the 60 sectors of input output model

$$E_{l}^{*} = E \left(1 \ \Sigma_{K=1}^{3} T_{K}\right)$$

$$E_i' = E + \sum_{i=1}^{60} E_i T_{2i}$$

III) for I = 57

$$E^{\bullet} = E + \Sigma^{60} + E_1 T_3$$

iv) for i = 59

$$E^* = E + \Sigma^{60} + E_1 T_1$$

vi) Imports

The value of import of goods and non factor services in the base year of the plan is obtained from the macro economic balance. The estimates of sectoral composition of import for the base year at current prices are obtained from the data on actual import in terms of value and quantity available from DGCI&S the Reserve Bank of India and Working Group on Balance of Payments constituted by the Planning Commission for the Eighth Plan

e) Input-Output Table for Base Year

The input output matrix for 1983 84 has been published by the Central Statistical Organisation. Its dimension is 115 x 115 sectors. These 115 sectors have been aggregated into 60 sectors for constructing an input output matrix for the purpose of the Eighth Plan exercise. The basic input output table of 1983.84 represents the technology and product mix of that year at the prices prevailing in 1983.84. This table has been updated for the base year of the plan after appropriate adjustments in prices and macro economic variables. The method of updating is described below

The sectoral intermediate demands are the row totals of inter industry flows in the input-output table. These are also obtained by subtracting the final demand from the corresponding gross value of output. The column totals of the inter industry flow matrix give the total value of input use in an industry which can also be described as the difference between gross value of output and gross value added. On the assumptions that the industry's share of production in 1983 84 for each domestically produced commodity is maintained irrespective of the levels of commodity production the industry wise output levels for the base year are estimated using (a) the output coefficient matrix which is also known as make matrix and (b) the commodity output level of the 60 sectors of input output table in 1991 92. The column control total for the input matrix for the base year of the plan at current prices for each industry sector has been obtained as a difference between the gross output and gross value added of the sector. The flow matrix of the base year of the plan is finally set after balancing on the basis of RAS method using the above mentioned row and column totals as control variables. The aggregate intermediate use which is obtained as row totals of inter in dustry flows are compared with the control totals of the rows of the input output table The difference between the two are scanned with the help of the latest information mainly on technological changes. The aggregate input use in each sector is compared with its column control total. The difference between the two is reconciled allowing for some difference on the ground of technological changes that have taken place between 1983 84 and 1991 92 and for which adequate information is available. The input output coefficients in certain sectors which are known to have altered between 1983 84 and 1991 92 have been estimated exogenously and are excluded from the adjustment process of the matnx through RAS balancing. The injutin at ix which is balanced at market prices is converted into a matrix at factor costs using appropriate indirect tax rates of each sector

f) Import Matrix

The import matrix consists of a technology matrix and the import content of final demand of each sector. The technology matrix embodies the import content of the product which is worked out on the basis of import intensity of the product by 60 sectors of the input output table. The import content of the final demand of each sector is estimated separately for public and private consumption and for gross fixed invest ment. The import flows of these two segments of import matrix i.e. for the intermediate use and final demand, are then balanced alongwith the flows of domestic component of the input output table of the base year of the plan at market prices. No distinction is made between competitive and non competitive imports.

g) Indirect Tax Matrix

The import duty on private and public consumption and on gross fixed investment is estimated by applying the import duty rates on import content of the associated demand. The domestic component of demand is obtained by subtracting the import content of demand from total demand. Then remaining indirect tax rates are applied to domestic component of demand to obtain the domestic taxes on the above three final demand vectors i.e. public and private consumption and gross fixed investment. Taxes on exports are estimated on application of export duty rates on export vector. The estimates are made for each input output sector of the final demand vectors.

The import duty matrix is generated from the import duty in each sector and the import content of the product. The inter industry flow matrix for the economy is then decomposed into domestic matrix and import matrix. The remaining indirect tax rates are applied to domestic matrix. The taxes on inputs are obtained as the column sum of import duty matrix and remaining indirect tax matrix. The domestic component of final demand vectors are obtained by subtracting the import content from the total demand for private and public consumption and gross fixed investment.

The inter industry transactions matrix is an aggregation of two mutually exclusive matrices i.e. the domestic matrix and the import matrix. The domestic matrix may be carved out by subtracting the import matrix (alongwith import duty) from the balanced input-output matrix of the base year at current prices. The indirect tax and final demand for public and private consumption gross fixed investment and exports are estimated separately from the import duty and remaining indirect tax. The components of import duties in the indirect tax matrix have been generated by applying independently estimated import duty rates on the import matrix. In a similar way the export duty rates estimated outside the model have been applied to the export vector. The remaining indirect tax rates have been applied to the domestic matrix to get the remaining indirect tax sets have been applied to the domestic matrix to get the remaining indirect tax sets. The sum of these three components of taxes constitute the indirect tax matrix. This is subtracted from the balanced input output table at market prices to generate the input output table for the base year at exfactory prices.

h) Input Output Coefficients for Terminal Year

The input output coefficient matrix for the terminal year of the plan is projected from the coefficient matrix of the base year after incorporating the anticipated changes in product and technology mix on the basis of information available for vanous sectors/industries in the economy

The demand for import in the terminal year has been estimated separately in respect of intermediate use private consumption public consumption and investment. The import demand arising from intermediate use has been estimated for each sector on the basis of the import coefficient matrix. The import demand arising from private consumption in the terminal year has been estimated from the coefficient of import to total private consumption in the base year given the projected sectoral private consumption in the terminal year. Same method is used for estimating import demand for public consumption and gross fixed investment in the terminal year. The import coefficients have been changed in specific sectors in the light of the material balances worked out by vanious Working Groups constituted by the Planning Commission and also taking into account the possibility of import substitution. It may be noted that any change in the import coefficient has been matched by corresponding change in the domestic component of the demand so as to ensure that the technical coefficients are consistent.

III Investment Model

The investment model estimates the investment requirements for a desired level of output and converts investment by destination into investment by origin or source. An econometric simulation model has been used to estimate investment by destination. The estimated investments by destination are converted into 'investment by source with the help of a capital coefficient matrix. Then these are dovertailed with the input output model to ensure consistency.

The estimation of investment by destination for the Eighth Plan exercise has been made for broad aggregate sectors due to data constraints. Sectoral allocation of investment is determined by postulating investment functions. Aggregate gross investment in a sector consists of new investment and replacement investment. New investments are geared to capacity creation. The replacement investments are decomposed into "pure replacement and modernisation." Sectoral investment is again divided into committed investment for on going projects and investment for projects.

initiated during the plan period. Investment to output relations have a gestation lag as investments are spread over a number of years before a project or programme starts generating output.

Investment requirements consistent with a particular growth scenerio can be worked out for the plan period as a whole by sectors and in aggregate. The sectoral investment functions are estimated from distributed lag model taking into account the activity specific distribution of investment and gestation between investment and output of the sector. At the same time, incremental capital-output ratios (ICOR) are estimated for each sector on the basis of time series or cross section data on investment and incremental output, utilising production function approach in a conventional manner. Investment is also related to output with endogenously determined lag on the assumption of uniform spread of total investment over the plan period. The feasibility of the estimate of ICOR obtained from econometric exercises are assessed in the light of the ICOR estimated from the past data using conventional method i.e. dividing investment by incremental value added and projecting these for the future. The investment estimates derived from econometric estimation of the parameters of ICOR are changed in the light of productivity improvements possibly resulting from specific policy measures, or technological, engineering and organisational measures.

The parameters of the investment functions utilised in the investment model have been estimated by relating investment to incremental output with appropriate lag structure. The lag structure for each sector has been obtained through regressions fitted to the annual data on investment and output for the period 1973-74 to 1989-90.

Since the model operates with lags, and the lags in some sectors exceed the plan period, the estimation of investment during the Eighth Plan depends on the output in the post Eighth Plan period. Because of data constraints, it has been assumed that total investment is distributed equally over the gestation period. On this assumption the sectoral invesment functions are estimated from the time series data on domestic capital formation at market prices and gross value added at factor cost (both at constant prices) for 11 broad sectors. These are used to estimate investment for 60 sectors of the input-output model using the base period investment of these 11 sectors. These ICORs are used to determine the sectoral investment necessary to generate a desired output level. Investment by destination are converted into investment by source, i.e., by production activities, with the help of capital coefficient matrix, constructed from the data on capital formation by type of assets. The asset composition is framed under construction, machinery and equipment and inventory holdings or stocks. The potential effect of alternate allocation of investment by destination on sectoral growth rate is measured. Then, these are dovetailed into the input-output model to check their consistency. In case of a mismatch between availability of resources and resource requirements for investment, the requirements are adjusted and the shock is absorbed by the growth rate in post terminal year of the Plan. The investment model also generates investment by broad categories of assets, for example, construction, machinery and equipment, and changes in stocks. The model treats public and private investments separately as allocation of investment in public sector is a target while that in private sector is an indicative forecast. The model also categorises investments into replacement, modernisation and new investment. Finally, it checks the consistency of output requirements in the post-plan period with long term objectives and matches it with the growth potentials of the Plan.

The incremental capital output ratios have been estimated for 11 broad sectors, classifying investment into replacement investment, induced fixed investment including inventories and autonomous investment. The share of replacement and induced investment in total investment is decided on the basis of observed relations in the past. The investment requirements for generating a given level of capacity is known as induced investment. The creation of capacity output is determined from the incre-

mental capital output ratios with appropriate distributive lags using the time senes data on investment and incremental output

The capital co efficient matrix used in the investment model to convert investment by destination to investment by source is originally estimated for 1983-84 by CSO. This has been converted into base year of the plan period and at 1991-92 prices. The capital co efficients differ inter sectorally and inter temporally during the time horizon of the gestation period. The capital coefficient matrix of 1991-92 has been used for projections.

IV The Sub Models

A family of sub models have been developed in order to evaluate a number of critical parameters most of which are extraneous to the core model

a) Sub-Model Agriculture

The agricultural sub model is developed to determine the feasibility of output targets for each sector within agriculture, consistent with the type of land use in terms of irrigation, seed and fertilisers. The area under cultivation in association with the cropping pattern and consequently cropping intensity are assessed at a detailed regional and crop level. The demand supply balance at such disaggregated level which is very essential for ensuring consistency in the medium term and which cannot be appropriately tackled by the input output model is ensured in the agricultural submodel. The parameters relating to cropping intensity, area under imigation and rainfed crops as well as area under high yielding and traditional vanety of seeds by major crops at regional level are measured through the agricultural sub-model developed especially for this purpose. The Plan objectives of growth and diversification of agniculture self sufficiency in food and generation of surpluses for exports can adequately be assessed through the parameters estimated in the agricultural sub-model in conjunction with the input output model. For example, the private consumption demand for foodgrains as independently estimated by the consumption sub-model using consumer demand function and Linear Expenditure System are matched with the foodgrains supply from the input output model

b) Sub Model Consumption

The consumption model estimates the demand for different goods and services for private consumption it takes into account the growth pattern of the economy postulated in the Plan a projected growth in population and its rural urban composition and the inequality in consumption distribution

The private consumption is divided into four segments. rural and urban each into below and above the poverty line i.e. for poor and non poor group of population. The decomposition of aggregate private consumption into rural and urban segments is done on the basis of likely estimates of population in the two segments and the per capita consumption expenditure differential between the two. The private consumption in rural and urban areas are again separated for proor and non poor groups of population on the basis of exogenously determined poverty cut off point and on the assumption that monthly per capita expenditure within each area (rural or urban) follow a log normal distribution. The inequality parameter of the log normal distribution is initially adopted from the National Sample Survey (NSS) data on consumer expenditure distribution of the latest year (1987-88) and then these are changed in the light of the likely redistribution during the plan period. A detailed modelling is done for assessment of the poverty cut off point and the pattern of distribution of consumption for poor and non poor. The consumption baske estimated through the consumption sub-model is dovetailed with the input output model to ensure supply demand balances.

The concept of poverty line is quantified by the Task Force on Projection of Minimum Needs and Effective Consumption Demand set up by the Planning

Commission in the Sixth Plan The poverty line estimated by the Task Force are updated for use in later years following the methodology recommended by the Study Group on the Concepts and Estimation of Poverty Line set up during the Seventh Plan. The increase in price of consumption goods as reflected in the private consumption deflator of the CSO are used to update the poverty line at 1991-92 prices for use in the Eighth Plan. The same deflator has been used to update the poverty line in urban and rural areas which implicitly meant that changes in prices of goods particularly consumed by the poor have remained the same in the two areas.

The sectoral private consumption used in the input output model is estimated through a two stage nested behaviouristic consumption model. This model comprises a Linear Expenditure System (LES) for broad groups of commodities and a set of best fitting Engel curves for items of consumption within each broad commodity LES Group. This two-stage procedure results in a consumption vector compatible with 60 sectors of the input output model. The aggregate private consumption derived from the macro model is used in this model. LES which is a complete consumer demand system is estimated separately in rural and urban areas and within each area separately for population below and above poverty line using the time series of cross section data obtained from various Rounds of the National Sample Survey on household consumption expenditure. Alternative forms of functions are tiried separately for poor and non poor group of population within rural and urban areas in order to choose the best fitting Engel curve for each commodity by applying single equation weighted least squares method to the cross section data on household consumption expenditure. The percentage of population in the different expenditure groups are used as weights to estimate the different forms of function.

c) Sub Model Industry

The feasibility of output targets in industrial sectors obtained from the input output model are assessed with the help of material balance approach. Sectoral estimates of capacity and output alongwith likely absorption of the commodity in major consuming sectors are worked out at a disaggregated level. The estimates of output are worked out in physical units and the sectors here consist of homogenous products lee, a homogenous commodity.

The material balance approach has remained an essential tool in the determination of leasibilities of output projection. The input output sectors mostly consist of a group of non homogenous products whereas the material balance approach treats the selected homogenous products.

The input output model estimates sectoral output in the terminal year of the plan. A sector may comprise more than one commodity. The commodity-wise demand and supply within each input output sector is obtained through material balance studies. Econometric studies are also carried out in case of specific commodities. The production targets of the commodities within a sector are set in such a way that their aggregate growth rate is in conformity with that of the input output sector comprising these commodities.

In this method, the demand for a specific commodity mainly used as intermediate product is arrived at by the application of end, use analysis. The successive stages are

- (i) identification of major consuming sectors and their sub-sectors, their current production and targets of production in the Plan
- (ii) determination of input norms in the past on the basis of observed data and adopting these for future period in the light of relevant technical information

(iii) calculation of meterial requirements from the targets of production of user sector and the input norms, and

(iv) estimation of addition to stocks and other uses

Material balances are prepared for key products such as coal electricity petroleum products steel heavy machinery and petro chemicals sugar cloth cotton jute non ferrous metals etc

d) Sub Model Trade

The sub model on trade works out the projections for exports imports and current account balance in the base and terminal year of the Plan. The aggregate level of exports are made consistent with the sectoral estimates of exports in the trade model. A similar method is applied for imports with the difference that the sectoral imports obtained in the trade model are likely to undergo a change in the light of the inter relationship implicit in import coefficient matrix which forms a part of the input out put system. The sectoral imports and exports arrived at from the input output model are suitably adjusted in the light of the parameters relating to import elasticity export elasticity changes in terms of trade set in the trade sub model. The phasing of import export invisibles and current account deficit during the five years of the Plan are obtained in the core model. These are checked for feasibility in the light of the information obtained in trade sub model and then finally aggregated to arrive at the aggregates of imports exports invisibles and current account deficits for the five years of the Plan.

An import coefficient matrix compatible with the input output table has been generated based on the past data on use of imported inputs into the product and other technical data available in the Working Group Report on Balance of Payments constituted by the Planning Commission for the Eighth Plan Import for each sector is estimated separately for intermediate uses consumption and investment. The projection of sectoral imports and exports for the plan penod are made on the basis of simulation exercises treating policy packages as exogenous. The choice between alternative import allocation and export target and their effect on balance of payments and overall rate of economic crowth are explored from simulation exercises.

e) Sub Model Financial Resources

The estimation of domestic savings separately for public and private sector and the financing of investment requirement in plan are assessed from a host of inter related variables in the financial resources sub model. Inter sectoral flow of funds are also worked out in the financial resources sub model. The savings in the public sector are estimated separately for Government sector and public enterprises in the framework of national acounts. The savings of Government sector are assessed from a detailed analysis of various components of income such as direct and indirect taxes non tax revenues and public expenditure, such as debt servicing and subsidies. The savinos of public sector enterprises are assessed from the enterprise level analysis of their operational performance evaluated in terms of return to investment and retained profits. The savings of private sector is assessed separately for private corporate sector co operative sector and household sector. The savings behaviour of the household sector has been related to disposable income and price inflation. The composition of savings has been disaggregated into currency deposits small savings provident funds and corporate securities. Finally, the inflow of foreign savings including invisibles are obtained from the estimate of the Reserve Bank of India and the Ministry of Finance. These are integrated under the frame of public sector plan outlay and its pattern of financino

The scheme of financing pattern of public sector plan consist of budgetary support to the plan and internal and extra budgetary resources (IEER) of public enterprises. This is backed up by inflow of foreign savings. The inter sectoral

flow of funds in terms of flow of household savings to public sector is worked out from an analysis of the financing system embracing the structure of interest rates and other monetary and financial variables which govern the relative rates of return in public and private enterprises

The financial resources sub-model estimates the availability of resources in order to finance the investment needs estimated in the input-output and investment model, which is necessary to generate the desired growth rate. This estimate of resource in the financial resources sub-model is procedurally recursive to the input-output cum investment model due to the simultaneity between savings and income.

V) Structure of Output and Value Added

The sectoral growth rates of value added and gross output obtained from the multi-sectoral input-output-cum-investment planning model are given in Table-1 1. The growth rates in gross output are generally found to exceed the growth rate in value added as a result of the rise in the ratio of input to output within the sector. The structure of value added and output as a result of the growth scenario are given in Table-1 2. The share of sectoral output in total output for the base and the terminal year of the plan shows a shift in the structure of output from primary to secondary and tertiary sectors.

Sectoral investment allocations consistent with the sectoral output profile are given in Table-1.3. The pattern of investment shows a significant shift of investment in favour of agriculture and allied activities to 18.64 per cent of total investment in the Eighth Plan (1992-97). The results also show that the above increase in investment in agriculture sector has not altered the relative share of investment in infrastructure sector.

VI) The Perspective Plan

The Eighth Plan has been formulated against the background of a perspective covering the period of 15 years from 1931-92 to 2006-07 The perspective of development visualises elimination of poverty and unemployment a minimum level of food consumption reduction in disparity between urban and rural areas in respect of income and consumption and meeting the basic socio ecoomic needs and aspirations of the people. The factors which basically influence the scenario of the perspective plan are demographic trends and basic resource endowments. The structure of growth of the population and the associated growth and size of the labour force characterize the demographic trends. Basic resource endowments are assessed from land water energy and other essential minerals and environment.

The output level of the terminal year of the Eighth Plan serves as the base for projections of growth in the future. The sectoral production levels in the perspective period are estimated from the input output model on the basis of exogenously estimated values of the macro variables, keeping the base level technology co-efficient matrix and other associated parameters generally unchanged. The results show that acceleration in the rate of economic growth is an essential pre-requisite for realisation of the objectives set out in the perspective period. The choice of growth path is confronted with a trade-off between faster growth in the plan period and somewhat slower growth in the post plan period. In the background of initial capacity constraints the feasible growth rate consistent with the long run projection of sectoral demand was set at 5.6% per year for the plan period and 6.2% per year in the post plan period. The pattern of long term growth in the per-pective period is thus consistent with the investment policy framed in the plan keeping in view the socio economic requirements of the population. The growth rate in the post plan period estimated as 6.2 per cent per year was revised marginally upwards to 6.28 per cent considering related improvements in efficiency in key areas and institutional reforms. The model results are based on an

exogenously determined savings rate of 23 9 per cent and investment rate of 24 9% in the post terminal period

The demand requirements in the perspective period are critically based on the target to eliminate poverity. This would necessitate increase in income particularly of the poor and availability of foodgrains. The increase in per capita consumption of the people particularly of those in the poor group would make a draft on foodgrains demand. Thus the foodgrains requirements in the year 2006.07 on the basis of growth of population and income are estimated at 283 million tonnes. Total consumption is projected to rise at the rate of 5.9% per year during the post terminal period. The major indicators of development for the perspective period are given in Table 1.4.

The basic data used to run the model as well as some of the detailed results by 60 sectors of the input output model are given in Annexure Tables 1 1 to 125. It gives for base and terminal year of the plan the matrices of caliberated input output coefficients value of interindustry use and final demands, the import coefficients and import transactions. The annexure tables also give the structure of final demand the structure of imports in final demand and the structure of indirect taxes. The output coefficient and the capital coefficient matrix are also given in the annexure. The mathematical scaffolding of the model is described below.

Mathematical Scaffolding of Eighth Five Year Plan

The quantitative framework of the Eighth Plan consists of a core model and several sub models. The core model consists of macro model, input-output model and investment planning model. The sub models which are primarily designed to supply the inputs to the core model exogeneously are developed in the areas of agriculture, industry, consumption, trade, financial resources and demography and employment.

1. Macro-Economic Model

The macro-economic model estimates the scalar values of the macro variables such as income, measured by Gross Domestic Product at factor cost, Indirect Taxes, GDP at market prices, Gross National Product, Savings, Disposable Income for base and terminal year, including values of variables such as Exports, Imports, Public and Private Consumption, and Investment. The model can be conceived in the form of a set of structural equations most of which are based on income and expenditure identities. Some of the variables and parameters used in the macro model are either exogeneously determined or are obtained from other sub-models.

Target growth of the economy is determined from the assessment of macro economic aggregates such as consumption savings investment and net inflow from the rest of the world. The values of the macro variables are set by balancing income and expenditure for a number of alternative growth rates using simulation exercise based on econometric modelling. The set which is consistent with the aggregate savings behaviour and domestic production supply possibilities is adopted.

The base year (1991-92) GDP at factor cost along with the targetted rate of growth of Plan determines the GDP at factor cost of the terminal year (1996-97)

$$Y^{t} = Y^{0} (1 + r)^{5}$$
 (1.1)

Y = Aggregate GDP at factor cost in the terminal year (t)

Y⁰ = Aggregate GDP at factor cost in the base year (0)

r = Targetted annual rate of growth of GDP at factor cost

The GDP at factor cost and the net indirect taxes estimated by the Financial resources sub-model gives the GDP at market price

$$Y^{t}_{M} = Y^{t} + TTX^{*t}$$
 (1 2)

YtM = Aggregate GDP at market price in the year t

TTX* = Total Indirect Taxes in the year t

GNP is the sum of GDP at market prices and net factor income from

abroad

$$GNP^{t} = Y^{t}_{M} + NFI^{t}$$
 (1.3)

GNP^t = Aggregate GNP at market price in year t

Domestic savings are estimated exogenously and gross investment is defined as the sum of domestic savings ~ id net imports of goods and non-factor services less net factor income from abroad and other current transfers from the rest of the world

$$INVS^{t} = SAV^{*t} + NIMP^{t} - NINV^{*t}$$
 (1.4)

INVS^t = Gross Investment at Market Prices in year t SAV^t = Gross Savings at Market Prices in year t

Exports are exogeneously determined by the Trade Sub-model Imports are also estimated exogenously in the Trade Model and are incorporated in the macro-model. An alternative estimate of imports is determined in the input-output model. The estimate of imports from the input-output model is made consistent with the import estimate from the trade cum macro model through a controlled parameter By definition.

$$NIMP^{t} = M^{t} - E^{t} \qquad (1.5)$$

NIMP^t = Net Imports in year t

M¹ = Aggregate Import of Goods & Non-Factor Services in year t
E¹ = Aggregate Export of Goods & Non-Factor Services in year t

CDY*t = Other Current Transfers (Net) in year t.

Disposable Income is the sum of GNP at market price and other current transfers

$$Di^t = GNP^t + CDY^{t}$$
 (1.7)

Dit = Gross Disposable Income in year t

Total consumption is the difference between Disposable Income and Savings

$$TCON^{t} = DI^{t} - SAV^{t}$$
 (1.8)

TCONt = Total Consumption in year t

The Total Consumption is decomposed into Public and Private consumption in the macro model. The decomposition is effected using an exogenously determined parameter alpha.

$$PC^{t} = TCON^{t} x alpha$$
 (19)

$$CM^{t} = TCON^{t} (1 - alpha)$$
 (1.10)

PCt = Aggregate Public Consumption in year t

CMt = Aggregate Private Consumption in year t

alpha = Proportion of Public Consumption to Total Consumption

The changes in stocks is derived as a proportion of Gross Investment

$$ST^{t} = ALFA^{*} \times INVS^{t}$$
 (1.11)

ALFA* = Proportion of Changes in Stocks in Gross Investment ST^t = Aggregate Changes in Stocks in year t

51 = Aggregate Changes in Stocks in year t

Gross fixed investment is the difference between investment and changes in stocks $% \left(1\right) =\left\{ 1\right\} =$

$$FAC^t \simeq INVS^t - ST^t$$
 (1 12)

FACt = Gross Fixed Investment market price year t

The model iterations begin with an initialised value of investment. The above income and expenditure identities in combination with the input-output model endogenously determine investment in the terminal year of the plan. The link between macro model and input-output model is established by aggregate imports and the process of iteration between these two models begins. The iterative process ends when the investment in the terminal year is obtained as the same value given in the macro model. Investment model is run to derive investment requirement at broad aggregate sectors. Then investment by destination is converted into investment by origin. The mismatch between the availability of investment and requirement of investment is removed by adjusting the post terminal growth rate.

2. Input-Output Model

The input-output model is used to derive mutually consistent sectoral output and corresponding sectoral investments and other final demands. The final demand vectors (at the 60 sector level) of consumption and exports are exogenous and the remaining final demand vectors are determined in the input-output model.

Changes in Stock

$$ST_i = S_i(x_i^i \cdot x_i^0) ST_i^i \Sigma S_i(x_i^i \cdot x_i^0) \dots (2.1)$$

 ST_1^t = Sectoral Changes in Stocks in year t.

s_i = Sectoral Changes in Stocks Coefficients.

x = Output of Sector i at factor cost, year t.

 X_i^0 = Output of Sector i at factor cost, year 0

Public Consumption

$$PC_{i}^{t} = b_{i} \times PC_{i}^{t} \dots (2.2)$$

 PC_i^l = Public Consumption of Sector i in year t. b_i = Share of i-th Sector in Public Consumption

Gross Fixed Investment

$$GFM_{i}^{t} = P_{i} \times FAC^{t}$$
(2.3)

GFM[†]_i = Gross Fixed Investment, Sector i, at market price, year t. P_i = Proportion of Gross Fixed Investment originating from Sector i

Here,
$$\sum_{i=1}^{60} P_i = 1$$

Imports

The imports are determined as sum total of import contents of intermediate use and of final demands. The demand for imports arising from inter-industry use is estimated using the import coefficient matrix. The demand for imports for final use is estimated from the import content of the various component of final consumption.

$$MS_{i}^{l} = \sum_{j} a_{ij}^{lm} X_{j}^{l} + CM_{i}^{l} + GM_{i}^{l} + GFIM_{i}^{l}(2.4)$$

where,
$$M^t = \sum MS^t$$
 (2.5)

MS = Total Imports of Sector i, year t

 $\mathbf{a}_{j}^{tm} \approx \text{Imported inputs of Sector I per unit of output of Sector J, year t (Commodity x Commodity Matrix)$

x = Industry output of Sector j, year t

 $\sum a_{ij}^{tm} X_{ij}^{t} = \text{Import requirement for intermediate use}$

$$GM_i^l = h_l \times PC_i^l \qquad (2.6)$$

 GM_t^i =import content of Public Consumption, Sector i, year t h_i = import coefficient of Public consumption, Sector i

$$GFIM_i = m_i \times GFM_i$$
 (2.7)

 $GFIM_1^2$ =Import content of Fixed Investment , Sector i, year t m= Proportion of Imported Fixed Investment to Total Fixed Investment, Sector i GFM_1^2 = Gross Fixed Investment at Market Price, Sector i year t

$$CM_i^i = C_i \times CMP_i^i$$
 (28)

CM = Import content of Private Consumption, Sector i, year t

C_i = Proportion of Imported Private Consumption to Total Private Consumption, Sector i

CMP1 = Private Consumption at Market Price Sector i year t

Conversion from Market Price to Factor Cost

The final demand vectors at market prices are converted into factor cost on application of indirect tax rates

Public Consumption

$$G_{i}^{l} = GM_{i}^{l} + (PC_{i}^{l} - GM_{i}^{l} - n_{i} \times GM_{i}^{l})/(1+t_{i})$$
 (2.9)

Gt = Public Consumption of Sector (at Factor Cost year t

t; = Other Indirect Taxes per unit Value of Output, Sector i

n_i = Import Duties per unit Value of Imports, Sector i

Exports

$$\vec{E}_{i} = (1 - e_{i}) \times EMP_{i}$$
 (2.10)

E = Exports of Sector | at Factor Cost year t

e, = Export Duty per unit Value of Exports Sector i

EMP = Exports at Market Prices Sector i, year t

Gross Freed Investment

 $GFI_i^l = GFIM_i^l + GFM_i^l / (1+t_i) \cdot (1+n_i) GFIM_i^l / (1+t_i)$ (2 11) 11) $GFI_i^l = Gross$ Fixed Investment, Sector I, at Factor Cost, year t.

Private Consumpt..on

$$C_{i}^{f} = CM_{i}^{f} + [CMP_{i}^{f} - (1+n_{i})CM_{i}^{f}]/(1+t_{i}).....(2.12)$$

C = Private Consumption at Factor Cost. Sector i.vear t.

Total Indirect Taxes (Net)

The difference between the aggregates of various final demand components at market price and at factor cost produces the estimates of the respective components of net indirect taxes.

$$TGX^{t} = PC^{t} - \sum_{i} G_{i}^{t} \dots (2.13)$$

TGX = Indirect Tax (including import duty) on Public Consumption, year t

$$TIX^{l} = FAC^{l} - \sum_{i} GF_{i}^{l}$$
(2.14)

TIX! =Indirect Tax (including import duty) on Gross Fixed Investment, year t.

$$TCX^{l} = CM^{l} - \sum_{i} C_{i}^{l} \dots (2.15)$$

 TCX^{t} = Indirect Tax (including import duty) on Private Consumption, year t.

$$TEX^{t} = EMP^{t} - \sum_{i} E_{i}^{t} \dots (2.16)$$

TEX = Export Duty

The indirect taxes on intermediate use are estimated as

$$\begin{array}{c} 60\ 60 \\ 71NX^{t} = \sum\limits_{i=1}^{L}\sum\limits_{j=1}^{L} (aij^{t} - aij^{tm})\ X_{i}^{t} \ t_{i} \\ = 1 = 1 \end{array} + \sum\limits_{i=1}^{L}\sum\limits_{j=1}^{L}aij^{tm}\ X_{j}^{t} \ n_{i} \(2.17)$$

TINX^t = Total Indirect Taxes on Inputs in year t.

aij^t= Inputs of Sector i per unit of Sector j, year t (Commodity x Commodity Matrix).

The total (net) indirect taxes is the sum of indirect taxes on inputs and indirect taxes on various components of final use.

$$TTX^{t} = TINX^{t} + TCX^{t} + TGX^{t} + TIX^{t} + TEX^{t} \dots (2.18)$$

TTXt = Total (Net) Indirect Taxes in year t.

The estimate of total (net) indirect taxes from the input-output model is made compatible with that estimated in the macro model using iterative procedure.

Output

The sectoral ouput levels, consistent with the demands from final uses, are projected by the input-output model as sum total of intermediate uses and final demands thereby ensuring a consistency between the different sectors in output structure.

$$x_i' = \sum_{j} a_j f_j x_j' + C_i + G_i' + G_j f_i' + S_j f_j' + E_i' - MS_j'$$
 (2.19)

The input-output model also provides sectoral profiles of input use, industry output, value added and net indirect taxes

The industry output is derived using the market share matrix (make matrix) and the commodity output vector.

$$G_j^f = \sum_i D_{ij} X_j^f$$
 (2 20)

G = Gross Industry Output, Sector j, year t

Dij = Market Share Matrix (Make Matrix)

Value Added

The value added profile is derived by subtracting input use from the industry output

$$V_{j}^{l} = G_{j}^{l} \left[1 - \sum_{i} b y_{i}^{l} \times (1 + t_{i}) - \sum_{i} b y_{i}^{lm} \times (n_{i} - t_{i}) \right]$$
 (2.21)

V = Gross Value Added Sector | year t

 by^{f} = Inputs of sector i, per unit of sector j, year t (Commodity x Industry Matnx) by^{fm} = Imported inputs of sector i, per unit of sector j year t (Commodity x Industry Matrix)

After the outputs are balanced in the input-output model, the estimated imports which provide a crucial link between the input-output model and the macromodel for iterations with the input-output model till the investment demand in the terminal year of the plan converges to the same value in successive runs of the model. The controls are then shifted to the investment model from the macro-model.

3. Investment Model

investment requirements at broad sector levels (11 sectors) and conversion of investment by destination to investment by origin are worked out in the investment model. The value added of both base and terminal year at 60 sector of input-output model are aggregated to 11 sectors of the investment model and the sectoral growth rates during the plan period are calculated. These are then used for estimating investment by destination investment Model also estimates the aggregate post-terminal growth rate consistent with the sectoral growth rates of the medium term.

Post Terminal Growth Rate

The gestation lags between investment and output makes it imperative to integrate the long-term perspective with imedium term. This consistency between the medium term and the long term growth rates is achieved at broad 11 sector levels of the national accounting frame.

A post terminal growth rate estimated iteratively also brings about consistency in estimated investment (based on sectoral medium term and post terminal growth rates) and the investment level projected by the interactions of macro model and the input output model

The post terminal growth rate is estimated with the help of iterative process. In case of a mismatch between available resources and estimated investment, the latter is adjusted and the shock is absorbed by the post terminal rate of growth. An econometric procedure is adopted for this solution. The model is non-linear in perameters and is solved using Newton-Ranbson Method.

Investment Estimates:

For projecting year-wise investment by destination, an econometric simulation model has been used taking into account investment lags. This model incorporates an accelerator-type investment theory in which current demands for investment goods depend on the expected growth of output. These projections are carried out using the following equations.

$$VABB(I) = [(VT(I)/VO(I)) ** (1/YRS)](3.1)$$

VABB(I) = Rate of growth over Plan period, 11 sectors. VT(I) = Sectoral Value added, 11 sectors, terminal year.

VO(I) = Sectoral Value added, 11 sectors, base year.

YRS = 5

Using VABB(I) and the sectoral rate of growth of value added over the perspective period, defined as RT(I), terminal year values ViTL and ViTL1 are defined depending on the sectoral lags as:

where TL = T+AL(I); T= 1,5

AL(I) = Lags between investment and output

VITL1 = VO(I) x [1+VABB(I)]^{TL1} if TL < 5
VITL1 = VO(I) x [1+RT(I)]^{TL1-5} if TL
$$\geq$$
5(3.3)

where TL1 = T

A function DIFV is defined as:

Using (3.4),

$$AI(I) = AK(I) \times DIFV + AUTO(I) = PINV (I,J)(3.5)$$

AI(I) = Sectoral Investments for the Jth year, J = 1, 5.

AK(I) = Incremental Capital Output Ratio, 11 sectors, I= .1,11.

AUTO(I)= Autonomous Investment in Terminal year, I=1,11.

$$TS(I) = \sum_{i} PINV(I,J) \dots (3.6)$$

TS(I) = Sectoral Gross Investment over the Plan Period, 11 Sectors

$$PT = \sum_{i} TS(i)$$
(3.7)

PT = Aggregate Gross Investment over the plan penod

The estimated investments by destination for the terminal year (PINV(I,5)) are converted into investment by source sectors with the use of a capital coefficient matrix

GFICON =
$$\Sigma$$
 PINV(I,5) x PCON (I) (3.8)

GFICON = Final value of gross investment in construction sector at market prices, terminal year

GFIMAC =
$$\Sigma$$
 PINV (1,5) x PMAC (1) (3.9)

GFIMAC = Final value of gross investment in machinary and equipment at market pnces, terminal year

$$TSTK = \Sigma PINV (I,5) \times PSTK (I)$$
 (3 10)

TSTK = Final value of changes in stocks at market prices, terminal year

PCON(I), PMAC(I), PSTK(I) are elements of the capital coefficient matrix (11 x 3)

GFITOT = Total Gross Fixed Investment terminal year

In the event of non-convergence | e , if there is a mis-match between availability of investment and required investment to meet the desired medium terrogrowth rate, the controls are shifted to the input output model along with revised values of control ratios RAC RAM and RAST and PII(I) The control ratios are defined as follows

i) RAC = GFICON/GFITOT = Ratio of investment in construction to total fixed investment terminal year

ii) RAM = GFIMAC/GFITOT = Ratio of investment in machinery and equipment to total fixed investment, terminal year

III) RAST =TSTK/TGFI = Ratio of changes in stocks to total investment, terminal year, where TGFI is aggregate gross investment in the terminal year

vestment,

ny) PII(I) = Proportions of gross fixed investment in machinery and equipment for each sector (except construction) to total gross fixed investment in the terminal year. However, for the construction sector,

Also
$$\sum_{i} PII(i) = 1$$

In effect, the investments by source sectors—are dovetailed with the input-output model for sectoral consistency

Table-1.1 Growth in Value Added and Value of Output : Eighth Plan

(Percent per annum)

S.No.	. Sector	Value Added	Value of Output
0	1	2	3
1.	Agriculture	3.25	4.28
2.	Forestry & Logging	-1.23	-1.11
3.	Fishing	5.46	7.00
4.	Mining & Quarrying	7.96	8.90
5.	Manufacturing	7.35	8.21
(1)	Food and Beverages	2.14	3.42
(11)	Textiles	5.87	7.10
(113	1) Wood & Paper Products	7.63	7.95
(1V)	Leather&Rubber Products	16.03	16.15
(v)	Plastic Products	3.70	8.05
(v1)) Petroleum Products	3.31	4.70
(v1:	i) Chemicals	7.48	8.10
(V1:	11)Non-Metallic Mineral Prod.	8.45	8.45
(lx)	Basic Metals	8.23	8.93
(x)	Non-Electrical Machinery	6.36	7.86
(x1)	Electrical Machinery	9.53	13.78
(xı	i) Transport Equipment	8.76	9.29
(x1:	11)Other Manufacturing	8.72	11.15
6.	Construction	4.70	5.29
7.	Electricity, Gas&WaterSupply	7.83	7.62
8.	Railways	3.49	4.06
9.	Other Transport	7.70	8.49
10.	Communications	6.09	6.92
11.	Other Services	6.02	6.60
	Total	5.60	6.73

23

Table-1.2 Structure of Output and Value Added : 1991-92 and 1996-97

(Percent)

No.	Sector	Value Ad		Value of Output		
		1991-92	1996-97			
0		2	3		5	
2.	Agriculture Forestry & Logging Fishing Mining & Cuarrying	1.61	1.15	0.93	0.63	
3.	Fishing	0.84	0.83	0.49	0.50	
4.	Fishing Mining & Quarrying	2.04	2.28	1.45	1.60	
5.	Manufacturing	2.04 21.50	23.34	36.06	38.62	
(1)	Food and Beverages	1.96	1.66	5.14	4.39	
(11	.) Textiles	5.74	5.81	6.95	7.08	
	i) Wood & Paper Products					
(iv) Leather & Rubber Prod.	0.83	1.33	1.38	2.10	
	Plastic Products	0 15 0.29	0.14	0.33 2.62	0.35	
(vi	.) Petroleum Products	0.29	0 26	2.62	2.38	
(v1	1) Chemicals	2.12	2.31	3.97	4.23	
(vi	ii)Non-Metallic Mineral Prod.	1.04	1.19	1.20	1.30	
(1)) Basic Metals	1.65	1 87	3 68	4.08	
(x)	Non-Electrical Machinery	1 51	1 57	2.28	2.40	
(xi	.) Electrical Machinery .i) Transport Equipment	1.65	1.98	2.52	3.46	
(x)	.1) Transport Equipment	1.82	2 11	2 69	3.03	
(xi	ii)Other Manufacturing	1.80	2.08	1.97	2.41	
6.	Construction	5.13	4 92	7.08	6.62	
7.	Electricity, Gas & Water Supply	2.40	2.67	2.74	2.85	
8.		1.54	1.39	1.23	1.09	
9.		4.40				
10.		1.17				
11.	Other Services		34.85			
	Total	100.00	100.00	100.00	100.00	

24

Table-1 3 Investment in Eighth Plan

(Rs.Million at 1991-92 prices)

S.No	. Sector	Investment	Share
		(1992-97)	
0	1	2	3
1.	Agriculture	1427603	17.89
2.	Forestry and Logging	28000	0.35
З.	Fishing	31919	0.40
4.	Mining and Quarrying	395850	4.96
5.	Manufacturing	1884532	23.62
6.	Construction	205036	2.57
7.	Electricity, Gas & Water	1021483	12.80
	Supply		
8.	Railways	372836	4.67
9.	Other Transport	506346	35 م6
10.	Communication	259963	3.26
11.	Other Services	1846123	23.13
12.	Total	7979690	100.00

Table 1 4
Indicators of Development A Perspective

s N	o Indicator	1991-92	1996-97	2006-07
0	1	2	3	4
1	Savings Rate	21 6	21 6	23 9
2	Investment Rate	24 1	22 5	24 9
3	GDP Growth Rate (%)	-	5 6	6 3
4	Food Grain Consumption (Kg per capita, yearly)	182	194	225
5	Population (Million)	856	938	1099
6	Labour Force (5+) (Million)	328 94	364 31	440 74
7	Life Expectancy (Year)			
	Male	57 7	60 1	66 1
	Female	58 7	61 1	67 1

- $N\ B$ $\ 1$. The saving and investment rates are expressed as percent of GDP at market prices
 - 2 The growth rate of GDP is annual average for the period beginning 1991-92

CHAPTER-2 DEMOGRAPHY SUB-MODEL

The demographic density and spread provides the starting point of all planning exercises. Alongside population dynamics has to be explicitly assessed and its different characteristics have to be closely considered while developing the equations for all other sub-models.

Population Projections

Population Projections for the period 1992-2007 were worked out with no major changes in methodology used for the Seventh Five Year Plan, mainty because the full results of the 1991 Census of India were yet to be released, especially the age-sex distributions; and 1991 Census results when available, showed that differences were minor. For these estimates, the year 1986 was taken as the bench-mark year and the crude birth rate (CBR), crude death rate (CDR) and growth rate (GR) for the period 1991-86 as revealed by the Sample Registration System (SRS) were considered as the base level estimates The Standing Committee of Experts on 1990-2005 on the basis of these bench-mark data. In view of the proximity of the 1991 Population Census, the Standing Committee did not make any fundamental change in the population projection methodology adopted by the Expert Committee on Population Projections. Some modifications were, however, made on the basis of the CBR, CDR and Infant Mortality Rate(IMR) figures for the period 1996-90 and also the population total, sex-ratio, percentage of urban population and work participation rates, as obtained from Census of India, 1991 and the Couple Protection Rate (CPR) of 1991. The method used is the component method of population projection, the componentes under consideration being (a) Fertility (b) Mortality and (c) Migration.

Fertility

Assumptions regarding fertility are based on the evaluated results available from administrative statistics on performance of family planning programmes in terms of likely levels of couples effectively protected in recent years and the proportion of females married, in the age group 15-44 as recorded by the 1981 Census of India.

It is assumed that the changes in the proportion of married females in the reproductive age-groups 15-29 and 30-44 observed during 1971 and 1981 will continue till the year 2007. In the age-group 15-29 a decline is assumed due to the trend of increase in the age at marriage, whereas in the age-group 30-44 an increase is assumed as it is felt. that less number of widows would be likely. The observed changes in the trends for the two age-groups during 1971-81 have been linearly extrapolated for the later periods. The proportion of married females in the age-group 15-44 thus worked out is presented in Table-2.1.

The Couple Protection Rates (CPR) published by the Department of Family Welfare are adjusted for quality as recommended by the Committee appointed by the Government of India in the Department of Family Welfare. The CPRs to be achieved in the future years for different States and the country as a whole are estimated by using a logistic curve connecting data available on CPR at two points of time viz., 1972 and 1987 and using more or less the same asymptotic values as used for the Seventh Plan projections. A comparative picture of the CPR values that were used for the Seventh and Eighth Plan documents is indicated in Table-2.2

However, there has been a significant change in the formulae used for obtaining the future GMFR (General Marital Fertility Rates) values. The GMFR gives

the number of births per year per 1000 married females in the age-group 15-44 As the General Fertility Rate (GFR) defined as the number of births per year per 1000 females aged 15-44 has been estimated from the Sample Registration System (SRS) data for the period 1981-85 this period becomes the new bench mark in this exercise Fresh GMFR values could be calculated for the country as a whole and for different States for 1985 using the proportion of married females. The relationship between CPR and GMFR for a period under consideration used for the Eighth Plan is consequently updated as

Using the projected CPR for the future years the GMFR values and hence the GFR values for the future years are projected

Mortality

The mortality assumptions of the Seventh Plan Demography Sub-Modal have generally been kept unchanged for the Eighth Plan Starting with SRS life table of 1980 which gives an expectation of life at birth of 54.1 years for males and 54.7 year for femalles in 1980 an annual improvement of 10.5 years in life expectanged at birth was assumed for males till treached a level of 60 years after which the annual increase was reduced to 0.45 years in case of females the annual gain in life expectation 24 birth was assumed at 0.55 years till reached 60 years after which the improvement is reduced to 0.50 years per annum. For the quinquennial 2001-2008, it has been assumed that expectation of life at birth or males will nee at the rate of 0.40 per annum till it reaches the age of 65. For females the annual gain has been assumed to be 0.25 per annum. On this basis the expectation of life at birth for the country as a whole is 64.8 for males and 65.8 for females for the quinquennium 2001-2006 and 66.1 years for males and 67.1 years for females in 2008 2011.

At the State level separate life tables for males and females are constructed for the period 1979 80/1978-80 using SRS age-specific death rates. The expectation of life at birth are estimated using Greville's method. Annual increase in expectation of life at birth is assumed to follow a function of the level achieved at the point of time. For males it is estimated according to the pattern given in Table-2.3 whereas for females there was an additional improvement of 0.05 years per annum on the eff values.

A review using the SRS death rates recorded for the period 1981-86 showed that except for Kerala and Maharashtra the assumption could be kept unchanged. However for these two States it was found that the death rates recorded by SRS for the period 1981-88 are themselves much lower than those estimated on the basis of the 1978-80 rates. For these two States therefore certain adjustments are done by using the survival ratios based on the life expectancy for the period. 1981-86 worked out from the SRS age-specific mortality rates for the pend 1981-86.

Migration

Using the data on place of birth the number of persons whose place of birth was outside India was recorded from the 1971 and 1981 Census results (1991 census results on this aspect are not available). Applying the 10 year survival ratios of 0 9165 for males and 0 9122 for females on these number inter-decadal migrants into India is observed From the number of persons born in India but living abroad the number of out-migrants is also found. It is observed that the net migrants as on 1981 is negligible. This for the future years in the light of past experience, the net migration is considered us for the future years in the sight of past experience, the net migration is considered to be negligible.

On the basis of the place of last residence data and duration of residence 0-9 years, inter-state migration is observed to be slightly above 1% in the States of Bihar, Haryana, Maharashtra and Uttar Pradesh. So adjustment is made for these four states only. It is assumed that in these States the trend in migration rate observed during 1981-71 and 1971-81 would be continued in the next three decades, during 1981-2007.

Method of Projection

It is assumed that the age-specific mortality rates for males and females separately, would conform to the South Asian Model pattern of Life Table presented by the United Nations for males and females separately and these Life Tables are assumed for the end of projection period 2007. From the set of initial Life Tables 1980 and final Life Tables of 2007, values of $n^2 v_s$ (i.e., probability that a person aged x years does not survive till age n) for the intervening years are derived assuming that mortality would decline linearly.

From the n^{q_X} values, the e^g (expectation of life at birth)-values are calculated for each of the intervening years and are made to converge to the level of e^g assumed earlier in the mortality assumption by an iterative procedure. Finally, the survival ratios for each 5 year age-group are calculated from the derived Life tables and are used to project the population for each five year age-group quinquenially.

The 0-4 age-group population for the various periods are derived by using the projected General Marital Fertility Rate (GMFR) for the quinquennium, number of married females in the age-group 15-44, Survival ratio's for birth in the age-group 0-4 for males and females, and an assumed sex-ratio of 105 males to 100 females at birth. As GMFR gives the number of births per year per 1000 married females in the age-group 15-44 years, for a period "t" under consideration:

Number of births during (t-4,t) =

5 x GMFR_t x (No. of married females aged 15-44)_t.

Using the sex-ratio (for males 105/205), the number of boys and girls born were estimated. Multiplying these by the survival rates (Infant Mortality Rates for 0-1 year and Child Mortality rates for 1-4 years, separately for boys and girls), the number of surviving boys and girls aged 0-4 years for the period t and hence the age-distribution and total population for the period are obtained.

The 1991 Census results show that the projected population for 1991 on 1st March, according to this method has only a slight difference of around 1.4 per cent but the number of females per 1000 males, which was expected to rise as the 1981 census showed, had again dipped. These necessitated some modifications for the post-1991 projected results for the overall total population figures. Taking the 1991 census sex-wise population base data and the growth rates as observed by using the methodology already described, the modifications are incorporated. This did not, however, imply change in the vital rates.

Age-distribution Projection

The age-distribution for the years are based on the annual estimates worked out for these years. For a period t lying in between period 1 and 6, say, (as quinquennial age-distribution are obtained by the projection methodology) a value of K is determined, such that

$$Kp_1 + (I-k) P_6 = P_1$$

where P1 Pt and P6 are the annual populations of period 1, t and 6 respectively Using this constant ^{1}k , the population $P_{1}(x)$ for age-group $^{1}x^{*}$, is calculated as

$$P_1(x) = k P_1(x) + (l-k) P_6(x)$$

Single Year Age Projection

An oscillatory interpolation curve is assumed for getting the single-year age-distribution as the single year Census data will have inherent response-biases in terms of number preferences etc. An oscillatory interpolation formulae using Spraque multibuliers is employed for this exercise.

Rural-Urban Distribution of Population

The Standing Committee of Experts on Population Projection in 1989, on the basis of the 1981 Census results projected for India the percentage of urban population to total to be 27 87% in 1991 with a total urban population of 235 millions. This was done by projecting the Urban population in each State separately mainly by using the increasing Urban-Rural Growth Differential method (URGD). The method is based on the assumption that the urban-rural growth differential follows a logistic pattern, though the exact forms (parameter values) were different for different States. The All-India urban proportion and urban total was derived by adding the projected urban population of the vanous States and Union Territones.

However the 1991 census results have shown a much smaller sized urban population of 217 2 million which constitutes only 25 72% of the total 1991 census population. This indicates 2 15% shortfall in urban proportion. As this sudden fall could not be explained by the urban-rural growth differentials the urban population for the next decade 1991-2001 is projected on the basis of the average annual rate of growth observed during the last 20 year period i.e. 1971-91 rather than the decelerated rate of growth observed during 1981 91 this representing the long term trend of urbanisation. In the post 2001 period the rate of growth of urban population is assumed to be gradually declining in line, with the assumed reduction in the rate of natural increase, though the share of urban population ricreases continuously.

To obtain the sex-composition of rural and urban population—the size of the rural male population is first estimated. It is assumed that the trend of the rural sex-ratio would be similar to that of total population for which projections by sex are already available. The formulae used are

$$[R_m/R]_{1991+5r} = [R_m/R]_{1991} * [T_m/T]_{1991+5r}[T_m/T]_{1991}$$

where r = 1.23 and so on

R = Rural population

T = Total population of all areas

R_m≂Rural male population

Tm= Total male occulation of all areas

Once the rural male population are obtained by applying the above ratios to the corresponding projected rural populations the rural female population are worked out by subtraction

The age distribution of rural and urban population, sex-wise, for the 5 broad age-group viz., 0-14, 15-29, 30-44, 45-59 and 60+, as reported by the 1991 census (in the absence of the 1991 census results) are put in a 5x2 matrix form. The marginal totals were adjusted to correspond to 1981 smoothed age-data by repeated iterations (by method of difference elimination). Projections by age and sex for nural and urban areas for future years are obtained by the method of difference elimination on the 1991, 1996, 2001, 2006, 2011, urban-rural sex wise break-ups of the total population.

Labour Force Projection

Based on the recommendations of the Committee of Experts on Unemployment Estimates set up by the Planning Commission in 1969 (Dantawala Committee), the National Sample Survey Organisation (NSSO) has standardised the concepts and definitions of Labour force, employment and unemployment and the same has been adopted in quinquennial surveys on employment and unemployment since 1972-73 (27th Round). The various estimates are based on 3 concepts viz., Usual Status. Weekly Status and Daliy Status.

These are explained below:

(i) Usual Status Concept

This concept refers to the usual activity status-employed or unemployed or outside labour force of those covered by the survey. Thus, the activity status is determined with reference to a period of 365 days. A person is said to be employed if he is working for a relatively longer time duning the reference period and unemployed if he was available or seeking work.

(ii) Weekly Status Concept

According to this concept the activity status is determined with reference to a period of the preceding 7 days. A person who reports as having worked at least for one hour on any. day during the reference period of the week while pursuing a gainful occupation was deemed to be employed. A person who did not work even for one hour during the reference period but was seeking work or was available for work was deemed to be unemployed.

(iii) Daily Status Concept

Here activity status of a person for each day of the preceeding 7 days is recorded. A person who worked at least for one hour but less than four hours was considered having worked for half a day. If he worked for 4 hours or more during a day, he was considered as employed for the whole day.

Labour force is estimated on the basis of usual status participation rate. Estimates of rates of labour force participation for broad age-groups for males and females, for rural and urban areas separately have been provided by the latest NSSO round on employment-unemployment during 1987-86 (43rd round). Though the earlier rounds of NSSO on employment-unemployment have shown that the labour force participation rates (LFPRs) have been decreasing, especially for males, for the projection it has been assumed that with concerned efforts during the Eighth Plan and later, the LFPRs both for males and females in rural and urban areas will increase. Further, it is expected that the LFPRs according to the three concepts described earlier, will follow an increasing irend as given in Table-2.4.

Applying these labour force participation rates to the projected population figures for the different periods, the total labour force for the periods, have been obtained for each concept separately. This also gives the number of people in the tabour force aged 5 and above it is assumed that there are no workers below the age of 5 years.

The estimates of labour force for rural and urban areas sex-wise is done using projected labour force participation rates according to the 3 concepts. These participation rates have, however, been adjusted so that the totals of these categories match the total labour force figures mentioned in the previous paragraphs.

For the purpose of estimating labour force for the ages 15-59 child labour rates for age-group 0-14 years and aged labour force participation rates for 60+ are obtained by repeating the calculations same as those for the specific group of population. The labour force in 0-14 and 60+ is obtained from the projected age-group oppulations. The labour force in age 15-59 group is finally obtained by subtraction. The results are presented in Table-25.

Employment Projections

The Eighth Plan aims to reduce unemployment to negligible level by the turn of the century. Treating employment generation and economic growth as mutually complementary the Eighth Plan aims to generate gainful and sustainable employment through economic growth and restructuring of output composition of growth

The growth and structural change in employment during the penod 1977-78 to 1987-88 assessed from the quinquennial survey of employment and unemployment by NSSO have been used to estimate the parameters relating to employment estimation in the Eighth Plan. The main feature of employment growth during the penod 1977-78 to 1987-88 as revealed by the NSSO surveys on employment and unemployment and given in Table-2 6 to Table-2 9 are as follows.

- a) Annual growth of employment has been at about 2 per cent
- b) Growth rates of employment have been relatively more in urban areas as compared to rural
- c) Employment of males and females has grown more or less at the same rate
- d) All major sectors except agriculture experienced employment growth of more than 3 per cent per annum
- e) The employment growth in 1983-87 has been observed to decelerate in all the sectors except agniculture construction and trade. Employment growth in manufacturing sector has declined from 3.76 per cent per year in 1977-83 to 2.18 per cent per year in 1983.87 and in services from 4.49 per cent per year to 2.06 per cent per year during the same periods.
- f) Employment growth in 1983 87 has decelerated from 2 48% per year in 1977-83 to 1 38% per year in 1983-88 in the organised sector and has declined marginally in organised manufacturing sector in 1983-88
- g) Public sector has been the major source of employment generation in the organised sector
- h) The growth of employment of the educated particularly among the women has been relatively high and has accelerated in 1953-87 as compared to 1977-85.

The sectoral distribution of workers given in Table- 2 10 shows that in 1977-78 71 per cent of the workers were engaged in agriculture and allied occupations The proportion had declined to 64 per cent by 1987-88. The corresponding figure revealed by the 1991 census though not strictly comparable with NSS estimates.

because of conceptual differences, indicate a marginal decline from 68.5 per cent in 1981 to 64.9 in 1991. Then, a change in the structure of work force by employment status is also witnessed (Table-2.11). The proportion of casual labour increased while that of the self-employment declined from 1977-78 to 1987-88. It is largely a reflection of the occupational shifts from agriculture to non-agriculture and change in pattern of hiring even in agriculture. The share of unorganised sector in non-agricultural employment has increased from 72 per cent in 1977-78 to 77 per cent in 1987-88, at the background of near stagnancy of the share of unorganised sector in overall employment at 190 per cent.

The employment projections in the Eighth Plan have been made using sectoral employment elasticities with respect to output or value added

The non-agricultural sectors registered a rate of growth of employment of more than 3% per annum during 1977-78 to 1987-88. The agnoulture sector which engages two third of total work force, registered an average rate of growth of employment of 0.92 per cent per annum. Construction, mining and electricity which together account for about 5 per cent of total employment registered a rate of growth of employment of more than 5 per cent per annum during 1977-78 to 1987-88. Transport sector, which is responsible for 2.8 per cent of total employment generation, experienced an average annual rate of growth of employment of 4.7 per cent in 1977-78 to 1987-88. Manufacturing and services sector account for 11% and 17% of total employment generation respectively. Employment in manufacturing and services including trade increased annually by 3.0 per cent and 3.4 per cent respectively during the same period.

A declining trend in elasticity of employment with respect to value added is witnessed in 1983-88. The aggregate employment elasticity with respect to value added estimated as 0.54 during the period 1977-78 to 1983, declined to 0.38 in 1983 to 1987-88. At the disaggregated level, mining and construction are tie two sectors which did not witness decline in elasticity during the above period. In agriculture, the elasticity reduced from 0.49 in 1977-83 to 0.36 in 1983-88, implying a decline of 26 per cent. The decline in the elasticity from 1977-83 to 1983-88 were 62 per cent in manufacturing, 35 per cent in electricity and 57 per cent in transport and other services.

For the purposes of employment projection in the Eighth Plan, the elasticities have been projected to increase mainly through shifts in spatial patterns of growth and labour- intensive composition of output The sectoral employment elasticities are given in Table-2 12. The method of arriving at the sectoral employment elasticities is outlined below

(a) Agriculture

The elasticity in agriculture sector is projected as 0.50 in the Eighth Plan as against 0.36 observed during the penod 1983 to 1987-8B. The low elasticity observed in 1983-8B is primarily due to steep decline in elasticity in agriculturally advanced states such as, Punjab, Haryana and Uttar Pradesh, where the sources of agricultural growth are now turning to be labour substituting. The employment elasticity in agriculture in the remaining regions is observed to be between 0.55 to 10. Eighth Plan strategy emphasises faster rate of growth of agriculture in the Eastern region and in dryland areas of peninsular India. It is estimated that if a regionally diversified agriculture in output experiences an average annual rate of growth of 4 percent and animal husbandry by 5 per cent, the overall growth of employment in agriculture would exceed 2.5 per cent. Besides, emphasis on crop diversification into non-staple variety particularly in the agriculturally developed regions and faster growth of allied activities such as animal husbandry, fishery, horticulture is expected to add significantly to employment potential in agriculture sector.

(b) Manufacturing

In the manufacturing sector the employment elasticity is projected in the Eighth plan is 0.50 as against 0.26 observed in 1983.88 and 0.68 in 1977.83. This projection is primarily based on the premise that the pattern of manufacturing growth envisaged in the Eighth plan will raise the share of manufacturing output originating from small scale and decentralised sectors. The growth in exports has also been from this segment of industry. The assumption of larger share of small scale sector in manufacturing growth is based on the trends observed in the recent past. More recent data reveal reasonably high employment elasticity in a number of industry groups within the organised sector. These include sugar fish canning and preservation tobacco products cotton ginning printing and dyering woollen textiles leather textiles jute and mesta products glass and plassware. The employment elasticity in unorganised and small scale sector is estimated in the range of 0.5 to 0.6 as against 0.15 in the organised sector. The growth in value added in small scale sector by 10 per cent per year and in large scale sector by 5% per year would result in overall employment growth in the manufacturing sector by nearly 4 per cent per name.

(c) Construction

Construction as a group and its major sub sectors such as road construction and housing have high employment elasticity. An elasticity of 10 in construction sector based on the past trend is projected in the Eighth Plan Linking of 31% of the villages with population ranging between 1000 1500 and 10% of those with larger size with motorable roads will alone require construction of 8 lakh km of road length thereby generating greater employment opportunities.

(d) Transport

The employment elasticity in transport sector reduced from 0.92 in 1977 83 to 0.35 in 1983 87. The winds of economic liberalisation leading to the relaxation in regulatory measures in transport sector is likely to result in higher growth of small scale transport services whose employment elasticity is higher. Keeping these in view the elasticity in transport sector is projected as 0.60 in the Eighth Plan.

(e) Other Services

The services sector witnessed a sharp decline in the employment elasticity from 0 98 in 1977 83 to 0.42 in 1938 87. The measures relating to economic reform and the associated deregulation and removal of bureaucratic hurdles are expected to result in a significant growth of the services sector as a whole and its small scale segment in particular. The objectives in the area of education and health envisaged in the Eighth Plan demanded creation of additional employment potential as a part of infrastructure building activity. In tandem a general expansion of economic activities is associated with creation of infrastructure vervices particularly in the form of employment generation in the tertiary sector whose growth in recent past has been much above the rest of the economy. The Services Sector as a major segment of the tertiary sector has witnessed value added growth of about 6% during 1980-81 to 1986 87 as against 4% during the 1970s.

The employment intensity of tourism rural transport and repair services is high and these sectors are expected to grow faster with the expansion of agn business in the Eighth Plan. Keeping this in view the employment elasticity in the services sector is projected as 0.70 in the Eighth Plan.

Estimate of Employment

The required employment generation in order to reduce unemployment to negligible level by the turn of the century has been estimated on the basis of the

backlog of unemployment in the base year and the likely additions to the labour force during the reference period. The backlog of unemployment has been assessed in terms of open unemployment with appropriate adjustments for the severely underemployed who are likely to look for alternative new full time employment opportunities. This is close to the estimate of unemployment measured in terms of "sual" or "weekly" status. The unemployed, according to "weekly status" concept, are without work for the entire period under reference, i.e., they did not have work even for one hour during the week. The extent of unemployment measured in terms of "weekly status" concept enables an assessment of the magnitude of severely underemployed as this method excludes work for half or less than half the time during the reference week.

The latest estimates of employment and unemployment which relates to the year 1987-8B have been adopted to estimate unemployment. The estimate of the magnitude of unemployment at the beginning of the Eighth Plan is obtained as the difference between the estimates of labour force and employment. Total employment at the beginning of the Eighth Plan i, e., 1992-93 is estimated as 30.17 million on "weekly status" basis The labour force in the age group five - plus is estimated to be 319 million. Thus backlog of open unemployment according to "weekly status" is estimated at 17 million at the beginning of the Eighth Plan. The estimates of employment show that about 2 per cent of those recorded as employed on the basis of "weekly status" had work for half or less than half of the period. These 2 per cent of the employed constituting 6 million in number are treated as "severely underemployed", and are included in the estimates of backlog of unemployment for purpose of manpower planning. Thus the number of persons in the labour force who are likely to search for full time employment opportunities at the beginning of the Eighth Plan is estimated to be around 23 million.

The labour force in five plus age group is projected to increase by about 35 million during the Eighth Plan (1992-97) and by another 36 million during the next five years. Thus, considering the backlog of unemployment of 23 million, the total number of persons requiring employment in the Eighth Plan is estimated as 58 million and 94 million over the ten year period 1992-2002. An aggregate employment growth of about 4 per cent per annum is necessary to achieve the goal of employment for all by the terminal year of the Eighth Plan. Since the feasibility of attaining an employment growth of 4 per cent per year in the Eighth Plan is somewhat remote, an alternative exercise was made whereby the employment objectives in the plan could be realised by lengthening the time horizon. The calculations show that, at the background of the output structure envisaged in the Eighth Plan and the subsequent period, aggregate employment growth of around 3 per cent per annum was sufficient to wipe out the backlog of unemployment by the year 2000 AD.

The performance of employment generation in the recent past coupled with the anticipated change in the structure of output in favour of employment intensive investments indicate that an average employment growth of around 2.6 to 2.8 per cent per annum is more likely to be within the realm of feasibility. This growth in employment, if achieved over the next ten years, will be able to create a situation where the economy may attain a near full employment by the end of the Ninth Plan, i e, by 2002 A.D. Last but not the least, this calculation and the associated employment scenario will be contingent upon the attainment of a higher average rate of growth of GDP in the Ninth Plan (1997–2002 A.D.) by 6.28% per year as compared to 5.6% per year adopted in the Eighth Plan (1992-97) and also on the premise that a structural shift in output takes place in favour of the sectors which are relatively more employment-intensive.

The measures outlined in the Eighth Plan are expected to contribute to a faster growth of the economy in the post-plan period and, at the same time will increase the overall employment content of growth. The associated structure of growth of the economy underlined above is able to raise employment elasticity to around 0; in the Eighth Plan accompanied by perceptible improvement in labour productivity. As a result, the value added growth rate of 5.6 per cent per year envisaged in the Eighth Plan is likely to result in an employment growth of nearly 2.8 per cent per annum. This

growth in employment is able to generate an average of about 8 to 9 million additional employment opportunities per year. The trend in employment growth in the Eighth Plan is likely to accelerate somewhat in the Ninth Plan due to higher growth of gross domestic product by 6 28% per year with an output structure conducive to employment generation. These are likely to result in the creation of an average of 9.5 million employment opportunities per year in the Ninth Plan. This by and large would be sufficient to reduce unemployment to a negligible level by the end of the Ninth Plan, i.e. by the year 2002 A D.

Table 2 1 Married Females in Age Group 15-44

Year	Proportion of marned females in age group 15 44	
1992	76 7	
1997	75 9	
2002	74 7	
2007	73 7	

Table 2 2
Estimated Value of CPR in Plan Exercises

Year	Seventh Plan	Eighth Plan	
1990	37 6	37 9	
1995	44 6	44 6	
2000	516	49 8	
2005		53 5	
2007		54 6	

Table-2.3

Anticipated Annual Increase in e§ for Males for Various Base Levels of e§

Expectation of life at birth	Annual increase in ed (Years)
30-34.9	0.2
35-39.9	0.3
40-44.9	0.4
45-49.9	0.5
50-59.9	0.6
60-64.9	0.4
65-69.9	0.2

Table-2 4 Labour Force Participation Rates

Years	Usual	Weekly	Daily	
	Status	Status	Status	
	(US)	(WS)	(DS)	
1987-88				
(NSS, 43rd				
Round)	0 382	0 371	0.368	
1992	0.382	0.371	0.368	
1997	0.387	0 375	0.370	
2002	0.392	0.380	0.375	
2007	0.400	0.385	0.380	

Table-2.5 **Labour Force Projections**

(Million)

Age Group	1992	1997	2002	2007
	Usual	Status		
5+	328.94	364.31	400.75	440.74
15+	316.65	351.61	387.∋2	427.87
15-59	294.60	325.87	357.82	393.02
	Weekl	y Status		
5+	319.46	353.01	388.49	424.21
15+	306.70	339.83	375.16	410.85
15-59	285.63	315.22	346.37	371.50
	Daily	Status		
5+	316.05	348.31	383.37	418.70
15+	303.32	335.15	370.08	405.37
15~59	282.42	310.75	341 54	372.32

Table-2.6 Growth of Employment 1977-78 to 1987-88

	Rural		U	rban			otal	
		Total				Male	Female	Total
1	2	3	4	5	6	7	8	9
Employ	ment (mi)							
1977-1	18							
136.2	59.8	196 0	36 1	7.7	43.8	172.3	67.5	239.
1983								
		213 9	45.4	96	55.0	193.3	75.5	268.
1987-6		210.2			62.7	209.4	81.5	200
15/./	70 5	228 2	21 /	11 0	02.1	209.4	81.5	290.
Annual	Rates of	E Growth (E	ercent)					
	8 to 1983							
1.51	1.77	1.59	4 23	4.18	4.22	2 11	2.06	2.1
1983 1	to 1987-88	В						
1.43	1.52	1.46	2.97	2.95	2 96	1.80	1.71	1.7
1977-1	8 to 1987	7-88						
		1.53	3.66	3.62	2 66	1.97	1.90	1.9

N.B.: 1. The employment estimates are based on Usual Principal Status (UPS). Source:1. NSS survey on employment and unemployment, 32nd, 38th and 43rd Round.
2. Estimates of population based on 1971 & 1981 Census and provisional totals of 1991 Census.

Table 2.7 Sectoral Growth in Employment

						ent per annum)		
S No	Sector	1977 to 198:	-78 3	1983 to 1987	3 7~88	19 ¹	77-78 to 37-88	
0	1		2		3		4	
 1	Agriculture		91		94		92	
2	Mining		32	-	68	-	03	
3	Manufacturing		76		18	-	05	
4	Construction	7	93	13	03	10	19	
5	Electricitry Gas & Water Supply	6	01	3	15	4	71	
6	Trade	3	52	3	83	3	66	
7	Transport, Storage and Communication	6	66	2	35	4	70	
8	Services		49	_		3	39	
	Total		10			1	95	

N B The imployment estimates are based on Usual Principal Status (UPc)

Source Same of Table-2 6

Table 2 8
Growth in Organised Sector Employment

(per cent per annum)

Sl. No.	Sector	1978	8-83	198	3-88	19	78-8	36
0	1	2			3		4	
1.	Ag 1culture	1	30	1	11	1	21	
2.	Mining & Quarrying	2	56	0	88	1.	.71	
З.	Manufacturing	2	07	-0	09	0	99	
4.	Electricity Gas & Water Supply	3	67	3	26	3	4/	
5.	Construction	1	92	1	۲,	1	59	
6.	Trade	1	94	1	15	1	e_{i}	
7	Transport, Storage and Communication	2	25	1	20	1	7	
8.	Services	٦	96	-			(-)	
	Tetal		18	1	34	1	43	-
	Public Sector		49		17		58	
	Private Sector	1	41	-0	43	,		

Source Estimated from Employment Market Informa ion Frogramme of the Ministry of Tabour

Table-2 9
Growth in Employment of the Educated

		(per cent p	er year)
	1977-78	1983 to	1977-78
Sex/Residence	to	1987-88	to
	1983		1987-88
1	2	3	4
Rural	6 61	8 35	7 39
Urban	4 88	6 21	5 48
Male	5 51	6 76	6 07
Female	6 58	11 08	8 59
Total	5 59	7 14	6 29

N B Based on Usual Principal Status (age group 15 +) Source Same as Table 2 6

Table-2 10 Sectoral Distribution of Workers

				(percent)
s.No.	Sector	1977-78	1983	1987-68
0	1	2	3	4
1.				63.90
2.	Mining & Quarrying	0.52	0.65	0.77
3.	Manufacturing	10.00	10.93	11.13
4.	Electricity, Gas and	0,26	0.32	0.34
	Water Supply			
5.	Construction	1.82	2.47	3.96
6.	Trade	6.18	6.67	7.30
7.	Transport	2.13	2.71	2.78
8.	Financing, Real Estate,	0.55	0.73	0.83
	Insurance and Business			
	Services			
9.	Community, Social &	7 82	8.78	8.80
	Personal Services			
	Total			100.00

N B 1 Based on Usual Principal Status 2 Total includes a negligible group of industry not recorded Source Same as Table-2 6

Table 2 11
Distribution of Workers by Employment Status

(percent)

	Rural			Urban			ſotal	
Male	Femalc	Total	Male	Гетаlе	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9
Self E	mploy" rt				-			
1977 7		co. 4	20.0	40.0	40.5		54 8	
62 2	36 3	60 4	39 9	42 2	40 3	5/9	54 8	5/ 0
1.983								
59 5	ا 4د	57 8	40 2	37 3	39 7	55 0	52 0	54 1
1987 8	6							
57 5	55 1	υ 7	41 0	38 €	43.5	53 8	r 1	53 6
Regula	r Silame	d Employme	nt					
1977 7	8							
10 9	ذ	8 6	47 2	3 0	41	17 9	€ 6	14 6
1983								
10 в			44 5	31 8	4	18 5		15 3
1387 3	0							
		8 b	44 4	34 7	1 7	18 0		1
_377 7	ig j	loym nt						
6 9	40	1 0	1 9	7 0	15 5	24	£	28 4
1983								
	5 4	3.7	5 3	9	1 d	2t J	1 7	3L 6
								0
1987 9		2 1	14 6	c 1	16.9	20.2	3 6	
					10 3	20 2	3 0	31 2
ΝЗ	La 1	1 11		teta				
~ ur e		t						

44

Table-2.12
Sectoral Value Added and Employment Growth in Eighth Plan :1992-97

	Growth of Value	Employment Elasticity			Employment Growth
S.No. Sector	Added (% p.a.)	1977-78 to 1983	1983 to 1987-88	Eighth Plan	Using Elasticity as in (5)
) 1	2	3	4	5	6
. Agriculture	3.1	0.49	0.36	0.50	1.6
2. Mining and Quarrying	8 0	0.67	0.85	0.85	6.8
3. Manufacturing	7.3	0.68	0 26	0.50	3.7
4. Construction	4.7	1 00	1.00	1.00	4.7
5. Electricity, Gas and Water Supply	7 9	0 74	0 48	0 50	3.9
5. Transport & Communication	1 6.6	0 92	0.35	0.60	3.9
7. Other Services	ь.0	0 65	0.42	0.70	4.2
Total	5 6	0 14	0 39	0.47	2 6

45

CHAPTER-3 FINANCIAL RESOURCES SUB-MODEL

The Financial Resources Sub-model estimates the availability of domestic resources consistent with the investment requirement to attain the level of output determined by the input output and investment models. The sub-model assesses the level of domestic savings sectorally as well as in terms of its composition using econometric estimation procedure These estimates are consistent with the macro aggregates of the plan. The Eighth Five Year Plan envisages total gross investment of the order of Rs. 787988 crores over the five year period (1992.97) of the Plan Domestic savings have been estimated at Rs. 742835 crores accounting for 93.1 per cent of total investment. The remaining Rs. 54863 crores are met through foreign savings. The net inflow of resources from abroad has been estimated taking into consideration vanious factors most important of which is the anticipated level of balance of payments deficit on current account. The Plan envisages an average rate of investment of 23.2 per cent of GDP. The average rate of domestic savings has been estimated at 21.6 per cent of GDP. While the rate of foreign savings is placed at 1.6 per cent of GDP. This chapter describes the methodology adopted for estimating aggregate as well as sectoral savings for the Eighth Plan

Domestic Savings

The annual rate of domestic savings in the Indian economy during the 1980s exhibited fluctuations. There was a perceptible decline in the rate of gross domestic savings during the Sixth Plan period (1980-85) with the saving rate declining from 22 0 per cent in 1980-81 to 18 2 per cent in 1984-85. This trend was however reversed during the Seventh Plan period (1985-90) when the saving rate increased from 19 7 per cent in 1985-86 to 22 3 per cent in 1989-90. The average rate of gross domestic saving rose from 19 6 per cent during the Sixth Plan period to 20 4 per cent during the Seventh Plan period.

The projections of domestic savings during the previous Five Year Plans have generally been based on somewhat optimistic assumptions about the increase in marginal propensity to save to be achieved during the plan periods. The rates of domestic savings actually realised during the plan periods however have been at variance with the ones formulated in the Plans For instance the Sixth Plan assumed that the rate of domestic saving would rise from 21.48 per cent in 1978 80 to 24.88 per cent in 1984 85 whereas the realised savings rate for 1984.85 was 18.2 per cent The Seventh Plan also projected the saving rate to increase from 23.1 per cent in 1984.85 to 24.3 per cent in 1989.90 but the saving rate actually rose from 18.2 per cent in 1984.85 to 22.3 per cent in 1989.90. In the light of this experience the projections of domestic savings for the Eighth Plan have been made rather cautiously. The method ology adopted for projecting aggregate domestic savings is explained below

An aggregate savings function has been estimated by regressing Gross Domestic Savings on Gross Domestic Product both being taken at current market prices using annual time series data for the period 1980 81 to 1989 90. While it is true that domestic savings may be influenced by a host of factors other than the income variable GDP has been chosen as the only explanatory variable under the assumption that it has a predominant influence on domestic savings. The estimated equation is given below.

GDS = 5755 85 + 0 225108 GDPMP (19 978) (1)
$$\overline{R}^2$$
 = 0 98 DW = 1 038

Where GDS is Gross Domestic Savings and GDPMP is Gross Domestic Product at market prices.

The marginal propensity to save during the 1980s estimated in the above equation works out 22.5 per cent with respect to GDP at market prices and the estimated coefficient is found to be statistically significant. However, use of the marginal propensity of savings as 22.5 per cent estimated for the period 1980-81 to 1989-90, for projections may involve some degree of overestimation due to the sharp rise in the domestic savings rate from 21.09 per cent in 1988-89 to 22.3 per cent in 1989-90. One has to exercise caution in using the estimated coefficient for the purposes of projections.

Before deciding the magnitude of marginal propensity to save for the Eighth Plan, the elasticity of domestic savings with respect to GDP at market prices through the specification of the saving function in log-linear form for the period 1980-81 to 1989-90 was estimated. The estimated relation is:

$$\overline{R}^2 = 0.98$$
 DW = 0.964

The estimated elasticity coefficient from the above equation is 1.039 and is statistically significant. This coefficient can be considered to be close to unity. It is also worthwhile to note in this context that changes in income influence savings generally with a lag. The elasticity of domestic savings with respect to GDP at market prices is adopted as unity, on the basis of the above reasoning and assuming that changes in GDP in any year will have an impact on domestic saving in the following year. In other words, it is reasonable to assume that the observed elasticity during the 1980s is not very much different from unity. This is also reflected in the near stagnancy of the saving rate during most of this period. In the light of the above analysis, the Eighth Plan postulates that both the marginal propensity and the average propensity be save during the plan period would be of the same order of 21.6, which is the saving rate adopted for 1991-92, the base year of the Eighth Plan. At the background of the annual average rate of growth in GDP of 5.6 per cent set in the Plan, total gross domestic savings over the period 1992-97 have been estimated at Rs. 742835 crores at 1991-92 prices.

Gross domestic savings in the economy is composed of savings in the public and private sectors. The savings in the private sector include the savings of the household sector and the savings of the private corporate and cooperative sectors. The savings in the public sector comprise of budgetary saving of the government and savings of the public sector enterprises. The savings in the different sectors for the Plan period have been separately estimated. The savings performance of the different sectors and the projections for the Eighth Plan are given in Table-3.1.

Sectoral savings in the Plan period have been projected mainly by relating them to disposable income. The framework of inter-sectoral transfers is presented in Annexure-3.1.

Household Savings

The estimates of disposable income and savings of the household sector during the Sixth and Seventh Plan periods along with the projections for the Eighth Plan are given in Table-3.2. The household sector comprises of individuals, non-government and non-corporate private enterprises engaged in various economic activities as well as non-profit institutions such as charities and trusts. The gross savings of the

household sector are made up of additions to financial assets net of financial liabilities and additions to physical assets including depreciation.

Household savings have been estimated on the basis of their functional relationship with respect to household disposable income. The regression analysis has been carried out using the data for the period 1980-81 to 1989-90 at current prices and in gross terms, i.e., household saving is measured as gross of depreciation provision-while household disposable income, used as the explanatory variable, includes the consumption of fixed capital by households. The regression equations have been estimated in the linear and log-linear forms.

HS = -11177.371 + 0.246435 HDI (17.116)(3)
$$\overrightarrow{R}^2 = 0.97 \qquad \text{DW} = 1.020$$

where, HS is Household Savings and HDI is Household Disposable

Income.

Log HS = -3.9987 + 1.19044 (log HDI)(4) (15.694)
$$\vec{R}^2$$
 = 0.96 DW = 1.025

The marginal rate of household saving with respect to household of possible income is obtained as 0.24 from equation (3). The estimated coefficient is found to be statistically significant. The elasticity of household saving with respect to household disposable income is estimated as 1.19 in equation (4). The coefficient is statistically significant. However, before making use of these estimated coefficients for the purpose of projections for the Eighth Plan, a careful analysis of the household saving behaviour is considerable fluctuations during the 1980s. Considering the plan periods as a whole, the average savings-income ratio of household sector winessed considerable fluctuations during the 1980s. Considering the plan periods as a whole, the average savings-income ratio of households increased from 16.55 per cent during the Sixth Plan (1980-85) to 19.47 per cent in the Seventh Plan period (1985-90). The annual estimates reveal that the savings ratio of households declined from 18.41 per cent in 1980-81 to 15.98 per cent in 1984-95 and the ratio gradually increased or reach the level of 21.81 per cent in 1988-90. In view of this, the use of the estimated marginal coefficient of 0.24 as well as the elasticity coefficient of 1.19, for projections is likely to lead to over estimation of household savings, mainly due to the acceleration into the Eighth Plan period. Moreover, private final consumption expenditure has been postulated to grow at an annual rate of 5.3 per cent during the Eighth Plan as against the average annual increase of 4.3 per cent observed during the period 1980-81 to 1990-91. In view of above, marginal rate of saving in the household sector is projected as 20.3 per cent over the period of the Eighth Plan, while the average rate of saving for the plan period has been placed at 21.0 per cent. On this basis, the total household savings for the Eighth Plan is estimated at Rs. 605170 crores, comprosing of gross physical assets of the order of Rs. 288000 crores and net financial assets to the tune

Savings in Physical Assets

The savings of households in the form of physical assets relate to gross capital formation in terms of productive assets such as machinery and equipment, (both agricultural and non-agricultural), construction of residential and non-residential buildings and structures such as cattle-sheds and worksheds as well as assets created through own account labour in activities such as construction of field bunds, field

channels, dispensing of impation wells and soil conservation works. The trend growth in gross physician assets in the household sector during 1980-bit to \$500-bit has been estimated at pround 10 per cent per annumat current proces and 7.3 per cent at 1980-81 prices. The difference between the two growth rates may be explained by the changes in the index of the zestiment cost.

The share of physical assets in total household savings shows a substantial decline during the 1980s, from 60.6 per cent in 1980-81 to around 50 per cent towards the late 1980s. The decline in the share is accompanied by severe annual further than 1980s.

The relationship between gross physical assets and gloss disposable income of the household sector during the period 1980-81 to 10° 3-90 has been assessed by regressing the former on household disposable income. The relationship estimated for the above is

 $4^2 = 0.89$ DW = 1427

where P4 represents gross physical assets and HDI represents gross household disposable income, both being at current prices.

Although the coefficient of 0.123 estimated from the above equation is found to be statistically significant, it has been considered realistic to assume a marginal coefficient of 0.10 for the purpose of projections of physical assets for the Eighth Plan. There has been a decline in the share of physical assets in total household saving during the 1980s. Total gross savings in the form of physical assets iii. the household sector has thus been estimated at Rs.288000 crores for the Eighth Plan. This accounts for 476 per cent of total household savings of Rs. 605170 crores during the Plan. The savings in financial assets constitute the remaining 52.4 per cent of the total savings, amounting to Rs. 3117170 crores.

Savings in Financial Assets

e fruncial assets of the hous hold motor consist of curringy depositis with commercial banks and cooperative institutions as well as non-banking companies, investment in shares and debentures including units of Unit Trust of India and mutual funds, life insurance funds, contributions to provident funds and pension funds and net claims on oovernment. Savings of the household sector in the above mentioned categories of financial assets represent net addition, i.e., net of financial liabilities of the household sector. Household savings in different types of financial assets, which taken together amount to Rs. 317170 crores for the plan period, have been estimated separately for each category of financial asset, as shown in Tables-3.3. The methodology adopted for estimating saving in financial asset is discussed below.

The outstanding amount of currency with the public, as on the 31st March, increased from Rs. 13426 crores in 1981 to Rs. 53087 crore in 1991 to Registering an annual growth of 14.7 per cent. On the other hand, the frend growth rate of GDP at current market prices for the period 1980-81 to 1990-91 is estimated at 14.10 per cent. The elasticity of currency held by household alone with respect to GDP at market prices works out to 1.04. The elasticity of currency held by household alone with respect to GDP at market prices turns out to be marginally lower at 1.01 as compared to the elasticity of 1.04 estimated for currency held with the public. Considering the recent instruments introduced in the capital market to attract particularly the small investors in the household sector, it may be reasonable to project a marginal decline in the elasticity for currency held with huseholds. On this basis, elasticity for currency held with the household is projected.

as 0.9 during the Eighth Plan. As the basis of the growth of 5.6 per cent per annum in GDP in the plan, the growth in currency is estimated at 5.0 per cent. The savings of Thouseholds in the form of currency are thus estimated at Rs. 41775 crores, which has been worked out as the difference in the currency held by the households between the base and terminal years of the plan.

Aggregate deposits with the scheduled commercial baries increased from Rs. 38348 crores in 1981 to Rs. 204774 corors in 1981, registering an annual growth of 18.2 per cent. The bank deposits held by households, however, increased at a marginally higher rate of 18.6 per cent during the same period. The elasticity of demant for aggregate bank deposits with respect to GDP at market processor the period 1881-88 is estimated at 1.20, while the same for bank deposits held by households is estimated at 1.32. The structural changes initiated to reform the financial sector is witnessing a preference pattern which is different from the past. This is likely to change the structure of savings, ultimately leading to competition between various financial instruments. For example, there is a competition between mutual funds and bank deposits. In view of this, the elasticity of household demand for bank deposits has been reduced marginally to 1.3 in the plan period. The demand for bank deposits in the household sector is postulated to grow at 7.3 per cent during the plan period. Savings in the form of net addition to bank deposits have been calculated as the difference in the bank deposits held by households between the base and terminal years. Total household saving in the form of commercial bank deposits is thus estimated at Rs. 50900 crores for the Eighth Plan.

Household savings in the form of deposits with cooperative banks and societies have been around 10 per cent of household deposits with commercial banks. Using this ratio, the household savings by way of deposits with cooperatives during the Eighth Plan have been estimated at Rs. 5090 crores.

The deposits of the household sector with non-banking companies include deposits with financial as well as nonfinancial companies in both private and public sectors. Such deposits amount to about 15 per cent of household deposits with commercial banks during the Seventh Plan period. This ratio has withessed marginal decline recently. However, the non-banking companies have started attracting household deposits through innovative schemes such as the issue of post-dip demonstration of the providing maximum interest rate admissible for term deposits for even shorter maturity periods. Cumulative interest admissible for term deposits for even shorter maturity periods. Cumulative interest above been assumed at 15 per cent of household deposits with non-banking companies have been assumed at 15 per cent of households with non-banking companies following this have been estimated at 7600 crores.

Household savings in the form of invisitment in shares and debentures include investment in private corporate and coopera. Sectors as well as investment in bonds of public enterprises and in schemes of mutual funds. The household investment in shares and debentures registered a rapid growth of around 27 per cent per annum during the 1990s. This reflected in the bouyancy witnessed in the capital market. The elasticity of such invision event with respect to household disposable income works out to about 1.9 for the 1980s. On this basis, the growth in household sector's investment in shares and debenture as estimated to rise by 10 per cent per annum for the Eighth Plan. The total household in eart in these financial instruments is thus estimated at Rs. 82990 cross.

Household savings in the form of insurance is cover life insurance, postal insurance and Central and State Government employees group insurance funds. The savings of households in all these types insurance funds increased at 19.4 per cent per annum during the 1980s. The etastury of insurance funds with respect to household disposable income works out to about 1.4. Using this etasticity, household savings in insurance funds are estimated to grow at annual rate of 7.4 per cent during

the Eighth Plan. Total household savings in insurance funds are placed at Rs. 32865 crores for the Plan period

Household savings in the provident funds cover Central and State Government provident funds, non-government provident funds, public provident funds and pension funds. Household savings in provident funds registered an annual growth of 18.1 per cent during the 1980s. The elasticity of savings in provident funds with respect to household disposable income is estimated at 1.3 for the 1980s. On the basis of this elasticity, the provident funds can increase at an annual rate of around 7 per cent during the Eighth Plan. However, in view of the tax incentives and the fairfy high rates of interest given for such funds, a higher growth of 8 per cent per annum has been assumed for such savings during the Eighth Plan. Household savings in provident funds are thus estimated at Rs. 70580 crores for the Eighth Plan.

Household claims on government include small savings, government securities and various types of bonds floated by the government from time to time. Such claims registered an annual growth of nearly 27.5 per cent during the 1980s. The high growth rate could be attributed mainly to special tax incentives given under various small savings schemes. The elasticity of savings in these instruments with respect to household disposable income is high at around 1.86 for the 1980s. Towards the end of the decade this elasticity increases to 2.0. Using this elasticity, net claims of household on government are expected to increase at around 11 per cent per annum during the Eighth Plan. Such claims have been estimated at Rs. 25370 crores for the Eighth Plan.

The total financial savings of households covering all kinds of financial instruments are thus estimated at Rs. 317170 crores for the Eighth Plan, as shown in Table-3.3. There would be substantial changes in the structure of financial assets held by the household during the plan resulting from changes in household preferences for different types of financial instruments. The share of deposits held by households with commercial banks and non-banking companies in their total financial saving is expected to decline from 26.6 per cent in the penod 1985-90 to 20 per cent during the Eighth Plan period. On the other hand, the share of household savings in the form of shares, debentures and units of Unit Trust of India and other mutual funds is expected to increase from 9.4 per cent in 1985-90 to 22.2 per cent during 1992-97. However, household savings in the form of insurance funds and provident funds would follow the trend growth rates observed in the past, partly due to the compulsory nature of these savings instruments and partly due to the tax benefits provided for their forms of savings.

Savings in the public sector

The decade of the 1980s witnessed a sharp decline in the share of public sector savings in aggregate domestic savings. Gross savings of the public sector as a proportion of GDP at market prices declined from an average of 3.64 per cent during 1980-85 to 2.22 per cent in 1985-90. This decline in the ratio of public sector savings has been caused mairly by the poor savings performance of the government sector. The savings of government as a proportion of GDP at market prices deteriorated sharply during the 1980s, from an average of 0.94 per cent in 1980-85 to () 1.54 per cent in 1986-90. However, the extent of erosion in public sector savings caused by the poor savings performance of the government was minimised to a certain extent by the better savings performance of public enterprises. The average ratio of gross savings of public enterprises to GDP at market prices increased from 2.70 per cent in 1980-85 to 3.76 per cent in 1980-85 to 3.76

Government Savings

The savings of the Government for the Eighth Plan have been projected on the basis of estimates of government disposable income. Table-3.4 shows that total receipts of Government as a ratio of GDP at market prices increased from an average of 46.61 per cent during 1932-95. Tax recepts ratio which increased by 1.64 per centage points between 1930-95 and 1985-90 is expected in rise by 1.69 percentage points in 1992-97. The collection of direct taxes which declined from an average of 2.65 per cent of GDP to 2.52 per cent between 1930-95 and 1985-90, is projected to increase to 3.00 per cent of GDP in 1992-97. The rise in the direct tax ratio is envisaged mainly through broadening of the tax base and thereby widening the tax net. On the other hand, the ratio of indirect taxes to GDP which increased by 1.76 percentage points from 12.89 in 1930-95 to 14.65 in 1985-90 is postulated to rise by 1.21 percentage points from 12.89 in 1930-95 to 14.65 in 1985-90 is postulated to rise by 1.21 percentage points from 12.89 in 1930-95 to 14.05 in 1935-90 is postulated to rise by 1.21 percentage points from 12.89 in 1930-95 to 14.05 in 1935-90 is postulated to the reforms in the structure of excise and customs dubes. The ratio of receipts from entreprenurship and property taxes to GDP rose by 0.40 percentage point, from 0.79 per cent in 1930-95 to 1.19 per cent in 1935-90. This ratio is projected to increase only by 0.32 percentage points to reach 1.51 per cent in 1932-97. The relatively smaller increase in this ratio during the Eighth Plan may be attributed to two factors. One is that the public enterprises would of accorded greater autonomy to retain their profits in order to meet their own investment needs. **Condly, the public enterprises would be held by the government.

The total transfers from the government to the rest of the economy as a 9.57 per cent in 1985-90. This ratio is, however, expected to increase by only 1.61 percentage points from 6.61 per cent in 1985-90. This ratio is, however, expected to increase by only 1.61 percentage points during the Eighth Plan to reach an average of 11.18 per cent during 1992-97. This is sought to be achieved through a reduction in the ratio of subsidies to GDP from, 3.57 per cent in 1985-90 to 3.12 during 1992-97. Furthermore, the growth in current transfers is also to be contained to modest levels. However, the ratio of interest on public debt to GDP is expected to increase sharply from 2.98 per cent in 1985-90 to 4.79 per cent in 1992-97. This is on account of the past commitments on debt accumulated during the 1980s and hence not amenable to control within a short period. Due to the changes in the ratios of receipts and transfers of the government, the ratio of gov...nment disposable income to GDP which showed a consequent decline from 10.0 per cent un 1980-85 to 9.2 per cent in 1965-90. This is projected to have marginally.

In order to improve the savings performance of the Government, the Eighth Plan envisages substantial containment in the growth of government final consumption expenditure. The ratio of consumption expenditure to SDP which increased by 1.74 percentage points between 1980-85 and 1985-90 is low postulated to rise by only 0.22 percentage points between 1990-90 and 1992-97. The deterioration in government savings performance witnessed during the 1980s is the sought to be reversed during the Eighth Plan by hinging flown the negative savings also from 1.54 in 1985-93.

Savings of Public Enterprises

Gross savings of public enterprises, including railways tons, as a proper of unit of GDP increased from an average of 2.7 per certor 3.75 per or of in 1 and 1.15 and

during the initial phase of Pestructuring as the costs of such restructioning have to be met mostly out of their own resources. However, profits of public enterprises are likely to rise once the process of restructuring is complete.

Savings of Private Corporate Sector

Gross profits of the private corporate sector as a proportion of GDP increased from 1.64 per cent duning 1980-85 to 2.08 per cent in 1985-90. This ratio is, however, postulated to decline to an average of 2.00 per cent during the Eighth Plan, 192-97. The decline in this ratio is prompted by economic reforms. The private corporate sector has, hitherto, been making large profits in an environment of sheltered domestic market. With the lowering of tariffs and large scale removal of quantitative restriction, the private corporate sector has to compete with imports in terms of both price and quality. This challenge is certain to imitiate a process of restructuring of the private corporate sector. This include mergers, foreign collaborations with companies, technological upgradations, modernisation diversification, etc. During this phase, the expansion of private corporate sector would rest on investments through domestic and foreign borrowings or through direct foreign investment. The impact of the investments on production and profits will be reflected with a time lag. Due to these considerations, the contribution of profits of the private corporate sector has been assumed at 2 per cent of GDP during the Eighth Plan.

Table 3.1 Sectoral Savings in the Eighth Plan

Seventh Eighth Plan (1992-97) S.No. Sector Plan Plan 1980-85 1985-90 1991-92 1996-97 1992-97 2 6 38505 8386 15864 6B900 Public Sector (3.64) (1.44) i) Government Sector -13807 -8241 -38100 (-1.08 (-1.11) ii) Public Enterprises 24483 65156 (3.76) 36056 2. 13940 16580 68930 (2.08)3. Household Sector 132738 605170

Savings of Government Sector includes notional depreciation of Government Sector.

4 Gross Domestic Savings

(16.29) 356732

(17.77) (17.36) 125789 165182

(17.60) 743000

(21.60)

The estimates for Sixth and Seventh Plan are at current prices while those for Eighth Plan are at 1991-92 prices. Figures in parenthesis indicate percentage to GDF at market prices.

Table-3.2 Household Disposable Income and Savings in Eighth Plan

				This	(merica)
S.No. Sector	Sixth Plan	Plan		. 0 :-99	
	1980-85	1985-90	No c	1996-97	Total.
1					
1. Gross National Disposable Income 2. Income accruing to Government from entrepreneurship &	923144	1732623	584883	110	3426258
property Operating surplus of railways communications and retained profit communications and retained profit of non-	7203	20525	8400		51959
departmental enterprises 4. Depreciation of Government	24483	65156	22193	24105	107300
Sector 5. Taxes and receipts of	10320	23175	7376	10310	45544
Government	143540	304581	102288	155538	665503
6. Transfers from Government	59990	165762	61988	93911	384378
7. Private Disposable Income (1-2-3-4-5+6)	797588	1484948	506614	653318	2940630
8. Private Corporate Savings	14851	36056	13940	16580	68930
9. Personal Disposable Income (7-8)	782737	1448892	492674	636738	2871700
10.Private consumption					
expenditure	653164	1166721	389211	504000	2266530
11. Household Savings (9-10) 12. Ratio of Household Savings to	129573	282171	103463	132738	605170
Disposable Income (percent)	16.55	19.47	21.00	20.85	21.07

- N.B.:1: Gross National Disposable Income is derived from the estimates of GDP at market prices after accounting for net factor income from abroad and other current transfers.
 - Transfers from Government include subsidies, interest on public debt, current transfers to the rest of the economy and rest of the world.
 - the world.
 The estimates relating to sixth and seventh plan are at current prices while those for the Eighth Plan are at 1991-92 prices.

Table-3.3 Net Financial Saving of the Household Sector

| Sixth | Seventh | Eighth | Flan | 1980-85 | 1792-97 | 1792-97 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |

N.B.:1.The data for the Sixth and Seventh Plan periods are at current prices as available in National Accounts Statistics. The Projections for the Eighth Plan are at 1991-92 price .

Figures within brackets represent the shares of various instrument in total inancial saving.

Table-3.4
Government Disposable Income and Savings

(Percent of GDP at market prices)

S.No		Sixth	Seventh	E	ighth Plan	1
5.500			1985-90	1991-92	1996-97	1992-97
0	1	2	3	4	5	6
I. B	teceipts					

	deceipts from entrepreneurship and property	0.79	1.19	1.44	1.70	1.51
2. 1	ax receipts	15.54	17.17	17.13	19.83	18.86
i.	Direct Taxes	2.65	2.52	2.67	3,25	3.00
ii.	Indirect Taxes	12.89	14.65	14.46	16.58	15.86
3. M	discellaneous Receipts	0.28	0.41	0.44	0.51	0.49
4. 1	otal receipts (1 to 3)	16.61	18.77	19.01	22.04	20.86
II.	Transfers to Rest of the Econ	ony				
5. 9	Subsidies	2.69	3.57	3.53	2.96	3.12
	interest on public debt	1.64	2.96	4.13	5.59	4,79
	urrent transfers	2.28	3.04	2.98	3,72	3,27
	otal Transfers (5 to 7)	6.61	9.57	10.64	12.27	11.18
9. D	Disposable Income of Govt.	10.00	9.20	8.36	9.76	9.69
	inal Consumption Expenditure	10.16	11.90	12.00	12.18	12.12
	et Savings of Govt, (9-10)	-0.16	-2.70	-3.64	-2.42	-2.43
12.N	otional depreciation of Govt.	1.10	1.16	1.27	1.34	1.32
	ross Savings of Govt. (11+12)		-1.54	-2.37	-1.08	-1.11

N.B.: The estimated ratios for the Sixth and Seventh Plans are based on current prices while those for the Eighth Plan are at 1991-92 prices.

CHAPTER-4 AGRICULTURAL SUB-MODEL

Agricultural sub-model has a two way use in the determination of agricultural output target in the Plan. First, the impact of application of certain critical inputs such as land and other infrastructure both in terms of quality and quantity on agricultural production and productivity in the long and medium term cannot be appropriately captured in the input- output model. Then, in the context of regional development, locational aspects of agricultural growth in terms of crops and inputintensity are also not possible to be quantified under the input-output frame. Besides several features of the agricultural plan such as development of rainfed areas and agricultural planning in terms of homogenous agro-climatic regions are also captured in the agricultural sub-model. The agricultural sub-model assesses the feasibility of output targets on the basis of detailed requirements and use of inputs at the background of above factors.

The sub-model determines crop output at datailed regional level treating area allocation under different crops and between different seed varieties as exogenous. The supply is determined at regional level using land, water, seed, fertiliser as explanatory variables. The model specification is not uniform for all the regions. The supply of foodgrains is estimated from consumption sub-model as well as input-output model. The feasibility of demand for foodgrains is tested with its supply estimated from the regional models. The determinants of supply and parameters affecting supply have been estimated separately for each major states.

The agricultural sub-model assesses the production possibilities of agricultural crops for the Eighth Plan (1992-97) and also for the perspective period (1997-2007). The framework of the model consists of a set of econometric relationships among critical variables in the agricultural sector such as net sown area, gross cropped area, expansion in irrigation facilities, irrigated area under foodgrains, fertilister consumption, rainfall index and yield levels, using time-series data. The production levels of foodgrain crops for the terminal (1998-97) and post-terminal (2006-07) years of the plan have been worked out from econometric modelling and also taking into account other relevant factors such as production performance in the recent past and the gaps between supply and demand of major crops. The estimated parameters are chosen after considering alternative specifications in terms of explanatory variables and functional forms based on single equation least square method.

The agricultural sub-model takes care of the supply side of the problem. The demand side is taken care of partly in the input-output model and partly in the consumption sub-model. The private consumption demand is obtained from a two stage nested behaviouristic consumption model where demand for foodgrains are estimated separately for rural and urban areas and within each area for people living below and above the poverty line using respective expenditure-elasticities. The interindustry demand for agricultural commodities and the quantum of foodgrain stocks are estimated in the input-output model. The supply of foodgrains is estimated at regional level by relating production with land and other inputs using econometric estimation procedure. The demand for agricultural commodities arising from private consumption, interindustry use and stocks are matched with the supply which is worked out in the agricultural sub-model.

Net Sown Area, Gross Irrigated Area and Fertiliser Consumption

There is a severe land resource constraint in the economy, which is evident from the fact that net sown area has been hovering around 140 million hectares during the past two decades. There is also an increasing demand for land for non-agricultural usage such as industrial and commercial activities and housing in the

countryside. Keeping these in view, it has been assumed that Net Sown Area (NSA) would remain constant at 141 million hectares from the terminal year of the plan (1996-97) through the perspective period. At the background of land constraint acceleration in agricultural growth can take place only through a faster growth in cropping intensity. This depends much on the expansion and efficient use of irrigation facilities. The gross irrigated area from all sources (in terms of utilisation) is expected to increase from 75.7 million hectares in 1991-92 to 89.3 million hectares in 1996-97 and to 114 million hectares by 2006-07. The total supply of fertilisers available for use in the agricultural sector in the year 1996-97 has been estimated at 18.3 million tonnes, of which 70 per cent viz., 12.8 million tonnes is expected to be consumed by foodgrain crops.

Gross Cropped Area and Cropping Intensity

In the present framework, gross cropped area under all crops (GCA) has been estimated by relating it to net sown area (NSA) and gross irrigated area (GIA) using econometric model. The details of the model results are given in Annexure-4.1. Based on the assumption of expansion in net sown area and irrigation, GCA is expected to increase to 19.0.6 million hectares in 1996-97 and 20.3.4 million hectares by 2006-07 (Table-4.1). The above implies that the cropping intensity defined as the ratio of GCA to NSA would rise from 1.30 in 1991-92 to 1.35 in 1998-97 and to 1.44 in 2006-07. The ratio of gross irrigated area to gross cropped area would also increase from 41.5 per cent to 46.9 per cent during the Eighth Plan period and further rise to a level of around 56 per cent by 2006-07.

Gross Cropped Area and Irrigated Area under Foodgrains

Gross cropped area under foodgrains (GCA fg) has been estimated by relating it with gross cropped area under all crops. Similarly, gross irrigated area under foodgrains (GIA fg) has been estimated by relating it with the gross irrigated area under all crops. The details of the econometric models used to arrive at the estimates of gross cropped area, gross irrigated area and foodgrains are given in Annexure-4.1

On the basis of the estimated model, gross irrigated area under foodgrains has been projected to increase from 53.8 million hectares in 1996-97 and 77.7 million hectares in 2006-07. Gross cropped area under foodgrains is expected to increase from 127 million hectares in 1991-92 to 130 (Table-4.2). The ratio of irrigated area to cropped area under foodgrains is thus expected to rise from around 42.4 per cent in 1991-92 to 47.9 per cent in 1996-97 and to 57.6 per cent in 2006-07.

Foodgrain Output

There has been a substantial increase in foodgrain production in the country since early 1970s mainly due to growth in productivity. The average yield of foodgrains increased from about 850 kg/ha in the early seventies to about 1350 kg/ha in the late eighties. This increase in productivity has been made possible mainly by three factors, viz., expansion of irrigated area, rise in fertiliser consumption and expansion of area under high-yielding varieties (HYV) of cereal crops. The task of building an econometric model incorporating all these variables has been found to be rather difficult particularly due to the existence of high degree of multicollinearity among these variables. If has also been difficult to evaluate precisely the relative contribution of these factors to overall productivity growth. In the present framework, the foodgrain production at all-India level has been estimated by relating it to increase in area under foodgrains and yield. Simultaneously, production of foodgrains has been estimated separately for 17 major states which account for about 98 per cent of the total foodgrain production in the country on the basis of a regional state specific foodgrain model developed for this purpose.

The yield of foodgrains at all-India level has been related to per hectare fertiliser consumption under foodgrains (FCPUCIg) and the rainfall index (RIND), on the premise that the variable per hectare fertiliser consumption would capture the effect of expansion of both area and fertiliser consumption. The estimate of fertiliser consumption for foodgrain crops is placed at 70 per cent of the fertiliser consumption for all crops. Rainfall index (RIND) has been considered as a separate explanatory variable since more than 50 per cent of the area under foodgrains is still dependent on rainfall. The fluctuations in rainfall is likely to affect the gross cropped area and availability of water for irrigation. Assuming normal weather conditions, foodgrain production has been projected to increase from 172.5 million tonnes in 1991-92 to 210 million tonnes in 1995-97 and 285 million tonnes by 2006-07 (Table-4.2). The results of econometric exercises show that two variables, viz., fertiliser consumption per hectare for foodgrain crops and the rainfall index are able to explain about 95 per cent of the changes in productivity measured in terms of yield.

The statewise foodgrain production for 1996-97 has been projected using estimated parameters of the econometric model and also taking into account the production performance, fertiliser consumption and area under cultivation in the recent past. The total foodgrain production in the terminal year of the plan has been estimated from an assessment of the regional production plans. The regional production plan, in turn, are based on detailed econometric exercises involving major inputs. The model structure for the region has finally been set on the basis of the relative importance of the variables in influencing production and the overall predictive power of the model. The model results are given in Annexure-4.3.

The results show that gross cropped area under foodgrains (GCA fg) and fertiliser consumption are the major variables that influence foodgrain production in the region. The fertilisers consumption and GCA(fg) at regional level for 1996-97 have been projected on the basis of their actual growth performance during 1980's, and the anticipated changes in the Eighth Plan. The foodgrain production for Assam, Himachal Pradesh, Jammu & Kashmir and Kamataka are estimated on the basis of the past performance and recent trend, as the econometric estimation procedure was not able to produce statistically significant results. The projected foodgrain production, fertiliser consumption and area under foodgrains at regional level are given in Table-4. In case of foodgrains, the contribution of area and yield in the total production have also been estimated at regional level (Table-4.5). These statewise foodgrain production estimates adds upto 210 M.T. which is the target set for the Eighth Plan.

Gross Cropped Area, Irrigated Area and Output of Major Food Crops

Gross cropped area under rice and pulses have been estimated as a function of gross cropped area under foodgrains. The gross cropped area under wheat and other cereals have been estimated on the basis of the trend in the recent past. While the output of wheat, pulses and other cereal crops have been estimated by relating them with the gross cropped area and fertiliser consumption under these crops, the output of rice has been estimated by considering rainfall index as an additional explanatory variable along with gross cropped area and fertiliser consumption.

At the all-India level, nearly 80 per cent of the area under wheat is irrigated, while it exceeds 90 per cent in the major wheat growing states such as Haryana, Punjab and Uttar Pradesh. As the irrigation potential in major wheat growing states have already reached an asymptote, it is, therefore, expected that rice would account for the most of the expansion of irrigated area under foodgrains in future. Even then, the percentage of irrigated area under rice might only reach a level of around 60 per cent by 1996-97 and the remaining 40 per cent of the cropped area under rice would continue to be dependent on monsoons. The percentage of irrigated area under coarse cereals and pulses is not expected to undergo perceptible change during the Eighth Plan. The estimated production for the crops are given in Annewure-4.2.

Targets of Principal Crops Rice

The production of rice is postulated to increase at an annual rate of 4 per cent from an estimated level of 72.5 million tonnes in 1991-92 to 88.0 million tonnes in 1998-97, mainly due to growth in productivity (Table-4.3). While the area under rice is likely to increase only by about 0.5 per cent per annum, the average yield of rice is expected to increase from 1706 kg/ha. to 2023 kg/ha. during 1992-97, showing a rate of growth of 3.5 per cent per annum. The growth in the yield of rice is expected to originate primarily from expansion in irrigation and area under HYV, supplemented by growth in fertiliser consumption. These projections are broadly consistent with the trends observed during the 1990s. Between the period 1981-84 and 1999-92, rice production registered a growth of 14.2 per cent per annum of which growth in productivity accounted for 3.5 per cent and growth in area accounted for 0.7 per cent (Annexure-4.4).

Wheat

The area under wheat fluctuated around 23 to 24 million hectares during the Seventh Plan period and is expected to increase marginally to 24.25 million hectares by 1996-97 (Table- 43). The production of wheat is postulated to increase from 56 million tonnes at the beginning of the the Eighth Plan to 66 million tonnes by the end of Eighth Plan showing a growth of 3.3 per cent per annum. A large part of the growth in production would accrue from increase in yield from 2393 to 2722 be per hectare representing an annual rate of growth of 27 per cent. These projections are broadly consistent with the growth performance of wheat observed during the 1980s, as can be seen from Annexure-4.5.

Coarse Cereals :

The production of coarse cereals between 1981-84 and 1989-92 increased at an annual rate of 0.28 per cent (Annexure-4.6). The growth in production was exclusively due to growth in yield by 2.1 per cent per annum, which more than compensated the decline in area by 1.7 per cent per annum during the same period. Furthermore, it is observed that there has been some acceleration in the output growth of coarse cereals dunng the Seventh Plan period when production increased at an annual rate of 2.2 per cent due to faster growth in yields at about 3.1 per cent per annum. However, the low level of yield in 1991-92, the base year for the Eighth Plan, at around 800 kg/ha and coupled with the projected yield of 1996-97 at 1033 kg/ha resulted in a sharp increase in productivity growth of the order of 5.2 per cent per annum in the Eighth Plan It may be mentioned that the average yields of coarse cereals were above 900 kg/ha both in 1989-90 and 1990-91, while it declined to around 800kg/ha in 1991-92 due to adverse weather conditions. Hence, if one makes an adjustment for the base year yield assuming normal weather conditions, the growth in productivity from the long term trend values would be around 3 per cent per annum for the Eighth Plan. On the basis of the projected yield level of 1033 kg/ha for 1996-97, the production of coarse cereals is expected to reach a level of 39 million tonnes by 1996-97 (Table-4 3)

Pulses:

The production of pulses has not shown any significant increase during the eighties. Between the periods 1981-84 and 1989-92, production increased at an annual average rate of only one per cent which was mainly due to growth in productivity of the order of 0.9 per cent per annum (Annexure-4.7). However, during the Seventh Plan, production of pulses increased by about 1.5 per cent per annum, mainly as a result of the initiatives taken under the National Pulses Development Programme. Pulses being a major source of protein for the poorer sections of the population, it is essential to achieve a much faster rate of growth in production through greated emphasis on the National Pulses Development Programme. It is postulated that the area under pulses would increase by one million hectares, while productivity is expected to increase by about 3.1 per cent per annum during the Eighth Plan. As a result,

production of pulses is likely to reach a level of 17 million tonnes by 1996-97 from the estimated production of 14 million tonnes in 1991 92 (Table-4 3)

Foodgrains

The foodgrain production increased at an annual average rate of 2.76 per cent between 1981-84 to 1889-82 (Annexure-4.8). The respective contribution of area and yield in growth of foodgrain production is given in Annexure-4.9. Foodgrain production is expected to increase from 172.5 to about 210 million tonnes during the Eighth Plan penod an increase of about 3.75 million tonnes as compared to the increase of 25 million tonnes in the Seventh Plan period. The annual average rate of growth in foodgrain production in the Eighth Plan is thus expected to be of the order about 4.7 per cent as compared to 3.3 per cent realised during the Seventh Plan penod Much of the gir. It in foodgrain production during the Eighth Plan is likely to originate from growth in productivity of the order of 3.5 per cent per annum (Table-4.3). Taking into account the projected increase in population from 844 million in 1991 to 941 million by 1996.97 and also the rise in demand for food associated with the growth in income foodgrain demand is expected to reach a level of 208 million tonnes by 1996-97. Thus the postulated growth in production of foodgrains will help in improving the per capita consumption of foodgrains from 182 kg per annum in 1991-92 to 193.8 kg per annum by 1996.97. This would help in achieving the goal of self sufficiency in food during the Eighth Plan period.

Table-4 1
Area and Cropping Intensity in Eighth Plan

		(Area Mill:	on hectares
Variables	1991-92	1996-97	2006-07
1. Net sown area	140.0	141.0	1 '1 0
2. Gross irrigated area	75 7	89.3	114 0
3. Gross cropped area	182 2	190 6	203 4
4. Cropping intensity	1 30	1 35	1 44
 Ratio of gross irrigated area to gross cropped area (percent) 	41 5	46 9	56 0

Table 4-2 Agricultural Perspective

Arna Million hectares Production Hillion Fonnes

Variables	1991-92	1996-97	ر ایسراد
1. Gross cropped area	182 2	190.6	∠03 →
(a) Footgrains	127 0	13(()
(b) Other crops	°5 2	€0 6	(5.)
2. Gross lirigated area	15 7	89.3	114.0
(a) Foodgrains	53 8	62.3	77 /
(b) Other crops	21.9	2 ' 0	36 3
3. Fertiliser consumption	+ 13 5	18 J	30 0
(a) Foodgrains +	9.4	12 8	21 0
(b) Other clops +	4 1	5.5	9.0
4. Production			
(a) Foodgrains	1/2.5	0.01°	285.0
(b) Oilseeds	17.5	23.0	-1.0
(c) Sugarcane	235.0	275.0	408.0
(d) Cotton *	10.5	14.0	23.0

+ : Million tonnes

* : Million bales of 170 Kgs.

Table-4.3 Area, Production and Yield of Foodgrain Crops: 1991-92 and 1996-97

Area : Million hectares Production : Million Tonnes Yield : Kg per hectare

Crop		1991-92	1996-97	Growth Rate (% per year) 1991-92 to 1996-97
l. Rice	Area	42.5	43.5	0.5
	Production	72.5	88.0	4.0
	Yield	1706	2023	3.5
2. Wheat	Area	23 5	24.3	0.7
	Production	56 0	66 0	3.3
	Yield	2383	2722	2.7
3. Coarse	Area	37.5	37 8	0.1
cereals	Production	30.0	39.0	5.4
	Yield	800	1033	5 2
4. Pulses	Area	23 5	24 5	0.8
	Production	14 0	17.0	4.0
	Yield	596	694	3.1
5. Foodgrains	Area	27 0	130.0	0.5
	Production	72.5	210.0	4.0
	Yield	1358	1615	3 5

Table-4 4 Foodgrains Fertilizer Consumption, Area, Production and Yield

S)	States	Pertil Cons.	ıser mpti∍n	or as ure		fro.luct	Ion	Yield	ı
No.		1991-9	1936-97	1991-12	1996-97	1991-17	1996-97	1991-92	1996-97
0	1	2	3	4	5	6	7	8	9
	a Pradesh	1700	000	7500	7100	12800	13400	1707	1887
2 Assam		4.5	50	2900	3000	3400	3800	1214	1267
3 Bihar		625	1050	9400	9 . 00	12000	14900	1277	155.
1.Gujar		750	1000	4750	4800	4000	5900	941	1229
5. Harya		€ 50	100	3900	3900	9100	1,, 700	2333	3256
	hal Prades		60	900	900	1400	1500	1556	1667
	4 Kashnir		100	900	450	1400	1500	1556	1579
8 Karna	taka	925	1470	7300	7400	B000	8100	1096	1149
9 Keral		260	400	600	550	1100	.100	1633	2000
	ya Pradesh	830	1600	17800	17:00	16000	197.70	899	1119
	rashtra	1500	190(14000	14,000	8800	149 P	629	1007
12 Orıs		210	176	7250	7300	9400	9600	1159	134
13 Punj		1300	1550	5700	4000	19500	23500	3421	3917
14.Raja		450	500	12700	13000	8200	12500	672	962
15 Tami		950	41.0	4200	4300	7900	9200	1881	2140
	r Pradesh	.400	800	20500	-0700	36000	41000	1756	1981
	Bengal	770	1300	€500	6800	12500	14000	1923	2059
16.0the	re	140	290	1300	1300	2000	2100	1538	1615
All Ind		17500	18.500	127000	130000	17 500	. 10000	1358	1615

N B. Pertiliser Consumption in '000 tonnes Production in '000 tonnes Area in '000 bec Yaeld in Ngs pet hectary

Table-4 5
Contribution of Area and Yield in Foodgrain
Production in Eighth Plan

97	States	Increa	se Prod		o Interaction Efiect
No.	States			Yield	
0	1			4	
1.	Andhra Pradesh	600		225.8	
2.	Assam	400	60 7	36 7	2 €
3.	Bihar	2900	8 8	89 3	1 9
4.	Gujarat	1900	27 2	64 4	8 3
5.	Haryana	3600	0.0	100 0	0 0
6.	Himachal Pradesh	100	0.0	100 0	0.0
7.	Jammu & Kashmir	100	11.8	21 1	1 2
8.	Karnataka	500	21.9	71)	A 3
9.	Madhya Pradesh	3700		106 1	1 _
10.	Maharashtra	6100	8.2	66 8	5
11	Orissa	1400	4 1	45 2	į.
12.	Punjab	4000			٥
13.	Rajasthan	4300	12.5	8° 1	5 4
14	Tamil Nadu	1300			
15.	Uttar Pradesh	50 00			
16.	West Bengal	1500		58 8	I
	Others	100	0.0	100 0	0.0
	All India	37500	10 9	87 1	. 0

N B. Production in '000 tonnes

CHAPTER- 5 THE INDUSTRY SUB-MODEL

The structure of the industry sub-model is based on the approach of material balances which has been an important feature in the planning process since the Third Five Year Plan. The material balance studies serve the purpose of supplementing and cross-checking the results obtained from the multisectoral Input-Output (I-O) model

There are certain basic differences between input-output analysis and the material balance approach. The static framework of the I-O model provides economywise sectoral projections of output for the terminal year of the Plan which are consistent with the overall rate of economic growth postulated in the Plan. On the other hand, the material balance studies help in estimating output for selected commodities and services on the basis of independent demand and supply projections. The technical coefficients in the I-O model are expressed in value terms at constant prices, while the material balance studies use input coefficients or norms in physical units. The projections obtained through the I-O model relate to sectors which in many cases comprise more than one commodity or product (e.g., all types of petroleum products) while the material balance studies generally relate to single commodities or services. The I-O model provides projections of sectoral output based on interindustry demand and final demand. There are independent projections of supply in the I-O model. The material balance studies provide independent estimates of demand and supply for selected commodities and services and services and services and services and services and services and services.

In general, the demand projections in the material balance approach are based on the end-use method covering both interindustry use as well as final use. The demand projections are obtained by applying the input norms to the excepenously estimated terminal year output of consuming or user industries. The supply projections in the material balance studies are made on the basis of information relating to existing capacities, rates of capacity utilisation, projects in pipeline and creation of additional capacities during the plan period. Given the uncertainties in the completion of projects at different stages of construction, the supply projections in the material balance studies can be considered as feasible output levels during the plan period. Despite some limitations, the material balance approach serves a useful purpose of cross-checking the results obtained through the I-O model.

The changes in process of production take place at the level of commodity. Such changes can be captured through commodity-specific studies of demand and supply. A sector of I-O table being an aggregate of many commodities, it is difficult to account for technological changes at the level of sectors. Material balance approach is therefore found to be a useful supplement to the I-O approach.

The methodology adopted for preparing material balances for the Eighth Plan remains broadly the same as explained in the Tecnnical Notes of the Sixth and Seventh Five Year Plans. However, the physical input norms for various types of end-uses of a fairly large number of commodities prepared earlier have been revised and updated using more recent data from the different sources. The updated input norms take into account changes in product/process technology as well as comodity substitution in interindustry use and also changes in final demand due either to price or other factors. Further, the input norms for the terminal year of the Plan have been modified, wherever necessary, in order to reflect technological changes or commodity substitution that are likely to take place during the plan period.

The list of the commodities for which material balance studies have been carried out for the Eighth Plan is given in Table 5.1. A brief description of the methodologies adopted for selected commodities is given below.

COAL

The major sectors which consume coal are power, steel and metallurgical industries, manufacturing industries including small scale industries, and railways. The household sector also uses coal for domestic purpose. Power, steel, cement and fertiliser plants which account for about 75 per cent of the total coal consumption in the country are considered as distinct end-users in the material balance for coal, (Table 5.2) Using the recent statistics for these sectors, it has been possible to estimate their coal inout coefficients.

While the efficiency of use of heat energy in thermal plants has improved due to improvement of technology in the new plants and in plants with higher capacity such as super thermal power stations, the coal consumption norm has not shown improvement due to deterioration in the quality of coal supplied to the thermal plants. The demand for coal in the thermal power sector has been estimated after making necessary adjustments in the coal consumption norm for quality parameters and also for improvement in the operating efficiency of the plants. Besides utilities, there is now a substantial power generation by captive power plants in the industrial sector. The projection of coal for power generation includes both the utilities and the non-utilities.

Steel plants are the major consumers of coking coal, while some coking coal is also supplied to merchant coke ovens for producing hard coke used in the foundries and forges. Requirement of raw coking coal by steel plants depend primarily on the production programme of hot metal. The ratio of coal to hot metal in turn, depends to a great extent on the quality of coking coal and other raw materials as well as other factors such as the process technology and the scale of operation. The technology adopted at present does not permit exclusive use of coking coal domestically available due to its high level of ash content. The indigenous wahsed coal has, therefore, to be behended with imported coal before charging to coke ovens. A programme for modernisation of the various steel plants has been initiated with a view to adopt more energy efficient technology and this is expected to bring down the coal to hot metal ratio. Besides setting up new washeries, the existing ones are also being modernised which would improve the quality of coal. These measures are expected to bring down the consumption of coking coal per unit of steel output.

Sponge iron is used mainly in mini-steel plants to produce steel by electric arc furnace process. As a policy measure, setting up of sponge iron plants is being encouraged in order to reduce the dependence of mini steel plants on scrap. The existing sponge iron plants use non coking coal as a reducing agent. Demand of coal for this sub sector is estimated from the capacity of coal based sponge iron plants that is likely to come up in the Eighth Plan.

extiles and rayon, glass and ceramics, refractories, buck kilns etc. Of these, cement, apaper, and fertilizer industries are the major consumers of coal. In respect of the cement industry, dry process technology is more energy efficient and all the new plants would adopt this technology. This factor has been taken into account while estimating the specific coal consumption norm and projection of demand for coal in the cement industry. In the case of fertiliser industry, more emphass is being laid on gas-based plants and hence the demand for coal is not expected to increase. The requirement of coal for the remaining industries in the manifacturing sector such as glass and ceramics, brick kilns, atc., has been projected on the basis of past trends due to lack of reliable data about their coal consumption and corresponding levels of production.

The requirement of coal by railways has been steadily declining on account of increased disessisation and electrification of railway tracks. This trend is expected to continue during the period of the Eighth Plan as well.

The offtake of soft coke for domestic use is gradually declining due to high delivery cost and the consumer preference for cleaner cooking fuels like kerosene and LPG. In order to reduce the imports of petroleum products like kerosene and also with a view to checking deforestation, it is necessary to encourage the use of soft coke as a substitute cooking fuel. Central Mine Planning and Design Institute Limited (CMPDIL) has developed a mechanised manufacturing process which provides soft coke as a smokeless fuel and also enables recovery of by-product. If this process proves to be successful the demand for soft coke could pick up in the near future

Crude Petroleum

Refinery throughput in 1991-92 has been estimated at 51.42 million tonnes. With the expansion of the existing refinenes and the commencement of production in the two new refinenes viz. Mangaiore and Cauvery refineries refinery throughput is expected to reach 63.3 million tonnes by 1996-97 as against the projected domestic production of 50 million tonnes of crude petroleum.

Petroleum Products

Petroleum products which are put together as a single sector of I-O Model comprise variety of products and the end use of each product differs from the other. Consumption of petroleum products is therefore studied by type of product and by the end use (Table 5.3)

The perfoleum products are generally classified into three broad categories based on their physical properties and their applications. The category of light distillates comprises liquid petroleum gas (LPG) haphiha motor gardline (Mogas) and other light distillates we special boiling point spirit (SBP) and haxane. The category of middle distillates consists of kerosene (SKO) high speed diesel (HSD) avaidont urbine fuel (ATF) low speed diesel oil (LDO) and other minor fractions like just batching oil (BBO) mineral terpent he oil (MTO) etc. The category of heavy distillates include fuel oil low sulphichtosis of the category of heavy distillates include fuel oil low sulphichtosis occident of the category of heavy distillates include fuel oil low sulphichtosis occident of the category of heavy distillates include fuel oil low sulphichtosis occident of the category of heavy distillates include fuel oil low sulphichtosis occident of the category of heavy distillates include fuel oil low sulphichtosis.

The demand for petroleum products for road transport sector has been projected on the basis of the past relationship observed between the population of registered motor vehicles and the intensity of their utilisation. The requirement of ATF in the air transport sector has been projected on the basis of past trend. Demand for petroleum products in the rail transport sector has been projected on the basis of onination traffic.

The demand for naphtha LSHS and other petroleum products used in fertiliser and pctrochemical industries have been projected on the billion of plantwise requirement and also taking into account the use of natural gas in some of the existing units and the new plants that are likely to be set up during the Planuprion Natural gas is expected to serve as a substitute for petroleum products in power fertilisers petrochemicals and sponge into industries. Efforts are also being made to use compressed natural gas (CNG) as a substitute for HSD in road transport

The factors influencing demand for kerosene are substitution of kerosene by electricity for lighting of households and substitution of kerosene by LPG as a cooking fuel increase in use of electricity as a primary source of lighting has been faster in rural areas - where three-fourths of population is located, than in urban areas (Table 5.4). The shift from kerosene to LPG as a cooking fuel has been sharper in urban areas. As a combined effect of these two factors, the drop in growth rate of kerosene consumption has been much sharper than the decline in growth rate of population (Table 5.5).

The relationship between growth of kerosene consumption by households and growth of population observed in the Seventh Plan is expected to continue in the Eighth Plan Projected demand of 12100 thousand tonnes of kerosene in 1996-97 includes 529 thousand tonnes required for industrial consumption

The consumption of LPG for domestic use has increased from 953 thousand tonnes in 1984 85 to 2288 thousand tonnes in 1989 90. Keeping in view the availability of LPG from refineries and natural gas fractionation plaints (C3/C4 fraction) it is envisaged to provide 18 lakh new connections per year during the Eighth Plan period. Assuming an average consumption of 129 kg per year per household the demand of LPG for domestic use works out to 3634 thousand tonnes in 1996-97. The demand for LPG in the industrial sector has been projected at 403 thousand tonnes based on past trend and also taking into account the increasing use of natural gas in the industrial.

There has been a gradual reduction in the consumption of FO/LSHS in the power utilities during the last few years partly due to the reduction in specific consumption of FO/LSHS and partly due to the increase in the share of gas based power generation. The specific consumption norm has declined from 14.9 mil/kwh in 1985 86 to 10.1 mil/kwh during 1989.90 and it is envisaged to decline further to a level of 7.0 mil/kwh by the end of Eighth Plan period

The consumption of petroleum products in agriculture sector is related to the population of tractors and pumpsets and the extent of their use

Administered prices have been the main instrument to govern the demand for petroleum products. Prices of petroleum products have been revised upwards thrice since 1990. These have been done in the background of severe balance of payment crisis to moderate the growth in consumption of petroleum products. Yet the administered price of kerosene for domestic consumption have not been increased mainly to help the poor who use kerosene for both cooking and lighting on the other hand, the price of naphtha and LSHS which are used as feedstock in fertiliser industries are increased in order to reduce the consumption of naphtha and LSHS to promote the use of natural gas as a feedstock. The Eighth Plain postulates that flaning of natural gas would be completely eliminated by the end of the plan period. During the Plan period the area of administered prices will be reduced so that market prices can directly influence the product wise consumption. These aspects have been considered while projecting the demand for different categories of petroleum products in the Eighth Plain.

Textiles

The demand for textiles including export demand has been projected at 22.8 million metres in 1905-97 based on the analysis of consumption behaviour in the recent past. The production target has been estimated on the basis of the existing and anticipated additional capacity for yam production. The production of yam however depends primarily on the availability of fibres. The fibres consists of natural fibres like cotton and silk as well as mammade fibres like in nylon polyster and acrylic. The availability of cotton fibre fluctuates with production of cotton. On the other hand the production of mammade fibres apart from being capital intensive is also constrained by the availability of petitodicum products which form their principal raw material base. The cloth production generally consists of pure cotton blended mixed and pure art silk vaneties. The requirement of cotton yam has been estimated using the ratio functions of yam to cloth for pure cotton and blended mixed vaneties of cloth production. The requirement of cotton fibres has been estimated using the ratio of conversion of fibre to yam. On this basis the requirement of cotton has been estimated at 3.5 billion metres and 21.2 billion metres respectively.

Fartilizers

In order to achieve the growth in agricultural production postulated in the Eighth Plan, the demand for fertilisers in 1996-97 has been projected at 18.3 million tonnes, based on econometric exercises relating fertiliser consumption with agricultural production. The projected demand for fertilisers consists of 11.5 million tonnes of introgenous fertilisers, 5 million tonnes of phosphatic fertilisers and 1.8 million tonnes of potassic fertilisers. On the basis of existing capacity as well as new capacity that is likely to be created during the Plan period, nutrient-wise import requirement has been estimated (Table 5.1).

Finished Steel

There has been a progressive rise in the growth of steel consumption. The average annual growth rate in steel consumption has increased from 4.5 per cent during the Sixth Plan (1980-85) to 5 8 per cent during the Seventh Plan (1985-90). In absolute terms steel consumption increased from 10.66 million tonnes in 1984-85 to 4.4 million tonnes in 1989-92. The growth in steel consumption had slowed down very much during the period 1990-92 mainly as a result of curbs on imports which affected the general level of activity in the economy. Steel is consumed mainly in the manufacturing sector, in construction and some minor quantities in defence. The demand for steel has therefore been estimated on the basis of past trend in these user sectors. (Table-5.6)

The on-going process of economic reforms and liberalisation is trying to bring about a restructuring of the growth in the manufacturing and construction sectors. As a result, metal products and metal processing industries are expected to register a higher growth than chemical and metalfurgical process industries. These factors will influence the growth in consumption of steel in the medium term.

Non-Ferrous Metals

Aluminium, copper, zinc and lead are the major non-ferrous metals that are most widely used in the metallurgical industries. The projections of demand and domestic production of different non-ferrous metals during the Eighth Plan are based on the information available in the Report of Working Group on Non-Ferrous Metals for the Eighth Plan While some modifications have been made wherever found necessary.

The country is endowed with large deposits of bauxite, with known reserves of the order of 2650 million tonnes. The aluminium industry has made rapid strides in the last two decades which has made the country not only self sufficient but has also enabled us to export alumina as well as aluminium. The present installed capacity of aluminium in the country is 610 thousand tonnes per annum which is expected to reach a level of 772 thousand tonnes by 1996-97. NALCO is expected to export around 38 ihousand tonnes of alumina per year, after meeting its own requirements. The use of aluminium is expanding rapidly in a number of areas such as furniture and fixtures, packaging applications etc., apart from the traditional areas like conductors, utensite, etc. The demand for aluminium has been estimated taking into account the new areas of applications and also the observed growth in consumption in the recent years.

As regards zinc, the proven reserves as on March, 1990 are estimated at 7,343 thousand tonnes. It is observed that there is a declining trend in the consumption of zinc partly due to changes in technology in the consuming industries (e.g., down-sizing of automobiles, use of thinwall die-casting etc.) and partly due to the use of cheaper substitutes like aluminium and plastics. Zinc is widely used in galvanizing brass-bronze, manufacture of zinc-based alloys, die-casting and chemicals.

Zinc is being replaced with aluminium alloys, stainless steel and plastics for a variety of applications. With the commissioning of Chandenya smelter in Rajasthan, it would be possible to export around 100 thousand tonnes of zinc annually. However, small quantity of imports would be needed in the terminal year of the Eighth Plan, 1998-97, to meet domestic demand.

The known reserves of lead in the country as on March,1990 are estimated at 1686 thousand tonnes. The rate of growth in the consumption of lead declined during the period 1990-92 due to slackening of growth in industrial production. However, as industrial production is anticipated to pick up during the Eighth Plan period. However, as industrial production is anticipated to pick up during the Eighth Plan period the demand for lead has been projected to grow at an annual average rate of 4.5 per cent during the Plan period. With the commissioning of Chanderiya smelter, the installed capacity for production of lead is expected to increase from 99.5 thousand tonnes in 1991-92 to 104 thousand tonnes in 1995-97, which would enable the country to meet its demand in 1996-97 with marginal imports of four thousand tonnes in 1996-97.

The demand for copper is presently growing at about 6 per cent per annum. The cost of production of copper in the country is quite high, as compared to international level, because of the low grade ores and also due to the small scale of operations in comparison to world standards. Hindustan Copper Limited (HCL), is presently the sole agency for copper mining and refining. The installed capacity of HCL is envisaged to rise from 47.50 thousand tonnes in 1996-97. However, high protective fariff wall in case of copper has been an important incentive for the domestic producer. As the situation changes with tariff and trade reforms the imports are likely to increase

Rail Transport

Rail transport services cover passenger and freight traffic. Projections are made by end-use analysis Major commodities which account for a substantial share of the total volume of freight traffic carried by the railways are considered distinctly (Table 5.7).

The volume of transportation requirements in respect of these commodities has been estimated using the rail transport coefficient which indicates the proportion of commodity moving by the rail mode. It has been observed that there is a reasonable degree of stability in the rail transport coefficients over the years, except for the unusual years characterised by fluctuations in commodity supply or transport constraints (Table 5.8). These coefficients for the terminal year of the Plan have been projected taking into account vanation in the pattern of locational dispersal of production centres (e.g., location of a new thermal power plant at the coal pithead or in the coastal area). The demand for rail freight traffic in terms of Tonne Kilometers (TKMS) have been projected on the basis of the estimated lead distance for a particular commodity. (Table 5.7).

The demand for rail freight traffic in respect of steel and raw materials for the steel industry has been estimated on the basis of the envisaged production plans of the integrated steel plants. This covers (i) saleable steel products, i.e., finished and semi-finished steel products as well as pig iron for sale and (ii) raw materials other than coal, viz., iron ore, limestone, dolomite, manganese ore, etc. consumed by the steel plants

The major portion of coal traffic carried by the railway is for thermal plants. The rail transport coefficient of coal has declined from 76.3 per cent in 1983-94 to about 69.1 per cent in 1991-92 due to location of new thermal power stations at coal pitheads and this trend is expected to continue during the Eighth Plan period. Coal for steel plants, coke ovens and for railways' own use is moved by railways, while the

demand for other consumers is partly met by road movement. The rail transport coefficient for coal in 1996-97 has been estimated at 61 per cent.

Iron ore from Goa mines to Marmugoa port is transported by waterways through barges while in the case of Kudrentikh project, ore concentrates are moved through pipelines for pelletisation. Iron ore exported through the ports in the eastern region, viz., Vizag, Paradip and Madras, is transported to the ports by rail. The rail transport coefficient for iron ore has been in the range of 40 to 50 per cent during the last ten years. Since a change in pattern of movement of iron ore is not envisaged during the Eighth Plan period, the coefficient for 1996-97 has been projected at 45 per cent.

The rail transport coefficient for cement has been varying between 47 and 55 per cent during the 1980s. After the announcement of complete decontrol of cement prices, the coefficient rose to 60 2 per cent in 1989-90, but subsequently declined to 58 9 per cent in 1990-91 and 57 5 per cent in 1991-92. The coefficient is expected to decline further during the Eighth Plan penod and get stabilised at around 55 per cent due to wider dispersal of cement production centres which would reduce the lead distance to the consuming centres and would induce a snift to other modes of transport that might be preferred to rail.

Movement of foodgrains through railways takes place mainly in respect of inter-state bulk movement and transport from ports in the case of imports. Rail transport coefficient for foodgrains has been in the range of 14 to 16 per cent during normal years. However abnormal periods such as droughts necessitate longer distance movement of foodgrains to the drought-stroken areas. The coefficient was 20 2 per cent and 21 4 per cent during the drought years of 1986.87 and 1987-88 respectively. Assuming normal production levels for 1996-97, the coefficient has been projected at 15.5 per cent.

The rail transport coefficient for fertilisers has shown a declining trend during the last two decades. Availability of natural gas through the pipelines has facilitated the shift in location of fertiliser plants nearer to consumption centres. The coefficient has been projected to decline from the average level of 63 per cent during 1989-92 to 60 5 per cent in 1996-97.

A part of the petroleum products are moved through pipelines from the refinenes while some are also moved through road to meet the demand in the areas close to the refinenes. The rail transport coefficient of petroleum products has been found to be in the range of 42.3 to 44.5 per cent during the Seventh Plan pend (1985-90), while it was 43.6 per cent in 1990 91 and 43.2 per cent in 1991 92. The Kandla-Bhatinda product pipeline is expected to be commissioned during the Eighth Plan pend, which would have a capacity to move 6 million tonnes upto Karnal and 1.5 million tonnes thereafter upto Bhatinda. This would substantially reduce the demand for movement of petroleum products by rail in the northern region. In view of this the rail transport coefficient has been projected at 3.7 per cent for 1996-97.

Railways transport many other commodities such as granite stones, lime stone, gypsum, rock phosphate, timber, paper and paperboards steel manufactures, aluminium electrical goods, glassware coir products jute, oilseeds, sugar, salt, dairy products etc and all these have been categorised as "other goods". The volume of rail traffic of many of these commodities has been declining over the years. The rail movement of these commodities depends on various factors such as the comparative cost advantage due to the freight structure in different modes of transport, the fliesibility and convenience in handling and intermodal transfer and most important, the time factor in transporting the commodities. Although this category of freight traffic is quite remunerative for the railways, priority is generally accorded to movement of core commodities. The volume of freight traffic of the category of "other goods" was in the

range of 35 to 37 million tonnes during the last three years and this has been assumed at 35 million tonnes for 1996-97. (Table 5.7.)

Electricity generation

Electricity consumption is generally classified into the following broad categories: (i) industrial consumption; (ii) agricultural consumption (mainly for irrigation pumpsets); (iii) domestic consumption; (iv) railway fraction; (v) commercial consumption; (vi) public lighting; (vii) public waterworks and sewage; and (viii) miscellaneous uses. While a part of the demand for electrical energy is met by captive generation, in balancing consumption demand against supply, total consumption of electrical energy is considered. Thus, both utilities and non-utilities generation of electricity is accounted for in this study.

The industrial sector is the largest consumer of electricity although its share in total electricity consumption has been declining over the years. While this decline in the share can partly be attributed to the faster growth in consumption in other sectors such as in agriculture and household sector, the important reasons are the use of more energy- efficient technologies and adoption of energy conservation measures in some industries. Electricity consumption in the industrial sector can be broadly divided into two categories, viz., consumption by major or large industries and consumption by other industries. The demand for electricity by major industries has been projected on the basis of end-use method. The norms of specific electricity consumption per unit of output in physical terms have been estimated for major industries using the information available in various official documents like the General Reviews of the Central Electricity Authority, the Annual Survey of Industries, the Reports of the Bureau of Industrial Costs and Prices, etc. Energy-intensive industries such as aluminium, steel, cement, fertilisers, paper, etc., account for more than half of the total industrial energy consumption. Since the specific electricity consumption in the industrial sector depends on various factors such as the installed capacity, i.e., size of the industrial units, capacity utilisation, quality of power supply, choice of feedstoc', processing technology, etc., these aspects have been studied in detail in estimating the norms for the individual industries. Furthermore, the changes in the processing technology and the modernisation programmes envisaged in the specific industries during the Eighth Plan period have been taken into consideration while projecting the norms of electricity consumption for the plan period (Table-5 9)

The consumption of electricity by industries other than major industries includes the consumption by small registered and unregistered industrial units. It is difficult to estimate the specific electricity consumption norms for each industry. The share of electricity consumption by "other industries" in the total industrial electricity consumption in the past has been estimated and this share is not expected to change significantly during the Eighth Plan period (Table-5 10). The projected demand for electricity in the industrial sector has been cross-checked through independent regression analysis, wherein electricity consumption in the industrial sector for the period 1999-80 to 1990-91 has been regressed on the value added in mining, quarrying and manufacturing sector at 1980-81 prices of the corresponding periods. The estimated equation is given below:

$$\log Y = 1.2827 + 0.9564 \log X$$
, (R²=0 9897)

where "Y" represents electricity consumption in the industrial sector (in billion kwh), including both utilities and non-utilities, and "X" represents the value added in mining, quarrying and manufacturing, (at 1960-81 prices)

Using the estimated coefficient from the above equation along with the projected growth rate in value added in mining, quarrying and manufacturing for the Eighth Plan, the demand for electricity in the industrial sector for 1996-97 works out to 157.77 Bkwh, as against the projected demand of 155 Bkwh given by the end-use

method. The difference of 2.77 Bkwh could be attributed to the changes in process technologies and other factors considered in the end-use method.

Electricity consumption in the agricultural sector is primarily for the operation of imglation pumpsets and it depends, therefore, on the number of electric pumpsets in operation and the intensity of their use. There is a strong correlation between the number of pumpsets energised and the consumption of electricity in the agricultural sector, as relevaled by the following regression equation:

$$\text{Log Y} = -14.7933 + 1.59168 \text{ Log X}, \quad (R^2 = 0.984)$$

where "Y" represents the consumption of electricity in the agricultural sector and "X" represents the number of pumpsets energised, and the equation has been estimated using the time-series data of the period, 197-80 to 1990-91.

The demand for electricity in the agriuctural sector for 1996-97 has been projected using the estimated coefficient from the above equation along with the targetted number of pumpsets to be energised by 1996-97. The estimated demand works out to 77.48 Bkwh. The demand has, however, been projected at a slightly lower level at 76 Bkwh assuming that there would be some improvement in the level of efficiency in the use of irrigation pumpsets during the plan period.

There has been a rapid growth in the domestic consumption of electricity during the 1980s. This could be attributed to various factors like the growth in population, urbanisation, income and, most importantly, the expansion of electricity supply in the rural areas. The demand for electricity for domestic consumption has been projected on the basis of the following relationship:

$$Log Dx = -19.83 + 2.52 Log Dy$$
, (R² = 0.99)

where "Dx" represent the consumption of electricity in the household sector (Bkwh) and "Dy" represents private final consumption expenditure (at 1980-81 prices); the equation has been estimated using the time- series data of the period 1975-76 to 1989-90.

Using the estimated coefficient from the above equation along with the projected estimate of private final consumption expenditure for 1996-97, the demand for electricity for domestic consumption has been projected at 65.46 Bkwh. The demand for electricity for railway iraction purposes depends on the actual route kilometres electrified and the volume of goods and passenger traffic on such routes. The demand has been projected on the basis of regression analysis. Two alternative specifications have been attempted for this purpose. In the first specification, the estimated equation is:

$$Y = 0.166516 + 0.890864 X$$
. (R² = 0.9703)

where "\" represents electricity consumption in railway traction (Bkwh) and "\" represents the route kilometres electrified;the equation has been estimated using the time-series data of the period 1980-81 to 1990-91.

Using the estimated coefficient from the above equation along with the envisaged programme of electrification in the railways during the Eighth Plan period, the projected demand for railway traction works out to 6.79 Stwth. In the above specification, the demand projection depends mainly on the route kilometres electrified and it does not take into account the volume of traffic in such routes. In order to capture the growth in the volume of traffic in electrified routes, an alternative specification has

been attempted wherein the electricity consumption in railway traction has been related to value added in railway transport sector. The estimated equation is:

$$Log Y = 1.3925 + 0.7568 Log X$$
 (R² = 0.9772)

where "Y" represents electricity consumption in railway traction (Bkwh) and "X" represents the value added in railway transport sector (at 1980-81 prices); the equation has been estimated using the time-series data of the period 1975-76 to 1990-91.

Using the estimated coefficient from the above equation along with the projected growth in value added in railway transport sector, the projected demand for electricity works out to 6.56 Bkwh as against that of 6.79 Bkwh estimated on the basis of the earlier specification. The higher figure of 6.79 Bkwh has been adopted under the assumption that intensity of traffic would increase further with the expansion of railway electrification.

The demand for electricity in the remaining categories, viz., commercial uses, public lighting, public waterworks and sewage pumping and miscellaneous categories, has been projected on the basis of past trends.

The total demand for electricity in the terminal year of the Plan, 1996-97, of all the categories discussed above adds upto 335.84 Bkwh. This estimate has been cross-checked with the estimates obtained from the regression:

$$\log Y = -6.9599 + 1.560 X$$
 (R² = 0.991)

where "Y" represents total electricity consumption in the economy, utilities and non-utilities taken together, in Bkwh, and "X" represents GDP at factor cost at 1980- 81 prices; the equation has been estimated using the time-series data of the period 1980-81 to 1990-91

The projected demand on the basis of the estimated coefficient of the above equation works out to 339.07 Bkwh, as against 335.84 Bkwh estimated on the projected demand of individual categones of users. The difference between the two estimates could be attributed to structural changes in the subsectors which are reflected in the projected demand of individual categories

The gross requirement of electicity generation has been estimated on the basis of the above projected demand. The addition to generation capacity has been estimated taking into account the losses in transmission and distribution as well as the requirements of auxiliary consumption, of both utilities and non-utilities. The Eighth Plan envisages specific schemes to reduce these loss and has incorporated their impact into the projections. Furthermore, the Eighth Plan also envisages a larger scope for non-utilities in additional generation capacity. The detailed demand-supply balance for electricity for 1996-97 is given in Table-5.10.

Correspondence with input output model projections

A comparision of flows estimated through the material balances has been made with those obtained in the input-output model. (Annexures 5.23 to 5.28) To make the material balance classifications conceptually comparable with the input output classification, aggregation of certain sectors had to be carried out in presenting these tables. The two distributions broadly correspond with each other. The marginal variations that are exhibited between the two distribution are due to the composition effect in the input output sectors i.e., while the material balance projection refers to a specific commodity input output projection refers to all the commodities falling in the relevant sector.

In the present structure of input output model, the transportation needs of commodities are considered in terms of transportation inputs for a particular industry, whereas the commodity-wise transport projections given earlier in this chapter are oriented towards the output of commodities. For example the transportation needs of finished steel would be considered in the input output model not as a separate item but as a part of all industries which consume steel. And steel would be a part of the many commodities that flow as input to a particular sector Thus a compansion between rail transportation projections based on material balance approach with input-output model projections of rail transport flows is not possible

Table-5.1

Material Balance For Selected Commodities
1991-92 &1996-97

COMMODITY	UNIT	19	91-92	1996-97
1.Coal Production	Mill. Tonnes.			
		2	29.26	308.00
Import			6.09	
Export			0.11	1.00
Change in Stock			6.41	-
Consumption		2	28.83	310.00
2.Iron Ore	Mill Tonnes.			
Production			56.50	72.00
Export			32.00	32.00
Consumption			24.50	40.00
3.Crude Oil	Mail Tonnes			
Production			30.34	50.00
Import			24.00	13.32
Change in Stock			2.92	-
Consumption			51.42	63.32
4.Petroleum products	Mill Tonnes			
Production	1011 1014100		49 15*	61.57*
Import			9.44	22.92
Export			2.70	3.30
Change in Stock		(-)	0.77	-
Consumption			56 66	81.19
5.Nitrogenous Fertilizers	Mill Tonnes.			
Production			7.30	9.80
Import			0.50	1.70
Change in Stock		(-)	0.70	
Consumption			8,50	11.50
6.Phosphatic Fertilizers	Mill Tonnes			
Production			2.50	3.00
Import			0 90	2.00
Change in Stock		(-)	0.20	
Consumption			3.60	5.00
	Mull Tonnes.			
Import			1.30	1.80
change in stock		(-)	0.10	-
Consumption			1.40	1.80
8.Total Fertiliser nutrients	Mill Tonnes			
Production			9.80	12.80
Import			2.70	5.50
Change in Stock		(-)	1.00	
Consumption			13.50	18.30
9.Cement	Mill.Tonnes			
Production			53.00	76.00
Import			-	2.00
Export			1.00	7.00
Consumtion			52.00	71.00
				Contd.

Table-5.1 (contd.) Material Balance For Selected Commodities 1991-92 &1996-97

COMMODITY	UNIT	1991-92	1996-97
10.Finished Steel (main+mini) Mill.Tonnes.		
Production		14.50	22.80
Import (canalised)		1.00	1.00
Export		0.30	2.80
Consumption		15.20	21.00
11.Aluminium	Th. Tonnes		
Production		514.17	656.00
Import		3.00	16.00
Export		68.00	-
Consumption		449.17	672.00
12.Copper (refined)	Th. Tonnes		
Production		45.49	55.00
Import(Incld non-canalise	d)	104.51	145.00
Consumption		150.00	200.00
13.Zinc (Primary Metal)	Th. Tonnes		
Production .		102.00	154.00
Import		10.00	26 00
Consumption		112.00 **	180.00
14.Lead (Primary Metal)	Th. Tonnes		
Production		48.39	96.00
Import(Incld non-canalise	d)	20.00	4.00
Consumption		68.39	100 00
15.Railways	Mill.Tonnes		
(Originating traffic)		363.00	443.40
16.Electricity	Bill.KWH		
Generation(incl.non-utili	ties)	311.21	448.00
Import		1 43	2.00
Consumption		312 64	450.00

^{*} Includes production of LPG from natural gas (one million tonne & 2 05 mill.tons. for 1991-92 & 1996-97 respectively)
** Abnormally Low Consumption.

Table-6.2 Material Balance for Coal : 1991-92 & 1996-97

		(Million Tonnes)
S1. Consuming Industry No.		1996-97
I DENGAND		
A. COKING COAL	31.66	42.00
1. Steel (hot metal)	31.66 *	40.20
2. Coke ovens, etc.	-	1.80
B. NON-COKING COAL	197.28	26° 00
 Sponge iron (coal based) 	0.40	_ 00
2. Thermal power generation	134.60	185 30
(coal based)	(2.30)	(4.70)
3. Railways	4.42	3.00
4. Cement	9.97	17.50
Fertilizers	4 23	4 00
6. LTC, soft coke, SSF	0 99	4 00
 Other Industries 		
(a)Captive power generation	38.50 **	15.00
		(2.10)
B. BRICK KILMS, etc	-	33.20
		(0.20)
8. Colliery consumption	4 06	4 00
9. Export	0 11	1 00
10.Total demand (A+B)	228 94	311.00
	(2.30)	(7.00)
II AVAILABILITY		
1. Production	229 26	308.00
2. Import	6 09	3.00
3. Change in stock	6 41	0.00
4. Net availability	241 76	311.00

Note: Figures in brackets represent Washery middlings.

* Includes coal consumption in coke ovens, etc.

** Includes coal consumption in brick kilns, etc.

Table 5 3 Sectorwise Demand of Petroleum Products in 1996 97

1	1	•													; 3		3	,		,		(000 Tomas	1
1	12 13 14 15 15 15 15 15 15 15	Transport	Transport	Transport	ž				Į,	et ty	-							Ĭ	Meteolture	Fire		,	Total
1	1	Rail Mater Boad Air Way			ă	Iros L	Part I	ĕ -	11		!	tack tage	3	2	Cong	Total	2	Trector	13	ā 1	ATT:		
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111 141 142 143 144 144 144 144 144 144 144 144 144	15 35 35 35 35 35 35 35 35 35 35 35 35 35	2452	=		2452	5	Ħ	:	×	ı	20	•							•		ē		2 <u>3</u> 6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11	2054 623 20110 2452	20110	20110	2452	121	ž	132	3	263	:								3284		285		200
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ONL ON ON ON THE SAME SAME SAME SAME SAME SAME SAME SAM	THE															1338							86
719 124 249 449 259 15 15 12 12 12 13 140 462 160 462 160 463 160 160 160 160 160 160 160 160 160 160	1941 944 944 1944 1944 1944 1944 1944 1															1017							101
454 1069 559 315 4255 247 88 813 521 5021 1390 18417 4963 3082 3294 188 2599 1889	16 Lij 521 3021 1300 18417 4963 3062 5284 160 3599 1889	27 636 20		2		810	728	126	57	ŝ	229									9	7		7
	1	2371 1259 27634 2452	1259 27634			8	1069	828		4195	247					10017			3284	ž	12		2

Table-5.4 Distribution of Housholds Based on the use of Primary Source of Energy for Lighting

							LIGHTING		
TATE / UNION			RURAL					URBAN	
	nss Round	ELECTRI-				ELIFUTRI CLTY	- KEROSLHE		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(R)	(9)	(10)
indhra Pradesh	28	75	918	7	1000	4 16	557	5	1000
	38	166	928	6	1000	600	.182	18	1000
	43		651	23	1000	709	28 4	9	1000
lysam .	.8	14	983	3	1000	31.4	631	5	1000
	38	29	954	17	1000	466	514	20	1000
	43	70	923	7	1000	t 9]	297	17	1000
lhar	28	19	479		1000	413	58.5	4	1000
	38	16	976	7	1000	491	55.	11	1000
Guiarat	43 28		923	31	1000	* pn • 74	4º0 316	10	1000
Gujarat	38		811 t30	14	1000	811	161	3 B	1000
	43		462	11	1000	H H	141	4	1000
laryana	28	200	748		1000	n n	71	4	1000
aryana	38	366	602	1 3	1000	H41	10	13	100
	43		41.8	32	1000	, ,	151		1000
imachal Prades		102	644	54	1000	H fi	ldn	• •	1000
The rest of the second	38		3.47	11	1000	(4	(1	r	3 8 0
	43	/80	197	13	1000	3.4	¥	31	υÜ
ammu & Kashmir		184	7 11	н1	2000	Kn4	10	9	1900
	38	5 4	190	47	1 100	47.	40	37	1000
	4.5	705		/(1000	1/4	19	i	1000
arnatek:	В	124	i 71	4	1000	5/1	427		1.00
	38	_ 30	758	1	1000	7.3	31	3 4	1:09
	43	395	102	3	1000	147		11	ar nu
erala	28	14	h54	1	10 00	4.74	5.4		1. 0
	34	244	4.1484	a	1000	t LHH	taxe.		106
	43	170	8.5	t.	10.00	7.8	264	8	1000
ladhya Pradesh	28	5.4	24.2	18	1.00	1.44	1.21	*	1000
•	36	94	87.	4	1000	«U	401	14	1 1
	4 4	4.5	7*0	7	1000	1,1	2.0	13	1.3
laharasht ra	58	85	×40	7,	10.0	1.4	341	6	110
	38	- 11	7.7		1000	100	178	19	11.1
	43	417	17		1000	14	5-1	19	1 (
tanipur	28	16	143	141	100×	401	347	75.4	116
	38	44	99	191	() /	1)	.50	-	1000
	43		c /h	_	1	. ,	445	-	3000
lagaland	2 B	-	-			1:14	652	39	100
		-			0	H-3D	170	- "	1000
	4.3		944	41	1900	417	57	6	1001
F1558	_H 38	H 2	H.34		QUI	0	470	25	4900
	43	45	896		110	- 7	435		1000
unieb	. 6	1,	750	16	1000	1.3	.16	23	1000
unjab	18	583	187	3.1	1600	d 44	14	4	1000
	43	100	2.3	71	1000	10	tref	36	1000
ajasthan	28	38	915	47	1000	05	468	1	1000
	38	91	н69	40	1000	4.3	345	2	1010
	43	171	791	36	1004	1.9	267	4	1600
amil Nadu	_ H	1.1	H 7 7		LUCH	1 1	481	€	1900
	311	ĝu	70		1001	(4)	340	3	1000
	43	39	c 041		1000	-1	241	34	1000
ttar Pradesh	28	1/	973	10	1000	449	54.1	ь	1000
	38	. 1	970	. 4	1000	4	453	16	1000
	4.3	40	935	1.	1000	÷1 ·	366	13	1000
est Benga)	28	15	902	1	1000	4d	513 455	15	1000
	38	34	943	3		- 10 - /u	414	15	1000
	4.3	45	949		1600	. /4	165	10	1000
handigarh	_ 8		146	-	1000	14 4	55	20	1000
	38	954 925	38	37	1000	974	93	17	1000
	43 26	_10	790	"	1000	563	333	**	1000
elhı.	38	527	4/9	44	1000	~10	165	25	1000
	43	911	63	37	1000	107	66	27	1000

Table-5.4 (contd.)

Distribution of Housholds Based on the use of Primary Source of Energy for Lighting

				PRIMARY SOURCE OF ENERGY FOR I					
TATE / UNION ERRITORY			RURAL	, 				URBAN	
	NSS ROUND	ELECTRI- CITY	KEROSENE	OTHERS	TOTAL	ELECTRI- CITY	KOEROSENE	OTHERS	TOTAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
oa. Daman 6 Diu	28	117	883	-	1000	569	411	-	1000
	38	300	700	~	1000	/95	205	-	1000
	43	739	251	10	1000	851	142	7	1000
ondichery	28	158	837	5	1000	432	569	-	1000
	38	239	754	7	1000	550	450	-	1000
	43	453	535	12	1000	÷71	329	-	1000
ll India	28		917	17	1000	535	460	5	1000
	38	149	836	15	1000	6.36	347	15	1000
	43	238	746	16	1000	716	269	13	1000

Table 5.5
Population and Kerosene Consumption - Growth Rates

	(Percent per annum)
Growth	
Population	Kerosene Consumption
(2)	(3)
2 2	9 0 (a)
2 1	6 7
1 8	5 7
	2) 2 2 2 1

⁽a) Period 1978-79 to 1984-85 with the data for 1978-79 being taken as triennial average for 1977-80

Table: 5 6 Sectorwise Demand For Finished Steel

(In Million tonnes)

S.No. Sector	1991~92	1996-97
0 1	2	3
1. Small Scale	3.490	5.092
Industries	(22.97)	(24.24)
2. Large Scale	5.933	8.321
Industries	(39.03)	(39.62)
3. Construction	5.625	7.335
	(37.00)	(34.93)
4. Ordnance	0.152	0.252
factories,	(1.00)	(1.20)
defence,		
and Misc.		
	15 200	21.000
Total	(100.00)	(100.00)

Figures in brackets represent percentage of total

Table: 5.7 Projections Of Frieght Traffic In Railways

0 1 2 3 4 5 6 (1)Steel(Integrated steel plants) 1 Saleable steel / pag iron for sale 1991-9^ 12.06 94.90 11.44 1194 13.66 1991-90 18.10 95.00 17.20 1180 20.30 1lABW materials for steel plants (excluding coal) 1991-92 29.55 315 9.31 1991-92 219.00 69.30 151 86 630 95.64 1996-97 294 00 61 00 179.40 670 120.20 (3)Iron ore exports 1991-92 32.00 40.00 12.76 546 6.97 1996-97 32 00 45 00 14 40 580 8.40 (4)Cement 1996-97 76.00 55.00 41 80 660 27.60 (5)Foodgrains 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 178.80 178.90 27.10 178.90 178.90 1991-92 178.90 178.90 178.90 178.90 1991-92 2 30 47 97 97 97 97 97 97 97 97 97 97 97 97 97	Sl. No.	Commodity & Year	T.Q (M.T.)	T.C (%)	O.T (M.T.)	LEAD (Kms.)	TKms (Bn)
A	0	1		3	4		
1991-9° 12.06 94.90 11.44 1194 13.66 1996-9° 18.10 95.00 17.20 1180 20.30 1984 materials for steel 1991-92 -	(1)Ste	eel(Integrated steel p leable steel & pig iro	lants)				
138 m materials for steel 194 m	10.	1991-97					
Paints (excluding coal) 199-92 - 29.55 315 9.31 1996-97 - 44.00 350 15.40			18.10	95.00	17.20	1180	20.30
1991-92 - 29.55 315 9.31							
1996-97 - - 44.00 350 15.40	pre		_	_	20 55	216	0.21
(2)Coal: Total (including rallways) 1919-92 1996-97 294 00 61 00 179.40 670 120.20 (3)Iron ore exports 1991-92 1996-97 32 00 40.00 12.76 546 6.97 1996-97 32 00 45 00 14 40 580 8.40 (4)Cement 1991-92 53.00 57 00 30.49 725 22.11 1996-97 76.00 55.00 41 80 660 27.60 (5)Foodgrains 1991-92 178.80 15.20 27.14 1363 36.98 1991-92 1996-97 210.00 15.50 32.60 1400 45.60 (6)Pertilizers (Materials) 1991-92 1991-93 1801 materials(excluding coal) 1991-92 1991-92 1991-92 1991-93 1701 254.28			-	_			
rallways) 1991-92 294 00 61 00 179.40 630 95.64 1996-97 294 00 61 00 179.40 670 120.20 (3)Iron ore exports 1991-92 1996-97 32 00 45 00 12.76 546 6.97 1996-97 32 00 45 00 14 40 580 8.40 (4)Cement 1991-92 1996-97 76.00 55.00 41 80 660 27.60 (5)Foodgrains 1991-92 178.80 15 20 27.14 1363 36.98 1991-92 1996-97 210.00 15.50 32.60 1400 45.60 (6)Fertilizers (Materials) 1991-92 1996-97 41 90 60 50 25.30 900 22 80 (7)Petroleum products 1991-92 1996-97 84 40 37 00 31.20 50 20.30 (8)Other goods 1991-92		1550 57			11.00	330	15.40
1996-97							
(3)Iron ore exports 1991-92 32.00 40.00 12.76 536 6.97 1996-97 32.00 40.00 12.76 546 6.97 8.40 (4)Cement 1991-92 53.00 57.00 30.49 725 22.11 1996-97 76.00 55.00 41.80 660 27.60 (5)Foodgrains 1991-92 178.80 15.20 27.14 1363 36.98 1996-97 180 63.00 18.51 935 17.31 1996-97 41.90 60.50 25.60 180 18.51 935 17.31 1996-97 84.40 37.00 31.20 55.20 32.60 (7)Petroleum products 1991-92 1996-97 84.40 37.00 31.20 55.54 956 33.97 (8)Other goods 1991-92 1996-97 - 35.54 956 33.97 (9)Rail materials(excluding coal) 1991-92 - 20.00 160 3.20 (9)Rail materials(excluding coal) 1991-92 - 22.50 170 3.60 Total: 1991-92							
1991-92		1996-97	294 00	61 00	179.40	670	120.20
1991-92	/2×=-						
1996-97 32 00 45 00 14 40 580 8.40	(3)11		22 00	40.00	12.76	5 4 6	6 07
(4) Cement 1991-92 76.00 76.0							
1991-92 53.00 57.00 30.49 725 22.11 1996-97 76.00 55.00 41.80 660 27.60 (5) Foodgrains 1991-92 178.80 15.20 27.14 1363 36.98 1996-97 210.00 15.50 32.60 1400 45.60 (6) Fertilizers (Materials) 1991-92 29.40 63.00 18.51 935 17.31 1996-97 41.90 60.50 25.30 900 22.80 (7) Petroleum products 1991-92 60.90 42.00 25.62 591 15.13 1996-97 84.40 37.00 31.20 50.00 (8) Other goods 1991-92 -		1550 57	32 00	15 00	., ,,	300	0.40
1996-97 76.00 55.00 41 80 660 27.60	(4)Ce	ment					
(5) Foodgrains 1991-92 178.80 15.20 27.14 1363 36.98 1996-97 210.00 15.50 32.60 1400 45.60 (6) Fertilizers (Materials) 1991-92 1996-97 29 40 63 00 19 51 935 17 31 1991-92 1996-97 84 40 37 00 31.20 (8) Other goods 1991-92 1996-97 29 40 63 00 25.62 1996-97 84 40 37 00 31.20 (5) 20.30 (8) Other goods 1991-92 1996-97 20 35.54 1996-97 20 40 32.00 1991-92 1996-97 20 100 160 3.20 20 1996-97 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 1996-97 20 100 160 3.20 20 100 100 100 100 100 100 100 100 100 1							
1991-92 178.80 15.20 27.14 1363 36.98 1996-97 210.00 15.50 32.60 1400 45.60		1996-97	76.00	55.00	41 80	660	27.60
1991-92 178.80 15.20 27.14 1363 36.98 1996-97 210.00 15.50 32.60 1400 45.60	/E) to	odaya					
1996-97 210.00 15.50 32.60 1400 45.60	(5)10		178.80	15 20	27.14	1363	36.98
(6) Pertilizers (Materials) 1991-92 29 40 63 00 18 51 935 17 31 19°6-97 41 90 60 50 25 30 900 22 80 (7) Petroleum products 1991-92 60 90 42 00 25 .62 591 15 .13 1996-97 84 40 37 00 31 .20 50 20 30 (8) Other goods 1991-92 35 .54 956 33 .97 1991-92 1996-97 35 .00 975 34 10 (9) Rail materials (excluding coal) 1991-92 22 .50 170 3 .60 Total : 1991-92 22 .50 170 3 .60							
1991-92						*	
1946-97	(6) Fe						
(7) Petroleum products 1991-92 84 40 37 00 31.20 591 15.13 1996-97 84 40 37 00 31.20 591 15.13 25.30 20.30 (8) Other goods 1991-92							
1991-92 84 40 37 00 25.62 591 15.13 1996-97 84 40 37 00 31.20 50 20.30 (8) Other goods 1996-97 - 35.54 956 33.97 1996-97 - 35.50 975 34 10 (9) Rail materials (excluding coal) 1991-92 - 20.00 160 3.20 1996-97 - 22.50 170 3.60 Total: 1991-92 362.93 701 254.28		1996-97	41 90	60 50	25.30	900	22 80
1991-92 84 40 37 00 25.62 591 15.13 1996-97 84 40 37 00 31.20 50 20.30 (8) Other goods 1996-97 - 35.54 956 33.97 1996-97 - 35.50 975 34 10 (9) Rail materials (excluding coal) 1991-92 - 20.00 160 3.20 1996-97 - 22.50 170 3.60 Total: 1991-92 362.93 701 254.28	(7) Pa	troleum products					
1996-97 84 40 37 00 31.20 50 20.30 (8) Other goods 1991-92 -	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		60 90	42 00	25.62	591	15.13
1991-92 - 35.54 956 33.97 1996-97 - 35.00 975 34 10 1996-97 - 20.00 160 3.20 1996-97 - 22.50 170 3.80 Total: 1991-92 362.93 701 254.28							
1991-92 - 35.54 956 33.97 1996-97 - 35.00 975 34 10 1996-97 - 20.00 160 3.20 1996-97 - 22.50 170 3.80 Total: 1991-92 362.93 701 254.28							
1996-97 35.00 975 34 10 (9)Rail materials(excluding coal) 1991-92 20.00 160 3.20 1996-97 22.50 170 3.60 Total: 1991-92 362.93 701 254.28	(8) Ot						
(9)Rall materials(excluding coal) 1991-92 - 20.00 160 3.20 1996-97 - 22.50 170 3.80 Total: 1991-92 362.93 701 254.28			-	-			
1991-92		1996-97	-	-	35.00	975	34 10
1996-97 - 22.50 170 3.80 Total: 1991-92 362.93 701 254.28	(9) R		g coal)		20.00	160	3 20
Total: 1991-92 362.93 701 254.28			-	_			
1996-97 443.40 718 318.50	Total						
		1996-9/			443.40	718	318.50

Abbréviations:
T.Q. = Transportable quinity
T.C. = Rail Transport coefficient
O.T. = Railway originating Traffic
TKms = Tonne kilometres

Table-5.8

Rail/Transport Coefficients - Proportion of Commodity Moved by Rail

Commodity	1980-81	1981-82	1982-83	1983-84	1984~85	1985-86	1986-87	1987-88	1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1986-87 1987-88 1988-89 1989-90 1990-91 1991-92 1992-93	1989-90	1990-91	1991-92	1992-93
1 2 3 4 5 6 7 8 9 10 11 12 13 14	2	3	4	9	vo	7		6	2 3 4 5 6 7 8 9 10 11 12 13 14	=	12	13	=
STEEL(Integrated steel **) 103.2 100.0 99.1 :01.2 90.7 100.2 101.1 99.8 89.9 92.6 94.8 92.2 PANT) 100.2 101.1 93.8 89.9 92.6 94.8 92.2 92.2 PANT) PANT) PANT (PANT) PANT) PANT	98	103.	2 100.	.66	1 101	1.06	100.2	101.1	98.3 103.2 100.0 99.1 :01.2 90.7 100.2 101.1 99.8 89.9 92.6 94.8	6.68	95.6	8.46	92.5
COAL(Which requires Transport)	73.	4.6	•	,	74.	4.5	13.1	73.5	73.7 "4.6 17. 75.7 "3.4 73.1 73.5 72.1	70.5	69.1	68.1	68.7
TRON OFE (E'PORT)	4.61	6.1	49.6 47.3 48.6 ,1.2 43.4 46.3	,1.2	43.4	46.3	51.5	45.9	45.9 41.5	41.5		40.4 43.2	47.2
CEMENT	4	L	, A	ņ		10 10		6.53 (4.52 E-14 5.13 64.1) 66.5	58.9	6.65	59.2	5.65	55.6
FOOD GRAINE	.4.1	15.7	.4.1 15.7 19 6 16.1 .4.4 16.1 2.2	1 41	7	91	ci.	21.4	14.6	13.8	14.3	16.2	15.0
FERTILIZERS	61.0	67.6	61,4 67,4 61,5 66,4	, 3	62	7	56.4	67.4	43.6	65.9	9.99	62.8	63.7
POL PRODUCTS 47.6 \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4.6	1.87	6 17 9	X	9:	42.5	63.3	44.5	47.6 \ 52. 47.9 1×,4 26 42.5 43.9 44.5 43.8	44.0	44.0 43.6 44.3	44.3	42.8

Table 5.9
Projections of Demand For Electricity in Major Industry Groups: 1996-97

(Million Kwh)

s.	No. Consuming Industry Group	Projected Demand (1996-97)
0	1	2
1	Food products	3105.45
2	Textiles	12631.61
3	Paper & paper products	4822.50
4	Rubber, plastic, petroleum & coal products	11444.16
5	Chemicals	1 9 166.97
6	Non-metallic mineral products	12130.75
7	Basic metals & alloys	33702.60
8	Machinery industries	4895.70
9	Electrical machinery industries	158.52
10	Transport equipment	762.00
	Total: Major Industries Groups	102820.26

Table 5.10 Material Balance for Electricity: 1991-92 & 1996-97

	(In Bi	llion Kwh)
	199 1-92	1996-97
1. Consuming Sectors:		
(i) Major Industries	74.93	102.82
(ii) Other Industries	37.€7	52.18
All Industries (i+ii)	112.60	155.00
(iii) Domestic Consumption	34.12	65.46
(iv) Irrigation	53.48	76.00
(v) Commercial Consumption	12.15	18.33
(vi) Railway Traction	4.56	6.79
(vii) Public Lighting	1.87	2.85
(viii) Public Water-Works	4.02	6.36
(ix) Miscellaneous purpose	3.54	5.05
(x) All India Consumption	226.34	335.84
(i) to (ix)		
Consumption from utilities	204.54	308.84
3. Consumption from non-utilities	21.80	27.00
4. T & D losses	61.09	82.10
Energy available at Bus-bar	265.63	390.94
Import form other countries	1.43	2.00
7. Domestic availability at Bus-bar	264.20	388.94
8. Auxiliary losses : utilities	22.51	29.27
9. Generation: utilities	286.71	418.21
10.Generation: non-utilities	24.50	30.00
11.Auxiliary losses: non-utilities	2.70	3.00
12.Net availability: non-utilities	21.80	27.00
13.Gross Generation	311.21	448.21

87

CHAPTER-6 TRADE SUB-MODEL

This chapter describes the methodologies adopted for the projections of exports and imports for the Eighth Plan period, 1992-97. It is stipulated that foreign savings, during the Eighth Plan, in terms of the ratio of current account deficit to GDP would be reduced from 2.38 per cent on an average for the Seventh Plan period (1985-90) to an average of 1,60 per cent during the Eighth Plan. In order to achieve this goal, the Plan postulates that exports in volume terms would grow at 13.6 per cent per annum during the Eighth Plan as compared to 8.1 per cent recorded during the Seventh Plan. At the same time, imports have been projected to increase at a much Severith Fall. I he same time, imports have been projected to inclease at all mover rate of 8.4 per cent during the Eighth Plan as compared to 10.0 per cent in the Seventh Plan (Table 6.1). The ratio of exports to GDP is postulated to rise from 7.0 per cent in 1991-92 to 11.0 per cent in 1996-97. The average ratio of exports to GDP would substantially increase to 9.60 per cent for the Plan period, as compared to 5.21 per cent in the Seventh Plan. The ratio of imports to GDP is expected to increase from 10.7 per cent in 1991-92 to 12.2 per cent in 1996-97. The average ratio of imports to GDP works out to 11 62 per cent during the Eighth Plan as compared to 8.33 per cent in the Seventh Plan. The elasticity of imports to GDP would decline from 1.7 estimated for the Seventh Plan to 1.5 during the Eighth Plan. The average ratio of trade deficit to GDP is thus expected to decline to 2 02 per cent during 1992-97 as compared to that of 3.13 per cent during 1985-90. The balance of payments (BOP) scenario envisaged for the Eighth Plan depends, therefore, very much on the growth of exports projected in the Plan. The projection of imports and exports in the plan period are made at 1991-92 prices

EXPORTS

Export projections for individual commodities and commodity groups adopted in the Plan are in the nature of feasible targets estimated on the basis of detailed analysis as well as certain general assumptions. The analysis included the following aspects:

- (i) the observed growth in exports in real terms in the recent past, 1986-87 to 1991-92,
 - (ii) the estimated elasticity of exports with respect to GDP,
- (iii) the physical limits for exports of certain commodities in the light of material balance studies, in particular, an assessment of the extent of surpluses available for exports after meeting the domestic demand requirements so that inflationary pressures do not build up in the economy;
- (iv) prospects of world trade in general and the possibilities for expansion of exports to the countries in the Asian, African and South and Latin American regions, including introduction of new products as well as exploring new markets; and
- (v) detailed econometric analysis of commodity exports at the disaggregated level using appropriate demand and supply functions.

The export projections are also based on certain general assumptions. First, it is assumed that the domestic producers would respond favourably to the recent changes in the industrial, trade, fiscal and monetary policies by expanding capacities for export production and also by competing effectively in the international markets. Secondly, it is assumed that infrastructural facilities such as power and transport, especially port and air shipment facilities, would expand adequately to match the growth in demand for such facilities. Thirdly, it is assumed that the domestic rate of

inflation during the Plan period would remain at a reasonably low level so as to mathtain the price-competitiveness. Fourthly, it is also assumed that exchange rate adjustments would take place as and when required.

Export projections at the level of individual commodities and commodity groups are based on certain perceptions about the world markets in general and the potential for expanding export, in particular. The export potential in the medium as well as long term has been evaluated keeping in view the natural resource base and the country's comparative advantage in labour- intensive manufacturing and processing activities. Export projections at the disaggregated level in terms of commodity groups have later been fed into the Input-Output model for verifying their consistency with the domestic demand and production profile and the projections have been adjusted, wherever necessary, in order to ensure consistency with the economy-wide projections obtained from the Input-Output model.

In the light of the above analysis, it is postulated that exports would grow at the rate of 13.6 per cent per annum in volume terms during the Eighth Plan period from Rs.44292 crores in 1991-92 to Rs.83869 crores in 1996-97 (Table 6.2). Total exports over the five years of the Plan, 1992-97, are placed at Rs.330153 crores. Exports of manufactured goods would account for Rs.250800 crores comprising of 76 per cent of the total exports, while exports of agricultural and allied products would amount to Rs.50235 crores, a little over 15 per cent of the total exports. The changes in the structure of exports over the Plan period clearly reflect the strategy for export growth envisaged in the Plan Exports of manufactured goods in the Eight Plan are expected to grow at the rate of 15.0 per cent per annum as compared to that of 13.6 per cent in overall exports. Exports of manufactured goods would increase from Rs.32384 crores in 1991-92 to Rs.65114 crores in 1996-97, while its share in total exports would rise from 73.1 per cent in 1991-92 to 77.6 per cent in 1996-97 implying an increase of 4.5 percentage points. Within the manufacturing sector, the objective is to achieve accelerated growth in labour intensive manufacturing activities such as textiles and textile products (e.g., readymade garments and coir manufactures) and handicrafts (e.g., gems and jewellery). Moreover, it is also perceived that the prospects of growth in world demand in respect of these items would be much better in the near future. Over the five-year period, 1992-97, textiles and textile products would account for 24.3 per cent of the total exports, while handicrafts would amount to 20.1 per cent.

Exports of agricultural and allied products are expected to grow at 9.4 per cent per annum during the Plan period from Rs. 7700 crores in 1991-92 to Rs. 12064 crores in 1996-97 The share of these exports in total exports would decline from 17.4 per cent in 1991-92 to 14 4 per cent in 1996-97, mainly to make room for the rise in the share of manufactured exports mentioned earlier. However, it is postulated that exports of processed agricultural products such as marine products, meat products as well as other processed food products like processed fruits and juices would increase at a faster rate as compared to traditional agricultural exports such as tea, coffee, spices, tobacco, etc., which have a relatively lower income elasticity of demand as compared to processed food products. It is also expected that there would be exportable surpluses of rice and sugar which would help to accelerate the growth in exports of these items during the Plan period. Furthermore, the projections take into account the possibilities of higher unit value realisation in respect of certain items of exports due to changes in product mix, improvement in quality and packaging, etc. The changes in the structure of exports both at the group and commodity level indicate that the export projections are consistent with domestic resource cost in respect of many items. The export basket would consist more of labour-intensive (and less capital and energy-intensive) commodities.

IMPORTS

Import projections for the Eighth Plan have been made essentially on the basis of the import coefficient matrix of the Input-Output model. The import coefficient matrix, which was originally constructed using past data on import flows, has

been updated for the base year imports and prices. Certain coefficients in the import coefficient matrix have been projected for the terminal year of the Plan bin the basis of information contained in the report of the Working Group on imports as well as other reports and studies. In this context it may be pointed out that with a view to overcome the severe BOP crisis faced by the country in 1991-92, the base year of the Eighth Plan vanous measures were undertaken to reduce the volume of imports. As a result actual imports in 1991-92 were quite low as compared to the trends in the previous years. Nevertheless it would not be correct to presume that the measures of import compression and the resulting cut in actual imports should have necessarily led to a reduction in the use of imported inputs in different industries. because it is quite plausible that some part of import requirements would have been met through depletion of inventiones but through imports in the previous years. This is most likely to be the case in respect of many items of canalised imports where the agencies concerned invanably carry certain level of inventions. Hence it was considered appropriate to estimate the normalised level of imports for the year 1991-92 for use as the base for projections over the Eighth Plan period.

Import projections obtained through the Input Output model have been cross checked with other independent studies. Econometric studies have been carried out using time series data to estimate the relationship between imports and the GDP Overall import eliasticity as well as elasticities for specific commodify sectors with respect to growth in GDP have been estimated and these have been used to cross check the import projections. Imports have been estimated separately for intermediate uses consumption and investment purposes.

Import projections broadly fall into three categones. The first category of imports consists mainly of what are known as bulk items. These cover eight commodity groups viz. crude oil and petroleum products fertilisers and fertiliser raw materials steel non ferrous metals coking coal newsprint and contingency imports such as cereals pulses and edible oils. The second category includes all other items which are under the Open General Licence (OGL) as well as other miscellaneous imports under licenses. The thrift category relates to imports which are not covered in the trade data of the Directorate General of Commerce al Intelligence and Statistics (DGCIS) but which are reflected in the Balance of Payments data compiled by the Reserve Bark of India.

The estimates of bulk imports have been made on the basis of the demand and supply projections for individual items contained in the material balance studies for selected commodities. The methodology adopted in these studies for vanous items differ from each other and has beard discussed in detail in the chapter on industry. Sub Model. Binefly supply projections have been made on the basis of detailed exercises relating to capacity utilisation and creation of fresh capacities through projects under construction and new projects. Demand requirements have been estimated based on their use as intermediate input in the vanous sectors of the economy and also their demand for final use. In the case of essential consumer items such as cereals pulses deble oils sugar etc. their demand requirements have been estimated and the gaps between production and demand have been taken as import requirements. These imports have been shown as contingency imports amounting to Rs. 7000 crores during the Plain period. In respect of some commodities the projected levels of production have been found to be in excess of domestic demand and such excess supply have been considered to be available for exports.

The second category consists of heterogenous items imports of some items in this group have been projected on the basis of their relationship with the growth of GDP while for some other items it he projections are based on the recommendations of Working Group on imports. Imports of capital goods have been projected on the basis of its relationship with capital formation while the special import needs in sectors like off-shore drilling telecommunications space and other technology intensive areas have been separately taken into consideration. Imports amounting to Rs. 55125 correshave been shown as "Statistical Adjustments". These include mainly government

imports including defence imports. Such imports have been projected on the basis of past trend.

The level and structure of imports envisaged in the Eighth Plan are based on certain general assumptions. These are as follows

- (i) The balance of payments position would continue to be under strain during the Eighth Plan period. However imports of essential items would not be affected. The import requirements of the industrial sector would also not be affected due to the continuing reforms in the industrial trade and fiscal policies.
- (ii) Necessary policy measures would be taken up to reduce the growth in consumption of crude petroleum and its products
- (iii) Contingency imports would be kept at around Rs 7000 crores at 1991-92 prices as envisaged in the Plan $\,$
- (iv) Imports of miscellaneous items would continue to be at around the same level as reflected by their share in total imports in the past, and
- (v) Finally and most importantly greater flow of direct foreign investment envisaged in the Plan would help in financing the imports of machinery and capital goods at a larger scale

As mentioned earlier imports are expected to increase at an annual rate of 84 per cent from normalised level of Rs 62345 crores in 1991-92 to Rs 93314 crores in 1996-97 (Table 63). Total imports over the Plan period 1992-97 would amount to Rs 399550 crores. Bulk imports would account for Rs 135895 crores representing 34 0 per cent of the total imports. Within bulk imports crude petroleum and products would account for Rs 74660 crores (18 7 per cent of the total imports). While fertilisers and fertilisers raw materials would amount to Rs 34474 crores (8 6 per cent of the total imports). The remaining items of bulk imports including contingency imports would emount for 97 per cent of the total imports. Imports of capital goods i emachinery and transport equipment over the Plan period have been projected at Rs 106140 crores representing 26 6 per cent of total imports. The imports of precious and semi precious stones (mainly intended for processing and re exports) amounting to Rs 40446 crores account for 10 1 per cent of the total imports. The structure of imports delineated in the Eighth Plan indicates that the major share of import requirements is accounted for by the following broad categories. (i) energy imports (ii) commodity imports which are highly energy intensive (e.g. fertilisers). (iii) commodity imports which are meant for further processing and re exports (e.g. precious and semi precious stones).

ne growth

Table-6.1
Balance of Payments Scenario in the Eighth Plan: 1992-97

S.No. Item		Seventh	Eigl		
		Plan 1985-90 (average)	1991-92		1992-97 average)
0	1	2	3	4	5
		(As per cer	t of GDP	at 1991-9	2 prices
1.	Exports	5.21	7.60	11.00	9.60
2.	Imports	8.33	10.70	12.20	11.62
3.	Trade Deficit	3.13	3.10	1.20	2.02
4.	Invisibles (net)	0.75	0.60	0.30	0.42
5.	current Account Deficit	2.36	3 2.50	0.90	1.60
6.	Rates of Growth in volume Terms: (per cent per annum)				
(1)	Exports	8.10	- (-	13.60
(ii)	Imports	10.00	- 0	-	B.40
7.	Import Elasticity (with respect to GDP)	1.70	-	-	1.50

Table-6 2
Export Projections in the Eighth Plan

		(R	s. crores	at 1991-	92 prices)
	o. Commodities/Groups	1991-92 (P)		Growth	1992-97
	0 1	2	3	4	5
Ι.	Agricultural & Allied Products	7700	12064	9.4	50235
1.	Tea	1132	1324	3.2	6224
2	Coffee	310	342	2.0	1646
3.	Tobacco (Manufactured & Unmanufactured)	377	450	3.6	2099
4.	Oll Cakes	871	1250	7.5	5437
5.	Spices	370	447	3.9	2074
6.	Cashew Kernels	668	1047	9.4	4410
7.	Raw Cotton	316	3 23	. 9 4	1600
8.	Rice	755	1127	8.3	4831
9.	Marine Products	1374	2077	8.6	8863
10.	Meat and Meat Preparations	231	354	8.9	1503
11.	Misc. Processed Foods	332	700	16.1	2654
	(incl. processed fruits & juices)				
	Fruits & Vegetables	349	5 73	10.4	2373
	Sugar & Mollases	144	1100	50.2	2861
14.	Unclassified items	471	950	15.1	3660
	Ores and Minerals	2280		3.1	
	Iron Ore	1432		0.0	7000
2.	Mica,Coal & other Ores & Processed Minerals	848	1262	8.3	5416

Contd.

Table-6.2 (contd.) Export Projections in the Eighth Plan

(Rs. crores at 1991-92 prices)

s.N	o. Commodities/Groups	(P)		Rate of Growth (percent)	1992-97
0		2	3	4	5
	.Manufactured Goods				
1.	Cotton Varn Pahrage (Manufactures	2200	E006	10.0	23456
2.	Readymade Garments	5411	11552	16.4	43633
3.	Readymade Garments Natural Silk Yarn, Fabrics, made ups, etc.	347	617	12.2	2483
4.					5427
	Woolen Yarn, Fabrics 6 made ups, etc				
6.	Jute Manufactures	388		8.7	
7.	Coir and Manufactures	70		16.5	
8.	Carpet mill-made	235	387		1601
	Sports Goods	108	177	10.4	733
	Rubber Manufactured Products		746	19.6	2693
11.	Glass, Glassware, Ceramics, Refractories Cement, etc.	s, 153	600		1868
12.	Leather and Leather Manufactures	3076	5463	12.2	21995
13.	Engineering Goods	5107	10277	15.0	39611
	Chemicals and Allied Products	3897	7810	14 0	30144
15.	Handlcrafts	8346	17455	15.9	
(a)	Gems and Jewellery			16.8	
(b	Carpets handmade	1000	1546	9.1	6543
(c	Works of Art			15 2	
16.	Unclassified items	836	1961	18.6	7176
ĪV.	Petroleum Crude and Products				
v.	Others		1075		
VI	Total I-V (DGCI&S)	43424	82255	13.6	323759
		(43828)	(82255)	(13 4)	
VII	.Statistical Adjustment	868	1614	13 2 13 6 (13.4)	6394
	Total Exports	44292	83869	13 6	330153
	=	(44696)	(83869)	(13.4)	
	Total Exports in U S Dollar (Million)	17720	33548	13.6	132061

N.B.:(i) P = Provisional

(ii) * - State actual exports are nearly Rs 400 crores more than the provisional estimate of exports, the residual works out to Rs 38 crores only, which otherwise should be around Rs 450 crores

Figures in brackets are provisional exports. (iii)

Table-6.3 Import Projections in the Eighth Plan

(Rs. crores at 1991-92 prices) ...-----1991-92 1996-97 Rate of Total S.No. Commodities/Groups growth 1992-97 (percent) (P) Growth ______ 3 4 I. Selected Bulk Imports 22198.2 02550.2 8.0 135895 (21834.2) (32550.2) (8.3) 1. Crude Oil and Petroleum Products 13129.5 17300.1 74660 5.7 (a) Crude Oil 7868.6 4407.6 10.9 28160 5260.9 12892.5 4500.0 8988.6 (b) Petroleum Products 46500 34474 19.6 2. Fertilisers (manufactured and 14.8 raw materials) 2025.8 4757.8 2474.2 4230.8 (a) Fertilisers (manufactured) 18.6 17403 (b) Fertiliser (raw materials) 11.3 17071 (1)Sulphur 348.9 900.9 (1)Rock Phosphate 494.0 1110.1 (11)Rock Phosphate 494.0 1110.1 (11)Rock Phosphora Acid 1360.7 1522.6 (1V)Anhydrous Aumonia 270.6 697.2 3. Fainshed Steel, Tool, Alloy and 1540.2 1760.3 20.9 3194 17.6 4121 2.3 7283 20.8 2473 2.7 8312 Special Steel (a) Finished Steel 1255.0 1255.0 0.0 6275 285.2 505.3 803.0 1193.6 (b) Tool, Alloy and Special Steel 12.1 2037 4. Major Non-Ferrous Metals 5065 8.3 (a) Aluminium 9.3 49.6 39.8 141 (b) Copper 642.0 890.7 6.8 3923 85.8 304 (c) Zinc 33.0 21.1 (d) Lead 37.9 7.6 27.5 79 26.8 40.2 54.0 119.7 (e) Tin 40.2 172 8.4 (f) Nickel 17.3 446 1036.3 516.3 13.0 341.0 791.3 18.3 Coking Coal 3477 Newsprint 2907 48.2 -800.0 2000.0 7. Synthetic & Regenerated Fibres Contingency Imports - Cereals, 20.1 7000 Cereal Preparations, Pulses, (436.0) (2000.0) (35.6) Vegetable Oils and Fats * II. Others 31546.8 47892.8 8.7 208630 (25965.8) (47892.8) (13.0) 1. Machinery & Transport Equipment 16200.0 25098.0 9.2 (11435.0) (25098.0) (17.0)2. Precious and Semiprecious Stones 5500.0 10200.0 13.1 40446 (4822.0) (10200.0) (16.2)Chemicals (excluding fertilizers, 2.7 2519.0 2200.0 11620 fertilizer raw materials, artificial resins and plastic materials) @ 4. Artificial Resins and Plastic 1403.0 700.0 13.0 4711 Materials 5. Iron & Steel Scrap 800.0 1800.0 17.6 6680 6. Wood & Timber 418.5 693.0 4706.3 7201.8 10.6 2861 7. Miscellaneous Items 8.9 36172 (4568.3) (7201.8) (9.5) III. Total Imports (I+II) 53745.0 80443.0 8.4

(DGCI&S)

Contd.

(11.0)

(47800.0) (80443.0)

Table-6.3 (contd.) Import Projections in the Eighth Plan

(Rs. crores at 1991-92 prices)

			(pe	rcent)	
)	1	2	3	4	5
W. Sta	tistical Adjustment 80	8600.0	12871.0	8.4	55125
J. Gra	nd Total (III + IV) @@@	62345.0 (51700.0)	93314.0	8.4	399650
	al Imports in Dollar (Million)	29438.0 (20860 0)	37325.6 (37325.6)	8.4 (12.5)	159860

- actual imports P = Provisional
- P = Provisional
 Represents notional amount
 B pata are not comparable with DSC163 because a sizeable proportion
 is included under fertiliser raw mai r: | ls

 The difference between RBI's Balance Payments data and
- DGC16S figures on merchandise trade
- 000 Assumed normalised imports

CHAPTER-7 CONSUMPTION SUB-MODEL

The consumption expenditure of the population for different goods and services are generated in the consumption sub-model. The estimates of private consumption are worked out separately for rural and urban areas and within each area for poor and non-poor group of the population. The item-wise consumption estimates for these four groups of population are added to arrive at consumption expenditure for the entire population, which is used in the input-output model. This chapter describes the estimation procedure of private consumption expenditure in base and termin final year of the plan.

The private consumption vector for the base year of the Plan (1991-92) at purchasers prices i.e. prices inclusive of indirect taxes net of subsidies, and trade and transport margins has been generated by the consumption sub-model using aggregate private consumption for 1991-92 at current prices. The aggregate private consumption estimate of 1991-92 has been forecasted from the actual estimate of private consumption obtained from the estimates upto the year 1989-90 made by the Central Statistical Organisation in its National Accounts Statistics. The aggregate private consumption for the year 1991-92 is then bifurcated into rural and urban components on the basis of per capita consumption expenditure differential between the two segments of population as obtained from the consumer expenditure survey of National Sample Survey Organisation (NSSO). The per capital consumption expenditure differential between rural and urban areas for 1991-92 has been set on the basis of its past trend. The sectoral private consumption, separately for people below and above the poverty line in rural and urban areas have been derived first, on the basis of a linear expenditure system (LES) for 11 broad groups of commodities and services. Then within each LES group, the consumption expenditure has been estimated for a number of items using consumer demand functions. This way, the private consumption expenditure of different commodities and services are estimated separately for the above four groups of population. The sectoral consumption of the above four groups of population are added to obtain the sectoral consumption for the country as a whole These estimates of consumption are expressed in terms of purchasers prices, i.e., it includes indirect taxes net of subsidies and trade and transport margins of the commodity concerned. The vector of consumption at market pices is obtained by netting out the trade and transport margins from the consumption expressed at purchasers prices. The trade and transport margin rates are determined exogenously.

The final demand vectors of private consumption have been generated for the base (1991-92) and the terminal year of the Plan (1996-97) as well as for the perspective period. The methodology behind generation of private consumption vector is out ined below.

The aggregate private consumption obtained from macro economic projection articulated through the macro model is divided into rural and urban areas using the following relations.

$$C = C_r + C_u$$
 (1)
 $\overline{X}_r = C_r / 12 P_r$ (2)
 $\overline{X}_u = C_u / 12 P_u$ (3)
 $\overline{X}_u = b \overline{X}_r$ (4)

where.

C = Total private consumption as given in macro model

C_r = Total private consumption in rural areas

Cu= Total private consumption in urban areas

 \overline{X}_r = Monthly per capita total private consumption in rural areas

Xu= Monthly per capita total private consumption in urnan areas

Pr = Population in rural areas

Pu = Population in urban areas

b = Estimate of the ratio of per capita consumption in urban to that in rural areas.

The monthly per capita total consumption (x) is assumed to be distributed lognormally in both rural and urban areas.

The lognormal distribution function is specified as:

$$dF(x|\mu,\lambda) = \frac{1}{\sqrt{2\pi\lambda}x} - \exp[-\frac{1}{2\lambda^2} (logx-\mu)^2] dx - \dots (5)$$

where μ and λ are mean and standard deviation of log x of the distribution. For this distribution,

$$\mu = \log \bar{x} - 0.5 \lambda^2$$
(6)

Here \bar{x} is the mean monthly per capita consumption expenditure, which is \bar{x}_r in rural areas and \bar{x}_u in urban areas.

Using an exogenously determined poverty line (x), the percentage of people below the poverty line, considering the distribution function specified in (5) is estimated as:

where.

Ph = Percentage of people below the poverty line.

$$y' = (\log x' - \mu)/\lambda$$
(8)

x° = Poverty line, and

 φ = Normal distribution function with zero mean and unit variance.

The inequality parameter \(\) of the log normal distribution is estimated from the Lorenz ratio of monthly per capita household consumption expenditure distribution in rural and urban areas obtained from the NSS data, using the relation given in (9) below.

$$LR = 2 \omega (\lambda / \sqrt{2}) - 1$$
(9)

where LR = Lorenz ratio of the consumption expenditure distribution.

From (9),
$$\lambda = \sqrt{2}^{-*} \varphi^{-1} [(1 + LR)/2]$$
(10)

where φ^{-1} = Ordinate of the standard normal curve,

The aggregate mean per capita consumption in rural and urban areas are decomposed into poor and non-poor group of population within each area using (11) and (12) in the following way.

Average per capital consumption for people below the poverty line, i.e., for poor group of the population is estimated from (11)

where $x_p = per capita consumption of people below the poverty line (x)$

Average per capita consumption of people above the poverty line, i.e., for non-poor group of population is estimated from (12)

$$\bar{x}_{np} = \bar{x} [1 - \varphi(y^* - \lambda)] / [1 - \varphi(y^*)]$$
(12)

where \overline{x}_{np} = per capita consumption of people above the poverty line, i.e., for non-poor group of population.

By definition,

$$\vec{x} = \vec{x}_p \varphi(y^*) + \vec{x}_{np} [1 - \varphi(y^*)]$$
(13)

in general, the per capita consumption of a range of population (i,j) is estimated from the lognormal distribution specified in (5) as

$$x_{ij} = \frac{\overline{x} \left[\varphi \left(y_{j}^{*} - \lambda \right) - \varphi \left(y_{i}^{*} - \lambda \right) \right]}{\left[\varphi \left(y_{i}^{*} \right) - \varphi \left(y_{i}^{*} \right) \right]} \qquad(14)$$

where.

$$y_i^* = (\log y_i - \mu)/\lambda$$
 and

$$y_i^{\mu} = (\log y_i - \mu) / \lambda$$

The sectoral private consumption demand for people below and above the poverly line within each area are estimated separately. The estimation is carried out in two stages. First, the sectoral consumption demand is derived for people

below and above the poverty line, in rural and urban areas on the basis of a Linear Expenditure System (LES) comprising 11 groups of commodities and services. The LES parameteres are estimated separately for poor and non-poor group of population within rural and urban areas. Then in the second stage, a set of consumer demand functions estimated from National Sample Survey data on consumer expenditure are utilised to obtain the consumer demand for different commodities and services each for people below and above the poverty line in rural and urban areas. The independent estimates of sectoral consumption demand obtained from consumer demand functions and LES are found to differ. The difference in the consumption between the two sets of estimates are closed by adjusting the consumption demand obtained from consumer demand functions, pro-rata, to that obtained from the Linear Expenditure System within each LES group. The adjusted sectoral consumption demand of demand of propic below and above the poverty line in rural and urban area added to obtain the sectoral consumption demand at the aggregate leavels. This estimate of sectoral consumption demand within is at purchasers prices, are converted into market prices after netting trade and transport margins from it. The sectoral consumption demand at the aggregate leavel as a support margins from it. The sectoral consumption demand at the aggregate leavel into market prices after netting trade and transport margins from it. The sectoral consumption demand at market prices estimated from consumer demand functions and linear expenditure system are mapped into 60 sectors of the input-output model.

Consumer Demand Functions

The consumer demand functions are obtained by estimating Engel curves on application of single equation weighted least squares method, weights being proportion of population in each expenditure class, for commodities or commodity groups for which cross section household consumption expenditure data are available from National Sample Survey for the year 1983. The functional form is determined by relating per capita consumption expenditure of a commodity or commodity group to the aggregate per capita expenditure. In all, six forms of functions are tested to locate the best fit. The six forms are:

(a) Double Log : Log C1 = a + b log C

(b) Semi Log : C_i = a + b log C

(c) Log Log inverse : Log C₁ = a + b log C + d/C

(d) Log Inverse : Log C₁ = a + b/C

(e) Linear : C_i = a + b C

(f) Hyperbola : C_i = a + b/C

where.

Ci : monthly per capita expenditure of the i-th commodity.

C : monthly per capita expenditure for all commodities.

The best fitting Engel curves among these are chosen separately for each commodity and population group or the basis of their coefficient of determination adjusted for degrees of freedom and the form of function. In case of commodities for which data were too inadequate to estimate a demand function, aggregate consumption proportions have been used so that in such cases the demand is estimated from the relation.

C_i=bC

The Engel curves are estimated separately in rural and urban areas and within each area, separately for people below and above the poverty line

Linear Expenditure System (LES)

and q > c

Linear expenditure system is a complete demand system which is derived from the additive utility function. The utility function may be specified as

$$U(q) = \sum b_1 \log (q_1 - c_1)$$
 (15)
such that $\sum b_1 = 1$

Here q_i represents quantity consumed of the i-th commodity and b_i are marginal budget shares c's are sometimes interpreted as committed quantities. This interpretation is only suggestive and fails when any c_i is negative A negative c_i is, however, not inconsistent with theory

Maximising (15) subject to budget constraint

$$C = \sum p_i q_i \tag{16}$$

where p_i is the price of i-th commodity and C is the monthly per capita total expenditure incurred on vanous commodities or commodity groups

ne complete demand system (LES) obtained from above can be specified as

$$C_1 = p_1 q_1 = c_1 p_1 + b_1 (C - \sum c_1 p_1)$$
 (17)

The fulfilment of the second order condition of utility maximisation requires

p_i>0 for all i

which means absence of inferior commodities and

C > E CIDI

where C.= Monthly per capita expenditure on I-th commodity. As the LES can be derived from a utility function, it satisfies all the theoretical properties namely, adding up, homogeneity and symmetry of Stutisky substitution matrix.

By incorporating random disturbances in (12) LES can be specified as

$$p_{it}q_{it} = c_{i}p_{it} + b_{i}\left(C_{t} - \Sigma_{k} c_{k} p_{kt}\right) + e_{it}$$

$$t = 1, , n$$
(18)

such that

E(e) = 0

 $E(ee') = \Omega(+)1$

Since the adding up property implies that $\Omega=0$, Ω becomes singular and poses estimation problem. This is overcome by deleting one equation from the system. Without loss of generality we delete the last equation and formulate the likelihood function. Denoting the truncated residuals as ϵ_0 , b and Ω for ϵ_1 , b and Ω respectively, the likelihood function in logarithmic form can be written as,

$$L_{n}L=\ -\frac{1}{2}\ m(n-1)I_{n}2\pi\ -m/2I_{n}(\det\overline{\Omega}\)-\frac{1}{2}\ \Sigma\ t(e't\ \overline{\Omega}^{-1}\ e_{i})\(19)$$

The first order conditions of the maximum likelihood function entails non-linear equation in parameters and the estimates can be obtained only by applying iterative methods such as Gauss Newton, Newton Raphson methods. The solution vector does not yield the estimate for the last b, i.e. b_n , which is obtained from the relation,

 $\Sigma b_i = 1$

The performance of the model is judged by computing

$$R_i^2 = 1 - \sum e_{it}^2 / \sum_{t} (V_t - \overline{V_i})^2 \dots \dots (20)$$

Where, V₁ is average expenditure of i-th commodity. It can also be judged by using Thiel's average information inaccuracy given by,

$$\pi = 1/m \sum_{i} \sum_{t} W_{it} \ln (\hat{W}_{it} / W_{it}) \qquad(21)$$

The LES parameters have been estimated from the time series of cross section data generated from the National Sample Survey on consumer expenditure relating to the rounds 24th (1969-70) through 28th (1973-74), 32nd (1977-78) and 38th (1983) using Gauss Newton maximum likelihood procedure. Commodity group price indices with 1969-70 as base have been compiled from the wholesale price indices available from the Office of the Economic Adviser, Ministry of Industry. Separate weights, based on the NSS 32nd round consumer expenditure data, have been used for rural and urban areas.

Adjustment of Parameters of LES and Engel/Demand Functions

The estimated parameters of LES and of Engel/Demand functions are adjusted in such a way that the private consumption vector for 60 sector input-output table of the base year (1991-92) generated by these functions agree with the one independently estimated by commodity flow approach, i.e., that obtained from National Accounts Statistics. The procedure adopted is:

(i) The aggregate private consumption of the base year of the plan (1991-92) is first bibricated into rural and urban components using (1) to (4) and then each into two parts, for people below and above the poverty line, using (5) to (10). This, inter-alia, assumes that monthly per capita private consumption in 1991-92 follows a lognormal distribution with the mean consumption as derived from the macro

the plan

model and the inequality parameter as estimated from the NSS data on consumer expenditure of 43rd round (1987-88)

(ii) Using the monthly per capita total consumption in rural and urban areas and within each area for people below and above the poverty line, obtained from (i) and the adjusted LES and consumer demand functions, the sectoral private consumption is estimated

and urt>an

- (iii) The coefficients of demand functions/Engel curves derived from NSS data of an earlier year are used for projection of consumption demand after updating the same to the prices prevailing in the base year (1991-92) of the Eighth Plan, for use in the consumption model. The parameter estimates based on the NSS data have been updated for 1991-92 prices using the relations outlined in (a) to (f) below
 - (a) Double Log

b' = b'

(b) Semi Log

$$a' = aPC_1 - bPC_1 (log PC)$$

b' = b PCi

(c) Linear and Proportion

$$b' = b PC/PC$$

(d) Log inverse

$$a' = \log PC_1 + a$$

(e) Log log inverse

$$d' = PC d$$

(f) Hyperbola

a' b' and d' : Parameters at 1991-92 prices

a b and d : Parameters at 1983 prices

PCi = Price relative of commodity i for 1991-92 vis-a-vis 1983

PC: Overall Consumer Price Index in 1991-92 vis-a-vis 1983

- (iv) Using the monthly per capita total consumption obtained as in (i) and the LES demand function, the LES estimate of the total private consumption for eleven groups of commodities are estimated.
- (v) The private consumption of various commodities and services belonging to each LES group are estimated by their respective consumer demand functions. These estimates are pro-rata adjusted to the corresponding consumption demands estimated by LES in (iv). The sectoral estimate of private consumption is then grouped into 60 sectors of the input-output model. The sectoral estimates of private consumption are compared with those estimated by the commodity-flow method and are suitably adjusted so that the percentage difference of the two sets of estimates does not generally exceed 10 to 15 per cent. The private consumption vector of 60 sectors obtained in this way, is used for the base year input-output table. It is also used to adjust the parameters of LES and demand functions. For this purpose, private consumption of the 60 sectors of input-output table are first aggregated to 11 LES groups. Using these final estimates of LES groups as row control and the aggregate rural and urban private consumption derived from the macro model as adjulgate rula and under invite cursing incomplication of the 11 LES groups are column controls, estimates of rural and urban consumption of the 11 LES groups are adjusted by RAS method. This yields the balanced rural and urban consumption vector of LES groups. A similar iterative procedure is used to balance the consumption for people below and above the poverty line within rural and urban areas, using the balanced consumption of these areas obtained earlier. The balanced sectoral consumption obtained for rural and urban areas and within each area for people below and above the poverty line, are used to adjust the parameters of the Linear Expenditure System in the following way.
 - (a) The parameter a, is adjusted to :

 $\vec{a}_i = a_i \vec{C}_i / C_i$

where C₁ = original estimates of consumption by LES and

Ci = Adjusted estimate

(b) The parameter b₁ is adjusted to

$$\widetilde{\mathbf{b}}_{i} = (\overline{\mathbf{C}}_{i} - \overline{\mathbf{a}}_{i})/\Sigma(\overline{\mathbf{C}}_{i} - \overline{\mathbf{a}}_{i})$$

where
$$\Sigma C_i = \Sigma \overline{C_i} = C$$

a, and b, are the adjusted a, and b, respectively

(vi) The parameter estimates of consumer demand functions for rural and urban areas and within each area for people below and above the poverty lime have been adjusted in a similar way. The estimates of consumption demand for rural and urban areas obtained by the respective consumer demand functions for different sectors comprising each LES group have been first adjusted by RAS method using the sectoral private consumption as row control totals and rural-urban totals of the paracular LES group as column control totals RAS method has been used to ensure consistency in the aggregate private consumption obtained through LES with that obtained independently from commodity flow approach. A similar approach has been followed to work out sectoral demand estimates within a LES group for people below and above the poverty line separately for rural and urban areas.

Using these adjusted demand for each commodity the corresponding parameters of the Engel curves of the commodity have been adjusted in the following way

Using C_i as the original estimates and \overline{C}_i as the adjusted estimate of demand of the commodity the parameters of consumer demand functions are adjusted in the following way

(a) Double Log Log Inverse and Log Log Inverse

$$a = a + \log (\overline{C}_{UC})$$

b = b

and d = d in case of log log inverse

(b) Other functions

$$a = a \overline{C}/C$$

and
$$b = b(\overline{C}/C)$$

where a b and d are adjusted parameters

These adjusted demand function parameters in (VI) and LES parameters in (v) are utilised to project the commodity demand for terminal year (1996 97)

The Facets of Consumption

The consumption model besides depicting the consumption behaviour of different sections of the population quantifies the extent of the improvement in level of living as a result of increase in per capita consumption expenditure and reduction in the disparity of consumption expenditure between different income classes of the population. The model sets the pattern of consumption in rural and urban areas and within each area for people below and above the poverty line as well as for different fractiles of the population.

The model uses an exogenously determined poverty line (expressed in terms of monthly per capital consumption expenditure of the population) to delineate two groups in population i.e. the poor and the non-poor. The inequality in the distribution of consumption among different expenditure groups in rural and urban areas used in the model are assessed from the NSS data on consumption expenditure distribution. The poverty line and inequality parameters used in the model are given in Table-7.1 The poverty ratios expressed as percentage of people in poverty to total

population in rural and urban areas as well as for the country as a whole, for base and seminal year of the plan are estimated on the assumption of lognormality in the distribution of per capita consumption. These are given in Table-72. The monthly per capita consumption for poor and non-poor group of population in rural and urban areas for base and terminal year of the plan area given in Table-7.3. The changes in consumption expenditure during the plan period suggest a relatively higher growth in per capita terms in rural areas as compared to urban areas. The eighth plan projects a relatively higher growth in per capita consumption by 3.61% per year in rural areas as compared to 2.54% per year in urban areas. This will help in closing, however marginally, the per capita consumption expenditure differential between rural and urban segments of the population. Per capita consumption for the country as a whole is projected to increase by 3.42% per year in the Eighth Plan. The increase in per capita consumption of non-poor group of population during the plan period is marginally higher as compared to the poor group as the incidence of poverty reduces from 21% in the base year to 10% in the terminal year of the plan at the background of relatively higher growth in consumption of hose in the second decile.

The trend in the share of consumption for different deciles of the population separately for rural and urban areas are estimated in Table-7.4. It shows that: (a) the consumption shares in the lower deciles have increased while that in upper deciles have reduced, (b) the rising or falling trend in the consumption shares has been much sharper after mid-1970s, and (c) inter-temporal changes in the consumption shares have largely been witnessed in rural areas since, the mid-1970s whereas the urban areas have remained insulated from such changes. These trends in the fractile-wise share of consumption are reflected in the trend of the quantitative index of inequality in consumption distribution estimated in Table-7.5. It shows significant decline in the overall index of inequality in the consumption expenditure distribution in rural areas since the mid-1970s. The above decline in inequality in consumption expenditure distribution in rural areas may be associated with public intervention programmes in the area of rural poverly allevation.

Keeping the above in view, the Eighth Plan proposes to raise the share of consumption for lower deciles of the population in both rural and urban areas. The decile-wise share of consumption in base and terminal year of the plan are given in Table-7.6. It shows increase in the share of consumption for people upto the seventh decile in both rural and urban areas during the plan period. It also shows that the rate of increase in the consumption shares are relatively higher in lower deciles.

The per capita consumption of different deciles of the population in base and terminal year of the plan and its growth during the plan period are given in Table-7. The increase in per capita consumption of different groups of population during the plan period different groups of population during the plan period shows a faster rise for the people in lower deciles as compared to those in the upper deciles. For example, the per capita consumption expenditure of bottom 30% of the population in rural areas is projected to increase at a rate of 5 38% per year during the plan period as compared to 2 71% per year for the top 30% of the population. Similarly, in urban areas, the per capita consumption of bottom 30% of the population is projected to increase by 4 75% per year as compared to 157% per year in case of top 30% of the population. This will reduce the disparity in consumption between the poorer segment of the population and the rest.

The structure of consumption for different groups of population in rural and urban area of the country in base and terminal year of the plan are presented in Table-7.8 and Table-7.9 respectively. The changes in the structure of consumption between base and terminal year of the plan generally shows a shift from tood to non-food items. It also shows a reduction in the share of foodgrain in food consumption, particularly of the poper group of the population in rural areas.

A comparison of the per capita consumption of poor 30% of the population with the total population in base and terminal year of the plan has been made. It

is because the poor 30% of the population generally lead a life which is not considered desirable from the point of view of adequacy and minimum level of living. The consumption scenario in the plan particularly of the poor 30% of the population in rural and urban areas, in a way, reflect the effectiveness of the plan strategy to benefit the relatively weaker sections of the society.

The assumption of lognormality in the distribution of per capita con-sumption in rural and urban areas, coupled with the exogenously determined poverty line shows that 21% of the total population are poor in 1991-92. The same assumption in the background of a little reduction in the inequality in expenditure distribution between base and terminal year of the plan coupled with the projected growth in average per capita consumption in the plan shows that the poverty ratio defined as a percentage of poor in total population will be 10% in 1996-97. However, the estimate of poverty ratio in 1996-97 and the consequent reduction in the incidence of poverty between the base and terminal year of the plan is based on two critical assumptions. These are: (a) the assumption of lognormality in the distribution of per capita consumption in rural and urban areas continue to remain valid until 1996-97 and (b) the extent of reduction in inequality in consumption expenditure distribution of the population between 1991-92 and 1996-97. The assumption of lognormality in monthly per capita consumption has been tested from the NSS consumption expenditure data of 43rd round which relates to the year 1987-88. Since then, it has not been possible to trace the nature of movement of per capita consumption expenditure and its consequent impact on consumption inequality. The increase in per capita consumption between 1987-88 and 1991-92, i.e., between 1987-88 and the base year of the plan and also the increase between the base and terminal year of the plan, i.e., between 1991-92 and 1996-97 may or may not be associated with distributional changes. It is rational to presume that high rate of growth of consumption would improve the distribution of consumption by reducing the disparity in per capital consumption between the poor and the non-poor. Besides, the Government intervention programmes in poverty alleviation which are specifically designed to increase the incomes of the poor through generation of productive assets are likely to act positively towards improvement of the consumption distribution pattern. It is because these incomes are supposed to accrue specifically to the poor group of the population and thereby will have a major impact on the improvement of income distribution. The extent of actual shift that takes place in the distribution as a result of increase in per capita consumption and of public redistributive programmes can only be known with the availability of NSS consumption expenditure data of a later year.

The changes in the distribution of income as a result of both growth and redistributive process may or may not allow the distribution of per capita consumption to remain a lognormal one. The heart of the matter is that the consumption growth in conjunction with income redistributive programmes such as, the Integrated Rural Development Programme (IRDP) and wage employment programmes, such as Jawahar Rojgar Yojana (JRY), etc. may change the pattern of distribution of consumption. It is not certain that the resultant distribution will remain lognormal. This prevents determination of the extent of inequality in the distribution of consumption in terminal year of the plan with enough precision. However, a general reduction in inequality in consumption expenditure is more likely to be the consequence of growth in per capital consumption due to general growth process and growth in per capita consumption of the poor as a result of the redistributive process. It is equally true that quantification of the extent of reduction in inequality and the pattern of distribution of consumption concommittant with reduction in inequality is extremely difficult, if not impossible. The problem is confronted here by assuming a ten per cent reduction in the inequality in distribution of per capita consumption in the terminal year of the plan as compared to the base year. For these reasons, the estimate of poverty in 1996-97 as 10% should be treated with caution. Attempts have been made in the earlier plans to assess the distributional impact of the public intervention programmes for poverty affectation. But, these efforts have posed more questions than they have answered. It is for this reason no attempt has been made in the Eighth Plan to separate the influence of income growth and distributional changes on the pattern of distribution of consumption of the population

and on the estimate of poverty. An indirect way to test the validity of the assumption of lognormality in the terminal year of the plan may be to compare the poverty ratio estimated from the lognormal distribution function with the poverty ratio estimated from a calibrated distribution of consumption expenditure of the NSSO. For this, NSSO Consumer Expenditure distribution of 1987-88 have been jacked up, pro- rata, by the increase in per capita consumption until 1996- 97. This, inter-alia, assumes identical increase in the per capita consumption of different fractiles of the population. The closenass in the two sets of estimates of poverty, i.e., from the calibrated NSS consumption distribution and lognormal distribution function conform the validity of the assumption of lognormality in the distribution of per capita expenditure in 1996-97. On the other hand, discrepancy in the two sets of estimates may put the assumption of lognormality into test. There are differences in the two estimates as can be seen from Table-7.10 which gives the poverty ratio from the two approaches. Moreover, this discrepancy will widen in case the impact of income redistributive measures arising from public intervention programmes in the area of poverty alleviation are taken into account. It is because the investment in IRDP generates income for the poor group of population. Besides, the rise in income as a result of wage employment programmes will affect the consumption expenditure distribution. Since wage employment programmes generate income for that particular year and not on sustainable basis, the increase in income between 1987-88 and 1991-92 and between 1991-92 and 1996-97 as a result of these programmes will impact on the consumption distribution exactly in the same way as the investment in IRDP.

The increase in consumption of the poor due to public intervention will have a far reacting impact on the consumption distribution pattern. The aggregate impact of public intervention programmes in the area of poverty alleviation is increase in per capita income of the poor. This is certain to change the pattern of expenditure distribution in the terminal year of the plan.

Table-7.1
Poverty Line and Inequality

S.No.	Rural	Urban
0 1	2	3
1. Poverty Line (Rs. at 1991-92 prices)	192.20	221.80
2. Lorenz Ratioa) 1991-92b) 1996-97	0.29826 0.26966	0.35369 0.32040
 Inequality Parameter of Log Normal Distribu a) 1991-92 b) 1996-97 	tion 0.54160 0.48744	0.64898 0.58408

N.B.: The inequality parameters in 1991-92 are based on the NSS data on household consumer expenditure distribution, 43rd Round, July 1987 to June 1988.

Table-7 2 Poverty Ratio

s.No.	Year	Rural	Urban	Total
0	1	2	3	4
 1.	1991-92	23.25	15.98	21,38
		(147.44)	(35.09)	(182.53)
2.	1996-97	10.88	8.24	10.15
		(73 55)	(21.27)	(94.82)

Figures in the parenthesis indicate number of persons (million) below poverty line.

Table-7.3

Monthly Per Capita Consumption Expenditure

(Rs. Monthly at 1991-92 prices)

S.No.		Rural	Urban	Total	
0	1	2	3	4	
1. 19	91-92				
a)	Poor	144.53	163.63	148.2	
b)	Non-Poor	386.97	590.56	442.93	
c)	Total	330.6	522.35	379.92	
2. 1	996-97				
a)	Poor	154.88	174.17	159.2	
		(1.39)	(1.26)	(1.44)	
b)	Non-Poor	424.1	629.75	482.15	
		(1.85)	(1.29)	(1.71)	
C)	Total	394.83	592.24	449.39	
		(3.61)	(2.54)	(3.42)	

Note: Figures in the parenthesis indicate annual average increase in per capita consumption during plan period.

Table-7.4 Consumption Share : Growth Rates

	Population		Rural			Urban		
8 . No	. Group -	1958-73	1977-91	1958-91	1958-73	1977-91	1958-95	
0	1	2	3	4	5	6	7	
1.	1st Decile	0.72	1.28	0.42	1.07		0.21	
2.	2nd Decile	0.97	0.98	0.31	0.69	-	-	
3.	3rd Decile	0.75	0.50	0.21	0.39	-	~	
4.	4th Decile	-	0.62	-	-	-	-	
5.	5th Decile	-	0.48	-	0.47	-	-	
6.	6th Decile	-	0.40	-	-	-	-	
7.	7th Decile	0.41	0.51	-	-	-	-	
8.	8th Decile	-	-	-	-	-0.64	-	
9.	9th Decile	-	-	-0.12	-	-	-	
10.	10th Decile	-0.70	-1.10	-	-1.13	-	-	
11.	Bottom 30%	0.81	0.86	0,30	0.66	-	-	
12.	Middle 40%	0.24	0.50	-	0.25	-	-	
13.	Top 30%	-0.39	-0.57	-0.09	-0.32	-	-	
14.	Bottom 50%	0.46	0.70	0.15	0.53	-	-	
15.	Top 50%	-0 12	-0.30	-0.07	-0.20	-	-	

Table-7.5 Consumption Inequality: Growth Rates

		(Percent per year)	
S.No.	Period	Rural	Urban
0	1	2	3
1.	1958-73	-0.83	-0.75
2.	1977-91	-1.33	-
3.	1958-91	-0.25	-

N.B.: Based on Lorenz Ratio estimated from NSS consumer expenditure distribution of various rounds.

Table-7.6 Decile-wise Share of Consumption

(percent) Rural Urban 8.No. Decile 1991-92 1996-97 1991-92 1996-97 2 3.41 3.84 2.68 3.11 4.92 5.35 4.13 5.99 6.39 5.23 5.69

9.25 9.45 10.66 10.73 8. 70-80 12.48 12.36 12.60 12.54 9. 80-90 15.24 14.80 16.01 15.56 10. 90-100 22.97 21.36 26.35 24.28

7.36

8.36

7.01 8.07

1. 0-10

2. 10-20

3. 20-30

5. 40-50

6. 50-60

7. 60-70

4. 30-40

Table-7 7 Fractile-Wise Per Capita Consumption and its Growth

(Rs. monthly at 1991-92 prices)

6.31

7.47

8.80

10.42 10.58

6.73

7.84

9.08

		Rur	al	Urba	n	Growth Rate (%)	
S.No	. Decile	1991-92	1996-97	1991-92	1996-97	Rural	Urbar
0	1	2	3	4	5	6	7
1.	1st Decile	112.87	151.81	139.84	183.90	6.11	5.63
2.	2nd Decile	162.52	211 10	215.53	272.06	5.37	4.77
3.	3rd Decile	198.07	252.26	273.12	336.74	4.96	4.28
4.	4th Decile	231.78	290.61	329.70	398.93	4.63	3.89
5.	5th Decile	266.88	329.92	390.37	464.43	4.33	3,54
6.	6th Decile	305 90	373.04	459.73	538.07	4.05	3.20
ž.	7th Decile	352.29	423.59	544.50	626.57	3.76	2.85
8.	8th Decile	412.52	488.23	657.90	742.86	3.43	2.46
9.	9th Decile	503.89	584.48	836.34	921.81	3.01	1.97
10.	10th Decile	759.27	843.21	1376.42	1437.90	2.12	0.88
11.	Bottom 30%	157.81	205.06	209.50	264.23	5.38	4.75
12.	Middle 40%	289.19	354.29	431.08	507.00	4.14	3.30
13.	Top 30%	558.60	638.64	956.89	1034.19	2.71	1.57
14.	All Popula-	330.60	394.82	522.35	592.24	3.61	2.54

Table-7.8 Structure of Consumption : 1991-92

(Percent) Rural Urban S.No. Commodities _____ Bottom 30% Total Bottom 30% Total India ______ 2 5 34.18 18.97 23.86 10.48 15.94 ces 12.57 9.50 11.29 5.86 8.20 7.98 8.97 8.71 9.80 9.26 1.28 1.99 2.84 2.16 2.05 Foodgrains 2. Fruits, Vegetable & Spices 12.57 1. Milk 6 Milk Products 7.98 8.97
1. Sugar 6 Gur 1.28 1.99
1. Old 6 Beverages 8.80 7.53
1. Total: Food 64.81 46.96 2.05 10.10 45.55 Sugar & Gur
 Oil & Beverages Total: Food 10.14 14.76 56.84 43.06 7. Consumer Non-durables 0.26 4.65 7. Consumer Durables 0.26 4.65 1.68 9.99 4.04 4.28 0.80 3.07 36.64 39.60 43.16 56.94 9.79 5.69 0.26 4.65 20.37 32.26 8. Consumer Durables 4.09 34.88 9. Services 35.19 53.04 54.45 Total: Non-Food Total 100.00 100.00 100.00 100.00 100.00

Table-7.9 Structure of Consumption : 1996-97

S.No.	Commodities	Rural		Urban	1		
	i	Bottom 30%	Total	Bottom 30%	Total	All Indi	
0	1	2	3	4	5	6	
1. Foo	dgrains	32.79	17.41	22.88	9.63	14.58	
2. Fru	its, Vegetable & Spice	es 14.08	10.15	12.69	6.44	8.80	
3. Mil	k & Milk Products	8.58	8.81	9.16	9.63	9.11	
4. Sug	ar & Gur	1.37	1.90	2.73	1.94	1.91	
5. Oil	6 Beverages	7.68	6.44	8.95	12.65	B.70	
Tota	al: Food	64.50	44.71	56.41	40.29	43.10	
6. Clo	thing	2.87	9.75	1.54	10.05	9.86	
7. Con	sumer Non-durables	12.76	6.86	3.55	4.04	5.83	
8. Con	sumer Durables	0.21	4.54	0.58	3.60	4.20	
9. Ser	vices	19.66	34.14	37.92	42.02	37.01	
Tot	al: Non-Food	35.50	55.29	43.59	59.71	56.90	
Tot	al	100.00	100.00	100.00	100.00	100.00	

Table-7.10
Poverty Ratio from NSS Consumption Distribution and Lognormal Distribution

	Poverty Ratio (%)		(a) and	nce between
	Rural	Urban	Rural	Urban
1	2	3	4	5
1. 1987-88				
a) NSS Distribution	27.3	17.0	-	-
b) Lognormal Distribution	28.7	19.6	5.1	15.3
2. 1991-92				
a) NSS Distribution	20 6	12.3	-	-
b) Lognormal Distribution	23 0	15.7	11.7	27.6
3, 1996-97				
a) NSS Distribution	11 0	7 5	**	-
b) Lognormal Distribution	14 3	11.6	30.0	54.7

Note:The observed consumption expenditure distribution of NSS for the year 1987-88 has been adjusted to total private consumption expenditure for 1987-86, estimated by CSO in National Accounts Statistics.

13—13/PC/ND/95 113

CHAPTER - 8 FUTURE TASK

Indian planning process is at crossroads. The economic reforms initiated in June, 1991 aiming at allowing a greater play for markets replacing the different agents of the Government as dominant decision makers are intended to withdraw the Government from certain key areas of economic decision making and allowing it to refocus its policy intervention. The withdrawal of the Government from detailed licensing and controls of production and investment and trade, warrants a change in the role and the use of formal models in capturing the complex intricacies of the planning process. In the present circumstances, as the role and the shape of planning changes, it is necessary to capture these in a formal quantitative model frame. How and to what extent formal economic models can be used to describe the new scenario is the heart of the question. This requires outlining of:

- (a) the existing planning process,
- (b) the likely changes in the economic scenario and consequently in the planning process as a result of the reform programmes,
- (c) the role of formal quantitative models to capture the existing planning process, and
- (d) the extent and the manner and method in which the new scenario can be captured through the use of formal economic modelling.

Existing Planning Process

The existing planning process basically involves:

- (a) Spelling out the paradigms of development,
- (b) Outlining the strategies for development and the supporting policy environment
 - (c) Working out the macro-parameters for growth and its sectoral pattern,
- (d) Resource allocation between Centre and States and between sectors,
 - (e) Detailed allocation of budgetary support, and
- (f) Consideration of specific projects, programmes and schemes in the public sector.

The planning process described above covers a wide area and involves various organisations and institutions both within and outside the Government. It involves the Central Ministries, the Reserve Bank of India, the State Governments alongwith grassroot level of administration and the political leadership, besides the Planning Commission. The preparation of Five Year Plan begins with the formulation of an Approach Paper outlining the macro economic dimensions, strategies and objectives of the plan. The Approach Paper is discussed in the Planning Commission and presented to the National Development Council for its consideration and approval. Then it is circulated among the States and the Central Ministries. The State Governments and the Central Ministries. The State Governments and the Central Ministries.

parameters postulated in the Approach Paper. These plans and programmes are reviewed by the Planning Commission. As a result, a detailed plan is evolved which is presented to the Planning Commission and the National Development Council. The Five Year Plan Document is then prepared, keeping in view the objectives, the plan orientation, development perspective, macro-economic dimension, the policy framework, financing and sectoral profiles.

The Five Year Plans thus framed set out the dimensions of economic growth and development in the country and postulate the macro-economic aggregates, such as resources, savings, investment, income and several broader economic and social requirements. It boils down to laying out an investment profile in terms of economic activities to steer the economy in the desired direction. The Five Year Plan is implemented through Annual Plans which involve allocation of resources between Centre and States and between sectors and more particularly the allocation of budget-ary resources. It also involves detailed consideration of projects, programmes and schemes. Sanction of Government expenditure is effected through annual budgets. The allocation of Government resources and expenditure in the annual budgets is made keeping Five Year Plans in view.

The objective of the Central Plan is to strengthen and support the State Plan and also to implement some of the key priorities. The Central plans basically is complimentary to the state plans as it caters the areas where the States are unable to invest due to resource constraint or an area which is not the State's direct concern. The separate plans of the Central and the State Governments constitute the public sector plan. The Planning Commission brings them together through a process of discussions and reviews at various levels and thereby plays a coordinating role between the Centre and the State

The Planning Commission estimates the size of national resources. The balance of payments situation is assessed from a detailed calculation of exports and imports. The incremental capital output ratio (ICOR) is quantified. The sectoral material and social requirements are worked out at sectoral level. The material requirements are related to targeted growth rates and are worked out from the input-output based consistency-cum-investment model. The social requirements are assessed more in a formative manner keeping in view the resource constraint. The overall growth rate is set matching the demand and supply of resources. The sectoral targets of growth are made consistent with the overall rate of growth.

The plan sets out a projection of investment for both public and private sector. The public sector planning involves charting out the details of output and investment while the targets for private sector mostly are indicative in nature. The public sector investment cateres mostly the infrastructure sectors, such as energy, communication, transport and social sectors such as education, health, basic needs etc. In case of private sector, the Government frames policies and packages of incentives and controls in order to realise the growth rates. An example is foodgrains which are produced in private sector by millions of farmers. The plan target for foodgrain production is achieved by building up of irrigation infrastructure, supply of ferfiliser, support prices, and research and extension facilities which is exclusively in public sector.

However, all these factors are not entirely captured by the quantitative framework of the model that is presently in use in the Planning Commission as some of them involve a multi-stage decision making process. The use of formal model is only a part of the planning methodology and the quantitative framework of the plan captures only a part of the entire planning process.

The New Economic Scenario

The economic reforms pursued by the Government since June, 1991 basically consist of:

- (a) Short-term stabilisation policies in order to correct the balance of payments disequilibrium through adjustment in the exchange rate, ensuring macro-economic balances through curtailment of Government expenditure, monetary liquidity and market liberalisation through elimination of subsidies and price controls; and
- (b) long-term aconomic reforms under structural adjustment programmes covering deregulation of industry, liberalisation of trade, elimination of protective tariff barriers, privatisation of financial institutions and public enterprises, streamlining of the State sector, privatisation of social programmes and rationalisation of the tax structure.

A series of reforms were undertaken in the above direction since June, 1991. The exchange rate of rupee was adjusted downwards. Foreign trade regime was liberalised. Tariffs were lowered. Policies in respect of trans-border capital flows were liberalised. Industrial licensing was largely dispensed with. Some of the earlier forbidden areas were opened to private enterprise and steps were inlitated towards financial sector reforms. The Government particularly concentrated on fiscal reforms.

The reform process thus aims at dismantling of controls and regulatory measures and seeks to redefine the role of Government and, hence, planning, In the new scenario, the role of planning has to be redefined. The planning process will have to undergo a change in the essential sense that the main responsibility of the Government in the context of development may be restricted to infrastructure and social investment and in those activities where private initiative may not be forthcoming. The Government will have to continue to implement programmes for the poor and the weaker sections. Programmes for social welfare, population control, environmental protection, health and education, at least at the primary level, will continue to be the responsibility of the Government for quate sometime to come.

The market system has brought bountiful benefits since the days of Adam Smith. But this system at every turn in history has created large scale disruption, wreaked havoc on the lives of millions of people and been the subject of constant legal and regulatory correction. Keeping this in view, the State will have to intervene for expansion of the market and to make it operate more freely, competitively and with accessibility.

The market needs prospective information beyond those accompanying the price. Here indicative planning has the gap filling role. Expanding the scope of the market and making it freely accessible to all will require supportive and congenial legal framework which makes contractual transactions easy and secure. This will include laws relating to transactions in land, real estate, smoother and more secure working of stock exchange and financial intermediaries including removal of obstacles in the free movement of goods and perhaps consumer protection. Regulation of monopolies will be one of the important functions of the Government.

The strong point of market is efficiency. It's weak point is that it has only a short-term view. The market prices are more influenced by available supplies and demand in a limited time horizon. As such, the price-mechanism is inadequate to protect environment and ecology which have long-term consequences. This necessitates state intervention and planning. Some of the long-term costs can be built into current costs and prices, but that is also possible only through intervention. Thus, in whichever area society has to take a long-term view, state intervention and planning become necessary. Planning here means taking a long-term view, setting opals and

devising strategies to achieve these goals within the accepted paradigms. There is a complementarity between market as an efficiency promoting device and planning as an instrument of establishing behavioural pattern appropriate for achieving the targets set out in the plan.

The reform process will require imaginative Governmental design and management. The Government will have to have a strong interventionist policy in the area of fiscal and monetary management, trade, education, health and in bitaleral negotiations to assure market access. It will also have a direct role in the formulation of Science and Technology policy, financial sector regulation, advancement of environmental protection and in the areas that cannot be left entirely to the market place.

So long as there is a Government and an elected Government, it will be there to do things. So, Government interference will be there. At what stage or level this is the question and that is what is required to be decided and settled. The Government will not abandon its role in the economy and planning, it will suitably refocus it to make it more effective. The role of planning will be to devise the best and most productive strategy applying the least but the most effective interventions and not relying only on efficiency and growth.

Models in Indian Plans

A brief outline of the coverage of formal quantitative models in successive five year plans of India may be worthwhile.

The first five year plan (1951-56) did not have any formal planning model. The basic frame was based on the a single sector growth model of Harrod-Domar, which stressed investment for capital accumulation. Production required capital which could be accumulated through investment and to which the growth rate was directly related.

The model though highly aggregative in nature, underlined the problem of raising the per capita income in the economy. However, it concealed structural aspects of the problem of a steady rate of growth which prevented its use as a tool in detailed quantitative policy making.

The development strategy during the second plan (1956-61) was articulated through Mahalanobis model on the premise that development could be achieved by establishment of a modern industrial sector supported by capital investments and infrastructure building. It was a model of economic growth generated by capital accumulation based on domestic savings and foreign capital. The aggregate investment multiplied by aggregate marginal capital-output ratio produced increases in aggregate output from which an even greater proportion was saved and invested for re-generation of the growth process. The aggregate and sectoral investment allocation was formally related through a four sector model in the Second Plan.

The Third Plan (1961-66) and Fourth plan (1969-74) were based on static multi-sectoral input-output system ensuring terminal year consistency.

The Fifth Plan (1974-79) model was a Leontief static open model ensuring terminal year consistency among sectoral output it consisted of a macro economic model, an input-output model and a consumption model. The macro economic model provided the projection for income which is consistent with total investment. The input-output model consisted of an inter-industry model where each sector is viewed as producers of outputs and user of inputs from other sectors. The consumption model was used to generate demand for consumption expenditure considering the minimum requirement of poor group of population. The Fifth Plan endagenised private consumption and import and worked out a detailed methodology for mobilisation of

financial resources and financing of the plan. It also explicitly brought poverty alleviation in the plan model. In the Sixth Plan (1980-85), an investment planning model was integrated with the input-output approach.

The model system presently used in the Planning Commission integrated the various features developed since the Fifth Plan and made investment consistent with a long term perspective plan. The existing quantitative model described above thus requires to be adapted in the light of the changes in policy.

The Existing Model

The existing plan model is a multi-sectoral static input-output model, where consumption, export and import are treated as final demand and inter-industry transactions are interpreted as intermediate demands. The output level in each industry necessary to satisfy the total demand, i.e., final as well as intermediate, for the commodity, is decided in the plan model. Thus, the principal objective of the multi-sectoral plan model that is in use, is to derive mutually consistent sectoral output targets and corresponding sectoral investment demands.

The plan model sets out the aggregate growth rate of the economy. The aggregate growth rate is determined from an assessment of the macro economic aggregates such as consumption, savings, investment and net inflow from the rest of the world

The magnitude of the above macro-economic variables are determined by balancing income and expenditure for a number of alternative growth rate in income and the set which is consistent with resource availability and domestic production supply possibilities is adopted.

A set of income and expenditure identities in combination with input-out-put model determines investment in the terminal year endogenously. The resources available for investment is also calculated as the growth in Gross Domestic Product, sayings, consumption and certain other exogenous variables are known.

Sectoral output is determined by final demand in conjunction with the input-output matrix (Leontief inverse). The final demands are determined exogenously. The Leontief inverse is obtained by endogenising import, consumption and investment. Sectoral imports are derived on the basis of input demand for import, adjusted for import substitution and the assumed import content of consumption and investment. Aggregate demand consists of consumption (public and private), investment (public and private), exports and intermediate goods. The output levels necessary to satisfy these demands are calculated with the help of a 60-sector input-output model. This ensures inter-sectoral consistency in output. The feasibility of the output structure requires a matching with their supply. A family of sub-models are used to estimate the supply potentials of different sectors. The sub-models setimate the supply potentialities of different sectors vis-a-vis investment made in earlier plans, rate of completion of existing projects and capacity utilisation in effect, the sub-models are used to assess the impact of those variables which are not adequately captured in the input-output frame.

The sectoral disaggregation of final demand of each variable is effected mainly from the sub-models. Sectoral private consumption is obtained from consumption sub-model which estimates the demand for different goods and services at the background of growth pattern of the economy postulated in the plan, a projected growth in population and its rural-urban composition and the existing inequality in the consumption distribution. Subsequently, the consumption patterns are adjusted in the light of likely changes in consumption distribution resulting from specified redistributive policies proposed in the Plan.

In the consumption model, the private consumption is divided into four segments - rural and urban separately for below and above the poverty line. A very detailed modelling is done for assessment of the poverty cut-off point and the pattern of distribution of consumption below and above the poverty line. The consumption basket estimated in the consumption sub-model is dovetailed with the main model to ensure supply-demand balances.

The estimates of exports are based on a simulation model whose parameters are basically obtained from econometric estimation procedure. An almost similar method is followed in case of imports although sectoral import requirements are partly estimated in the input-output model aided by help of an import coefficient matrix.

The model estimates the investment needs for a desired level of output Sectoral allocation of investment is determined by postulating investment function ICORs are estimated for each sector on the basis of past data. These ICORs are used to determine the secotral investment necessary to generate a desired level of output investment by destination are converted into investment by source, i.e. by production activities with the help of capital coefficient matrix. The potential effect of alternate allocation of investment by destination on sectoral growth rate is measured. Then, these are dovetailed into the input-output model to check their consistency. The model treats public and private investments separately as allocation of investment in public sector is a target while that in private sector is a indicative forecast.

Finally the model checks the consistency of output requirements with long term objectives and match the growth potentials of the Plan The Plan model provides a mutually consistent sectoral output and corresponding sectoral investment. This way, the model is capable of ensuring inter-industry consistency. However, social optimality is not ensured under the above frame of multi-sectoral consistency.

Economic Modelling in New Scenario

The existing model frame would require necessary changes in view of the changed economic environment in which (a) market will predominate (b) private sector will expand (c) public sector will be more autonomous and be subjected to market forces as the private sector (d) trade with the rest of the world will expand in an environment in which global economic trends and compulsions will have larger impact on the domestic economy and (e) the role of the Government will be confined in the creation suitable environment for growth and development rather than directly taking part in production and trade

Within market economies economic planning has two main functions

These are

(a) it must look into the future and announce its likely feature (b) it must define strategies evaluate public projects and control their realisation. It is because neither the Government nor the private sector feel that markets convey all the information required for sound decision with long or medium term implication.

) it must

The estimates of resources and investment in the Plan is made at constant prices on the tacit assumption that income expenditure equilibrium at constant prices would automatically ensure similar equilibrium at current prices because of identical price elasticity of income and expenditure and similarity in prices of commodities particularly of consumption and capit algods. The actual experience is that price elasticity of expenditure is more than that of income and increase in price of capital goods is faster than that of consumption goods. Thus the realised real investment tends to be lower than the targetted plan investments. The existing model thus ignores the real effect of prices, whereas such effects may be significant and may distort the consistency as well as the efficiency of allocations.

In regard to prices, a detailed analysis of commodity and factor prices, inflation rate, relation between absolute and relative prices and its impact on different sections of the population, factors causing inflation, role of money supply in inflation and impact of changes in administered price policy including dual-price system, essential particularly for its short-run implications. Capturing these in a quantitative framework would mean a shift away from the existing fix-price model to a flex price machanism.

In the new policy regime, the trade sector is characterised by decanalisation of imports and exports, liberalisation of import in key areas particularly of raw materials and capital goods, and for export promotion. It would be necessary to develop econometric models to determine the demand for imports and exports for building up the model for balance of payments.

In a liberalised regime for private investment, analysis of private investment behaviour becomes important. Such analysis has to be carried out separately for critical sectors of the economy treating distinctly the private foreign investment. Investment behaviour in the short run will impact upon financial sector savings and balance of payments accounts. In the medium and long-run, investment behaviour will determine the production possibility frontiers. Thus analysis of investment behaviour will be at the core of the modelling effort in future.

An element of forecasting may be introduced in the model so that critical variables are monitored in the short-run. The feasibility of placketing each of the issues mentioned above into a model structure may be studied from the point of view of data availability and stability. Once these issues are embedded in the existing multi-sectoral input-output model and integrated with the perspective plan, forecasting may be made for short term (one or two years), medium term (five years) and for the longer period (ten to fifteen years) by fixing the horizon in terms of key variables such as land, water, energy, food, housing, population and environment.

Planning has crucial role to play in giving expression to what constitutes the socially desirable objective. Planning has played this role in many countries where free market operates. Planning is needed to create social infrastructure for human development, protection of ecology and regeneration of environment and natural resources, protecting the weak and achieving a certain degree of regional balance in growth. Market cannot probably perform these roles on its own. Planning interventions are required for gently guiding the market for achieving some of the societal objectives to which market being guided by short-term considerations is not very sensitive.

ANNEXURE

A Perspective on Energy Use Efficiency

Energy is an essential input in all the sectors of economy. Input of energy is a function of technology, structure of the industry, type of feedstock and population of machinaries. Better the technology lesser would be the specific consumption of energy. Demand for different sources of energy like electricity, coal and petroleum products for 1998-97 was projected keeping in view the conservation measures, change in the technology, structure of the industries, population of the machineries such as number of vehicles in road transport, number of engines in railways and number of tractors and pumpsets in agriculture. All these variables change the specific consumption of the energy input and have a bearing on demand for energy. Assessing the expected changes in technology, structure, type of feedstocks and population of machineries during the Eighth Plan, change in energy input coefficients for specific industries in 1996-97 with respect to 1991-92 have been worked out.

(1) ELECTRICITY

a) Agriculture

Electricity consumption in agriculture will increase with increase in irrigated areas, replacement of diesel pumpsets by electric pumps, lowering of water table and increase in the number of older type pumpsets. Consumption of electricity in future will depend mainly on projected population of irrigation pumpsets (Annexure-5.1)

b) Aluminium

The newly set up National Aluminium Co. (NALCO) plant has the lowest specific consumption of electricity among all Indian alluminium plants (about 16000 kwh/T). Remaining aluminium plants are also showing gradual decline in specific electricity consumption. With rising share of NALCO output and technological improvements in other plants, there will be overall reduction of specific electricity consumption in future. Several studies including the one conducted by the National Productivity council (NPC) show that Indian aluminium industry has conservation potential of 8-10 per cent in existing plants. For plants other than NALCO, 5 per cent conservation effect is assumed while deriving the aggregate norms (Annexure-5.2).

c) Iron & Steel

Iron and steel industry has witnessed increase in overall electricity consumption with increasing share of production from mini steel plants. Also specific electricity consumption in integrated steel plants has not declined in view of increasing output of flat products. The possibility of a reversal of this trend in near future is remote, in mini steel plants specific consumption is high due to their process technology (Electric Arc Furnace) (EAF). The mini steel plants in view of the envisaged use of sponge from as raw material are expected to a rest the increasing norm to some extent. Some Integrated Steel Plants (ISPs) have already undertaken modernisation programme Studies show that there is conservation potential of 8-10 per cent in ISPs. With full capacity utilisation of Vizag plant and improvement/modernisation in other plants the overall norm of consumption for steel industry is envisaged to go down to some extent in future (Annexure-5.3).

d) Cement

The dry process is overall energy efficient, although it is electricity intensive and there is rise in share of production from dry process. However, specific electricity consumption in cement manufacture has witnessed gradual decrease since the late 1980s as a result of technological improvements viz. adoption of vertical roller mills, high efficiency separators, high efficiency fans, variable speed system etc. The study by the National Council of Cement and Building Materials (NCB) indicate that

there is still scope to reduce the electricity consumption in this industry. This has been taken as guideline in assessing future energy conservation potential in working out the norm of specific electricity consumption (Annexure-5.4).

el Railways

Indian railways have undergone significant changes in the traction front during last three decades. Till early 1950s, steam locomotives dominated 99 per cent of freight traffic and 93 per cent of passenger traffic. However, dieselisation and electrification have replaced the conventional steam locomotives in a big way since the 1960s because of better traffic pential. At present, about 55 per cent of freight traffic is moved by diesel and about 43 per cent by electric traction leaving insignificant traffic being moved by steam locomotives. In case of passenger services, 87 per cent of traffic is handled by diesel/electric traction and the remaining 13 per cent by steam traction.

Diesel and electric locomotives are comparatively more efficient in terms of energy consumption than steam locomotives. They also provide greater hauling capacity, have sharper acceleration and deceleration and are capable of attaining high speeds. They have less servicing needs and, therefore, their availability for traffic is comparatively more leading to optimisation of line capacity. It has been decided to phase out steam locomotives by the year 2000 A.D. Among the electric and diesel, preference will be given for electrification of more tracks to reduce the draft on petroleum products. These envisage a rise in the input coefficient of electricity in the coming years (Annexure 5.5 and 5.6).

f) Electricity Generation

There is continuous rise in transmission and distribution losses over the years although the rate has been arrested to some extent during the Seventh Plan. The transmission and distribution (T&D) losses can be either due to technical reasons such as energy dissipation in the transmission and distributionn lines, transformers and other equipments used in the system or due to administrative reasons which can be attributed to the meter-reading errors, defective meters, unmetered supplies and differage of energy. The increased share of electricity consumption in agriculture and domestic sectors also show some relationship with increase in losses. With various system improvement schemes that are already under implementation, the T&D losses are envisaged to reduce (Annexure 5, 7 and 5,8).

a) Fertilizer

Total electricity consumption in fertiliser industry is fast decreasing since last few years due to structural changes. Electricity requirement for fertilizer production depends mainly upon the feedstock used. Cas, as a feedstock, is very energy efficient. After the discovery of natural gas at Bombay high, many of the new plants are based on natural gas. Change in share of capacities based on different feedstocks is given in (Annexure-5.9). With optimum utilisation of proper feedstocks, the rate in fall of specific electricity consumption in coming years is expected to be high (Annnexure-5.10).

h) Cotton

The input coefficient of electricity in cotton textile industry has remained more or less stable during last few years. It would have shown an increasing trend in view of growing share of production from mill sector. But because of adoption of various efficiency measures in the mill sector, the aggregate specific consumption of electricity for cotton textile industry is envisaged to remain at the same level (Annexure-5.11).

li Paper

Energy consumption in paper industry depends on various factors such as production process, product mix, type of raw material, capacity utilisation, type, size and design of equipment, degree of integration etc. Small units have comparatively low level of energy consumption due to high percentage of waste paper use and the absence of soda recovery unit. In view of the growing demand, setting up of small units was encouraged upto the Sixth Plan. Small units, however, may not sustain the competition in future due to their higher cost of production on account of use of large scale imported machinery that too which is obsolete. It is utilitiely that specific consumption norm will further decline with dominance of bigger units in future. Energy consumption in paper mills in India is much higher than those in the advanced countries like North America, Scandinavia, Germany and Japan. However, different studies by the National Productivity Council (NPC), Bureau of industrial Costs and Prices (BICP) etc. show that there is scope of about 20-25 per cent overall saving in energy in paper industrys. Since electricity energy constitue about 19 per cent of total energy, 5 per cent reduction in specific electricity consumption is assumed for the Eighth Plan (Annexure-5.12).

(2) COAL

(a) Electricity Generation

So far there has been consistent increase in the thermal generation. However, with a view to achieve optimal hydro-thermal mix, it has been decided to increase the share of hydel capacity from Eighth Plan onwards. To maximise the use of natural gas and due to other benefits of gas based units, share of gas based electricity generation within thermal generation will have higher growth in the Eighth Plan. Although there has been increase in specific coal consumption in coal based plants, the efficiency at power plants and likely improvement in coal quality to be supplied to plants may bring down the norm. Hence input coefficient of coal in overall electricity generation is envisaged to decline (Annaurre-5.13).

(b) Iron and Steel

The Working Group on Coal constituted by the Planning Commission for the Eighth Plan has projected lower coke rates for integrated steel plants envisaging improvement in coking coal quality and better blast furnaces and equipment in new/modernised plants. In view of the liberalised policy by way of delicencing and decontrol of prices and increasing demand for steel, share of mini steel plants is expected to rise in future. In case of sponge iron, there will be more gas based production. The input coefficient of coal in steel industry, hence, is expected to go down in future (Annexure-5 14).

(c) Cement

Dry process consumes less coal and as all new plants will be based on dry process, the input coefficient of coal in cement industry will decline. The NPC, BICP and other studies show considerable potential for conservation in the cement industry (Annexure-5.15).

(d) Rail Transport

Share of steam locomotives in rolling stock of railways is declining. Hence, the use of coal is decreasing fast and it will be very negligible by the turn of the century. Coal input coefficient for rail transport will further decline in Eighth Plan (Annexure-5.6).

(3) PETROLEUM PRODUCTS

(a) Agriculture

Although diesel pumpsets are being replaced by electric ones, increase in agricultural activity has led to increase in number of tractors which is likely to result in an increase in input coefficient of diesel in agricultural sector (Annexure-5.1).

(b) Fertilizer

Increase in share of fertilizer production from gas based plants and consequent decline in share of naphtha and furnace oil based plants in the Eighth Plan is likely to reduce the input coefficient of petroleum products in fertilizer industry (Annexure-5.16).

(c) Iron and Steel

In steel industry, petroleum products are used mainly for (i) flame stabilisation in blast furnace; (ii) calcining and (iii) local transport within the steel plant. The offtake of petroleum products is mainly by the integrated steel plants. Naphtha, high speed diesel and minor quantities of LDO and LSHSFO are the various petroleum products used in steel industry. Naphtha is used only in Bhilar steel plant. Its consumption which averaged about 25 thousand tonnes in the last few years is likely to remain unchanged during the Eighth Plan. In Visakhapatham steel plant, the electricity generation (captive) is through steam turbine utilising blast furnace gases. Upgradation of technology facilitating automate transport of material from blast furnace to steel shop floor would result in reduction in specific consumption of petroleum products. Modified skid system in reheating furnaces would also result in saving of fuel consumption in steel industry (Annexure-5.17).

(d) Electricity Generation

Specific consumption of oil in thermal generation is on the decline due to improvement in technical efficiency of the plants and overall improvement in the Plant Load Factor (PLF). With increasing share of power generation from gas based plants, the use of petroleum products in total power generation would reduce as they are required only in steam plants for flame support at initial start-up. This is likely to result in a decline in the input coefficient of petroleum products in total electricity generation (Annexure-5.18).

(e) Other transport services

This sector includes mainly road transport services whose physical output at macro level is rather difficult to quantify. Value added in thus sector does not reflect much change in input coefficient of petroleum products. Hence a reduction in fuel consumption is possible with replacement of old stock of vehicles with those of fuel efficient ones, betterment of roads, better design of engines, radionalisation of long distance traffic between road and rail etc. Since this is a highly dispersed industry, intensive policy support to achieve conservation is called for (Annexure-5-19).

(4) CRUDE OIL

Petroleum defineries:

Various measures have been adopted by the petroleum refining industry to contain the refinery losses as a result of which refinery losses are showing declining trend. However, in view of setting up of three new grassroot refineries, the declining trend is likely to be arrested to some extent. Presently, the losses are around 6 per cent (Annexure-5.20).

(5) NATRUAL GAS

(a) Fertilizer

Natrual gas, naphtha, fuel oil and coal for process feed, fuel and steam raising are the principal forms of energy consumption in fertilizer industry. Over the years there has been a change in process technology. While the old fertilizer plants were based on feedstocks like coke, lignite and coke oven gases, with the development of catalytic steam reforming technology, preference was given to light hydrocarbons like naphtha and natural gas for production of ammonia. Due to indigenous availability of large quantity of associated natural gas in the later half of 1970s, the feedstock policy was reviewed. It was decided to separate lower fractions of associated gas which could be used as feedstock for fertilizer plants. Hence, the share of gas based nitrogenous fertilizer production which was about 20 per cent of the total fertilizer production in 1983-94 is envisaged to rise to 55 per cent in 1996-97. This will increase the input coefficient of gas in fertilizer industry (Annexure-5-16).

(b) Electricity

The generation of electricity from gas based plants which was less than one per cent until the eighties increased to around 4 per cent in 1990. Due to abundance of natural gas and eco-friendly nature of gas based thermal power plants, it is envisaged that gas based plants would play significant role in electricity generation in Eighth Plan. As per capacity addition programme envisaged for the Plan, the gas based generation is likely to be around 26 13 billion Kwh representing about 6 per cent of total electricity generation (Annexure-5.21).

(c) Sponge Iron

Earlier, most of the mini steel plants were based on centiper centiscrap based EAF process technology. Since large quantity of scrap are required to be imported, an alternative route of EAF process based on definite ratios of scrap and sponge iron are being set up. The sponge iron can be produced either with natural gas or coal as a feedstock. Since sponge iron produced with natural gas as a feedstock is relatively less energy intensive, the policy directions are towards setting up of gas based sponge iron plants. It is, therefore, envisaged that input coefficient of natural gas in steel industry will be increasing in future (Annexure-5 22).

ANNEXURE: 1.1
INPUT OUTPUT COEFFICIENTS 1991-92

				-	H D O B 1	RIRS				
TY BECTOR	1	2	3	-	5	•	۳	*	•	10
1 PADDY	0.090127	0.000162	0.00000	0.000582	0.000000	0.00000	0.00000	0.000000	0.00000	0.00000
2 WHEAT	0.000026	0.112303	0.000000	0.000103	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000
3 OTHER CEREALS	0.000038	0.000052	6.8600.0	0.00000	0.00000	0.00000	000000	0.000	00000	
	0.000177	0.002113	000000	0.120389	0.00000	00000	0.00000	00000	00000	
	000000	0.00000	0.000000	0.00000	0.034433	00000	00000	00000	000000	
6 JULE	00000	000000	000000	00000	000000	00000	000000			00000
	0.00000	0.00000	000000		00000		00000	00000	00000	00000
H TEA	0.00000	0.0000	0.0000	00000	000000	0000	00000	0000	00000	00000
9 COFFEE 10 PUBBER	0.00000	0.000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.000000	0.000000	0.00000
anomy manner	0.0000.0	945000	000000	0 009553	000000	000000	0.00000	0.00000	0.00000	0.000000
11 O'HER CROPS	0.000612	0.000348	0.002620		0.14130	0.053384	0 071503	0.034273	0.109526	0.00000
		10000	00000	910000	000000	000000	000000	0.00000	0.00000	0.000000
	000000	0.00000	0.00000	0000000	000000	0.00000	0 000000	0.00000	0.00000	0.00000
	0 000366	0.001540	0.00000	0.000022	0,000000	000000	0.000000	0.00000	0.00000	0.00000
	0.00000.0	0.00000.0	0000000	0.000000	0.00000	0.00000	0,000000	0.000000	0.000008	0.000000
	0.00000.0	0.00000.0	0.000000	0.00000.0	0.00000.0	0.000000.0	0 000000 0	0.00000	0.00000	0.00000
	0.00000.0	0.00000	000000	0.00000	0000000	0.00000	0.00000	0.00000	0.00000	0.000000
19 NOW HET & MINOR MINERALS	0 000000	000000	0.000000	0.00000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000
SUGAR.	0.000000	0.00000	0.00000	000000	0.00000	0.00000	. 00000	0.00000		
21 KHANDSARI BOORA	0.000000	0 000000	0.00000	0.00000	0.00000.0	0.00000	0.009808	0.00000	0.000000	0.000000
	0.00000.0	0.000000	000000 0	0 000001	0.00000	0.00000	0 000000	0.00000	0.000000	0.00000
23 OTHER POOD & BEVERAGE	0.000004	0.00000.0	0000000	0.000215	0.000000	0.00000	000000	0.00000	0.00000	0.000000
	0.000159	0 000014	0 000000	0.000099	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25 WOOLLEN TEXTILES	0.00000	0.000000	0.00000	00000	0.00000	00000	000000	00000	00000	00000
24 AND SILE & SINIBELL FIRMS	0.00000	0.000641	0.00000	0.000822	000000	0.00000	0.000000	0.00000	0.00000	0.00000
	0.000047		0.000001	0 000022	0.00000	0.00000	0.000004	0.00000	0.00000	0.00000
29 WOOD 6 WOOD PRODUCTS	0.000011		0.000000	0.000074	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000
PAPER & PAPER PRODUCTS	0.000079	0.000110	0.000016	0.000178	0.000028	0.000000.0	0.000000	0.00000	0.00000	0.000000
LEATHER & LEATHER PRODUCTS	0.00000	0.000008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
	0.000025	0.000036	0.000008	0.000012	0.000000	0.00000.0	0.000025	0.00000.0	0.00000	0.00000
	0.000072	0.000000	0.00000	0.000495	0000000	0.00000	0,000000	0.000000	0.00000	0.00000
34 PETROLEUM PRODUCTS	0.018222	0.019026	0.018886	0.028643	0.009808	0.00000	0.021734	0.00000	0.000000	0.00000
	0.00000	0.00000	0.000000	0 000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000
PERTILIZERS	0.066295	0.08/166	0.049142	0.02884	0.065878	0.024046	0.113833	196920.0	00000	0.102306
	000000	000000	000000	000000	000000	000000	0.00000	0.00000	0.00000	0.00000
OTHER CHEMICALS	0.000001	0.000001	0.000000	0.000254	0.00000.0	0.00000	0.00000.0	0.00000	0.00000	0.00000
The state of the s	000000	000000	000000		000000		000000	000000	000000	9

ANNEXURE: 1.1
INPUT OUTPUT COEFFICIENTS 1991-92

				н	INDUSTRIES	8 1 1 4				
M COMMONITY RECTOR	н	2		3	10	•	7		7 8 9 10	10
11 OTH. NOW MET. MINERAL PRODS 12 INCH & STEEL 13 NOW PERSONS METALS	0.000000	0.000000		0.000020	0.00000	0.000000	0.00000	0.00000	0.00000	0.000000
	0 006720	0.006750	0.012645	0.012928	0.003679	0.002280	0.009321	0.00000	0.050587	0.000000
6 OTH NON BLECTRICAL MACH.	0.000887	0.003482	0 000034	0.000307	0.000063	0.00000	0.000100	0.00000	0.00000	0.000000
COMMUNICATIONS EQUIPMENT	0.000032	0.000047	0 0000011	0.000015	0.000020	0.00000	0.000032	0.00000	0.00000	0.00000
19 ELECTRONIC BOUIPHENT 50 PAIL EQUIPMENT	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000	0.00000	0.00000	0.0000
HOTOR VEHICLES	0 000049	0.000070	0 000016	0.000023	0.00030	000000	970000	000000	00000	00000
52 OTHER TRANSPORT EQUIPMENT	0 000835	_	0 003056	0.002347	0.000727	0.000534	0 002014	0.000000	0.000000	0.00000
	0.000453	ö	0.000005	0.000400	0.000010	0.00000.0	0.000015	0.000000	0.000000	0.00000
CONSTRUCTION	0 018511	0 019067	0.032806	0.033567	0.010186	0.005701	0.025058	0.000000	0.118648	0.00000
SALT. TRANSPORT REDUITS	0.005252	9 6	0 003802	0.005852	0.011098	0000000	0.014835	0.00000	0.00000	0.00000
	0 007345		0 004613	0.005768	0.004403	0.002484	0.008054	0.001812	0.000552	0.006351
	0.000482	0 000865	0.000086	0.000409	0.000159	0.000000	0.000254	0.000000	0.00000	0.00000
	0.033295	0.034045	0.016420	0.027074	0 030555	0.006832	0.037069	0.011851	0.032357	0.023496
OTHER SERVICES	0.012639	0.010269	0 011371	0.010665	0 011999	0.010119	0.010161	0.016935	0.011103	0.013667
61 TOTAL	0 336616	0 336616 0 399563 0 264686 0 360208	0 264686	0.360208	0.223799	0 108633		0.102996	0.412225	0.219723
62 NRT INDIRECT TAX 63 GROSS VALUE ADDED 64 GROSS OUTPUT	-0 028673 0.692057 1.000000	0.641225	0.750687	0.06539	-0.024214 0 800415 1,000000	-0.009165 0.900532 1.000000		-0.010377 0.907379	-0.043323 -0.010377 -0.000256 -0.041760 0.620068 0.907379 -0.580031 0.622037 1.000000 1.000000 1.000000 1.0000000	0.041760

ANNEXURE: 1.1
INPUT OUTPUT COEFFICIENTS 1991-92

COMMENDERY BY INDUSTRY TABLE

COMMENCEDITY BY INDUSTRY TABLE										
				н	RDUST	RIES				
SN COMMODITY SECTOR	17	12	13	14	15	16	17	18	19	20
1 PADDY 2 WHEAT	0.000092	0.004817	0 000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3 OTHER CEREALS	0.000286	0.008698	0.000000	0.00000	0.00000	0000000	0.000000	0.00000	0.00000	0.00000
A POLSES	000000	0 002232	0000000	0.00000	0 000000	0000000	0.000000	0.000000	0.000000	0.485960
6 37715	0.00000	0 000000	0 000000	0 000000	0000000	0.00000.0	0.00000.0	0.00000	0.00000	0.00000
7 COTTON	0.00000	0 000000	0 000000	0,00000	0.00000	000000 0	0.000000	0.00000	0.00000	0.00000
8 TEA	0.00000	0000000	0000000	0.000000	0.00000	0.000000	0.000000	0.00000	0.00000	0.00000
9 COFFEE 10 RUBBER	0 000000	0 000000	0 000000	0.00000	0 000000	0000000	0.000000	0.000000	0.00000	0.00000
an comment or the contract of	0.000	0 305474	311000	0 000000	מנטטטט ס	000000	000000	000000	000000	0.000113
12 ANTHAL HISBANDRY	0.045788	0.000300	0000000	0000000	0.000000	0.00000	000000	0.00000	000000 0	0.00000
	0.000001	0000000	0 001637	0000000	0 000000	0000000	0.00000	0.000000	0.00000	0.004152
		0.00000.0	0 000000	0.000000	0000000	0.00000	000000	0.000000	0.000000	0.00000
	0 000354	0000000	0000000	0000000	0 004754	000000	0000194	0.000457	0.00070	0.001433
16 CHUDE PETROLEUM & N. GAS	000000	000000	000000	000000	000000	0000000	000000	0.00000	0.00000	000000
		0 000000	000000	0,00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19 PON HET. 6 HINOR MINERALS	0000000	0 000000	0000000 0	000000 0	0.006332	0.000000	0.00000	0.000000	0.000000	0.01301B
	0 000000	0000000	0000000	000000 0	0.000000	0 000000	0.000000	0.00000	0.00000	0.001178
21 KHANDSABI BOOBA	0 00000	0 000000	000000 0	000000	0.00000	000000 0	0.00000	0.000000	0.000000	0.000476
	0000000	0 000000	0 000000	0.000000	000000 0	0.00000	0.00000	0.00000	0.00000	0.00000
	0.000001	0 042457	000000	0 002348	0.000000	0.00000	0.00000	0.00000	0.00000	0.000000
24 COTTON TEXTILES	0.000124	0 012458	0 000028	0.000000	0.00000	0.00000	0.00000	000000	0.00000	000000
	0.00000	0.00000	000000	0.00000	0.00000	0.00000	0.000000	0.000000	0.000000	0.00000
	0.000076	0.000000	0.000031	0.000000	0.00000	0.000000	0.00000	0.00000	0.000313	0.026004
28 OTHER TEXTILES	0.000040	0.000000	0.000946	0 039159	0.000000	0.00000	000000	0.000117	0.000000	0.000113
	0.000033	0.00000	0.002117	0 000000	0.002341	0.000000	0.000336	0.000525	0.000526	0.000611
31 LEATHER & LEATHER PRODUCTS	0.000000	0.00000	000000	0.00000	0.00000	0.00000	0.000000	0.00000	0.000000	0.000000
32 RUBBER PRODUCTS	21000000	000000	0.002328	0.000000	0.000241	0.00000	000000	0.0000	0.0990.00	0.00000
	0.015113	0.00000	0.008097	0.027140	0.019409	0.025891	0.054395	0.036003	0.034695	0 005000
	0.000000	0000000	0.00000	0.000000	000000 0	0.00000	0.000822	0.000228	170100.0	0.001127
36 FERTILIZERS	0.045343	0.00000	0.000025	000000	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000
37 PERTICIPES 38 SPATISTIC PINGS & DESIN	0.00000	000000	0.00000	000000	000000	0000000	000000	000000	000000	000003
OTHER CHEMICALS	0.000028	0.004122	0.000331	0.000792	0.023793	0.000717	0.018691	0.020846	0.015326	0.006259
40 CIBRINI	0.000000	0.000000	0.000001	0.000000	0.00000	0.008843	0.000000	0.000000	0.000000	0.00000
									Cont	Cont.d

ANNEXURE: 1.1
INPUT OUTPUT COEFFICIENTS 1991,92

				H	HINTSUGN	8 1 1				,
BN COMMODITY SECTOR	11	12		7.7	15	19	11	14 15 16 17 18 19 20	13	202
41 OTH. NOW HET. MINERAL PRODS.	0.00000	0,00000	0.00000	0.00000	0.000000	0.012664	000000	0.000000	000000	0.003809
42 INCN & STEEL	0.00000	0 000000	0.000216	0.000808	0.00000	0.00000	0.00000	0.000000	0.000096	0.00000
43 NON FERROUS METALS	0.00000	0.00000	0.000000	0.000144	0.00000	0 00000	0.00000	0.00000.0	0.00000	0.00000
	0.005582	0.000000	0.000001	0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	0 000000	0.00000	0.000143	0.000000	0.003652	0.00000	0.000000	0.00000	0.00000	0.00000
	0.000199	0.00000.0	0 000341	0.000000	0.090357	0.039020	0.010311	0.041801	0.019652	0.004805
	9,0000.0	0.000000	0.000638	0.00000	0.000000	0.000000	0.000030	0.000113	0.000012	0 000000
	0.000038	0.000000	0.000003	0.00000.0	0.000000	0.00000	0.000000	0.00000.0	0.00000	0.00000
	0.000000	000000 0	0.000040	0.00000.0	0.000000	0000000 0	0.000000	0.000000	0.00000	0.00000
SO RAIL EQUIPMENT	0.00000	0.000000	0.00000	0.000000	0.000000	0.00000.0	0.000000	0.00000	0.000000	0.000000
51 MOTOR VEHICLES	0.000024	0.00000	0.004534	0.000000	0.006149	0 000000	0.000193	0.000727	0.000073	0.00000
52 OTHER TRANSPORT EQUIPMENT	0.001439	0.00000	0.000172	0.016901	0.00000	0,000000	0.000000	0.00000	0.00000	000000
	0.000032	0.001342	0 003243	0.000026	0.014892	0.00000	0.000927	0.011218	0.012994	0.008025
	0.014750	0.000763	0.003114	0.00000	0 002723	0.029984	0.002722	0.002946	0.000034	0.006865
	0.004783	0.00000	0 000565	0.00000	0 061506	0 004792	0.055869	0.103322	0.016892	0.004636
	0.003630	0 001880	0.003762	0.000908	0.021161	0.001882	0.002927	0.003513	0.001416	0.004398
	0.005148	0.008871	0 036608	0.000000	0.007374	0.001735	0.003269	0.020140	0.009615	0.034161
	0.000149	0.000000	0.002360	0 000000	0.001144	0.00000	0.004364	0.001302	0.000182	0.001805
59 TRADE	0.022021	0.096216	0.003890	0 007770	0 018393	0 007448	0.009767	0.014380	0.010505	0.140912
60 OTHER SERVICES	0.011961	0.003540	0.019381	0.004317	0.030089	0.060341	0.021025	0.030110	0.010013	0.091374
61 FOTAL	0.226859	0.536287	0.093883	0.103608	0 316958	0.193317	0.186057	0.299229	0.134634	0.791011
	-0.015026	0.007141	0.005408	0.010135	0 025921	0.014740	0.015573	0.022876	0.013228	0.006284
63 GROSS VALUE ADDED	0.788167	0.456572	0.900709	0.886257	0.657121	0 791943	0.798370	0,677895	0.852138	0.202705
64 GROSS OUTPUT	1.000000	1 000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
									S	Contd
									Š	:

1.1 IENTS 1991-92

ANNEXURE: 1.	INPUT OUTPUT COEFFICIEI

					н	M N D O S T M I M	RIRS				
Š	SN COMMODITY SECTOR	22	22	23	54	25	26	27	82	29	e
; -	1 PADDY	0.000000	0.000000	0.005023	0.000032	0 000262	0.000000	0.00000	0.000220	0.00000	0.00000
~	WREAT	0.00000	0.00000	0.013813	0.00006.0	0.000012	0.00000	0.000000	0.00000	0.00000	0.000000
m -	OTHER CEREALS	000000	0.000000	0.002333	0.000027	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
, K	STREET	0.316112	0,00000	0.000044	0.00000	0.000000	0.00000	0.00000	0.00000	0.000000	0.00000
	ATTE	0.00000	0.00000	0.00000	0.000000	0.006B28	0.002152	0.231964	0.001622	0.000010	0.00000
	COTTON	0 000000	0.000000	0.000858	0.099751	0.00000.0	0.000000	0.000000	0.000137	0.00000	0.000008
100	TEN	0.00000	0.00000	0.035871	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000
		0 000000	0.00000	0.005136	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000
2	RUMBER	0 000000	0.000000	0.000000	0.000000	0000000	0.000000	0.00000	0.00014	0.00000	0.00000
=	OTHER CHOPS	0 000101	0 008548	0.255308	0.000105	0.00000	0.000020	.0.002733	0.000171	0.000285	0.001343
12	ANIMAL HUSBANDRY	0.00000	0.00000.0	0 053064	0.000001	0.045404	0.012586	0.000000	0.000499	0.00000	0.000010
	FORESTRY & LOGGING	0 006437	0.000553	0 001531	0.000508	0.000820	0.000264	0.000000	0.000064	0.4020p1	0.020787
	FISHING		0.000000	0 008449	0.00000	0.000000	0.000000	0,000000	0.00000	0.00000	0.00000
	COMI & LIGHTTE	0 005255	0 006066	0.003776	0.005321	0.005490	0.001951	0.003780	0.001981	10000	0.013938
	CRUDE PETROLEUM & N. GAS	0.000000	0.000000	0.000213	0.00000	210000	00000	00000		00000	000000
	INON ORE	0.000000	0.00000	0.000000	0.00000	000000	0.00000	000000	00000	000000	000000
	OTHER RETAILS HINERALS	0.000000	00000	00000	00000	000000	0 000000	0.00000	0.000055	0:000082	0.011058
2 2	NUN PELLA PINOR PINEMAN	0.056216	00000	0 007332	0 000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ş	- Control										
23	KEANDSARI BOORA	0.020724	0.00000	0 032548	0.000000	0.00000	0.000000	0.000000	_	0.000000	0.000088
22	HYDROGENATED OIL	0.00000	0.000000	0 002977	0.00000.0	0.00000	0.000000.0	0.000000	0.000000	0.000000	0.00000
	OTHER POOD & BEVERAGE	0.001237	0.346558	0.079510	0.001818	0.000081	0.000200	0.001409	0.000016	0.000076	0.000000
	COTTON TEXTILES	0.000962	0.019372	0.001446	0.194868	0.004725	0.049154	0.001287	0.110432	0.000628	0.002521
	WOOLLEN TEXTILES	0.00000.0	0.000000	0.000012	0.000249	0.202445	0.000103	0.000000	0.020764	0.00000	0.000022
56	ART SILK & SYNTHETIC FIBRE	0.00000	0.00000	0.000003	0.008294	0.033879	0.221753	0.001190	0.026469	0.000	0.000267
	JUTE, REMP, MESTA TEXTILLES	0.011369	0.001032	0.003019	0.003661	0.011032	00000	0.018505	0.067988	0000	0 002695
	MAN TEXTILES	0.00002	0.00000	0003599	0.000720	0.001373	0.001301	0.000055	0.006728	0.049632	0.000798
8	PAPER & PAPER PRODUCTS	0.000681	0.001700	0.009063	0.002717	0.000864	0.005585	0.001682	0.002640	0.000510	0.258733
i	A management of the second of	000000	000000	00000	0.5000	00000	000000	000000	000000	0,000,0	791000 0
5	DEATHER & LEATHER PRODUCTS	000000	000000	000000	000000	0.00000	0.00001	0.00000	0.000380	0.000355	0.000296
	PLASTIC PRODUCTS	0.002572	0.006802	0.006726	0.001899	0.002177	0.002603	0.002694	0.008162	0.002545	0.003832
Ä	PETROLEUM PRODUCTS	0.048878	0.004138	0.009188	0.014154	0.010887	0.009930	0.017498	0.004751	0.002655	0.012232
2	COM TAR PRODUCTS	0.000045	0.000062	0.000085	0.000343	0.000113	0.000876	0.000103	0.000003	0.000171	0.000057
36	FERTILIZERS	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000	0.00000	0.00000	0.00000	000000
3	PESTICIDES	0.00000	0.00000	0.00000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.0000
8 8	SINTHETIC FIRST & RESIN	0.000000	0.000016	0.000029	0.003943	0.050171	0.204380	0.001975	0.003631	0.000	0.00101
	CIDENT	0.00000	0.000000	0.000000	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000.0
1			-							Con	Contd

ANNEXURE: 1.1
INPUT OUTPUT COEFFICIENTS 1991-92

	SELETOUSI			н	INDUSTRIES	R 1 E 8				
COMMODITY SECTOR	21 22 23 24 25	22	23	24	25		26 27 28 29	28	29	8
OTH NOW MET MINERAL PRODS	0.00420	0.000168	E08900 0	0000	0000000	0000			000000	
TOOM & STEET.	00000	2000	1000	0000	00000	0000	0.0000		0.000	
Men termona venare	0000	201600	00000	0.000.0	000000	0.000066	0.004852	0.00000	0.001178	0.001030
The state of the s	0.00000	0.00000	0.000000	0.000031	0.000653	0.000654	0.000000	0.003989	0.000127	0.015342
THACTORS & OTH. ACRU. HACH.	0.00000	0.000000	0.00000	0.00000.0	0.00000.0	0.00000.0	0.00000	0.00000	0.00000	0.00000
MACHINE TOOLS	0.00000	0.00000.0	0.00000.0	0.00000	0.00000	000000	0.00000	0.00000	000000	000000
OTH NON ELECTRICAL MACH.	0.006374	0.001327	0.005135	0.006486	0.004396	0.002883	0.003644	0.003845	0.00233	0.006648
RECTRICAL MACHINERY	0.00000	0.00000	0.00000	0 000000	000000	000000	00000	00000	00000	0000
COMMUNICATIONS EQUIPMENT	0.00000	0.00000.0	0.00000	0 000000	000000	000000	000000	00000		
19 PLECTRONIC ROUIPMENT	0.00000	0.00000	0 000000	000000						00000
RAIL EDUI PAGENT	000000	000000	000000	000000	000000	00000		10000		0000
					2000	9.0000	0.00000	0.00000	0.00000	0.00000
HOTOR VEHICLES	0.00000	0.008000	0.000000	0.00000	0.00000	000000	000000	000000	000000	
OTHER TRANSPORT EQUIPMENT	0.00000	0.000000	0.000000	0 000000	0.00000	0.00000	000000	0.00000		00000
OTHER HANDFACTURING	0 004414	0.038757	0 016698	0.005752	0.007504	0.005276	0.007163	0 004511	0 003821	01000
CONSTRUCTION	0.001863	0.000739	0.004017	0 001662	0 001 70B	0.0100	0 000 340	00 00 0	10000	20000
ELECTRICITY ETC.	0.024557	0.017733	0.011198	0.037534	O DODAAR	0.067775	0 033663	0000	00000	
RAIL TRANSPORT SERVICE	0 00700	0 006423	201900	0.003289	000100	100			200000	0.017100
OTHER TRANSPORT SERVICE	0 014589	508010	0.024273	0.034331	000000	100000				0.0000
COMMICATION	0 001442	0.002225	0 001649	2000	000000	000	0.036173	100.00	0.019134	0.017184
- CONDA	0 122142	104460		20100			0.001940	0.001	0.000366	0.005172
1			1007	7/6060.0	0.079413	0.050979	0.094996	0.041407	0.076866	0.060139
MEN DERVICES	106750.0	96/870.0	64/160.0	0 047235	0.114687	0.043983	0.039521	0.042143	0.017932	0.064041
61 TOTAL	0.703257	0.785288 0.774208	0.774208	0 596961	0.672001	0.739873	0.655944	0.386968 0.600877	0.600877	600877 0 618722

AND EDGESTERS AND	000400	130.101	***************************************	100000	00000	000000				
CONTRACTOR AND	0.014300	2000	0.0000		0.18130	0.046508		0.016199	0.025271	0.051195
64 GROSS CATPUT	1 000000	1.000000	1 000000	1 000000	303869	4 000000	1 000000	0.596834	0.373852	0.330083
			2000		00000	1.00000		1.00000	00000	

ANNEXURE: 1.1
INPUT OUTPUT COEFFICIENTS 1991-92

				-	NDUST	RIES				
SIN COMMODITY SECTOR	31 32	32	33	34	ž	36	37	38	39	9
1 PADDY	0.000000	0.00000	0 000000	0.000000	0.000000	0.00000	0.00000	0.00000	0.007264	0.00000
PHEAT		0.000000	0 000000	0000000	0.000000	0.00000	0.000000	0.00000	0.000148	0.000000
OTHER CEREALS	0 000000	0.000000	0.000000	00000	0.00000	0.00000	0.00000	2000	0.00000	00000
PULSES	0.000000	0.00000	0.000000	0000000	0.00000	000000	0.00000	00000	000000	
SUCARCANE	0.000000	0.000000	0.00000	000000	00000	00000	000000		00000	00000
3005	0.000000	0.00000	0.000000	000000	0.0000	000000	000000		00000	
corton	0.000000	000000	0000000	0.000000	0.000000	000000	0.00000	0.00000	0.00000	
TEA	0.00000	0.000000	0.000000	0000000	0000000	0.00000	0.00000	0.00000	0.00000	0.0000
	000000 0	0.000000	0 000002	0000000	000000	0.00000	0.00000	0.00000	0.000000	000000
O PLESSER	0.006178	0.073091	0.000119	0000000		0.00000	0.00000	0.000419	0.00000	0.00000
Carrier Charles	990000	000000	000000	000000	000000	000000	0.00000	0.00000	0.013828	0.00000
11 CIRCA CACAS	90000			000000	000000	000000	000000	0.00000	0.000307	0 000000
	0.000000	0.0000	0000	0000	2000	0000	0000	0.007478	0 004693	00000
13 FORESTRI & LOGGING	0.000000	0.000344	0000	00000	000000	00000	000000	000000	0.00000	000000
	000000	0000	00000	2000	303506	0.014086	E80000 0	006900	0 001973	0.048128
15 COM P LIBRITE	0000000	000000	0.00000	0.467209	000000	0.014856	0.00000	0.000047	0.000133	0.00000
		00000	000000	000000	000000	0.0000.0	0.00000	0.00000	0.00000	0.00000
	000000	000000	0000000	0 000000	0.00000	0.00000	0.00000	0.00000	0.000058	0.00000
	100000	0 004824	000000	000000	0.003775	0 071892	0.017062	0.008724	0.012986	0.161822
	0.00000	0.00000	0.00000	0.000000	000000 0	0.000000	0.00000	0.000408	0.000964	0.00000
								-		
	0.000000	0 000000	0.00000	0.00000	0.000000	0.00000	0.00000	000000	0.000	
	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	000000	0.00000	2000	
	0.005406	0.00000	0.000010	0.000000	0.00000	0.000210	000000	0.00733	10000	
	0.002417	0.006477	0.003896	0.000401	100000	000000	00000			
25 WOOLLEN TEXTILES	0.000195	0.00000	0.000000	0.0000	000000	000000	000000			
	0.001488	0.030031	0.00	0.0000	0.00000	800000	00000	00000	1,755.00	0.025894
JUIL, BERR, RESIA TEXTILES	0.002341	97000	0.000031	00000	00000	000000	210000 0	0.000128	0.000283	0.000808
	0.017737	0.00736	0.00000	0000	00000	0000175	0 002327	090100	0.003874	0.000168
30 MAPER 6 PAPER PRODUCTS	0.004137	0.002568	0.003844	0.000649	0.000834	0.000793	0.006290	0.048037	0.014890	0.000066
								000000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00000
_	0.190931	0.000452	0.000048	0.00000	0.00000	0.00000	0.00000	0.00000	. 0000	0.0000
	0.056743	0.113551	0.002307	0.00000	0.000000	0.00000	0.00000	0.0000.0	0.000560	0.00000
	0.003492	0.002593	0.052182	0.001989	0.001158	0.006204	0.012387	0.00,00	0.01100	0000
14 PETHOLEUM PRODUCTS	0.004247	0.010415	0.009192	0.097832	0.025351	0.130892	0.010416	0.040801	0.032681	0.013869
	0.000007	0.000052	0.000164	0.000001	0.052542	0.000259	0.000036	0.000010	0.003124	0.00032
	0.000000	0.00000	0.00000	000000	0.00000	0.076728	0.00000	0.000000	0.000000	0.00000
PESTICIDES	0.00000	0.00000	0.00000	0.00000	0.000000	0.000041	0.110465	0.000030	0.00000	0.00000
SE STATESTIC PIERE & RESIN	0.003815	0.012030	0.299381	0.000010	250000.0	0.00038	000000	0.048830	00100	
OTHER CHEMICALS	0.041030	0.140312	0.030379	0.00000	05050	19760	0	100000	0.00010	90000
	,	,								

ANNEXURE: 1.1
INPUT OUTPUT COFFICIENTS 1991-92

30 30 30 30 30 30 30 30					H	D C	87278				
1 PRODA 0.001164 0.000107 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000		15		33	34	35	36	37	38	39	9
1967 1967	41 OTB. HON HET. MINERAL PRODS.	0.001158	0.002283	0.003850	0.00000	0.000432	0.000212	474300	800000	0.000067	97.000
1962 0.000026 0.00002 0.0000	48 INON C STREE	0.000061	0.004043	0.002274	0.00000	0.000294	000000	0 000086	0000	18000	017127
1 March 0 0 0 0 0 0 0 0 0		0 000268	0 001072	0.004660	0.000022	0.00000	0 000348	0.002860	0.000642	00000	20000
HAZI. 0 000000 0 000000 0 000000 0 000000 0 0		0.000000	000000	0000000	0.000000	0.00000	000000	00000	00000		
MACH. 0 01184 0 1184 0		0 000000	0.00000	000000 0	000000	000000	000000	000000	00000		
		0 001985	0 001292	0.001640	0.000342	0.002120	0.003647	0.00000	0.003121	003603	0.00000
		0 000000	0.00000	0 000000	0.00000	0000000	000000	00000	000000	00000	
	48 COMMUNICATIONS EQUIPMENT	0 000000	000000	0 000000	0.00000	0.00000	000000				
UTHARDY 0 000000 0 0000000 0 0000000 0 0000000		0 000000	0 000000	0 000000	0 000000	000000	000000	00000			
UTPARTY 0.00070. 7 000000 0.000000 0.000000 0.000000 0.000000		0 000000	0.000000	0 000000	0.00000	0.000000	0000000	000000	0.00000	0.000000	0.00000
### CONTRACT OF CO		,000	00000	000000				:			
UTTABATY 0.000000 0.000000 0.000000 0.000000 0.000000		0 0000	200000	0.00000	0.00000	0000000	0000000	0 000000	0.00000.0	0.000000	0.00000
WIGG 003341 0 01128 0 00341 0 00341		0,00000	0000000	0 000000	0.000000	0.000000	0000000	000000	0.00000	0,00000	0.00000
VICE 0 002431 0 003442 0 004820 0 004818 VICE 0 004449 0 003449 0 003480 0 004882 0 004882 0 048830 0 033540 0 003554 0		0.005832	0 011218	0.007192	0.006547	0.010015	0 006003	0 084177	0.010204	0.021062	0.014385
WIGG 0 007451 0 007481 0 004444 WIGG 0 007451 0 007481 0 004444 0 072231 0 07234 0 072754 0 072754 0 072231 0 07254 0 072754 0 072754 0 072231 0 07254 0 072754 0 072754 0 072231 0 07254 0 072754 0 072754 0 072231 0 07254 0 072754 0 072754 0 072231 0 07254 0 072754 0 072754 0 072231 0 07255 0 07255 0 07255 0 072231 0 07255 0 07255 0 07255 1 0 0700000 1 07256 0 07255 0 07255 1 0 070000 1 07256 0 07255 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 070000 1 07256 0 07256 1 0 07000 1 07256 0 07256 1 0 070000 1 07256 0 072		0 002819	0 003143	0 002402	0 000881	0.003782	0.002284	0 002316	0.001758	0.002067	0.004206
WTCZ 0 001111 0 010444 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 001054 0 01055		0 007493	0 007987	0 023585	0 004466	0.049267	0 076740	0.016939	0.039709	0.032190	0.079662
WATCZ 0.005510.0.018449.0.002356.0.003358.0.003358.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.003359.0.00359.0.	RAIL TRANSPORT S	0 001411	0 001654	0 000769	0 003054	0 132662	0 016400	0 002052	0.005140	0.004016	0.032349
0 000333 0 000334 0 000435 0 000435 0 000433 0 000433 0 000433 0 000433 0 000434 0 0	OTHER TRANSPORT	0 025740	0.016454	0 021756	0 008336	0.056500	0 020464	0.018586	0.016809	0.020399	0.016029
0 012259 0055270 005826 0 045826 0 045826 0 045829 0 0558	_	0.002351	0 003556	0.003963	0 000453	0.000874	0.001600	0.004184	0.002963	0.003759	0 001586
0 044450 0 028639 0 038036 0.016279 0 051780 0 0517803 0 0517803 0 0517803 0 051780		0 112259	0 085920	0 045826	0 049103	0.177252	0.091111	0.056463	0.047999	0.071130	0.082064
0 (1783) 0.38652 0.586821 0.67839 0.04082 0.12883 0.20173 0.50182 0.1745 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819 0.17819	-	0 044650	0 029639	0 039036	0.016279	0.052381	0 046610	0.098842	0.028536	0.041745	0.047493
0 67883 0.586552 0.564251 0.678339 0.044652 0.132851 0.20173 0.57110 1.000000 1.000000 1.000000 1.000000											
0.044652 0 132851 0 20173 0 267140 0.337468 0 .28058 0 0 24575 0 0.054521 1.000000 1.000000 1.000000 1.000000 1.000000	61 TOTAL	0 617883	0.586552	0 564251	0.678339		0 739118	0 626809	0.498882		0.613325
MAT. TOTAL TAX 0.044652 0.122851 0.20173 0.261740 0.021155 0.037834 OWDERS VALUE ADDED 0.337465 0.264575 0.054521 0.0622447 0.222948 OWDERS SATERY 1.0000000 1.0000000 1.0000000 1.0000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000											
WHINS VALUE ALUED 0.337463 0.280596 0.234575 0.054521 0.062447 0.222948 GROSS OVIPVI	62 NET INDIRECT TAX	0.044652	0 132851	0 201173	0 267140	0.021155	0.037934	0.062424	0.262538	0.093802	0.038812
	64 GROSS OFFER	337465	0.280596	0 234575	0.054521	0.062447	0.222948	0.310767	0.238580	0.302776	0.347862
		7,00000	7.00000	7 00000	000000	1.00000	1.000000	1.000000	1.000000	1.000000	1.000000
										ĺ	

ANNEXURE: 1.1 INPUT OUTPUT COEFFICIENTS 1991-92

SN COMMODITY SECTOR										
	₹	42	9	\$	45	9	41	4	\$	S,
	805000	000000	000000	0.00000	0.00000	0.00000	0.000000	0.00000	0.000000	0.00000
TOTAL T	0 000121	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Amenda Changal o	000000	0.00000	000000	0.00000	0.00000	0.00000	0.000000	0.000000	0.00000	0.00000
A THE CO.	000000	000000	0.00000	0.00000	000000	0.00000	0.00000	0.00000	0.00000	0.00000
anapara a	0.00000	0.000000	000000 0	0,00000	0.00000	0,00000	0.00000	0.00000	0.00000	0.000000
diameter of	0.00000	000000 0	0.00000	0.00000	0,000000	0.00000	0.000000	0.00000	0.00000.0	0.00000
	000000	000000	000000	0 000000	0.000000	0.00000	0.000000	0.00000	0,00000	0.00000
	000000	000000	000000	0000000	0.00000	0.000000	0.000000	0.00000	0.000000	0.000000
	00000	00000		000000	000000	000000	000000	000000	0.00000	0.00000
10 STREET	0.000045	0.000000	0000000	0000000 0	0.000000	0.000000	0.00000	0.00000	0.00000.0	0.00000
- COURTE CRODE	0 000076	0 000000	0000000	0.00000	0.000000	0.00000.0	0.000000	0.00000	0.00000.0	0,000000
	0.000054	0,00000	0.00000	0.00000	0.00000.0	0.00000.0	0.000000.0	0.00000.0	0.000000	0.00000
13 FORESTRY & LOGGING	0.005176	0.001323	0 000619	0.000463	0.001862	0.003370	0.000163	0.000488	0.000010	0.004926
	0.00000.0	0.00000	0000000	0.00000.0	0.00000.0	0.00000.0	0.000000	0.000000	0.000000	0.000000
	0.023163	0.023504	0.003638	0.002901	0.000393	0.000552	0.000402	0.000049	0.000069	0.00033
	0.000474	0.000208	0 000460	0.000001	0.000003	0.000038	0 000058	0.000150	0.000011	0,000045
	0.00000.0	0.004986	0.00000	0,000000	0.00000	0.000000	0.000000	0.00000	0.00000	0.000000
8 OTHER NETALLIC MINERALS	0.000000	0.001814	0.109014	0.00000.0	0.000000	0.000001	0.00000	0.00000	0.00000	0.000000
	0 086017	0.023924	0 003692	0.000000	0.000005	0.000071	0.000000	0.000000	0.000885	0.000000
	0.000158	000000 0	0.000000	0000000	0.000000	0.000000	0.00000	0.00000	0.00000	0.00000
and the same of the same of	000000000	000000	000000	000000	0 000000	0.000000	0.00000	0.00000	0.00000	0.00000
	0.00000	0.000000	0.000000	0.00000	0.00000	0.000000	0000000	0.00000.0	0.000000	0.00000
	0.000021	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000	0.00000	0.000000	0.00000
	0.000903	0 000048	0.000001	0.000162	0.000170	0.000468	0.000522	0.000309	0.000283	0,000055
	0.000000.0	0.00000	0000000	0.000000	0.000000	0.00000	0.00000	0.00000	0.000000	0.000000
	0.000004	0.00000	0 000004	0.00000	0.00000	0.000089	0.000009	0.00000	0.00000	
	0.001818	0.000666	0.000812	0.000105	0.000270	0.000439	0.000472	0.00020	0.000294	
28 OTHER TEXTILES	0.000119	0.000001	0.000000	0.00000	0.000000	0.002732	0.004466	0.004518	0.000662	0.000410
	0.003066	0 0000079	0.000302	0.000454	0.001014	0.001147	0.006066	0.005721	0.003123	. 0000B
STANDED CONTACT > CONTACT :	P00000 0	0.00000	0.000012	0.000129	0.000230	0.000048	0.000003	0.000000	0.000070	0.000000
	0.000573	0.00000	0.000028	0.027853	0.000114	0.002268	0.002068	0.000262	0.000029	-
	0.002240	0.000245	0.001144	0.000802	0.001076	0.000896	0.002220	0.007352	0.001953	0.000398
	0.047389	0.025572	0.065733	0.010699	0.006733	0.007409	0.009829	0.003710	0.002241	0.008987
	0.001304	0.015078	0.000686	0.001318	0.000019	0.000978	0.000139	0.000383	0.000011	0.001583
	0.00000	0.00000	0.000000	0.00000	0.000000	0.000000	0.00000	000000	00000	0.00000
	0.00000	0.00000	000000	0.00000	000000	00000	00000	20000	0000	
SO SININGIAL FIRMS & RESIN	0.00000	0.00000	0.031918	0.021612	0.003980	0.000000	0.019005	0.006110	0.004091	0.020784
	0.037683	0.00000	0.000000	0.00000	0.00000	0.000648	0.000027	0.000000	0.000000	0.00000

ANNEXURE 11 INPUT OUTPUT COEFFICIENTS 1991-92

				H	NDUST	RIES				
SH CONNICT BECTOR	7	42	43	7	\$	46	4.1	2	\$	8
41 OTH NOW HET HINERAL PRODS	0 043102	0 004370	0 000177	0 000011	0 000526	0 000347	0.005340	847500 0	0 002143	100000
	0 015932	0 272356	0 034633	0 202923	0 201200	0 188860	0 096280	0 030911	0 007363	0 07032
43 NON FERROUS METALS	0 003772	0 034255	0 172046	0 009609	0 020087	0 023802	0 099597	0 016965	0 008117	0 02432
44 TRACTORS & OTH AGRI HACH	0 000000	000000 0	0000000	0 216342	0 00000	0 001848	0 000053	000000	00000	100
45 MACHINE TOOLS	0 00000	000000 0	000000	0000000	0 025878	0 000125	000000	000000		
46 OTH NOW ELECTRICAL HACH	0 003101	0 003873	0 001676	0 032155	0 017611	0 139800	0 003492	0 000083	0 000012	0 00 51 87
47 ELECTRICAL MACHINERY	0 000382	0 000634	0 006210	0 003066	0 022994	0 019198	0 114536	0 154310	0 256540	0 01876
48 COMMUNICATIONS EQUIPMENT	000000 0	0000000	0000000	0000000	0 000000	0 000400	0 002282	119603	0 183520	0000
	0000000	0000000 0	0 000000	0 003237	0 000032	0 000428	0 004410	0 008368	0 043558	0 00588
SO RAIL EQUIPMENT	0 000000	000000 0	0 000000	000000 0	0 000000	0 000000	0 000000	0000000	0 000000	0 239779
51 HOTOR VEHICLES	0000000	0 000000	000000	286110 0	100000	0.55100.0	6,000	000000	000000	
-	000000	0000000	000000	0 001226	000000					0000
53 OTHER MANUFACTURING	0 007198	0 062392	0 013813	0 009738	0 038072	0 024067	0 031047	024000	000000	00000
54 CONSTRUCTION	0 004032	0 006560	0 003203	0 002695	0 003789	0 003863	0 002900	0 004379	0 001845	0100
55 ELECTRICITY ETC	0 017875	0 045210	0 133626	0 011540	0 017578	0 013116	0111306	00000		1
56 RAIL TRANSPORT SERVICE	0 019123	0 024494	0 008972	0 007432	0 006115	0 006779	0 004719	0 001673	00000	0 00000
_	0 025049	0 017472	0 021811	0 014846	0 010948	0 011786	0 012308	0 011151	0.006916	0000
_	0 002537	0 002212	0 002552	0 002656	0 005656	0 005886	0 003905	0 005625	0 005681	0 00077
59 TRADE	0 067841	0 07-263	0 059221	0 052796	0 031551	0 040726	0 043099	0 040395	0 032152	0 02013
60 OTHER SERVICES	0 025365	0 036820	0 055980	0 047277	0 058428	0 084307	0 047122	0 053268	0 048171	0 012751
61 TOTAL	0 462420	0 688934	0 732850	0 696611	0 479290	0 593140	•	, ~	0 609098	0 472078
62 NET INDIRECT TAX	0 046814	0 071269		-	0.054660	0 081690	0 140463		000	
63 GROSS VALUE ADDED	0 490766	0 239796			0	0 325170	0 120227		20000	
64 GROSS OUTPUT	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000
									Contd	P

ANNEXURE : 1.1 INPUT OUTPUT COEFFICIENTS 1991-92

INPUT COMMODITY BY INDUSTRY TABLE

TY SECTOR										
- Dathor	ĸ	52	53	54	55	98	57	8	59	S
	000000	000000 0	0.00000	0.000000	0.00000	0.000000	0.000125	0.00000	0.00000	0.005961
***************************************	000000	000000	0.000005	0.00000	0.00000	0.00000	0.000232	0.00000	0.00000	0.003724
OTHER CHARGE	000000	000000	0 00000	0.00000	0.00000	0.00000	0.00002	0.00000	0.00000	0.00000
Dinan Carana	00000	000000	000000	0.00000	000000	0.00000	0.000792	0.00000	0.00000	0.001460
- Foliable	00000	000000	000000	000000	000000	0.000000	0.00000	0.00000	0.00000	0.00000
	00000		000000	000000	000000	0.00000	0.00000	0.00000	0.00000	000000
o COLE	00000			000000	000000	000000	00000	000000	000000	000000
COLLON	0.00000	00000	00000	00000			00000	000000	00000	
ar	0.00000	0.00000	0.00000	00000	0000			00000		
	000000	000000	000000	0.00000	0.00000	00000			00000	
O RUBBER	0000000	o nongon	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	000000	00000	8000000	87,1200.0	000000	Godood o	0.000274	0.00000	0 00000	0.005707
	00000	00000	99990	00000	0000518		000000	0000000	000000	0.006067
	0.00000	00000	2000	2000	00000	880000	000000	000000	000000	0.000274
	700000	00000	00000	00000			000000	000000	000000	A 001 974
ONIHETA T	0.00000	0.00000	000000	00000	0.00000	0.009588	0.000440	0.00000	0.00000	0.001844
		1000	000000	00000	001108	000000	000000	0000000	0.00000	0.00000
6 CAUDE PETROLEUM & N. GAS	100000	000000	00000	00000	00000	00000	000000	000000	000000	000000
		00000	0.000.0	00000	00000		000000	000000	000000	000000
	000000	00000	0.00030	00000	0000	00000	000000	000000	000000	000000
S NOW HET. & MINOR MINEMALS	00000	00000	000000	0 00000	000000	0.00000	0.00000	0.00000	0.00000	0.001158
nemon no										
21 KHANDSARI BOOFA	0.00000	000000 0	0.00000	0.00000.0	000000 0	0.00000.0	0.000000	0.00000	0,000000	0.00000
22 HYDROGENATED OIL	0.00000.0	0.000000	9000000.0	0.00000.0	0.00000	0.000000	0.000030	0.00000	0.00000	0.000733
	0.000124	0.000000	0.000154	0.000000	0.00000	0.00000	0.002191	0.00000	0.00000	0.006148
~	0.000174	0.000252	0.002926	0,000000	0.000000.0	0.000701	0.000238	0.00000	0.00000	0.000256
	0.000014	0.00000.0	0.000132	0.000000	0000000	0.00000	0.000198	0.00000	0.00000	0.00000
	0.00000.0	0.000028	0.000031	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000	000000
	0.000186	0.000261	0.002202	0.001483	0.000000	0.00000	0.00000	0.00000	0.002712	0.00002
	0000000	0.000352	0.000421	0.000029	0.000197	0.000091	0.000852	0.00313	00000	0.0000
23 WOOD & WOOD PRODUCTS	0.000888	0.001823	0.003934	0.0030273	0.00043	0 001281	0.006345	0.020920	0.005902	0.010350
31 LEATHER & LEATHER PRODUCTS	0.000248	0.000457	0.000372	0.00000.0	0.000000	0.00000	960000.0	0.000000	0.000000	0.00000
	0.041242	0.032834	0.002041	0.000281	0.000119	0.000038	0.029175	0.000266	0.000029	0.0000
	0.003059	0.002132	0.001667	0.00000	000000	0.000810	0.00000	0.00000	0.00000	
34 PETROLEUM PRODUCTS	0.011384	0.010/08	0.008187	0.00100	1000000	0.038223	000000	000000	00000	00000
	00000	10000	00000	0.00	000000	0000000	000000	000000	000000	00000
	0.00000	0.00000	0.00000	0.000519	0.00000	0.00000	0.00000	0.000000	0.00000	0.000027
	0.000727	0.000228	0.000315	0.000008	0.00000.0	0.00000.0	0.00000	0.000000	0.00000	0.00000
	0.006874	0.016871	0.016510	0.016096	0.001140	0.000104	0.000490	0.000016	0.00000	0.031638
10 CEMENT	0.00000	0.00000	000000	0.052564	0.00000	0.00000	0.00000	0.00000	0.000000	9.00000

ANNEXURE 11 INPUT OUTPUT COEFFICIENTS 1991-92

g :	COMMODITY BY INDUSTRY TABLE											
					Z H	0	8 1 1 8					:
G.	IN COMMODITY SECTOR	ផ	52	53	3	55	56	57	82		8	ş
i Ç	1 OTH NOW HET MINERAL PRODS	0 003360	0 000334	0 007946	0 049420	0 001705	0 002371	0 000149	000000	۰	٥	000000
4	2 IRON & STEEL	0 193279	0 091116	0 142153	0 128278	0 003524	0 008896	0 000103	0 000000	0 000888	0	000004
Ť	3 NON FERROUS METALS	0 023223	0 009316	0 045136	0 000000	0 000100	0 000000	0 000000	000000	0	0	000000
Ť	4 TRACTORS 4 OTH AGRI MACH	0000000	0 000351	0 000054	0 000000	0 000000	0000000	000000 0	0 000000	0	•	000000
Ť	S NACHINE TOOLS	0 001705	0 004416	0 000000	0 000000	0 000063	0 001387	0 000000	000000	۰	0	000000
Ť	6 OTH NON ELECTRICAL HACH	0 020372	0 005725	0 001990	0 001842	0 014926	0 001309	0 003156	0 001078	0	•	00000
•		0 011533	0 006130	0 008756	0 033058	0 025646	0 011517	0 005129	0 000158	٥	0 6	000513
Ť	18 COMMUNICATIONS EQUIPMENT	0000000	0 000132	0 004777	0000000	0 000061	0 001541	0 000555	0 036707	0	• •	000548
•		0 000000	0 000001	0 000294	0 000000	0 000003	0 000104	0 000094	0 000031	ö	0	000038
ñ	SO RAIL EQUIPMENT	0 000000	660000 0	0 019290	000000 0	000000 0	0 317861	0000000 0	000000 0	Ö	•	000000
	SALL TENTON CONTROL	0 080641	0 006759	251000 0	000000	0 000262	0.00000	0.045613	0 000514	4	•	736000
íń	2 OTHER TRANSPORT EQUIPMENT	0 000612	0 140675	0 003531	000000	0 000001	8000000	0 000000	0 00000	0		991100
iń	3 OTHER MANUFACTURING	0 027783	0 012152	0 045713	0 001223	0 010047	0 011628	0 006246	0 000388	0	0	012148
ø		0 005026	0 001793	0 002213	0 000010	0 011910	0 036154	0 004418	0 024608	0	0	020870
*	SS ELECTRICITY ETC	0 013977	0 011076	0 017897	0 015119	0 243350	0 024039	0 008589	0 011805	0	0	006930
ń	6 RAIL TRANSPORT SERVICE	0 005387	0 004635	0 006792	0 013451	0 033705	0 006280	8 00 00 0	0 008890	0	0	001760
8	7 OTHER TRANSPORT SERVICE	0 011968	0 007978	0 010925	0 019516	0 010427	0 007535	0 073616	0 016119	0	9	007414
¥ň.	A COMMUNICATION	0 003397	0 002777	0 007649	0 001940	0 002544	0 001188	0 007516	0 000000	0 008421	0	007752
no.	9 TRADE	0 046323	0 034948	0 034435	0 085677	0 040422	0 012730	0 029073	0 004073	0	•	016198
ø	O OTHER SERVICES	0 046994	0 060612	0 044218	0 023279	0 008584	0 032694	0 058117	0 016582	0	0	031057
i												-
۰	61 TOTAL	0 566702	٥	0 451854	0 578291	0 509336	0 529036	0 451725	0 148347	0 263775		0 190315
ø	62 NET INDIRECT TAX	0 101398	0 059363	0 081262	0 044108	0 022716	0 019184	0 054821	0 004566	0 006449	۰	017810
•	63 GROSS VALUE ADDED	0 331900							0 847087		۰	791875
۰	A GROSS COTPOT	1 000000							1 000000		+	000000

ANNEXURE 12
INPUT OUTPUT COEFFICIENTS 1996-97

SR COMMUNITY SECTOR	1	2	6	7	'n	v	7		۵	r
1 PADDY	0 089717	0 000162	0 000000	0 000582	0 000000	0000000 0	0 000000	0 000000	0 000000	000000 0
2 WHEAT	0 000026	0 104973	0000000	0 000103	000000 0	000000	0 000000	0000000	0	0 000000
3 OTHER CEREALS	0 000038	0 000052	0 011913	0 000001	0000000	0000000	0 000000	0 000000	0 000000	0 000000
4 745.525	0 000177	0 002113	0000000	0 125940	0 000000	000000	0	0 000000	0	00000
5 RESARCANE	0000000	000000 0	0 000000	0000000 0	0 076017	000000	0	0000000	0	0 00000
ATT.		000000	0000000	0 000000	000000 0	0 000000	0 000000	0 000000	0 000000	0 00000
1 COUTON		000000 0	0000000	0000000	0000000	000000 0	0	000000 0	0000000	00000
8 445		000000 0	0000000	000000	0000000	0000000	0	0000000	000000 0	000000 0
	000000	000000	000000	0000000	000000	000000	0000000	0000000	000000	00000
THE PERSON	0000000	0000000	0 200000	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000
1 OTHER CROPS	0 000612	0 000348	0000000	0 009553	0000000	0 000000	•	0 000000	000000 0	0 000000
2 ANTHAL HUSBANDRY	0 060962	0 034461	0 151370	0 080127	0 014130	0 065713	0	0 051921	0 074494	0 00000
	0 000011	0 000004	0 000000	910000 0	0 000000	0 000000	0 000000	0000000	0000000	00000
		000000 0	0 000000	0 000000	0000000	0 000000	000000	000000	0 000000	0 000000
S COME & LIGHTE	0 000280	0 001176	0000000	0 000016	000000	0 000000	0 000000	0000000	0000000	0 00000
IS CRUDE PETROLEUM & N GAS		000000 0	0 000000	0000000	0 000000	0 000000	0000000	0 000000	0000000	000000
	0 000000	0 000000	0 000000	0 000000	0 000000	000000 0	0000000	000000	000000	000000
	0 000000	0000000	000000 0	0 000000	0 000000	0000000	000000	0000000	0000000	000000
19 NON MET & MINOR MINERALS	0000000	0 000000	0 000 0	000000	0000000	0000000	0000000	000000	0000000	0 00000
0 SUGAR	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0000000	0000000
COORD TOTAL	000000	000000	000000	000000	000000	0 000000	0000000	0000000	000000	000000
22 Manusconning Co.	000000	000000	000000	0 000001	000000	000000	0 000000	0 000000	0000000	0 00000
	0 000004	0 000040	0 000000	0 000215	0 000000	0 000000	0 000000	0000000	000000	000000
	0 000159	0 000014	0 000000	0 000032	0 000000	0 000000	0000000	0000000	0000000	0 000000
	000000 0	000000 0	0 000000	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	000000 0
	0 000000	0 000000	000000 0	000000	0 000000	0 000000	0 000000	0 000000	0000000	0 000000
	0 001239	0 000641	0 000000	0 000822	000000 0	0 000000	000000	0 000000	0 000000	0 00000
	0 0000047	0 000045	0000000	0 0000022	2000000	0 000000	000000	000000	0000000	000000
29 WOOD & WOOD PRODUCTS	0 000011	0 000009	0 000000	0 000178	0 000028	0000000	0 000046	0000000	000000	0
31 LEATHER & LEATHER PRODUCTS	000000	0 000000	0000000	0000000	000000	0000000	000000	0 000000	000000	000000
2 MARBER PRODUCTS	0 000025	0 000036	900000	2100000	10000	000000	0 0	800000		000000
	0 018022	0 018817	0.00000	0 012843	000000	000000	0 021495	000000	000000	000000
	000000	000000	000000	0000000	000000	0000000	000000	0 000000	0 000000	0
	0 074106	0 094582	0 053323	0 022399	0 072566	0 026094	0 125710	0 029255	000000	•
-	0 005416	0 003177	0 000546	0 009385	0 000795	0 001707	0 089679	0 006038	0 089109	0
38 STNTHETIC PIBRE 4 RESIN	0 000000	0 000000	0 000000	000000 0	0000000	0 000000	0	0 000000	000000	0
19 OTHER CHEMICALS	0 000001	0000000	0000000	0 0000254	000000	0000000	000000	000000	000000	000000

ANNEXURE 12 INPUT OUTPUT COEFFICIENTS 1996 97

INDUSTRIES

SN COMPOUTY SECTOR	•	8	m	4	'n	v	7	80	6	10
11 OTH NOW HET HINERAL PRODS 12 IRON 6 STEEL	0000000 0	000 000 0	0000000 0	0 00 020	0 000000	0 000000	0000000	0000000	0 000000	0000000
		0 000000	0 000000	0000000 0	0 000000 0	0 000000	0000000	0 000000	0 000000	000000
	0 020771	0 006750	0 0 0 0 0	0 C 29 P	6 00 679	0 002280	0 009321	0 000000	0 050587	0.00000
S MACALINE TOOLS	0 000000	000000	00000	0 0	0000000	0000000	000000 0	0000000	0000000	0 000000
		20000	2000	0 0 0 0 0	0 000 56	0000000	060000 0	0000000	0 000000	0 000000
		20000	0 0000		870000	000000	000000	0000000	000000	0000000
48 ELECTRONIC POULPHENT		00 0			000	0000000	000000	000000	000000	000000
SO RAIL EQUIPMENT	0000000	00 000 0	00 0	000000	000000	0000000	0 000000	0 000000	0000000	0000000
SI MOTOR VEHICLES	0 000049	0 0000 0	0 0 0	0 000023	000 030	0000000	0 000048	000000	000000	000000
52 OTHER TRANSPORT EQUIPMENT	0 000835	0 001230	930 0 0	0 002347	0 000727	0 000534	0 0050 4	000000	0 008354	00000
		0 000283	0 000005	00 00 0	0 0000 0	0 000000	0 000015	0 000000	0 000000	000000
		0 020406	0 032806	0 3 56	99 0 0 0	0 005 01	0 025058	0 000000	0 171113	0 000000
		0 0435 8	0 004 3	0 00 703	0 0 2 97	0 000000	0 0 6437	0 000000	0 000000	0 000000
RAIL TRANSPORT S	0 006252	0 010091	0 003 23	0 003501	0 004786	0 001534	0 008054	0 001812	0 000552	0 006351
	0 007712	0 007586	0 004643	0 006056	0 004623	0 002608	0 011578	0 005382	0 014732	0 006823
	0 0004B2	0 000665	9800000 0	6 0000	C 000 29	0 000000	0 000254	0 000000	0 000000	000000 0
	0 055035	0 034045	0 0164 0	0 027074	0 028800	0 0068 2	0 037069	0 0 1851	0 032357	0 023496
10 OTHER SERVICES	0 012639	0 0 8269	0 0113 1	0 010665	0 0 1999	0 0 01 9	0 010161	0 016935	0 011103	0 013667
EI TOTAL	0 386375	0 4 6959	0 333082	0 373126	0 250619	0 123123	0 450191	0 123195	0 452401	0 249234
62 MET INDIRECT TAX	0 032894	0 047846		6 0080 5	0 620 0		0 053547	0 012604	0 001694	0 051070
63 GROSS VALUE ADDED	1 000000	0 620887	0 685695	0 634907	1 000000	0 888042	0 603356	0 689408	0 549292	0 801836
TOTAL COLOR	1	7		7 000000	7 000000	000000 1	Occupan T	1 000000	1 000000	1 000000
										Contd

ANNEXURE: 1.2 INPUT OUTPUT COEFFICIENTS 1996-97

Name	COMMODITY SECTOR PADDY WHEAT OTHER CEREALS	:			7.						
THE CENTRAL STATES OF CORRESS OF	PADDY WIEM OTHER CERRALS		77	7		2	16	7	9	Ž	3
March Company Compan	PADDY WHEAT OTHER CEREALS							-			
THE CENTRAL OF CORDERS	WHEAT OTHER CEREALS	0 000092	0.004817	0.00000.0	0.000000	0000000	0.000000	0.00000	0.00000.0	0.000000	0.000000
PULIFIC CEREALS 0 1000000 0 1000000 0 1000000 0 1000000 0 1000000	OTHER CEREALS	0.000652	0.008964	0000000	0.00000.0	0000000	0.00000	0.00000	0.00000	0.00000	0.00000
THE PROPERTY OF THE PROPERTY O	OTHER CENTER	ABOOOD O	009600	000000	0000000	0000000	0.000000	0.00000	0.00000	0,00000	0,00000
THE CONTRACT OF CO					000000	000000	00000	00000	000000	000000	00000
CATTER CHARLES CONTROL CONT	PULSES	0 000136	0.01/312	00000	00000			00000	0000	00000	
The color of the	SUGARCANE	000000	0.002409	0000000	0.000000	000000	000000	0.00000	0.00000	0.00000	
150,00000000000000000000000000000000000	404.11	0000000	0.00000	0000000	0.00000.0	0000000	0000000	0000000	0.000000	0.000000	0.00000.0
CHETAL TOTAL CHITACATA CONTROL		0000000	000000	000000	000000	000000	000000	000000	000000	0.00000.0	000000
Comparison Com	COLLON				00000	00000	000000	000000	000000	000000	000000
MINISTER CHIEF CHI	121	0.00000	000000	000000	0.00000	00000	000000	00000	0000	0000	
THE STATE WITHOUT COURTS. COURTS COURTED COURTS COU	COFFEE	0.00000.0	0.00000.0	0000000	0.000000	0000000	0 000000	0.000000	0.00000	0.00000	0.00000
THE CADES OTHER C		0.00000	000000	000000 0	0.00000.0	0000000 0	0000000	0.00000.0	0.00000	0.00000.0	0.00000
ATHAL, NUMBANIER 10 1001029 0.0001010 0.000010 0.000000 0											
FREETENT & LOCATION C 000000 0 000000 0 000000 0 000000 0 0000		530050	0 250450	911000 0	000000	000000	000000	000000	0.00000	0.00000	0.000149
THE MEMBERS OF STREET CONTROL OF		00000	0000	2000		000000	000000	000000	000000	000000	00000
COMPANY LANGESTRY & LONGOON CONTROL CO		0.050920	000000	000000	00000	00000	000000	00000	00000	0000	
CONT. LIMITER 1 (100 000 00 000000 0 000000 0 000000 0 0000		0 000001	0000000	0.001637	0.00000	0.00000	000000	0.00000	000000	0.00000	0.00
CHOIN PETCHIAN 1.035 0 000000 0 000000 0 000000 0 000000 0 0		0000000	0000000 0	0000000 0	0000000	0.00000.0	0000000	0000000	0000000	0.000000	0.00000
The Principal is 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		0.000270	000000	000000 0	0000000	0.003632	0.00000.0	0.000148	0.000349	0.000080	0.00111
THE REPLIES THE PROOF NITTON OF CORDING CONTROL OF		000000	0000000	000000	000000	0000000	0.00000	000000	0.000000	0.00000	0.000793
NAME OF A PARTICIPATION COURTING CONTROL C		000000	0000000	000000	0.00000	000000	0.00000	0.00000	0.00000	0.00000	0,00000
### ### ### #### #### ##### ##### ######			000000	000000	0000000	000000	0.00000	0000000	000000	0.00000	0.00000
### No. Final Market Control C		0000	000000	00000	000000	35 (900 0	00000	000000	000000	000000	19610
Company Comp		0.00000	000000	00000	0000	000		00000	00000	00000	71100
HYMOCRANIAN CHARACTERISTIC CONTROL OF CONTRO		0.000000	0.00000	0.00000	0.00000	00000	0.00000		00000		
THE STATE OF THE S		000000	000000	000000	000000	000000	0.00000	0000000	0.000000	0.00000	0.000951
COTTACT INTERPRETATION CONTROL CALLEGE OF CONTROL CONT			00000	000000	00000	000000	000000	0 000000	000000	000000	0.0000
MODIFIED		0,00000	00000	00000	0000		00000	000000	000000	000000	90000
ANY THIN A STRIPTETT FIRE CONCORD CONC		0.000.0	600000				000000	00000	000000	000000	0.0008
THE METHER PRINCE FOR STATE OF CONCORD OF CO		0.000124	000000	00000		000000		00000	00000	00000	00000
THE MEMORY PROPERTY OF ACCOUNT CONTROL OF ACCOUNTY CONTROL OF ACCO		000000	000000	200000		00000			00000		
		0.00000	000000	000000	000000	00000	00000			2000	200
MACHINE MACH		9.00000 0	000000	0.000031	0.00000	0.000009	000000	000000	0.00000		0.000
NAME & PRODUCTS CORDING SOURCES CORDING SO		0.000040	0.000000.0	0.000946	0.007016	0.00000	0.00000	0.000000	0.000117	0.000000	0.00031
INTERPRETABLE PRODUCTS 0.000019 0.000110 0.00		0.000004	0.000000	0.000332	0.000261	0 000824	0.00000	0.000034	0.011105	0.000588	0.00011
Profession Pro		0.000033	0.000000	0 002117	0.000000	0.004141	0.000000	0.000338	0.000525	0.00000	19000.0
PLASTIC PROCESTS 1 000029 0 000029 0 000020 0 000020 0 000000 0 000000 0 000000		000000	000000	0000000	000000	0.00000	0.00000	0.000000	0.00000	0.00000	0.0000
######################################		000000	000000	0 002328	000000	0.000241	0.00000	0.000099	0.000374	0.000037	0.0000
CONTINUE PRODUCTE 0.022296 0.000000 0.011180 10.01048 0.025689 0.025114 0.011410 0.01414 0.01444 0.014		0 000036	0000000	0.000151	0.00000	0.000010	0.00000	0.00000	0000000	0.000325	0.000605
A CONTRATA PROMISES CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROLS CONTROLS CONTROLS CONTROLS CONTROL CO		0.022996	000000	0.011138	0.110749	0 026698	0.025114	0.071474	0.063766	0.070231	0.01244
######################################		000000	0.00000	0.00000	0.00000	0.00000	0.000000	0.000822	0.000228	0.001071	0.001127
SENTICIDAD (2000000) CONGOSTO O CONGOSTO CONGO		0 049203	000000	0 000078	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
SYNTHETIC FIBER 4. RESIN 0.000000 0.0000000 0.0000000 0.0000000 0.000000		0.005628	0.00000	0.000036	0.00000	0.00000	0.00000	0.000000	0.00000	0.000000	0.000000
OTHER CHEMICALS 0.000028 0.004122 0.000001 0.000792 0.023793 0.000717 0.018691 0.020846 0.015226 0.00000 0.000000 0.000000 0.000000 0.000000	SYNTHETYC PIRES	0.00000	000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00003
CENERT 0.000000 0.000000 0.000001 0.000000 0.000000 0.000000 0.000000 0.000000	OTHER CHEMICALS	0.000028	0.004122	0.00000	0.000792	0.023793	0.000717	0.018691	0.020846	0.015326	0.006259
		0.00000	0.00000	0 000001	0.00000	0.00000	0.008843	0.00000	0.00000	0.00000	0,00000

ANNEXURE : 1.2 INPUT OUTPUT COEFFICIENTS 1996-97

INDUSTRIES

TABLE STATE STAT	000000 0.000000 000000 0.000000 000000 0.000000 000000 0.000000 000000 0.00000 000000 0.00000 000000 0.000000 000000 0.000000 000000 0.000000 000000 0.000000	0.012664 0.002660 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.0000000 0.0000000 0.0000000 0.000000	0,000000 0,000000 0,000000 0,000000 0,000000		0.003809 0.003809 0.000000 0.000000 0.000000 0.000000 0.000000
MACHINE MACHINE 0.00000 0.00000 0.00000 MACHINE MACHINE 0.00000 0.00000 MACHINE MACHINE 0.00000 0.00000 MACHINE MACH		0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000			0.000000 0.000000 0.000000 0.004325 0.000000 0.000000 0.000000
Part		0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000220 0.000220 0.000000 0.000000 0.000000			0.000000 0.000000 0.004325 0.000000 0.000000 0.000000 0.000000
MACHINE POOL 0 (200522) 0.000000		0 000000 0 146518 0 000000 0 000000 0 000000 0 000000 0 000000	0.000000 0.000000 0.000000 0.000000 0.000000			0,000000 0,000000 0,000000 0,000000 0,000000
MACHINE TOOLS OTHER OTHER TOOLS OTHER OT		0 000000 0 0000000 0 0000000 0 0000000 0 000000	0 000000 0 0000280 0 000000 0 000000 0 000000 0 000000 0 000000			0.000000 0.004325 0.000000 0.000000 0.000000 0.000000
Mark BLATTACAL Mar. (00.1)		0 000000 0 000000 0 000000 0 000000 0 000000	0.009280 0.000027 0.000000 0.000000 0.000000 0.000000			0.004325 0.000000 0.000000 0.000000 0.000000
ODD0514 0000000 0 000014 0 000000 0 000000 0 000001 0 000001 0 000000			0.000000 0.000000 0.000000 0.000000 0.000000			0.000000
######################################		000000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.0000193 0.000000			0.000000
#ALL: #QUERNET 0 000000 0 000000 0 000000 0 000000 0 0		0.000000	0.000000 0.000000 0.000000 0.000000			0.000000
		0.000000	0.000000			0.000000
MOTOR VEHICLES 0 000024 0.000000 0 004534 0 0 01439 0 000000 0.00072 0 0 07HER PARATACTURING 0 000032 0 001342 0 002343 0 0 014550 0 001342 0 003314 0		0000000	0.000193		0.000073	0.000000
CHER TRANSPORT EQUIPMENT 0 0014439 0 000000 0.000172 0 003ER HANDEATURING 0 000032 0 001342 0 003141 0 004817802701		0000000	0.000000	•		0.00000
CCMSTRUCTION 0 014750 0 0000783 0 001314 0 003243 0 0014750 0 000763 0 003114 0		0 000000	0 000927		0.00000	
CONSTRUCTION 0 014750 0 000763 0.003114 0		1,0110				0.008025
	000000 0.002923	10110	0 002722	•	_	0.006865
ELECTRICITY ETC. 0 005456 0 000000 0 000527	0	0 004464	0.070468	۰	0.032615	0.004318
RAIL TRANSPORT SERVICE 0 003630 0 001880 0.003762	0	0 001882	0.002927	0.003513		0.004398
OTHER TRANSPORT SERVICE 0 005406 0 009314 0.038195	1185 0 007743	0.001822	0 003433		0.010096	0.035869
COMMUNICATION 0 000149 0 000000 0,002360	0000 0.001144	0 000000	0.004364	0.001302		0.001896
TRADE 0 030715 0	770 0.018393	0 007448	0.009767	0.014380	0.010505	0.119192
50 OTHER SERVICES 0 011961 0 003540 0 019852 0.004317	1317 0.026269	0.031681	0 021025	0.030110		0.091374

11 TOTAL 0.152295 0.331140	295 0 331140	0 255971	0 216799	0 216799 0.349471	0.184196	0.823332
ASSESSED OF COROUGH OF SECRETOR OF THE PROPERTY AND THE PROPERTY OF THE PROPER	4 19 10 0	4				
GROSS VALUE ADDED 0.773954 0 423593 0 895184	443 0 652716		0 763277		0.01988	0.000000
1.000000 1 000000 1.000000		-	1.000000			1.000000

INPUT OUTPUT COEFFICIENTS 1996-97 ANNEXURE 12

PROOF PROO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	20000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27 27 27 27 27 27 27 27 27 27 27 27 27 2	00000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80000000000000000000000000000000000000
Company Comp	0.00202 0.0020	000032 0000032 000000033 000000033 00000000		0 000000 0 0000000 0 0000000 0 0000000 0 000000	0 000000 0 000000 0 000000 0 000000 0 000000			
COUNTRY CITE	0 002000 0 00000 0 00000 0 00000 0 00000 0 0000 0 00000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 00000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 00000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 00000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 00000 0 0000 0 000	000001 000001 0000001 0000000 0000000 000000		0000000 0000000 0000000 0000000 0000000	0 000000 0 000000 0 000000 0 000000 0 000000			
TOTAL STATE OF THE	0 000000 0 0000000 0 000000 0 014467 0 014467 0 000000 0 000000 0 000000 0 000000 0 000000	0000000 0000000 0000000 0000000 0000000		0 000000000000000000000000000000000000	0 1637 53 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Title	0 000000 0 000000 0 000000 0 000000 0 000000	000000 000000 000000 000000 000000 00000		0.000533 0.000000 0.000000 0.000000 0.000000 0.000000	0 153451 0 000000 0 000000 0 000000 0 000000 0 000000			
CONTONION CONTON	0000 0000 00000			0 000000 0 000000 0 000000 0 000000 0 000000	0 000000 0 000000 0 000000 0 000000 0 000000			
Comparison	000 0000 00000			0 000000 0 000000 0 000000 0 000000 0 000000	0 000000 0 000000 0 000000 0 000000 0 000000			
OOFTE CONTES COOPE CONTES COOPE COOP	0000 00000			0 000000000000000000000000000000000000	0 0000000 0 00000000000000000000000000			
OTHER GLOPS WARRALL TREASURY	0000 00000			0 000000 0 000000 0 000000 0 000000 0 000000	0 000000 0 0000000 0 000000 0 000000 0 000000			
MARINEA, INSPECTOR 0 000000 0 100000 0 100000 0 100000 0 100000 0 100000 0 100000 0 100000 0 100000 0 1000000	000 00000	000000000000000000000000000000000000000	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	0 000000 0 000000 0 001490 0 000000 0 000000 0 000000 0 000000	0 000000 0 000000 0 000000 0 000000 0 000000	0 000499 0 000064 0 000000 0 000031 0 000000 0 000000	0 000000 0 384184 0 000000 0 000546 0 000000 0 000000 0 000000	0 000010 0 020781 0 010647 0 010663 0 010000 0 010715 0 010715
THERTON 1 LOCATION 0 0005019 0 0005019 0 0005010 0 00050	00 00000	800000000000000000000000000000000000000	000000000000000000000000000000000000000	0 000000 0 000000 0 000000 0 000000 0 000000	0 000000 0 000000 0 000000 0 000000 0 000000	0 000000 0 001216 0 000031 0 000031 0 000000	0 384184 0 000000 0 000546 0 000000 0 000000 0 000000	0 020787 0 010647 0 010647 0 010634 0 0100000 0 010715
THERIPS 0 000000 0 000000 0 000000 0 000000 0 0	0 00000	000000000000000000000000000000000000000	000000	0 000000 0 00011490 0 000000 0 000000 0 000000	0 000000 0 002887 0 000006 0 000000 0 000000	0 000000 0 000031 0 0000031 0 0000000 0 0000000	0 000000 0 000546 0 000106 0 000000 0 000000	0 000000 0 010647 0 000634 0 000000 0 010718
COLAL # 1.1000 C	00000	100000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000	0000000	0 000000	000000000000000000000000000000000000000
ERRORATION F F 0.00 TREATALLY HERALAS OTHER PATTLET HERALAS OTHER POTT HERALAS	00000	000000000000000000000000000000000000000	2000000	000000000000000000000000000000000000000	0000000	0000000	0 000000	0 000000
NORTH HITERALS 0 000000 0 0 000000 0 0 00000 0 0 0 0	000	180000 0	0000000	0 000000	0000000 0	0 000000	0 000000	0 000000
SUZAR E HINOR MINERALS 0 016242 0 SUZAR DECORA 0 011268 0 FRANCISANI DECORA 0 011268 0 OFFICE FORMER POOR 4 BEYTRAMOR 0 001237 0 OFFICE FERTILES 0 000000 C	00	750000 0	000000	0 000000	0000000	0 000053	0 0000079	0 000000
SUGAR 0 C51408 0	0	0000000	000000	0000000			000000	0 000000
FIRMUSANI BOCKA 0 011268 0 0 000000 0 0 000000 0 0 000000 0 0 00000 0 0 00000 0 0 000000					0 000000	0000000	-	
HIDROGENATED OIL	0 02953	0000000	000000	0 000000	0 000000	0 000000	0 000000	000000 0
OTHER FOOD & BEVERAGE 0 601237 0 COTTON TEXTILES 0 600962 0 GOOOD 0 COTTON TEXTILES 0 600000 0 COTTON TEXTILES	o	000000	0000000	0000000	0 00000	000000	0000000	0000000
MODITEN TEXTILES 0 000000 0	538 0 022.52	9 8700 C	1800000	0 000200	0 001409	910000 0	0 000016	0 001951
	0	000249	219 72	0 000103	0000000	0 011626	0 000004	0 000022
26 ART BILK & STNTHETIC FIERE 0 000000 0 000000	0	0 019294 (0.3879	0 163525	0 001190	0 062979	0 000025	0 000267
JUTE, BENP MESTA TEXTILES 0 011058 0	G	0 01-551 (0.19478	0 000126	0 229411	0 006931	0 000214	0 003876
OTHER TEXTILES	900 0 000	9*6*00	001531	0 001953	0 019505	0 004388	0 000851	0 002695
30 PAPER & PAPER PRODUCTS 0 000661 0 001700	٥٥	0 006717	000864	0 005585	0 001682	0 002640	0 000510	0 261817
31 LEATHER & LEATHER PRODUCTS 0 000000 0 000000	000 0 000004 0	0000193	000000	0000000	0 000000	0 000039	0 000232	0 000167
0 0000000 0		0000000	0000000	000001	0000000	0 000380	0 000355	0 000296
	27,000 7 700	A 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	002177	0 002503	0 00000	0 006162	0 002343	25825000
COME THE DESCRIPTION OF THE OWNER OWN		000143	0000113	0 000876	0 000103		17,1000 0	0 000057
FECTILIZERS 0 000000 0	0	000000	000000	0000000	0 000000	0 000000	000000 0	0 000000
PESTICIDES 0 000000 0	000000 0 000	0000000	000000	0 000000	000000	0000000	0000000	0000000
38 SINTEGRIC FIRMS & RESIN O DUGODO U UDUDIO 39 OFFICE DE PRINCIPAL SE PERSIN DE DUGOS DE 236713	30	0.623010	016311	0 161473	0 014479	0 002418	0 002901	0 047235
CENTRAT	٥	0000000	0000000	0 000000	0000000	0 000000	0 000000	0 000000

ANNEXURE 1.2 INPUT OUTPUT COEFFICIENTS 1996-97

AN COMMODITY SECTOR	21	22	23	24	25	26		22	28	29		ä
OTH NOW HET MINERAL PRODS	0 003420	0 000168	E06900 0	0 00000	000000	000000	0	000000	20000	985000	9	9 5000
INCH & STEEL	0 000000	999600 0	0 000510	0 000833	121000	690000		201500	0000		6	
3 HOW FERROUS HETALS	0 000000	0000000	0 000566	0 000031	0 000655	0 000654	000	000000	002883	0000	3 2	6363
14 TRACTORS & O'TH AGRI MACH	0 000000	0 000000	0 000000	0 000000	000000	0 000000	0	000000	000000	00000		
5 MACHINE TOOLS	0 00000	000000	000000	000000	000000	000000		900000				
	0 005737	0 001195	0 06110R	865960 0	0 003957	0 002595		003280	94600			200
	0000000	000000 0	0 000000	0000000	000000	000000		00000				
18 COMMUNICATIONS EQUIPMENT	0 000000	0 000000	0000000	0 000000	0 000000	0 00000	000	000	00000			
	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	000	000000	000000	00000	•	00000
	000000	0000000	0000000 0	0 000000	000000 0	0000000	000	000000	000000	000000	8	000000
HOTOR VEHICLES	0000000	000000	000000	000000	000000	000000	0	000000	00000	00000		1
52 OTHER TRANSPORT EQUIPMENT	0 00000	000000	000000	000000	00000		9 6				5	
OTHER MANIPACTURING	A C A A C C	0 038757	0 033776	000000	2000	2000			2000		5	9
	0 001863	0 000739	20000	0 002662	902,000	0.0000	3 8	246	10000	0 003821	0 0	010882
	0.022874	0.016520	0 010432	0 042524	00000	070700	5 6	200	1500	000000	•	700700
	0 002002	0 006421	0 004105	0.003258	0 003198	0 001561			2000	20000	•	
OTHER TRANSPORT SERVICE	0 015318	0 015545	0 041840	0 025374	0 013178	0.267972	0,00	200	20770	2000	•	200000
	0 001442	0 002225	0 001649	0 001626	0 003394	605 100 0	5 8	001940	001400	211020	0	0000
	0 099940	0 104458	0 140410	0 027323	0 048706	0 000382	0 094	966	014750	0 049754		95 1090
SO OTHER SERVICES	0 048901	0 016796	0 063969	0 022389	0 047259	0.000370	0 039	039521 0	016849	0 017932	0 070	070712
		1										
1 TOTAL	0 729819	0 833916	0 787286	c 586100	0 596491	0 738795	0 696714		0 368672	0 602927	0 627509	627509
AND TOUR TANK	270000	001420										
63 GROSS VALUE ADDED	0 251936	0 074662	0 186852	150923	296157 0	169691	0 035162		509860	61620 0	0 0	049379
GROSS CUTPUT	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000	000000	000000	1 000000	•	923112
	**********		*********									

ANNEXURE: 1.2 INPUT OUTPUT COEFFICIENTS 1996-97

COMMODITY BY INCUSTATING

1 PADDY 2 WHEAT 3 OTHER CEREALS	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.007264	0.000000
4 PULSES S SUGARCANE	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000
	00000	00000	0.00000	000000	000000	0.00000	0.00000	0.00000	0.00000	0.0000
	0.000000	0 000000	0.000000	0.000000	0000000	0.000000	0.000000	0.000000	0.000000	0.000000
11 OTHER CROPS	0.000066	0 000000	0000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.013828	0.00000
	0 012587	0.000344	0.000084	0.000389	0 000338	0 000308	0.000084	0.007478	0.004693	0.000088
14 FISHING	0.000000	0000000	0.000000	0.000000	0.000000	0 000000	0.00000.0	0.000000	0.000001	0.000000
	0 000000	0.00000	0 0000010	0.428898	0000000	0 016293	0.00000	0.000903	0.002562	0.00000
1 LAUN ORE 18 OTHER HETALLIC MINERALS	0 000000	0.000000	0.000000	0000000	0000000	0000000	0.000000	0.00000	0.000058	0.00000
	0.000001	0.004674	0000000 0	0.000002	0 003658	0.073846	0.016534	0.008453	0.009676	0.185737
RHANDSART PROBA	0.00000	0.00000	0.00000	0.00000	0000000	0.00000	0.00000	0.00000	0.000122	0.00000
	0.00000.0	0.00000	0 000000	0.000080	0 000000	0.000000	0.000000	0.00000	0.000425	0.000000
23 OTHER FOOD & BEVERAGE	0.005406	0.000000	0 000010	0.000000	0.00000	0.000216	0.00000	0.007566	0.016754	0.000000
25 MODILEN TEXTILES	0.000195	0.000006	0.000000	0.000002	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000
	0.001469	0.030051	0 001911	0.000002	000000 0	0.00000	0 000000	0.00000	0.000146	0.00000
	0.002341	0.001316	0.000691	0.006403	0 001541	0 022628	0 006564	0.001833	0.003271	0.055596
26 OTHER TEXTILES	0.000422	0.00/966	0.001306	0.000000	0.000200	0.000175	0.00012	0.000128	0.000283	000000
30 PAPER & PAPER PRODUCTS	0.004137	0.002568	0.003844	0.000649	0.000834	0.000793	0.006290	0.048037	0.014890	0.000066
31 LEATHER & LEATHER PRODUCTS	0.263414	0,000452	0.000048	0.000000	0.000000	0.00000	0.000000	0.000000	0.000014	0.000000
TOTAL PRODUCTS	0.056743	0.041458	0.002307	0 000000	0.000000	0.000000	0.000000	0.000070	0.000560	0.000000
	0.005842	0.014326	0.012644	0.091962	0.034872	0.104844	0.014327	0.056124	0.056686	0.029078
COAL TAR PRODUCTS	0.000007	0.000052	0.000164	0.000001	0.072346	0.000258	0.000036	0.000010	0.003124	0.000522
	0.00000	0,00000	0.00000	0.000000	0.00000	0.000041	0.124385	0.00000	0.000001	000000
30 STATESTIC FIRST & RESIN	0.003615	0.124375	0.365307	0.000010	0.000052	0.000138	0.00000	0.142074	0.001304	0.00000
	0.000000	0.00000	0.00000	0.00000	0.00000	0.000000	0.00000	0.000000	0.000219	0.001024

ANNEXURE: 1.2
INPUT OUTPUT COEFFICIENTS 1996-97

COMMODITY BY THEORYPY TABLE

					4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4				
SN COMMODITY SECTOR	31 32 33	32	33	34	35	36	37	37 38 39 40	£	40
11 OTH NOW MET. MINERAL PRODS.	0.001158	0.002283	0.003850	0.00000	0.000432	0.000212	0.006474	0.000005	0.010987	0.007158
2 IRON & STEEL	0.000064	0.004255	0.002394	0 000000	0.000310	0.00000	0.000070	C.000209	0.000857	0.021028
13 NON FERROUS METALS	0.000268	0.001072	0.004660	0 000022	0.00000.0	0.000348	0.002860	0.000642	0.009963	0.000865
14 TRACTORS & OTH. AGRI. HACH.	0.00000	0.00000.0	0.000000	0.00000.0	0.00000	0.00000	0.00000	0.00000	0,000000	0.00000
IS MACHINE TOOLS	0.00000	0.000000	0 000000	0 000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000
16 OTH. NOW ELECTRICAL MACH.	0.001787	0.001163	0.001476	0.000308	0.00190B	0.006283	0.002114	0.002809	0.003323	0.007713
7 ELECTRICAL MACHINERY	0,00000	0.000000	0.00000	0 000000	0.00000.0	0.00000	0.00000	0.00000	0.00000	0.00000.0
18 COMMUNICATIONS EQUIPMENT	0.00000	0.00000	0.00000	0 000000	0 000000	0.00000.0	0.00000.0	0.00000.0	0.00000	0.00000
19 ELECTRONIC EQUIPMENT	0.000000	0 000000	0 000000	0 000000	0.00000.0	0.000000	0.00000.0	0.00000.0	0.00000	0.00000.0
SO RAIL EQUIPMENT	0,000000	0 000000	0.00000	0 000000	0 000000	0.00000.0	0.00000	0.00000	0.000000	0.000000
	0.000000	0.00000	0 000000	0.000000	0.000000	0.00000	0.000000	0.000000	0.00000	0.00000
52 OTHER THANSPORT EQUIPMENT	0.000000	0.00000.0	0.000000	0.000000	0.00000.0	0.000000	0.000000	0.00000	0.00000	0.00000.0
	0 005832	0 011218	0.007192	0 014547	0.010015	0.006003	0 084177	0.010204	0.021062	0.014385
	0.002819	0.003143	0 002402	0 001881	0 003782	0.002284	0.002316	0.001758	0.002067	0.004206
	0.006980	0 007441	0 021971	0.006160	0 045896	0.068375	0 015779	0.036992	0.053570	0.073687
S6 PAIL TRANSPORT SERVICE	0.001411	0.001654	0.000769	0 006054	0 024965	0.016400	0.002052	0.005140	0.004016	0.032349
	0 027027	0.017277	0.022844	0 009753	0 089325	0.021487	0.019515	0.017649	0.021419	0.016830
SB COMMICATION	0.002351	0.003556	0 003963	0 001453	0 000874	0.001600	0.004184	0.002963	0.003759	0.001586
	0.093769	0.030487	0.035826	0.144494	0 262583	0.108983	0 056463	0.037925	0.078181	0.090620
O OTHER SERVICES	0.044650	0.020639	0.029036	0.033279	0 092381	0.075177	0.098842	0.028536	0.057807	0.047493
SI TOTAL	0 627273	0.425649	0 585494	0.799623	0.924904		0.653848	0.754042 0.653848 0.452886 0.603773 0.615521	0.603773	0.603773 0.615521
Out moderness make a	010000	00000	00000		1					
A CROSS WATER ADDED	0 334134	0.304869	0.426128	0.149136	0.023447	0.030254	0.072244	0.336353	0.094660	0.031857
64 GROSS OUTPUT	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	000000	1 000000	1.000000

17---13/PC/ND/95

ANNEXURE: 1.2 INPUT OUTPUT COEFFICIENTS 1996-97

Ē,	SN COMMODITY SECTOR	4	42	Ç	\$	ŧ	46	41	8	69	S
:		000000	00000	00000	000000	000000	000000	000000	00000	000000	0000
-	PAUDY.	0.000.0	00000	0000					00000		
N	WHEAT	0.000161	2000	00000	0000	0000	00000	00000	00000	00000	00000
m	OTHER CEREALS	0.00000	0000	000000	00000	0.00000	00000	0.00000	0.00000	000000	0.00000
•	PULSES	200000	000000	000000	000000	0.00000	000000	0.00000	0.00000	0.00000	0.00000
'n	SUCCESCANT	000000	000000	0000000	0.00000	0 000000	0000000	0.00000	0.00000.0	0.00000	0.00000
9	307.6	0 000000	0000000	0000000	0.000000.0	0.000000	0000000	0.00000.0	0.00000.0	0000000	0.00000
,	NGLLGG	C 00008C	000000	0 000000	0 000000	0 000000	0.00000	0.00000.0	0,000000	0.000000	0.000000
. 4		,,0000	0000000	000000	0000000	0000000	0 000000	0000000	000000	000000	0.00000
9 0	- Constant	00000	000000	0000000	0 000000	0.00000	0 000000	0 000000	0 00000	000000	0.00000
•		0 000045	000000	000000	0 000000	0.00000	0.000000	0.00000	0000000	000000	0.00000
		2									
7	OTHER CROPS	0 000076	000000	0.000000	0.00000.0	000000 0	0000000	0.00000.0	0.000000	c .000000	0.00000
2	ANTHA! HISBANDSY	0.000054	000000	0000000	0 000000	0 000000	0.000000.0	0.000000.0	0.00000	0.00000.0	0.00000
		0 005176	C 001323	0 000619	0 000463	0.001862	0 003370	0.000188	0.000488	0.000000	0.004926
		0.00000	000000	0000000	0000000	0 000000	0000000	0000000	0.000000	0.00000.0	0.00000
		0 01769	022352	0.002779	0.002216	0.000300	0.000422	0.000307	0.000038	0.000053	0.000711
		0 00915	1.000243	0 008892	0.000028	0 000055	0 000744	0.001126	0.002904	0.000205	0.000875
	Thom you	000000	0 003464	0.00000	0.00000	0000000	0 000000	0.00000	0.00000	0.00000	0.000000
		300000	0.001822	0.100390	0.00000	0.00000	1000000.0	0.00000.0	0,00000	0.00000	0.00000
		0.084400	3.027125	0.003578	0.00000.0	0 000004	0.000069	0.00000	0.00000	0.000858	0.00000
200		0 000158	0.00000	0.000000	0000000 0	000000 0	0.000000	0.00000.0	0.000088	0.00000	0.000000
2	KHANDSARI BOORA	0.00000.0	0 000000	0000000	0000000	0.00000	0,00000,0	0.00000	0.000000	0.000000	0.00000
22	HYDROGENATED OIL	0.000000	0000000	0 000000	0000000	0.00000	0000000	0.000000	0.00000	0.00000.0	0.00000
		0 000021	0000000	0000000	0000000	0 000000	0.000000	0.00000	0.000000	0.000000	0.000000
	COTTON TEXTILES	0.000903	C 000048	0 000001	0 000162	0 000\$10	0.000488	0 000522	0.000000	0.000283	0.000055
		0,000000	0000000	0.000000	0000000	0000000	0000000	0.00000.0	0.00000	0.000000	0.00000
		0.000004	0.000000	000000	0 000000	0 000000	0.000089	0.000000	0.000000	0.000000	0.00000
23		0 001818	999000 0	0.000812	0.000105	0.000270	0.000439	0.000472	0.000205	0.000254	0.000443
		0.000119	000000	0.000000	0.000000	0 000000	0.000012	0.000055	0.000002	0.000000	0.000000
2		0.001881	0 000205	0.000765	0.001165	0 002014	0.002732	0.004466	0.004518	0.000682	0.000410
8	PAPER & PAPER PRODUCTS	0.003066	0.000019	0.000302	0 000454	0.001014	0.001147	0.006066	0.005721	0.003123	0.000081
	LPATERS & LEATHER PRODUCTS	0.000004	0000000	0.000012	0.000129	0 000230	0.000048	0.000003	0.00000	0.00000	0.000000
9	DIMBRE DROUGHTS	0.000573	0.00000	0.000028	0.027853	0 000114	0.002268	0 002068	0.000262	0.000029	0.001881
	PLASTIC PRODUCTS	0.002240	0 000245	0 001144	0 000802	0 001076	968000 0	0 002220	0.007352	0.001953	0.000398
7	PETROLETIN PRODUCTS	0.065186	0 022069	0.090418	0 014717	0.009261	0.010191	0.013521	0.005103	0.003082	0.012362
	COAL TAR PRODUCTS	0.001304	0 016008	989000 0	0.001318	0.000919	0.000978	0.000139	0.000389	0.000011	0.001563
	FIRSTILIZERS	0.00000	0000000	0 000000	0 000000	0.00000	0.000000	000000	0.00000	0.00000	0.00000
33	PESTICIDES	0 000000	00000000	0000000	0.00000.0	000000	0.00000	0.00000.0	0.00000	0.000000	0.00000
2	SYNTHETIC FIBRE & RESIN	0.000506	0000000 0	0 000000	0.000069	0.000036	0.000284	0.063672	0.003123	0.000555	0.000004
	OTHER CHEKICALS	0.014001	0 007368	0 028918	0.021612	0.003980	0.005670	0.015005	0.006110	0.004098	0.020754
\$	CEMENT	0.051316	0000000	0.000000	0.000000	0.00000	0.00000.0	0.000027	0.000000	0.00000	0.000000
ì	*********************	-		-							

ANNEXURE 1,2 INPUT OUTPUT COEFFICIENTS 1996-97

				н	1 2 0 0 2 1	8 28 11 12				
BN COMMODITY SECTOR	4	42	43	3	45	46	42	8	48 49 50	S
IL OTH NOW HET MINERAL PRODS	0.054723	0 004370	0 000177	000013	0 000526	745000 0	0 005340	844600	0 007162	100000
12 IPON & STEEL	0 012678	379 76	0 036453	C 257962	166999	0 204339	0 014414	0.032535	0.77	12,422
13 HON FERROUS HETALS	0 003772	0 05 153	C 147489	ال درور	020087	0 033802	0 029085	0 016965	0 008117	0 024321
	0 000000	0 - 0000	C Spent	5 1012 C	0.00000	0 001949	0 000053	0 000000	0 00000	0 001193
	0 000000	00000000	0 000000	0000000	0 ,20196	0 000127	000000	0 000000	0 000000	0 000000
	0 002791	0 073185	001209	0 021940	0 015850	0 170582	0 003143	0 000015	0 0000010	0 004642
	0 00344	5,6000 0	0 005589	0 60,759	0 020694	0 017278	0 190217	0 020245	0 016642	0 016887
18 COMMUNICATIONS EQUIPMENT	0 000000	0000000	000000	0 000000	000000 0	0 001596	0 002602	0 363660	0 295943	0 000486
S ELECTRONIC MOUTHERY	20000	2000	U WYOU'	0 001237	P 000032	0 001428	0 085985	0 008368	0 266663	0 005681
O PAIL EQUIPMENT	0,0000	(10 10 0	00,703	0 000	0000000	0 000000	0 000000	0000000	0 000000	0 195641
MOTOR VEHICLES	c 000000	0000	600000 0	190,100,0	100001	0.003330	0 000342	000000	0.000000	0 000488
52 OTHER TRANSPORT EQUIPMENT	0 000000	0 0,0000	0000000	0 6 1276	0 000000	0000000	0 000002	0 000000	0 000000	000000
OTHER MANUFACTURING	0 007198	7 31551C	0 013"13	0 009739	0 038072	0 043067	0 021683	0 024980	0 022113	0 010765
CONSTRUCTION	0 004012	0 034560	0 002503	0 002695	0 003759	0 003861	0 005300	0 004379	0 001845	0 001011
S ELECTATORY ETC	0 016652	0 044545	0 131889		0 016376	0 012218	0 010606	0 008796	0 005108	0 010489
6 RAIL TRANSPORT SERVICE		0 003101	0 008972	0 007432	0 006115	0 006779	0 004719	0 001673	0 001218	0 003083
OTHER TRANSPORT SERVICE	0 026332	636920 0	c 022902	0.5552	0 011495	0 012375	0 012923	0 011708	0 007262	0 005728
COMMUNICATION	C 002537	0 002212	0 002552	0 112456	0 005656	0 005886	0 003915	0 005625	0 005681	0 000773
TRADE	C 031114	0 040761	0 059221	0 0527c6	0 031551	0 012757	0 008585	0 040395	0 032152	0 020136
D OTHER SERVICES	0 017195	C 02960B	0 055980	0 0472"7	0 041553	0 074054	0 011511	0 066540	0 048171	0 012751
61 TOTAL	C 454490	0 707047	0 768497	L'ABEL O	0 520305	0 635504	0 517649	0 646019	735877	0 480189
62 NET INDIRECT TAX	0 00381	0	0 083779	c		0 055614	0 191416	0 559202	0 026917	0 040964
63 GROSS VALUE ADDED	0 4051.6	ć	C 147725	0 ,32206	Q	3 308861	0 290733	0 294779	0 235206	0 478846
4 GROSS OUTPUT	1 00,000	20000	1 (6,000	•		1 OCOOOC	1 000000	1 000000	1 000000	1 000000

ANNEXURE: 1.2 INPUT OUTPUT COEFFICIENTS 1996-97

SN COMMODITY SECTOR	15	52	53	55	55	3.6	57	58	59	9
	000000	000000	900000	0000000	0.00000	0.00000	0.000125	0.000000	0.00000	0.004254
Toronto.	000000	0.00000	0.000005	0.00000	0,00000	0,00000	0.000232	0.00000.0	0.00000	0.003724
CEREALS	0,00000	0.000000	0 000002	0.00000.0	0000000	0.000000	0 000002	0.00000	0.00000	0.000000
2011 52.5	0.00000	000000 0	0,00000	0.000000.0	0.00000.0	0.000000.0	0.000792	0.00000	0.00000.0	0.001460
STRABCANE	000000 0	0 000000	0000000	0.000000	0,00000,0	0.00000.0	0.00000.0	0.000000	0.00000	0.000000
4.44	0000000	0 000000	0.00000	0.00000.0	000000 0	0.000000	0.00000.0	0.000000	0.00000	0.000000
College	0.00000	000000 0	000000	0000000	0.000000	0.00000.0	0000000	0.00000.0	0.000000	0.00000
401	0 000000	000000	0.00000	0000000	000000 0	0000000	0 000000	0.00000	0.00000	0.00000
121	000000	000000	000000	000000	000000	0.00000	0.00000	0.00000	0.00000	0.00000
S CORPE	000000	0 000000		0.000000	0 000000	0.00000	0.00000.0	0.00000.0	0.00000	0.000000
SGOOD STREET	0 000000	0 000000	0 000288	0 005999	0.000000	0.000000	0 000274	0.00000	0.000000	0.007814
	0.00000	0000000	0.000446	0 000409	0 000518	0.00000	0.000000	0,000000	0.00000	0.004836
12 MODERN C TOGGNG	0.000762	0 001599	0 001536	0.011678	000000 0	980000 0	0 000000	0.000000	0.000000	0.000374
	0 000000	0 00000	0.000030	0.00000	000000 0	0.00000.0	0.00000	0.00000	0.00000	0.001819
	0 000028	0 001028	0 002031	0000000	0.075389	0.006807	0.000336	0.00000	0,00000	0.000798
	4.6000	70000	000000	000000	0.005358	000000	0.00000	0.00000	0.00000	0.00000
	20000		150000	000000	000000	000000	000000	000000	0.00000	000000
17 IAOF OKE	000000	00000	100000	000000	000000	000000	000000	000000	000000	0.000088
	000000	000000	2000	410000	00000	000000	000000	000000	00000	00000
	000000	000000	7/0607	0.00000	000000	000000	000000	00000	000000	001208
20 BUGNR	000000	000000	0.00000	0.00000	20000			0.0000		
21 KHANDSARI BOORA	000000 0	200000 0	0 000000	0.000000	000000 0	0.00000	0.00000	0.00000	0.000000	0.000000
	0 00000	0 000000	9000000	0000000	0000000	000000 0	0 000054	0.00000	0.00000	0.000506
	0.000124	0000000	0.000154	0000000	0.00000	0.00000.0	0.002191	0.00000	0.00000	0.003222
	0.000274	0 000152	0.001026	0.00000	0.00000	0.000701	0.000630	0.00000.0	0.00000	0,000256
	0.000014	0 000000	0 000032	0.000000	0000000	0 000000	0.000474	0.00000.0	0.000000	0.00000.0
	0 000000	0.000028	0 000031	0.000000	000000 0	0.00000.0	0.00000.0	0.00000	0.000000	0.000088
	0.000186	0 000261	0 002202	0.001483	0 000000	0.00000	0.00000	0.00000.0	0.002712	0.000024
	0.000506	0,000152	0.000421	0.000029	0.000197	0.000091	0.000852	0.000313	0.000000	0.000505
	0,000882	0.001823	0 003954	0.040175	0 001765	0.000638	0.000035	0.000131	0.004885	0.001328
30 PAPER & PAPER PRODUCTS	0.004689	0.001036	0.004875	0.001053	0 000943	0.001281	0.006345	0.024458	0.005302	0.082888
ampleode danager a danager to	886000	0 000457	0 000372	0.00000	000000	0.00000	960000.0	000000 0	0.000000	0.00000
	0.045730	0.032834	0 002041	0 000431	0 000119	0.000038	0.037983	0.000266	0.000029	0.000067
	0 003059	0 002132	0 001667	000000	000000	0.000810	0.000808	0.00000	0.005508	0.000037
	0.015934	0.014730	0.011261	0 001361	0 013604	0.036044	0.132938	0.009874	0.001245	0.001521
	0 00000	0 000114	0.000188	0.008565	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	0.00000	0.000000	0.000278	0.002116	0.00000	0.00000	0.00000	0000000	0.00000	0.006608
	0.00000	0,000000	0.00000	0.008589	0.00000	0.000000	0.000001	0.00000	0.00000	0.000027
	0.000727	0.000228	0.000315	0.00000	0.00000	0.00000	0.000000	0.00000.0	0.00000	0.000000
39 OTHER CHEMICALS	0.006874	0.016871	0 016510	0.007208	0.001140	0.000104	0.000490	0.000016	0.00000	0.023279
C 000 24	0.00000	0000000	0000000	0 060307	0.00000	0.00000	0.000000	0.00000	0.000000	0.000003

ANNEXURE 12
INPUT OUTPUT COEFFICIENTS 1996-97

				7	ISDGRI	RIES				
COMMODITY SECTOR	ផ	52	53	9.0	55	36	52	8	89	9
OTH NON MET MINERAL PRODS	0 003360	0 000334	0 007946	0 065242	0 001705	0 002371	0 000168	0 000003	0000000	0 000509
INON t STEEL	0 204754	0 084092	0.068950	0 132778	0 003710	0 009364	0 000188	000000	0 000873	0 00000
NOW FERROUS METALS	F4150 0	0 000316	998090 0	0 000000	0 000100	0000000	0 000000	0 000000	000000 0	0 000000
I TRACTORS & OTH AGRI MACH	0 00	7 0	0.0	0000000	0000000	0 000000	0 000000	0 000000	0 000000	0 000000
MACHINE TOOLS	0 002829	0 001836	8000000 0	0 000000	0 000064	0 001415	0000000	0 000000	0 00000	0 00000
S OTH NON ELECTRICAL MACH	0 087826	0 005153	0 001791	0 001658	0 050790	0 001178	0 001420	0 000971	960000 0	0 000416
PELECTRICAL ACHINERY	0 010380	0 005517	0 007881	0 086945	0 075971	0 010365	0 003616	0 000142	0 00000	0 000231
S COMMUNICATIONS EQUIPMENT	0 000000	0 000151	0 005446	0 000000	0 000000	0 001757	0 000633	0 086163	0 000000	0 000312
BLECTROWIC EQUIPMENT	0 000000	0 000001	0 001094	0 000000	0 000003	0 000104	0 000094	0 000037	0 000000	0 000782
D RAIL EQUIPMENT	0 000000	0 000003	0 039280	0 000000	0 000000	0 375480	0 000000	0000000	0 000000	0 000000
HOTOR VEHICLES	0 077740	0 006759	0 000155	0 000809	0 000292	0 000222	1001 0	0 000514	930000	0 000264
2 OTHER TRANSPORT EQUIPMENT	0 000612	0 176789	0 003531	0 000000	0 000001	0 000008	0 028367	0 000002	000000	0 001166
S OTHER MANUFACTURING	0 022882	0 012152	0 009573	0 001223	0 006047	0 010479	0 006246	0 000388	0 004705	0 003007
CONSTRUCTION	0 005026	0 001793	0 002213	0 003970	0 011910	0 025055	0 004418	0 000157	0 003350	0 015275
S ELECTRICITY ETC	0 013021	0 010318	0 016673	0 009490	0 223152	0 026611	0 008001	0 010997	0 015492	0 012434
S RAIL TRANSPORT SERVICE	0 005387	0 004635	0 006792	0 001651	0 004414	0 007280	0 006488	0 008890	0 004050	0 001760
7 OTHER TRANSPORT SERVICE	0 012566	0 008377	0 011471	0 008383	0 010948	0 006912	0 066041	0 016924	0 112010	0 011275
COMPONICATION	0 003397	0 002577	0 007649	0 001940	0 002544	0 001188	0 007516	000000 0	0 007739	0 009600
3CMAL .	0 019111	0 034948	0 014317	0 048478	0 008595	0 012730	0 017941	0 006073	0 019456	0 021565
OTHER SERVICES	0 017918	0 060612	0 020922	0 015788	0 008584	0 005694	0 018257	0 015582	0 101984	0 060367
L TOTAL	0 590186	0 499935	0 506642	0 581925	0 507634	0 544823	0 453745	0 177896	0 290099	0 209028
HET INDIRECT TAX	0 089939	0 058619	213690 0	0 050939	0	0 020447	0	0	0 008733	0 014762
S GROSS VALUE ADDED	319875	0 441446	0 423486	0 367135	0 472733	0 4 4730	0		0 701168	0 776210
Control Control	1 000000	7 000000	1 000000	7 00000	1 000000	1 000000	1 0000000	1 000000	2 000000	000000

ANNEXURE 1 3
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS 1991-92

CORRECTIT SECTOR PROOF THE CARLAR 1 10 6 25 10 10 10 10 10 10 10 10 10 10 10 10 10	# # # # # # # # # # # # # # # # # # #		#	w 000000000000000000000000000000000000	00000000000000000000000000000000000000	000000 000	a 000	000000
PROOF 1922 3 19	1 000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100000000000000000000000000000000000000				000000
COURTY CRUALS 1998	13200011132000111132000011113300001111330000011113300000000	81 12 00 00 00 00 00 00 00 00 00 00 00 00 00	ကောက္ကေတာင္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည္ကိုက္သည့္သည့္သည္ကိုက္သည့္သည့္သည့္သည့္သည့္သည့္သည့္သည့္သည့္သည့	000000000000000000000000000000000000000				000000
	13000000000000000000000000000000000000	181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.00000000000000000000000000000000000000	000000000000000000000000000000000000000				00000
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STATE STAT	000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 8 2 4 8 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	500000 01000000					00
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TOURISM COURTER COURTE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.8 4.5 1.8 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0000000	0 04000000				0
OTHER GROWN WINT 2023 0 THE STATE ATTOMATING A STATE OF	2680409000	1.8 4.6 4.4 4.4 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	20,020000	0000000				
OTTERS GARDEN TOTAL AGENOME THE AGENCY	9 40 40 40 40 60 60		0,000000	2000000				
MARIAL, MERUNTIN 22027 1 57 MARIAL, MERUNTA (1 DOSTING 12027 1 57 MARIAL METHODA MINERALS (2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 20 10 00 00 00 00 00 00 00 00 00 00 00 00	, 4000	000000	000000		9 0	2 5	0 0
PARAMETER LOGGING () STRAING	300 0 3000	N > 4000.		000000				
COLAL ELEMINA COLAL ELEMINA COLAL ELEMINA COLAL ELEMINA COLAL EL MINOR HURBOLLS COLAN EL MINOR HURBOLL	0 10 0 0 6 0	. 100 0		00000				
COML & LIGHTE 152 5 COUL & LIGHTE 100 0 1 150	100060	VOU0.		0000				
CARDE PETFOLICHA EN GAS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03000	000		000				
OTHER HEY ORE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3000	90		00				
OTHER METALLIC MINERALS (C) NOR MINERALS () 0 SUGAR, () 0 0	000	0		ن				
NOW NET & MINOR MINERALS 0 0 0 SUGAR. 0 0 0 STREAMS AND SOURS	00							
SUGAR. 0 0	0 (٥		0				
door good to the contract of t		O		0 0				
COORDINATE BOOK								
	0		0 0	0 0	0 0	0 0	0	0
HYDROGENATED OIL	٥	O						
OTHER FOOD 6 BEVERAGE 1 5	٥ ،	52						
COTTON TEXTILES 66 2	3 0	1						
WOOLLEN TEXTILES		0						
ART SILK & STNINETIC FIREZ 000 0	0	0						
JUTE HEAD MESTA TEXTILES 516 0 1	2	96						
OTHER TEXTILES	4	¢1						
WOOD 6 WOOD PRODUCTS 4 7	0	8						
L & PAPER PRODUCTS 33 0	3 2	21						
C C STANSON STREET, STREET		•	c					
teringed impositives		-	7					
a de		ê						
PLASTIC PACOCIE		3	9 6					
PETHOLICUM PHODUCTS	2222	577	0 606					
COM. TAR PRODUCTS			9					
34 FEGILIZEDS	46 0 6567 4	2476 5	6201 0	222 5	5381 6	383 9	•	612 8
PETICIDES 2091 6	2	1125	2					
C hade a classical	c	0	0					
OTHER CREE CR.		^	٥					
CERCENT	00		0					

ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

TABLE

							· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
IN COMMODITY SECTOR	-	2	3	-	\$	•			•	2
OTH NOW NET MINERAL PRODS	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
IRON & STREET	0.0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
NON PERSONS METALS	0.0	0	0	0	0.0	0.0	0.0	0.0	0.0	0
TRACTORS & OTH. AGR. HACE.	2797.7	1552 4	1690 0	1550 9	341 1	21 1	433.0	0.0	333.9	0.0
MACHINE TOOLS	0 0	0	c	c	0	0 0	0	0.0	0	9
OTB. MOS. PLECTRICAL MACH.	369 4	800	9.4	36.8	5,8	0.0	4.7	0.0	0.0	0.0
ELECTRICAL MACHINERY	33.6	30 8	2 5	1 8	6	0	1.5	0.0	0.0	٥
COMMUNICATIONS ZOUIPMENT	0.0	0	0.0	0	0	0	0.0	0.0	0.0	ö
	0 0	0	0	0	0.0	0	0	0.0	0.0	0
SO RAIL EQUIPMENT	0 0	0 0	0 0	0.0	0.0	0	0.0	0.0	0.0	9.0
HOMOR VERTICIAS	20 3	16 1	2.2	2	8	0	2 2	0	0 0	0
	347 7	282 9	408 5	281 6	67.4	6.9	93.6	0	55.1	0
	188.6	65.0	0	480	6.0	0	0.7	0	0.0	0
	7706 5	4385 0	4384 2	4027 0	944.5	52 7	1164.0	0.0	783.1	ö
	4058 5	9045 0	508.1	834 0	1029 0	0	689	0	00	0
	2602 8	2090.8	497 6	420 1	443 8	14 2	374 1	25.8	3.6	38.0
	3057.9	1683.4	616,4	692 6	408.3	23 0	512.2	73.0	95.6	38.8
SE COMMUNICATION	200 8	153 0	11,6	1.67	14.7	0.0	11.8	0.0	0	0
	13861.6	7829 5	2194 3	3248 0	2833 2	63.2	1721.9	168.8	213.6	140.7
OTHER SERVICES	5262 1	2361.7	1519 7	1279 4	1112 6	93 6	472.0	241.2	73 3	81.5
81 TOTAL	140142 2	6 68816	35373 1	43213 4	20751.6	1005.0	19289 4	1466.7	2720.7	1316.1
62 NET INDIRECT TAX	-11937 2	-9480 8	-2054 6	-784.5	-2245 2	-84 9	-2012.4	-147.8	-1 1	-250.1
GROSS VALUE ADDED	288122 0	147567 0	100323.0	77539.0	74218.0	8331.0	29175.0	12921.0	3881.0	4924.0
GROSS OCTFUT	416327 0	229976.1	133641 5	115968.0	92724.4	9251.2	46452.0	14239.9	6,000.0	5990.0

ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1991-92

COMMONITY BI INDUSTRI TABLE

1 00000	42.0	2165.9	0	0.0	0	0.0	0	0.0	0.0	0.0
1	900	4030		c	0	0	0	c	0	0.0
Z WHENT	9 6		9							
3 CINER CENTAL	0.671		9 6							
4 PULSES	0.10	2.000		9 6			9 6		9	
5 SUGARCANE	0.0	1003.7	0	o :	9	9 1		9	9	3.030
6 JUTE	0.0	0	0	0.0	٥	0	9	0	9	0.0
7 COLLON	0	0	0	0	0,0	0	0.0	0.0	0.0	0.0
9 754	0.0	0.0	0 0	0.0	0	0.0	0.0	0.0	0.0	0.0
	0	0	0 0	0	0.0	0.0	0.0	0.0	0.0	0.0
10 RUBBER	0.0	0.0	0.0	0 0	0.0	0 0	0.0	0.0	0.0	0.0
				ć	6		6	c	6	0 11
11 OTHER CROPS		130	2						6	0
	5.010.7									328
13 FORESTRY & LOGGING	9.0	9 0	0.00	9 0	000		9 0			100
					273		-		α - c	114 8
	100.0		0 0	9 0	10					
	2 6		0 0	9 6	9 0	9 6				
	9	9 1	9 1	9.0	9 0	9 6				
	0.0	0.0	0	0	9	9	5 1	9	9 6	9 1
19 NOW MET. & MINOR MINERALS	0.0	0.0	0.0	0	363.7	0	0.0	0.0	0.0	1028.7
20 SUGAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.1
	٠		0	•			c			3 66
	0.	9	9		9 0	9 6		9		;
	5	9				9 6	9 6	9	9 6	:
	4.0	19089.4		115.0	0	0.0	5	0	9	
	56.4	5601.6		0.0	0.0	0,0	0.0	0.0	0.0	27.2
25 WOOLLEN TEXTILES	0.0	0		0	0.0	0.0	0.0	0.0	0	0.0
26 ART SILK & SYNTHETIC FIBRE	0.0	0.0		0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUTE, HEMP, MESTA TEXTILES	34.5	0.0		0	0.0	0.0	0.0	0.0	3.6	2054.9
	18.3	0.0		1917.6	0.0	0,0	0.0	6.0	0.0	25.1
	2.0	0.0		12.8	47.3	0.0	0.0	94.4	6.8	6.8
30 PAPER & PAPER PRODUCTS	14.8	0.0	196.3	0.0	237.8	0.0	1.8	0.4	6.1	48.2
STOURDER STATES SECTION SECTIO	6		6	0		c	0.0	0.0	0.0	0.0
			21.0				9	2.8	0	0.0
	9 9 1		4	0		0	0.0	0.0	3.8	47.8
	6871 2		750 8	1329 0	-	1,600 0	300.2	273.6	404.7	715.1
	0		0	0		0.0	5.5	1.7	12.4	89.1
	20615.0			0		0	0.0	0.0	0.0	0.0
	2588.5		9.3	0.0		0.0	0	0.0	0.0	0.0
_	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.2
OTHER CHEMICALS	12.7	1853.2	0.1	38.8	1366.7	44.3	103.2	158.4	177.8	9.0
40 CEMENT	0.0	0.0	0.1	0.0		546.5	0.0	0.0	0.0	0.0

ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

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				-	* 1 5 0 0 2 .					
BN COMMODITY SECTOR	=	12	13	*	15	16	1.7	18	19	2
41 OTH. NOW MET. HINERAL PRODS.	0.0	0.0	0.7	0.0	0.0	782.6	0.0	0.0	0.0	301.0
	0.0	0.0	20 0	39.6	0 2	0.0	0.0	0.0	1.1	0.0
43 NON FERROUS HETALS	0.0	0	0.0	7.1	0.0	0.0	0.0	0.0	0,0	0.0
44 TRACTORS & OTH. AGRI. MACH.	2537.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 MACHINE TOOLS	0.0	0.0	13.2	0	209 8	0.0	0.0	0.0	0.0	0.0
46 OTH. NOW ELECTRICAL MACH.	9.06	0	32.5	0	5190 1	2411 4	56.9	317.7	227.9	379.7
47 ELECTRICAL MACHINERY	7.3	0	59.2	0.0	0.0	0	0.5	6.0	0.1	0.0
48 COMMUNICATIONS EQUIPMENT	0.0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
49 ELECTRONIC EQUIPMENT	0 0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 RAIL EQUIPMENT	0.0	0	0 0	0.0	0 0	0.0	0	0	0.0	0.0
Ø										
	10 9	0 0	420 4	0,0	353 2	0	1.1	60	0,8	0.0
	654 4	0.0	15.9	827.6	00	0.0	0.0	0.0	0.0	0.0
53 OTHER MANUFACTURING	14.4	603,3	300 7	1.3	855 4	0.0	5	85.2	150.7	634.2
	6706 1	343.1	288.8	0.0	156.4	1853.0	15.0	22.4	0.4	542.5
55 ELECTRICITY ETC.	2174 6	0 0	52 4	0	3532 9	296.2	308 5	785.2	195.9	366.3
	1650.2	845 5	348 8	44.4	1215.5	116.3	16.2	26.7	16.4	347.5
57 OTHER TRANSPORT SERVICE	2340.7	3986 5	3394 6	148.5	423.6	107.2	18.0	153.1	111,5	2699.5
58 COMMUNICATION	6.79	0.0	218.8	0.0	65.7	0.0	24.1	6.6	2.7	149.8
58 TRADE	1001 8	43260.2	268 7	380 5	1056.5	460.3	53.9	109 3	121.8	11135.1
60 OTHER SERVICES	5438.2	1591 8	1797 2	211 4	1728 3	3729.1	116.1	228.8	116.1	7220.5
61 TOTAL	103140.4	241123 6	8705 5	5073 7	18206.0	11947 0	1027.0	2274.1	1561.6	62506.7
62 NET INDIRECT TAX	-6831 6	3210 7	501.5	496 3	1488 9	910 9	86.0	173.8	153.4	496.6
63 GROSS VALUE ADDED 64 GROSS CUTPUT	358337 G 454645 B	205282 0	83520.0 92726 9	43400.0	37745.0	48942.0	5520.0	5152.0	11599.0	16018.0
									Contd	,

ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1991-92

										1
IN COMMODITY SECTOR	12	22	23	24	52	26	27	28	29	R
DATON	0.1	c	1994.2	0	6	0.0	0.0	40.1	0.0	8
NEW YORK	0		2,683	22 8			0.0	7.7	0	3
Orden Creatis	0.0	0.0	1005.7	0	0.0	0.0	0.0	0.0	0.0	0.0
PIT.SE	0.0	527.0	770.2	10.2	0.0	0.0	0.0	0.0	0.000	0.0
STEADCANE	5818.2	0.0	17.3	0	0.0	0.0	0.0	0.0	0.0	0.0
JITE	0	0.0	0.0	00	120.3	353.9	7587.6	295.6	3.6	0.0
COLLEGE	0 0	c	340.8	37634.5	0	0.0	0.0	25.0	0.0	0.0
10170	0.0	0	14240.0	0	0	0.0	0.0	0.0	0.0	0
anaout .	0	0	2039 0		0	0.0	0.0	0.0	0.0	0.0
O PURBER	0.0	0	0.0	0.0	0.0	0.0	0.0	26.2	0.00	0.0
		,								
OTHER CROPS	1.8	310.5	101351.7	39.8	0 0	3.4	69.4	31.2	14.6	
12 AND AL HUSBANDRY	0.0	0.0	21065.2	9.0	926.2	2069.6	0.0	90.0	0.0	
	118.5	20.1	607.6	191.9	16.7	43.5	2.1	11.7	20561.8	٠.
	0.0	0.0	3354.2	0.0	0.0	0.0	0.0	0.0	0.0	
S COML & LIGHTIE	7.96	220 3	1499.1	2007.4	112.0	320.8	123.6	290.0	36.5	•
	0.0	0.0	85.3	0.0	5.6	0.0	0.00	6,0	0.3	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	308.2	0,0	49.0	35.4	0.0	0.0	0.0	10.0	4.2	
20 BUGAR	462.5	0.0	2831.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EURAIDERDT BOODA		0		0.0	0.0	0.0	0.0	0.0	0.0	0
				0	0.0	0.0	0.0	0.0	0.0	0.0
		12586 7	•	0.889	9.	32.8	46.1	2.9	3.0	171
		203 6	•	73520 8	96.4	8082.6	42.1	20129.1	32.1	221.6
					4129.7	17.0	0	1962.1	0	2
				1 20 16	109	3 6 3 6	38.0	4824.R	4	23.4
		27.5		3720.5	306.6	1049.2	4099.2	1263.4	11.0	340.6
28 OTHER TEXTILES		0		734.2	31.2	988.1	638.0	12392.0	43.5	236.8
		6		271.6	28.0	213.9	1.8	1226.3	2538.6	70.1
30 PAPER & PAPER PRODUCTS	12.5	61.7	3597.8	1025.2	17.6	918.3	55.0	481.2	26.1	22737.7
STORDER CARTES CARREST		c	1.7	124.7	c	0.0	0.0	7.7		16.7
	0.0	0.0	00.00	0	0.0	0.1	0,0	69.4	18.2	26.0
	47.3	247.0	2670.0	716.6	4.4	428.0	88.1	1487.8	130.2	336.7
	899.6	150.3	3942.8	5340.0	222.1	1632.9	572.4	866.0	135.8	1075.0
	9.0	2.2	33.6	129.4	2.3	144.0	3.4	9.0	6.1	9.0
FERTILIZERS	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PESTICIDES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 STATHETIC FIRMS 4 RESIN	0.0	9.0	11.4	2023.6	1023.4	33606.9	9. 5	1755.4	49.9	88
	126.1	5849.7	3645.8	9022.2	531.4	3131.8	473.6	40.7	148.4	1151.1
Charles	0.0	9	9.0	0.0	9.5	9.0	9	3	0.	9

ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

SENIEL SUCKI

M COMMODITY SECTOR	21	22	23	24	52	56	27	28	29	3
a come were term teturnal, pools	0.63	. 9	2740 2	6 [0,0	0.0	0.0	8.9	19.4	80.8
	30	333 8	200	298 3	m	10.8	158.7	39.0	60.3	95.0
A LINEAR OF BILDS COMMY C			224	-	13.4	107.5	0.0	525.6	6.5	1348 3
A TENNOTOR C ONTO NORTH MACH		00	c	0	0	0.0	0.0	0.0	0.0	0.0
E MOGINE MOOFE		0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
A COMES MANUAL DES SECURITION OF THE COMES AND THE COMES A	117.3	48.2	2038.5	3201.7	89.7	474.1	119.2	700.8	119.3	584.3
T WINDTON MACHINERY	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
COMMUNICATIONS FORTINGS		0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
STATEMENT CONTRACTOR	0	0	0	0 0	0	0	0.0	4.0	0.0	0.
O RAIL EQUIPMENT	0	0 0	0	0 0	0.0	0.0	0.0	0.0	0.0	0.0
and annual formation of		•	c	0	c	c	0.0	0.0	0.0	0.0
٠,					0	0.0	0.0	0.0	8	0.0
٠.	6	403	0 8639	2170 1	153.1	867.6	234.3	822.2	195.4	956.3
S OTHER PARIETY OF THE PARIETY OF TH	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 40	1594	627.1	34 8	167.6	56.9	579.3	115.4	180.3
as are constituted as a second	4520	644	4445	14161	417.1	11144.5	1100.8	1895.6	352.8	3760.1
-	128 9	233 2	1629 7	1229.3	65 2	255.1	148.0	215.8	203.3	840.6
7 Owners TOWNSDOOD CRAVICS	268.5	537.7	6 5296	9142.1	597 5	3268.4	1248.6	2532.1	7.676	1510.2
S COMMENTER TON	26 5	808	654 6	613.6	65 2	248.1	63.4	256.8	49.4	454.5
a reant	2266 5	3793 8	42973 1	35453 9	1620 0	8382.7	3107.4	7547.5	3931.6	5285.0
O OTHER SERVICES	955.3	682 6	15005 2	17821 1	2339.5	7232 2	1292.7	7681.8	917.2	5628.0
1 TOTAL	12943.6	28521.0	307343 3	225224.7	13708 1	121660.1	21456.2	70535.3	30734.0	54373.9
X4T LOSSIGNI 14X CO	264.7	4767 1	12233 2	14221 9	369.8	7647 6	974.2	2952.6	1292.6	4499.1
GROSS VALUE ADDED	5197 0	3031 0	77401 0	137839.0	6321 0	35126.0	32710.4	108789.0	51148.5	29008.D 87881.0
	19403 0	2 6 7 7 9 7	23637	20.00						

ANNEXURE 1.3
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

				•						
SN COMMODITY SECTOR	31	32	33	ž	35	36	37	8	ñ	Ç
DATION	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	1856.6	
WHEN A	0		0	c	0.0	0.0	0.0	0	37.8	
OTHER CEREALS	0.0	0	0.0	0	0	0.0	0.0	0.0	2.2	
PATISES	0	0	0	0 0	0.0	0	0.0	0.0	0.0	
STIGABCANE	0 0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	
JUL	0 0	0	0	0.0	0	0	0.0	0	0.00	0,0
NOLLOU	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	
1	0.0	0 0	0.0	0.0	0	0	0.0	0.0	0.0	
COPFEE	0 0	0	0 0	0	0	0	0.0	0.0	0.0	
10 RUBBER	396 1	5608 2	4	0	0.0	0 0	0.0	17.8	0.0	
Complete officers	•		•		0	0	c	c	3534.5	c
11 OTHER CHOPS	7 7000		9 0		9 0				78.	
	2000	,			28.3	25.3	1.2	318 3	1199.6	3.6
	9	3			9	0	0.0	0.0	0.2	0.0
A COST. E. LIGHTER	67.0	100 0	0	2 7	5829 9	1151.9	1.2	289.8	504.3	2123.0
	0.0	0	0		0.0	1217.5	0.0	2.0	33.9	0.0
	0	0	0.0		0.0	0,0	0.0	0.0	0.0	0.0
	0	ó	0		0	0.0	0.0	0.0	14.9	0.0
NO! MET. & MINOR MINERALS	0.1		0 00		70 2	5891 7	237.8	371.3	3319.4	7138.3
SUGAR	0 0		0 0		0	0 0	0.0	17.4	246.4	0
wrashesan Books	0	c	c	0.0	0	0.0	0.0	0.0	15.7	0.0
HYDROGENATED OIL	0 0	0 0	0	20 0	0.0	0.0	0.0	0.0	140.6	9.0
OTHER FOOD & BEVERAGE	346.6	0 0	0	0.0	0 0	17.7	0.0	322.0	4282.5	0.0
COTTON TEXTILES	155.0	497 0	132 4	100 6	43	18.9	16.8	33.1	4809.0	6.1
WOOLLEN TEXTILES	12.5	0	0	9 0	00	0.0	0.0	0.0	0.0	0.0
ART SILK & SYNTHETIC FIBRE	94.2	2305 8	64.9	0.4	0.0	0,0	0.0	0.0	37.4	0
JUTE, HEMP, MESTA TEXTILES	150.1	101	23 5	101.5	28.7	1854.4	91.5	78.0	836.1	3347.9
OTHER TEXTILES	753.8	611 4	51.4	2.0	0.1	0.0	0.5		72.2	0
HOOD & HOOD FRODUCTS	210.5	26 5	*	75.6	3.7	14.4	32.4	45.1	990.1	
30 PAPER & PAPER PRODUCTS	265.2	197.1	130.6	162.8	15.5	65.0	67.7	2044.4	3806.1	
LEATHER & LEATHER PRODUCTS	12241.8	34.6	1.6	0.0	0.0	0.0	0.0	0.0	3.5	0.0
RUBBER PRODUCTS	3638.2	8712.7	78.	0.0	0.0	0.0	0.0	3.0	143.2	0.0
PLASTIC PRODUCTS	223.9	199.0	1773.6	498.6	21.5	508.5	172.7	298.3	2864.9	22.5
PRIPALEUM PRODUCTS	272.3	799.1	312.4	24522.2	471 7	10726 8	145.2	1736.5	8353.5	611.8
COAL TAR PRODUCTS	0.5	4.0	5.6	0.2	7 7 7	21.2	0	•	7.98.4	23.0
FERTILIZERS	0.0	0.0	0 0	0.0	0.0	6288.0	0.0	0.0	0.0	0.0
	0.0	0.0	0	0.0	0.0	¥.	1540.1	0.0	0.3	0.0
	244.6	923.1	10175.7	5.6	1.0	11.3	0	2078.5	333.2	0
CHEST CHEMICALS	2632.0	10781.4	1032.4	4303.5	500	11004.6	2233.7	6 6 6 6 6	9.00	

ANNEXURE 13 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

CU-MCDITY BY INDUSTRY TABLE

SN COMPOSITY SECTOR	31	32	33	8	35	36	33	æ	96	4
41 OTH NOW MET MINERAL PRODS	74.3	175 2	130 8	000	0	17.4	90 2	0 2	2368.6	315.8
TRON & STREIL	67	310 2	77 3	0	10	0	0	8	208 2	755 5
63 NON FERROUS HETALS	17.2	82 2	158 4	9	0	28 5	39 9	27 3	2547 2	8
	0 0	0	0	٥	0	0	0	0	0	0
HACRINE TOOLS	0	0	0	0 0	0	0	0	0 0	0	0
	127 3	99 2	55 7	80	39.4	298 9	32 7	132 8	943 9	378 0
RIECTRICAL MACHINER	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
SO RAIL EQUIPMENT	0	0 0	0 0	0 0	0	0	0	0 0	0	0 0
S1 MOTOR VEHICLES	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	373 9	8 098	244 4	1641 1	186 4	491 9	1173 4	434 3	5383 6	634 6
	180 8	241 2	81 6	220 8	70 4	187 2	32 3	74 8	528 4	185 5
N	480 4	612 9	801 6	1119 4	916 8	6289 0	236 1	1690 0	8228 0	3514 0
α,	₹ 06	126 9	26 1	765 4	2468 5	1344 0	28 6	218 8	1026 4	1427 0
OTHER	1650 4	1262 5	739 5	2089 4	1051 3	1677 1	259 1	715 4	5214 1	107
	150 7	272 8	134 7	113 6	16 3	131 1	58 3	126 1	6 096	70 0
59 TRADE	7197 6	7759 9	1557 6	12307 9	3298 3	7466 7	767 1	2042 8	18181 3	3620 0
60 OTHER SERVICES	2862 8	2274 2	1326 8	4080 5	974 7	3619 8	1377 8	1214 5	10670 3	2095 0
61 TOTAL	39616 3	45005 8	19178 4	170029 8	17052 2	60572 2	8737 \$	21232 5	154239 8	27055 2
					-		-			
62 NET INDIRECT TAX	2862 9	10193 6	6837 7	2 09699	393 6	3108 8	870 2	11173 6	23976 6	1712 1
63 GROSS VALUE ADDED	21637 0	21530 0	7973 0	13666 0	1162 0	18271 0	4332 0	10154 0	77392 0	15345 0
GROSS OUTPUT	64116 2	76729 4	33989 0	220656 0	18607 8	81952 0	13939 7	42560 1	255508 4	44112 3
									Contd	7

ANNEXURE 1.3
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1991-92

PARTICINE PROPERTY						7	DUSTR					
NOTE COURT	2		ţ	42	43	4	\$	99	43	64	Ş	8
Market Cross	١.	BADDY	24.5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OFFICE CHRALAS OFFICE CHRALAS		100.00	6	0	0	0.0	0	0.0	0.0	0.0	0.0	0.0
Comparison Com		ATREE CEDELLS	0.0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
State Color Colo	٠.	200	0		0		c	Q. Q	0	0.0	0	0.0
Color Colo		account of the same						c	0	c	0	9
Control Cont	0	BOOME			9 0	0 0						
Comparison Com	٠	JULE	9	9	9	9	9		0 0			
The color	_	COLLON	0.0	0	0.0	0	0.0	0.0	0	0.0	0.0	0.0
Court Cour	•	2	0,0	0 0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0
Comparison		A COLUMN	0	c	0.0	c	0	0	0	0.0	0.0	0.0
OTHER CROPS OTHER OTHER OTHER CROPS OTHER OTHER CROPS OTHER OTHER CROPS OTHER OTHER CROPS OTHER OTHER OTHER OTHER CROPS OTHER OTHER OTHER C	٠.	RUBBER	3 6	0	0	0 0	0.0	0 0	0.0	0.0	0.0	0.0
OTHER CORPOSE 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
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		POST E LOGGING	410 B	2 900	9 62	17.6	52.8	573.8	30.3	18.4	0,0	276.1
COUNT LIGHTY (N. O.S.) 1000 TO STATE COUNTY (N. O.S.) 1000 T	٠.	THEFT	c				0	0	0.0	0.0	0.0	0.0
CHIEN CHARLE N. M. CAS. THE STATE OF THE ST		Const of a Contrast	1 020	7501	20.5		-	0 00	9 87	-		20.0
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NEW NEW, FAIROR MANNEALS 6675 175		OTHER METALLIC MINERALS	0.0	282 1	5798 3	0.0	9	2.5	9		;	3
March Marc		NON HET. & MINOR MINERALS	6825 B	7716 9	196 4	0.0	0 1	12.2	0.0	9	21.2	9
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March Marc	4	ABURDANKI BOOKA	3	200								
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MACHE MACHINES M	m	OTHER FOOD & BEVERAGE	1.7	0.0	0	0.0	0	9	9	9	5	
WOLLEAN PARTILLES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		COTTON TEXTILES	71.6	15.6	8	6.2	4.8	79.7	97.1	11.7	9.1	3.1
National Properties	'n	WOOLLEN TEXTILES	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0
OWER EXPANSION TO THE STATE THAT THAT THAT THAT THAT THAT THAT	v		0.0	0.0	0.2	0.0	0.0	15.1	1.7	0.0	0.0	0.0
NAME TEXTILLES 149.2 66.2 60.0 60.0 62.1		JUTE HEND MESTA TEXTILES	144.3	214.9	43.2	4.0	7.7	74.8	87.8	7.7	7.8	24.7
### ### ### ### ### ### ### ### ### ##	•	OTHER TEXTILES	9.6	0 4	0.0	0.0	0.0	2.1	10.2	0.1	00.00	0.0
PARTICIDAD PROCUTS 24.3 25.6 16.1 17.3 28.8 185.3		MOOD & WOOD PRODUCTS	149.2	66.2	40.7	44.3	57.2	465.1	831.3	170,4	21.0	23.0
Margine Infarts Process 45.5 0.1 0.6 0	0	PAPER & PAPER PRODUCTS	243.3	25.6	16.1	17.3	28.8	195.3	1129.0	215.8	1.96	4.5
PARTIC PRODUCTS 17.5 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1		STANSON SANTANTS SANTAN	6	c	9	9.4	87	1.8	0.5	0.0	2.1	0.0
National Conference		RUBBICK PRODUCTS	45.5	0.1	1.5	1059.2	3.2	386.1	384.9	6,6	6.0	105.4
CONTACTOR 1005.5 8287 3486.2 606.9 131. 1251.6 600.000.7 828.1 1005.5 600.7 828.1 1005.5		DIAGRAP DECEMBER	1777	20.	9	30	30.0	152 5	413.1	277.3	1 99	22.3
103.5 648.7 36.5 50.1 26.1 166.5		DEPENDENT OF THE PERSON OF THE	37.50 \$	1248 7	3496 2	908	161	1261	1829.5	130.0	0.09	803
PRINCIPLES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		COMI. TAR PRODUCTS	103.5	4863.7	96	20	26.1	166.6	25.8	14.6	0	88.7
######################################	1	PERSONAL SERIES		0	c	c	0	0	0.0	0.0	0.0	0
######################################		PERFICIONS	0.0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
OTHER CHEMICALS 1111.0 23'4 1697.7 821.8 113.0 965.5		SINTHETIC PIBRE & RESIN	40.1	0.0	0.3	2	1.0	48.4	1664.3	117.8	17.1	0.5
000 000 000 00000		OWNER CHEMICALS	1111.0	33.7.6	1697.7	R21.8	113.0	296	3537.3	230.4	125.9	1163.5
	Ö	Charles	2990		0	0	0			0	0	c

ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

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NOW TROUGH MATALY 29 3 1004 5 2 1004 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 INCH & STEEL	1264 3	87852 6	1842 1	7716 6	5709 0	32158 0	17920 2	1165 7	226	3042 6
PROCESSES OF SAME WEST NOTE OF STATES OF STATE	43 NOW FERROUS HETALS	299 3	11049 5	9151 0	365 4	570 0	4052 8	18537 6	639 8	249 8	1363 4
MACHINE TOOLS AND ALTER AN		0	•	0	8226 9	0 0	314 7	8 6	0	0	99
THE LIGHT NAME AND THE LIGHT NAM	45 MACHINE TOOLS	0	0	0	0 0	734 4	21 2	0	0	0	
RECTION WITHINGTON	46 OTH NOW ELECTRICAL MACH	246 1	1249 2	89 2	1222 8	499 8	23804 3	648 8		•	289.1
ALL TOTALISTICATIONS COLINEAT O D D D D D D D D D D D D D D D D D D	47 ELECTRICAL MACHINERY	30 3	204 4	330 3	116 6	652.5	3268 8	21316 0	5819 5	7896 4	1051.8
Particular Par	48 COMMUNICATIONS EQUIPMENT	0	0	0 0	0	0 0	68.0	424 8	4510 6	4725 4	23
MAIL PRINTEGES WITCHES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 ELECTRONIC EQUIPMENT	00	0 00	0	123 1	60	72 8	820 8	315 6	1340 7	7.00
NATION WINTERSTANDARD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO RAIL EQUIPMENT	0	0	0	0	0 0	0 0	0	0	0	13441 8
OMESSI MEMBERSHET STATES AND STAT	^	0 0	0	0	429 1	0	226 5	63 7	0	0	27.0
OTHER MUNICATION 370 2 3112 2 3122 4 314 3 170 3 1000 4 4 0250 9 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 8 185 1 80 6 185	•	0 0	0 0	0	48 5	٥	0	6	0	0	0
COMPACTION 1410 1418 5 1450 1 170 4 170 5 170 5 150 5 150 6	•	571 2	20125 6	734 7	370 3	1080 4	4098 0	5778 7	942 1	9 089	603
ELECTRONICATION 1847 1848 184		320 0	2116 2	170 4	102 5	107 5	657 4	539 8	165 1	56 8	56 7
NALL PROMOTED SERVICE 1515 790 0 477 2 82 5 1154 2 9 9 8 3 4 5 1 5 9 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ELECTRICITY ETC	1418 5	14583 1	7107 4	438 8	498 8	2233 3	2119 1	356 1	168 8	631 2
OFFIGURE TRANSPORT SERVICES 1981 7 5556 0 1100 1 5651 310 7 2006 9 222 8 620 5 22.9 9 7784 9 1 174 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RAIL TRANSPORT S	1517 5	7901 0	477 2	282 6	173 5	1154 2	878 3	63 1	37.5	172 8
OGNATION 2013 7716 7156 7100 150 5 1002 7784 9 222 1 174 9 7 7 7 7 7 8 9 222 1 174 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	OTHER TRANSPORT	1987 7	5636 0	1160 1	564 3	310 7	2006 9	2290 8	420 5	212 9	305 8
SERVICES 5012 0 1149 2077 1 895 4 6314 6 6013 9 1323 4 989 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~	201 3	713 6	135 8	101	160 5	1002 3	726 9	212 1	174 9	43.3
SENTICES 7012 8 11876 8 2977 5 1797 8 1668 1 14155 3 870 6 2008 9 1482 7 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	S9 TRADE	5383 4	23632 0	3149 9	2007 7	895 4	6934 6	8021 9	1523 4	9 686	1128 8
MALIE ADDRESS 78694 6 76569 1 18601 6 100596 3 59598 9 19501 1 18748 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 OTHER SERVICES	2012 8	11876 8	2977 5	1797 8	1658 1	14355 3	8776 6	2008 9	1482 7	714 8
NRT INDIRECT TAX 3714 9 22989 0 5593 5 1414 0 1351 2 1369 8 26417 7 2655 0 1706 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	61 TOTAL	36694 6	222226 3	38979 6	26490 1	13601 8	100996 3	6 86666	19501 1	16748 3	26464 2
PROBES WALRE ANDER 38444 o 77330 e6164 o 10123 0 12256 c 55546 d 55570 12356 0	62 NET INDIRECT TAX	3714 9	22989 0	5593 5	1414 0	1551 2	1 3909 8	26143 7	2655.0	1706 1	2655.9
GROGGS CUTPUT 1935, 5 322565 4 53189 1 38027 1 28378 9 170274 1 186125 6 37733 1 30780 4	63 GROSS VALUE ADDED	38944 0	77350 0	8616.0	10123 0	13226 0	55368.0	40083	15557	10326	00000
Contd	64 GROSS OUTPUT	79353 5	322565 4	53189 1	38027 1	28378 9	170274 1	186125 6	37713 1	30780 4	56059 0
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ANNEXURE 1.3
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1991-92

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SN COMMODITY SECTOR	ផ	52	23	ž	SS	36	57	58	28	9
1 BADDA	0 0	0.0	1.3	0.0	0.0	0.0	57.8	0.0	0.0	8392.7
TOTAL T	-	0			c	0.0	107.6	0	0	5243.9
A CHUICAL CRORATO		0		0	0	0.0	1.2	0.0	0.0	0.0
THE SEC	0	0.0		0	0	0.0	366.7	0.0	0.0	2055.8
A POLOTIO		0			0	0.0	0.0	0.0	0	0
annone c						c	0	0.0	0	0
a domest			0 0	9 0		0.0	0.0	0.0	0.0	0.0
COLLOR	9									
B TEA	0 0		9 6	9 0						
9 COFFEE	000	000	000		0.0	0.0	0.0	0	0	0
	,		;	,	!					
OTHER CROPS	0.0	0.0	57.8	3656 0	0.0	0.0	126.9	0.0	0.0	8035.4
	0 0	0.0	89 4	288 6	138 4	0.0	0.0	0.0	0.0	8543.0
	83.1	107 7	307.B	13431 2	0	15.5	0.0	0.0	0.0	385.8
THE PARTY OF	0	0,0	9	0	0 0	0.0	0.0	0.0	0.0	2780.0
	0	90'6	585.2	0	20989.7	1695.1	204.0	0,0	0.0	2556.5
	1 2	0.3	0 7	0	375.9	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	15 7	0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	77.4	0.0	0.0	0.0	0.0	0.0	0.0	Ö
	0,0	0,0	34.8	43273 2	0.0	0.0	0.0	0	0,0	0.0
	0 0	0 000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1630.0
KUMING ADVEN	c	c	0	c	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	25.0	0.0	0.0	1032.7
	13.5	0	2	0	0.0	0.0	1014.7	0.0	0.0	8657.2
	19 0	10.3	205.5	0	0.0	123.9	110.4	0.0	0.0	360.3
	1.6	0.0	9	0	0.0	0.0	91.8	0.0	0.0	0.0
	0	1.9	6.2	0 0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUTE REMP. MESTA TEXTILES	20 4	17.6	441.4	1046.8	0.0	0.0	0.0	0.0	2454.6	33.3
	55.2	37.2	84.4	50 4	52.6	16.1	394.7	22.4	0.0	779.7
WOOD & WOOD PRODUCTS	96.2	122.7	792.5	24907.3	471.2	112.8	11.4	6	4065.0	1869.6
DAPER & PAPER PRODUCTS	511.6	8.69	977.0	743.4	251.8	226.4	2938.8	1499.6	5341.1	14572.1
LEATHER & LEATHER PRODUCTS	27.1	30.8	74.6	0.0	0.0	0.0	44.4	0.0	0.0	0.0
	4499.4	2210.9	409.0	304.2	31.8	6.7	13512.7	19.0	26.1	W. 78
	333.8	143.6	334.1	0.0	0.00	143.3	374.4	0.0	2552,0	51.5
PETROLEUM PRODUCTS	1263.8	721.0	1640.6	709.0	4500.0	6757.5	69888,6	254.0	819.2	1556.9
S COME TAR PRODUCTS	0.0	7.7	37.8	6758.0	0.0	0.0	0.0	0.0	0.0	0,0
_	0.0	0.0	17.7	476.0	0.0	0.0	0.1	0.0	0.0	0
37 PESTICIDES	0.0	0.0	0	366.7	0.0	7.	• •	0.0	0	R
	79.4	15.3	63.2	0.0	0.0	0.0	0.0	0.0	0.0	0
•	749.9	1136.0	3308.6	11363.9	304.2	18.4	227.1		0.0	44546.3
CENTRAL	0.0	0	0.0	37110.9	0.0	0.0	0.0	0.0	ó	

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ANNEXURE 1.3 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

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OTH 100F ILLUCTURED 1860 0 1 6 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000 000	*************	2375 6 2375 6 2375 6 2372 6 43 6 0 0 21125 9	263124 2222 222 368	0 % 000 000 0 4 4 0 0 0 0 0 0	988 722 721 722 723 988 722 988 988 722 172 1641
International Processing State 1985 1988 1989 19	0000 00m	**************************************	1461 8 2375 6 257 2 43 6 0 0 21125 9 4187 0	77 4 111 4 2631 2 2 2 0 0	# COOO 000	988 722 771 771 53 0 0 371 1641
Constitution Maintenant 1295 412 1174 23339 0 0 0 0 0 0 0 0 0	0000 000	~~~ can	2375 6 257 2 43 6 0 0 21125 9 4187 0	2631 2 2 2 2 2 2 2 0 0	#000 B0	322 177 0 53 1641
ELECTRONIC DELICION 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 000	WBD 440	257 2 43 6 0 0 21125 9 4187 0	2631 2 2 2 0 0 36 B	000 80	377 53 541 1641
NATIONAL PRINTED 0 0 1 365 0 0	00 000	BD 440	43 6 0 0 21125 9 4187 0	40 N	00 80	53 178 178 178 178 178
National Conference	0 000	0 440	21125 9 4187 0	0 %	0 80	371
MATOR UNITABLE STATEMENT 65 9451 775 6 70 70 70 70 70 70 70 70 70 70 70 70 70	00 E	-140	21125 9 4187 0	36 8	80	1641
OTICIA TRANSCOIT EQUIPMENT (6.6 9174 17076 0.0 OTICIA MATERIALTURING 3031 0.116 2.140 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.	0 10	00	4187 0		0	1541
ONTER MANUACTION 199 189 2 910 0 05 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6		2892	0		17105
CONSTRUCTION 548 3 120 7 443 4 49 5 EMECRATORY 1524 8 145 8 566 10673 9 FALL FRANCORY SERVICE 567 7 322 1 1361 2 9466 5				27 8	4258 2	
RALL TRANSPORT SERVICE 587 7 312 1 1361 2 9496 5	n	ū	2046 5	1778 2	3031 5	29385
ANSPORT SERVICE 587 7 312 1 1361 2 9496 5	•		3978 0	846 2	10529 8	9757
	s	2	3278 1	637 2	3963 6	2478
6 537 2 2189 3 13778 4			34096 2	1155 4	89828 7	10439
CATION 370 6 187 0 1532 8 1370 0			3481 1	0	7621 1	10914
7 2353 3 6900 7 60468 9	•		13465 8	435 3	20022	25623
5 5126 B 4081 4 6861 3 16435 4		in.	26917 9	1188 6	83305 2	43728
61 TOTAL 615968 1 33726 3 90551 0 408279 1 135968 1	1 1	1 93528 2	209223 1	10633 6	236724 8	267964 1
8 0115 8 1872 C 0000 1 03011		۰	25301 3	327.3	6836	25076
CONTRACT CON	•		228880	20220	660470	1114960
64 GROSS CATIVATOR 109096 0 67335 6 200398 8 706010 0 266952 1		1 176789 B	463164 4	71681 0	905031 6	6 1408000

ANNEXURE 13
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS 1991-92

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HENT	41089 6	154541 4	381 0	0	-3032 0	27 0	216 0	151701 4	192791 0
OTHER CEREA.S	6399	90634 7			194 0			90852 7	97252 0
AT . SER	25876 9	93364 6			274 0			89117 1	114994 0
SINTA BOANE	45483 8	40845 1			16 0	0	0	40861 1	86345 0
	8361 0						111 0	28 0	8389 0
O-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO	38389 0	0	0 0	0	9	8189 0	1664 0	6533 0	44922 D
	14240 0					0	0	0	14240 0
1000	2039 0					4561 0	0	4561 0	0 0099
RUBBIER	6056 0	0	0 0		24 0	0 0	0 06	-66 0	5990 0
adopt dames	284913 7	273532 3	311.6	0 0	5541 0	24642 0	2821 0	301206 2	586119 9
Market Greekwards	118110	120273 1	367.8	9592 4	4454 0	1745 0	8593 0	331839 3	449949 9
TOOLS IN THE PERSON NAMED IN	42559 4	55775	1,60	0	436.0	0 0	6214 0	50157 6	92727 0
TOTAL STORY	6140 5	30657.5	30		0	12209 0	40 0	42829 5	48970 0
COURT & TANKET	53198 7	12656	64 7		-4791 0	199 0	3918 0	4241 2	57440 0
The Part of the Pa	2 000811		0	0	0 608	0	28000 0	-57191 0	61799 2
There is a second of the secon	1624 0				30 0	9866	0	3896 0	6500 0
OFFICE METALLIC MINERALS	6476 0	0	0		0		1169 0	1124 0	7600 0
NOW MET & MINOR MINERALS	78257 0	0	0	0 0	1590 0	1312 0	69334 0	-66432 0	11825 0
BUCAR	5313 2	99869	0 0	0	1141 0		104 0	71099 8	76413 0
The Books	13366 7	5,492	c	G	23 0	0	0	5515 3	18625 0
PARAMETER OTT	2402 3	27570 7	0	0	653 0	0	161 0	28062 7	38453 0
COURTER POOD 6 HEVERAGE	79051 2	288818 8	269 9		9055 0	16033 0	6500 D	307676 7	386728 0
COMPON TEXTILES	116091	192008 6	89 2		7191 0	26762 0	700 0	225350 8	341442 D
MODITEN TEXTILES	6323 2	13998 8	0	0	39 0	361 0	1000	13398 8	19722 0
ART SILK & STATHETIC PIBRE	47704 5	106089 5	00	00	13987 0	7434 0	3200 0	124310 5	172015 0
JUTE HEND, MESTA TEXTILES	26337 8	0	13 1	0	535 0	3160 0	100 0	3608 1	29946 0
OTHER PECTILES	20198 8	49524 1	876 7	548 4	805 0	60777 0	2400 0	110131 2	130330 0
NOOD & WOOD PRODUCTS	41809 6	3312 6	397 1	337 6	0 686	225 0	532 0	4729 4	46539 0
PAPER & PAPER PRODUCTS	62409 9	13640 5	13836 5	0 0	3389 0	396 0	11227 0	20035 0	85445 0
TRATHER & LEATHER PRODUCTS	12641 6	14779 5	6 1	0 0	305 0	33703 0	676 0	48113 4	60755 0
MERCHANIS PRODUCTS	36063 1	11622 4	546 5	18116 0	588 0	10825 0	952 0	40745 9	76809 0
DIARTIC DROMINTS	18199 6	3541.9	1.5		9492 0		1054 0	14314 4	32514 0
STATISTICS PRODUCES	202735 1	64223 1	15155 5		2153 0	10940 0	48572 0	43899 6	246634 7
COAL TAR PRODUCTS	14449 0	0	0	0	1237 0	12 0	840 0	409 0	14858 0
PERSONAL LEARNING	97773 9	0	397 0		376 0	29 0	16593 0	-17791 0	79932 9
PESTICIDES	13289 7	0	8		1562 0		1401 0	1365 3	14655 0
STATESTIC PIERS & RESIN	54445	0	0		30616 0	1175 0	45860 0	-14069 0	40376 0
•	205324 9	56214 6	2088 3	0	2323 0	27250 0	32242 0	55634 0	260958 8
C. C	40707	0	00	0	3409 0	0	0 0	3369 0	44096 0

ANNEXURE 1.3 INTERMEDIATE URE AND FINAL DEMAND FOR 60 SECTORS : 1991-92

COMPOSITE BY AND THE TABLE										
	I. USE	F. com.	PT. CONS. POB. CONS.	0.P. INV	G.P. INV CH. IN STR.	DODGE	INPORTS	7.7.083	9. OUTPUT	
41 OTH. NOW MEN MENTERAL PRODS.	51826.8	18666.4	3.0	531.8	3473.0	3930.0	2481.0	į	78968.0	
IPON	312012.	0.0	0	19653.1	1038.0	3350.0	24500 0		111843	
43 NON PERROUGH METALS	63700.	0	0.0	0	3292.0	0.844	12950 0		200	
44 TRACTORS & OTH AGRI HACH	19906.7	0	184.2	17983.1	269.0	272			1050	
45 MACHINE TOOLS	1725.	0.0	0.0	22626.1	425.0	0 27.75	4936.0		2222	
46 OTH. NOW ELECTRICAL HACH.	58817.7	3986.3	6951.9		11491 0	0 4451	125162 0	•		
47 ELECTRICAL MACHINERY	79551.7	15802.3	647.3		286B 0	0 1912	1000	•		
48 COMMUNICATIONS EQUIPMENT	14667.6	9995.8	704.6		0.0	248.0	0.0129	•	111	
	3185.3	31748.6	50.2		1739.0	4766.0	25882.0		27414 0	
SO RAIL EQUIPMENT	73506.4	0.0	0.0	28738.6	9200.0	368.0	2501.0	35805.6	109312.0	
A GOLDON IS					:					
The same of	777			44374.0	126.0	5491.0	6500.0			
52 OTHER	19165.5	20445.6		28603 9	8033.0	4092.0	25962.0			
_	105776.1			15558.1	2374.0	55714.0	35599.0			
	89862.2		36109.9	\$80037.8	0.0	0.0	0			
	226548 3		24787.1	0.0	0.0	0.08	0	9 792.97		
	68489.6		5611.3	1671.9	0.0	6799.D	0	24400		
	238011.4		14600 5	6091 4	0.0	31489.0	62615.0	228152 5		
58 COMMUNICATION	35365.0		7197.0	0	0.0	1134.0	2535.0	36316 0		
59 TRADE	478485.8	326944.9	15332.8	42544.2	0	60703.0	0	445524.9	924010 7	
60 OTHER SERVICES	370298.5	-	486456.7	0.0	0.0	86145.0	39880.0	1184381.2	1554679.8	
61 TOTAL	4414078.0	3755344.0	669991.4	4414078.0 3755344.0 669991.4 1164104.0 138940.0	138940.0	557166.0	728480.0	7166.0 728480.0 5557065.0 9971145.0	9971145.0	-
				1						
63 GROSS VILLE ADDED	359904.6	136766.3		20838.6 100436.0	0.0	454.0	0.0	0.0 266494.9 626399.5	626399.5	
64 GROSS OUTPUT	9971143.0									

ANNEXURE 1.4 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1996-97

No.					H	00818	8 M				
Color Colo	COMMODITY	-	2		•	s.	٠	,		•	3
1 1 1 1 1 1 1 1 1 1	BADDY	45361 6	64.3	0	94.9		0.0	0.0	0.0	0.0	0
Comparison	THE PARTY.	13.1	28638 2	0 0	15.0		0.0	0.0	0.0	0.0	0
Column C	OTHER CESSELS	76.4	14 3	2035.3	10		0.0	0.0	o.	0,0	ò
Column C	200	68	577.0	0	16370.0		0	0.0	0.0	0.0	ä
Control Cont		0	0.0	0	0	8	0	0.0	0.0	0.0	ò
Color		0.0	0	0	0		0.0	0.0	0.0	0.0	ö
The color of the		c	0	٥	0 0		0.0	1820.8	0.0	0.0	ö
OTTER PARTIES CONTINUED TO CONTINUE TO CON		0 0	0	0	0		0,0	0.0	0.0	0.0	0
Control Cont							0	0.0	0.0	0.0	٥
MATHER, DECORAGE MATHER, DECO		. 0	0	0	0		0.0	0.0	0.0	0.0	0.0
Color Colo											
March Marc		309 7	95 0	0 0	1393.5	0.0			0.0	0.0	0.0
THE STATE OF THE S	TANTA.	30822 9	9410 4	25860 6	11687 6	1536.9		35	952.2	774.4	9.0
		2			4 6	9			0.0	0.0	ò
Color Properties Color	2000	0 0		0	0	0			0.0	0.0	ö
COURTY PROMISSION A N CASA COURTY OF		14.		6		0			0.0	0.0	0
Titled Total Control	The second			0 0					0.0	0.0	0
Order 67 Column	CALLED FORMAL CONTROL								0.0	0.0	ď
Note March											
Compared to the compared to										0	ď
STATE OF PRINCIPLE STATE O		9 0		9 0	9 0	0			0	0	0
National Registration Nati				,							
STREET S		0 0	0	0 0	0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER PRODUCTION AND ADMINISTRATES. 10.1 10.2 10.2 10.2 10.2 10.2 10.2 10.		0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	ò
Common standard Common sta		8	10.8	0.0	31 3	0.0	0.0	0.0	0	0.0	ó
WOODLAND THEFILES		90	9.9	0.0	14.4	0.0	0.0	0.0	0.0	0.0	ò
AND STATE OF THE PRINT OF THE P	WOOLLEN THE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	o
UNITAL PROPERTY STATES (28.7 175.1 0.0 170.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ARC BILK &	0 0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	ö
Comparison Com	JUNEAU MERINA	626.7	175.1	0.0	120.0	0.0	0.0	0.0	0.0	0.0	ö
NATION PROPERTY NATION	OTHER PERSONS	23.6	12.4	0.2	3.5	0.2	0.0	0.2	0.0	0.0	o
Application		5.7	5.4	0.0	10.8	0.0	0.0	0.0	0,0	0.0	ö
10 10 10 10 10 10 10 10		40.0	30.0	2.6	25.9	3.1	0.0	8. 8.	0.0	0.0	ó
12 2 2 3 1 1 1 1 1 1 0 0 0 0	STOROGO GREATURE SACREST	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ö
### 131 31 31 31 0 72 2 00.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	principle paracicity	12.6	0		1.7	1 7	0.0	5.5	0.0	0.0	Ö
######################################	PLASTIC MODDICTS	36.2	13.1	0	72 2	0.0	0.0	0.0	0.0	0.0	ó
200 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	PETROLIZAK PRODUCTS	9112.1	5138.4	3191 0	2602 6	1054.5	0.0	1327.3	0.0	0	ò
PRESTIGNATION 3748-4 2598-0 915; 2577.2 7893.0 783.2 7782.4 305.5 0.0 ***STATION OF PRESTIGNATION OF PROPERTY TO THE TRANSPORT TO THE TRANSPO	•	0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	ó
PER EMBERN 2788 4 667.6 993 15895 664 1772 5537,6 110.77 2264.4	PIGETIAL STATE OF THE PERSON NAMED IN COLUMN N	37468.4	25828.0	9109.9	3267.2	7893.0	263.2	7762.4	536.5	0.0	899
STATURATION AND EMBERN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	_	2738.4	867.6	93.3	1369.0	86.4	17.2	5537.6	110.7	926.4	712.
TANGER CIPACITY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	SINTHETIC PERS 6	0.0	0.0	0.0	0,0	0	0	0.0	0.0	0.0	0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		6.9	0.2	0.0	37.0	0.0	0.0	0.0	0.0	0.0	ö
	CENTRAL PROPERTY	0	0	•	•	c	•	c		•	9

ANNEXURE 1.4
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1996-97

OF IT BY INDUSTRY TABLE										
				ដ		RIRS				
н сомновит фистов	1	2	3	-	8	٠	1		•	9
1 OTH NOW MENT MINERAL PRODE	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
2 INON & STEEL	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0	0.0
3 NOW PERPODIS NETALS	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 THACTORS & OTH. AGRI. HACH.	10502 0	1843.3	3527.1	1985.6	400	23.0	575.6	0.0	525.9	0.0
5 MACHINE TOOLS	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 OTH. NON ELECTRICAL HACH	403.8	855 8	5 3	40.3	6.1	0.0	9.2	0.0	0.0	0.0
7 ELECTRICAL MACHINERY	14 8	11.5	1 7	2.0	2.0	0.0	1.8	0.0	0.0	0.0
8 COMMUNICATIONS EQUIPMENT	0 0	0.0	0	0	0.0	00	0.0	0.0	0.0	0.0
9 ELECTRONIC ROUIPMENT	0 0	0	0	0	0	0	0.0	0,0	0.0	0.0
O RAIL EQUIPMENT	0 0	0	0	0 0	0.0	0.0	0.0	0.0	0.0	0.0
1 HOTOR VEHICLES	21.7	1 61	5	3.3	e,	0.0	3.0	0.0	0.0	0.0
2 OTHER TRANSPORT EQUIPMENT	422 3	336 0	522 2	342 3	79.1	10	124.4	0.0	86.8	0.0
	223 3	2 77	60	58.4	0	0	0 1	0.0	0.0	0
54 CONSTRUCTION	9864 9	5572 4	5604 7	4896 2	1108 0	57.5	1547.3	0.0	1778.9	0
S RIECTRUCITY BTC.	5461.1	11900 1	719 8	1123 6	1337 5	0 0	1015 0	0	0.0	0.0
S RAIL TRANSPORT SERVICE	3161 0	2755 6	636 1	510 7	520.6	15 5	497 3	33.5	5.7	51.4
57 OTHER TRANSPORT SERVICE	3859 4	2098 8	827.5	883 4	502 9	26 3	716.9	98.7	153.2	55.3
SE CONSCINUIDADES	243 8	181.6	14 8	59 J	17 2	0 0	15.1	0.0	0.0	0.0
S9 TRADE	27826 1	9296 8	2805.2	3949 0	3132 6	68.9	2289 G	217.3	336.4	190.4
SO OTRER SANGICES	6390 6	10450 3	1942 7	1555 6	1305 1	102 1	627.4	310.6	115.4	110.7
										-
61 TOTAL	195354 2	116592 0	56905.0	54425 6	27259 B	1242 D	27798 8	2259.2	4703.2	2019.5
NET IN	-16631.7	-13065.6	-3208 0	-1172 0	-3216 4	-112.6	-3306.5	-231.1	-17.6	-413.8
64 GROSS CUTTLE	505607.9	273075 1	170843 6	145863.3	108769.9	10087.6	61749.0	18338.7	10396.0	8102.9
										1

ANNEXURE 1.4 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1996-97

				2	1 to 0 to 1					
COMMODILE COMMODILE	#	12	13	7		16	17	18	87	20
	1.16	A. b174	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOWN I	1092	8. C9 15	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Supply of the supply of	150.0	5529.0	0	0.0	0.0	0.0	0.0	0.0	0.0	9
	75.0	8970.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ô
- CONTRACTOR	0	1307.4	0,0	0.0	0.0	0.0	0.0	0.0	0.0	48385.8
- American	0	0	0	0	0.0	0,0	0.0	0.0	0.0	Ö
2000		0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
				0	0	0.0	0	0.0	0.0	0,0
TEA.				0	0.0	0.0	0.0	0.0	0.0	0.0
O COFFEE 10 RUBBER	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0
A COLUMN TO A COLU	16626.3	7.110.011	10.2	0.0	0.0	0.0	0.0	0.0	0.0	15.2
	30166	172 6		0	0.0	0.0	0.0	0.0	0.0	0
12 ANIMAL BUSINGURI			143.5	0	0.0	0.0	0	0.0	0.0	423.
				0	0	0.0	0.0	0.0	0.0	0
					280.3	0.0	1.1	7	1.2	113.
		0	0	0	0	0.0	0.0	0.0	0.0	80.1
The state of the s			9	0	0.0	0.0	0.0	0.0	0.0	ö
				0	0.0	0.0	0.0	0.0	0.0	0
The same				0	473.5	0.0	0.0	0.0	0.0	1286.
CTTATE OF	9	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	120.
	•	:								
XHANDS OF THE PARTY OF THE PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.0
	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ö
	•	23549.4	0.0	374.2	0.0	0.0	0.0	0.0	0.0	•
	68.7	5087.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	35.0
	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	•
ART SILK & STATHETIC FIRMS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ò
	41.9	0.0	2.7	0.0	0.7	0.0	0	0.0	9	2652
	22.3	0.0	82.9	481.9	0.0	0.0	0.0	1.5	0.0	Š
29 WOOD & WOOD PRODUCTS	2.5	0.0	29.1	17.9	63.6	0.0	0.7	138.8	12.9	=
PAPER & PAPER PRODUCTS	16.1	0.0	185.7	0,0	319.6	0.0	2.4	9.9	11.5	62
STOKNOS SARARA LA GARAGA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ö
	-	0	204.2	0	18.6	0.0	0.7	7.	0	ö
	200	0	13.5	0	0.7	0.0	0.0	0.0	7.1	5
	12720.4	0.0	8 926	7606.8	2060.6	2553.9	512.9	797.2	1536.2	1269.
	0.5	0	0	0.0	0.0	0.0	9	2.0	23.4	115
	27215.	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	2
PESTICIDE	3113.2	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.	0,0
	•	0.0	0.0	0.0	0	0.0	0.0	0.0	0.	6
39 OTHER CHANGE	13	2373.	0	- ·	1136.3	72.9	7	260.6	332.2	
	0	0.0	1.0	9	9	638	9	9	2	3

ANNEXURE 1 4
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS 1996-97

				ī	INDUSTRIE	RIES				
DA COMMODITY SECTOR	11	12	13	=	15	16	17	18	19	20
AND MAN AND ATTACHES, DOORS	-		. 0	0	0	1287 8	0	0	0	388 3
THE PART OF THE PERSON NAMED IN			•	58.4	0	0	0	0	2	•
	• •	0 0	0	6	0	0	0 0	0	0	•
A TRACTORR & OTH AGRI MACH	2781 8	0	0	0	0	0 0	0	0	0	•
			12 8	0	62 9	0		00	0	•
	99.2		27 7	0	11352 2	14699 6		457 1	386 9	4
7 ELECTRICAL MACHINERY	0		50	0	0	00		1 3	0	•
	0		0 3	00	0	0		0	•	•
	٥٥		3.5	0	0	0	0	0	0	0
SO RAIL EQUIPMENT	0 0		0 0	0	0	0 0	0 0	0	0	•
HOTOR VERTORS	13 2	0 0	397 6	0	474 6	0 0	4	1 6	9 1	•
	796 2	0	15 0	743 8	0	0	0	0	0	•
	17 6	772 8	284 4	8 .	1149 4	00	9	140 2	284 2	818
	8159 1	439 6	273 1	0 0	225 6	1506 8	139	39 3	0 7	700 2
	3018 0	0	46 2	0	1472 3	454 0	208	1454 0	713 4	9
	2007 7	1083 1	329 9	62.3	1633 2	191 3	21 0	43.9	31 0	448 3
	2990 2	5364 5	3349 6	218 7	597 6	165 2	24 6	435 0	220 B	3658 3
58 COMPUNICATION	82 6	0	207 0	0	88 3	0 0	31 3	16 3	4	193 3
	16990 2	116782 9	254 3	533 7	1419 6	757	70 1	179 8	229 8	12156
	6616 5	2039 0	1741 0	296 5	2027 4	3221 7	150 9	376 4	219 0	9319 2
61 TOTAL	132414 7	331920 3	8674.5	10460 3	25557 5	26030 1	1555 7	4369 0	4029 1	83971 4
62 NET INDIRECT TAX	-7375 5		517 8	1597 8	1246 0	1112 3	143 0	324 9	424 5	561 0
63 GROSS VALUE ADDED	428119 1 553158 2	243961 B 575934 B	78507 1 87699 4	56626 6 68684 6	50376 8 77180 4	74549 1 101691 6	5477 1	7807 9	17420 2 21873 8	17457 3
• • • • • • • • • • • • • • • • • • • •										

ANNEXURE 14
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS 1996-97

								**********	****	
COMMODITY SECTOR	21	22	23	24	52	26	27	28	29	Ř
and an arrangement of the second			2328 2	16.2						0
			6 1059	2						
MILEAN CONTRACTOR			2000							
CIRCA CENTRAL		4667.4	600	9 0	0	0	0	0	0	0
			200							
BUSHINGTON			0							
2018			0 0							
COLLOR			9 66 66 6							
2			9 0000							
COFFEE			7632 0							
RUBBER			0							
			7 03213	. 73	0	4	136 9			1 67 3
OTHER CROPS	7 0		10000	5 9		0 0700				
ANIMAL HUSBANDRY			7 07757	2						
PORESTRY & LOGGING	140 7		1033			9 0	10			2
FISHING	0 1		2 2 2 2			200				
COME & LIGHTTE	87.8		133/			225				
CHANDE PETROLEUM 6 N GAS	0	0	1923 8	0	0	0 0	9 6	9 0		
INCH ORE	0		0			9 0	0 0			
OTHER METALLIC MINERALS	0		0 0			0	0			
NOW HET & MINOR MINERALS	354 8		22			0	0			
BUGAR	1124 1		11562 3			0	0			
10000	. 346		1 1407 8		c			0 0	0 0	0
MANAGED BOOM			200		-			0	0	0
			14001					4		
CIRER FOOD & BEVEROUS			200	116212	142.2		7	17082 4	7 69	
COLLOR TEATLES			2					3068		
POOLLEN TEXTILES	5 1				100			2000		
			1 000		9 10 10			7000	,	
TUTE, HERP MESTA TEXTILES	241 8		2 660		900			0 / 701	9 9	
۲,	0 0		6 2 3	6 6 6				1 1 1 1 1		
MOOD & WOOD PRODUCTS		12	1000	2447		1251	7 2	6 868		12627
PAPER & PAPER PRODUCES	•		2	5	•				•	
LEATHER & LEATHER PRODUCTS	0	0	2 0	99 0	0	0	0	10	18 3	8.8
KURBER PRODUCTS	0		0							×
PLASTIC PRODUCTS	26 2		3117 2							Ē
PETROLEUM PRODUCTS	1470 1	261 8	6332 0				1205 4	3722 6		2096
COAL TAR PRODUCTS			39 3							-
FINCTLICERS	0		0							•
PESTICIDES			0							•
STATESTIC FIERS & AZEIN			615 7	11010 2						200
OTHER CHEMICALS	149 8	10889 6	4256 6		60 0		125 2	637		9
	0	0	0	0		0		0		

ANNEXMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS 1996 97

COMMODITY BY INDUSTRY TABLE										
				н	TSUGN	STRIES				
SN COMMODITY SECTOR	21	22	23	24	25	26	27	28	23	30
COOR INCOME AND MAKE THE PARTY OF THE PARTY	9 74	r	100 2	,	c	c	0	6	29	114 6
40 TEM C STREET		644 6		427 4		16.4	255 8	29	97	142 9
AN NEW PERSONS HETELS	0 0	0	262 5	15 9	10.	154 7	0	769 3	10 0	1911 7
44 TRACTORS & OTH AGRI MACH	0		0	0	0 0	0	0	0	0	0
	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	٥	0
	125 4	55.0	28322 1	1365 6	6	614 2	164 2	912 5	165	745 6
	0 0	0	0	0 0	0 0	0	0	0	٥	0
	0 0	0 0	0	0 0	0 0	0 0	0	0	0	0
	00		0	0 0	0	0 0	0	0 7	0	0
	0 0	0 0	0 0	0	0	0 0	0	0		0
ST MOTOR VERTOLES	0	0	0	0 0	0	0	0 0		0	0
	0 0	0	0	0	0	0	0		000	0 0
53 OTHER MANUFACURI C	96	82 B	80	2952 2	225 9	24B B	358 8		300 5	1355 9
SA CONSTRUCTION	0	34 0	9	663	4	2	87.2		177 5	255 7
SS ELECTRICITY ETC	500 2	59.9	5 5 7	2 82 0		9	501		505 4	4984 8
		295 3	ø	2 9	96	36 2	226 5		312 6	1191 9
	3 4 9		0	3 23 5		6 4 0	200 4		1581 7	2248 3
58 COMMUNICATION	31.5	55	64.2	834	2 96	2	2 5	371 6	75 9	644 4
S9 TRADE	2 85 2		650 6 5	6 05		9 06	4 5		3912 B	7493 6
	069 2	964 6	29€ € 0		422	e u	6		1410 3	8611 1
			;						,	4
61 foral	1595	m m	10 10 10 10	b	D	J.	200	1 177/6	070	7 1619/
And the desiration of the second	9		a a	7		4	1761 0	5457.3	1978 1	6152 9
62 obose white Anneh		4				44 58 0	134 8 6	15 025 1	9249 2	40261 6
64 GROSS OUTPUT	86 5	0 00		5 62 6	0	£\$ 8	900	263695 5	643 7	24605 7
									Contd	

ANNEXURE 1.4 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1996-97

					E 00	8 1 2 5				
SN COMMODITY SECTOR	31	32	33	ř	35	36	37	38	5.	Ç
1 Pathor	0.0	ì	0.6	0.0	3.0	0.0		0.0	2732.1	
2 ENERGY	0			0.0	6 0	0.0		0.0	\$5.6	
2 CTHER CEREALS	0		5	0 0	0.0	0.0		0.0	3.3	
4 217 585	0.0		0	0 3	0	0.0		0.0	0.0	
* SINCERCANE	0.0		0.0	0	0.0	0,0		0.0	0.0	
F. ITTLE	0.0		2	0	0,0	0.0		0.0	0.00	
Common			4	C	0.0	0.0		c	c	
10.100			0	0		0.0		0	0.0	
15K				:						
10 RUBBER	10	7435 8	0	0	0	0.0	0.0	32.3	0.0	0.0
11 OTHER CHOSS	5			0.0	0.0	0.0	0.0	0.0	5201.2	0.0
12 ANTHAL BREDGE ST	C FACA			0.0	G	0	0.0	0.0	115.3	0.0
13 FORESTRY L CALLES	2 56 5			1.22	-	0.0	1.5	576.3	1765.2	9.6
ATRICA	d			9.	0.0	0.0	0.0	0.0	0.5	0.0
15 COM. 6 173N 15	139.2			916	* A 12	1156	1.2	400.7	6.995	2163.6
	0.0			135323.5	č	1.24.5	0.0	9.69	963.9	0
17 INON ORE	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 OTHER METAL 14 HINTLINE	0.0			0.0	e	0.0	0.0	0.0	22.0	0
19 NOW HET A THURSDALE	0 1	564.0	0.7	9.0	9 06	7952.2	305.1	851.2	3639.7	11711.1
20 SUGAR	0.0			6.09	0.0	0.0	0.0	31.5	362.5	0.0
		c		5	c c		0.0	c	46.0	0.0
000 000 000 000 000 000 000 000 000 00	100	C	0	6 4%	0		0	0	1.59 8	0
STATES OF THE BOARD OF	0.10			C	0		0.0	582.9	6301.9	0
NA CONTRACTOR DESCRIPTION		10.		1.96	100		22.3	8.69	3315.3	2.7
25 NOOLLEY TEXTILES		C	0.0	9.0	0	0.0	0	0.0	0.0	0.0
26 ACT STIN & STORMANTIC ANTRE		36.25.3		9.0	0		0.0	0.0	55.0	0.0
		158.8		127.7	36.2		121.3	2.42.2	1230.3	3505.4
28 OTHER TEXTILES		961.5		2.4	0.1	0	0.2	6	106.3	0.0
29 WOOD - MICH PRODUCTS	,	98		10.	5.0	9 8 5	65.8	81.7	1457.0	10.6
SO PAPER & LINGER PROFICES	d G	308.8		204.9	20.7	92.4	116.0	3700.7	5600.9	4.1
	45.91.9	54.5	r.	0.0	0.0	0.0	0.0	0.0		0.0
32 RUBERA PRODUCTS	9 1586	5007 #	117.1	0.0	0.0	0.0	0.0	5.4		0
	6.0.3	91	1252.5		28.7	668.1	737.0	540.0		32.2
	P	1724	641.9	0.675.5	864.2	11290.3	264.4	4323.7		1202.9
35 COAL TAR PRODUCTS	e-		6.9	0.2	2.382.9	27.9	0.7	9.0		32.9
_	0	9	0.0	G C	0.0	9.5958	0.0	0.0		0.0
	0.0	0 0	0.	0.0	0.0	4.5	2295.0	0.0		0.0
SE STATEMENT FIRST & PERSON	0.000	0	4.0	m .	n e	9	0.0	10945.2		0
•	500	er.	0.0	1/646.4	2.0	13667.6	2775	1078	97.69.6	20.0
1	0.5		1	9		5.0		9		•

ANNEXURE 1.4
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1996-97

				z. 	# # # # #	, i				
SN COMMODITY SECTOR	g	32	5	34	35	3.6	37	38	39	9
11 OTH NOW MET MINERAL PRODS	201.9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.	5.00	9	22.6	011	0	4132.6	451.3
	11.1	67	-	c	r	0	n	16.1	322.5	1325.9
	46.7	0.00	234.0		G.G	6	52.9	7.67	3748.3	54.6
44 TRACTORS & OTH. AGR. MACH.	0.0	o	0	0.0	0.0	d	6	0	0,0	0.0
45 MACHINE TOOLS	0.0	0.5	0.0	0 0	0.0	0	0.0	0.0	0.0	0.0
46 OTH NOW ELECTRICAL MACH.	3::5	740	7.0	0.46	171	Ş	0 60	216.4	1250.0	486.3
AT REPORTED ASSESSMENT	0	0	ن	9		0.0	0.0	0 9	0.0	0
	0.0				7	3	0.0	0	0.0	3.0
	0	Ų	G.			10		0.0	٥	0
	0.0	CI C'	0.0	3	0.0	0	5	0.0	9.0	0.0
1 MOTOR VEHICLES	Ģ.	Ç.		5	1	G	1.	6	د	٥
	C							0	000	-
	1016		1 4 8 7		D.	- 10		100	7902.2	604
SA CONSTRUCTION	6.93. 6	10.00		0.000		1,047	11	5.53	777.5	765.2
	1216.B	12.00	41	9 6163		0	174	B 6547	20119.7	1646.1
	9 555	W. 757	6.		100		***	306.0	2000	2039.7
	7 11.65	V 1977	100	1	1		2. 645	1,099.7	B. 35. 4	1061.2
	409.6		1	1.6		24	1.	218.3	3.4.0	100.0
	26245.9	7	F- 00.7 0.1	1.400.1	9 10 10	2.40.11	1011.8	55.11.7	29106.9	5733.8
O OTHER SERVICES	1769.4	er er er		1	on	r F	6.0	1.38.4	\$1.03 F	* *66
61 TOTAL	109346.8	6 1					1.64.1.	3:689.7	227102 3	38609.5
2 NET INDIRECT TAX		91	2	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		21912.2		2008.6
63 GROSE VALUE ADDED	V C	day	10 to					8,350.51 8,350.51	213430.7	52235.6
* 68000 00000 00000										4 - 4

ANNEXURE 1 4 INTERMEDIATE USE AND FINAL DEMAND FOS 60 SECTORS . 1996-97

TABLE	
INDUSTRI	
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				Z	30818	5 2 2				
SN COMMODITY SECTOR	ş	42	7	7	45	9	Ç	ŧ	69	¥,
PADDY	3.2 6	6	!., :			00			0	0
WHEAT					0	0		0	0	0
OTHER CEREALS	0		0		Ų	0			0	0
PIT.SES					o	0			0	٥
SUGARCANE					ç	0			0	0
July 1					7	0			0	0
TO THE PARTY OF TH					, -					
107					,					
War. 1	,				٠				• •	
RUBBER	h 1	00	00	00	,	0 0	00	00	00	0
OTHER CROPS	9					0	0			0
ANTWAL MISSAMON	4									- 6
ENTERNA A TORONTO	633	668 4		27.0		3.4				349
CALENTA						0				0
2001 1 11001110						105				5
Carolina permonente o se osse	2111									3 2
CADIS FELFANISHED & C. ONE						2				,
OWNER WHITE WITHING	0 0									,
DIRECT SELECTION CONTROL			100			,				0
NOR RES * RIPOR '11 LINES	20000		000	000	40	30	0 0	9 0	2 0	3 0
SUCAR		•	9			>				5
KBANDSARI BOORA		000				0 0	0			0
HYDROGENATED OIL		00				0	0 0			٥
OTHER FOOD 6 REVERAGE	5 6	0		0		0	0		0	0
COTTON TEXTILES		24 4				116 7	155 8			6
MODITEN TEXTILES		0 0				0 0	0			0
ART SILK & SYNTHETIC FIREX		0				22 1	2 8			0
THE HIND MESTA TEATLES		336 6				109	140 9			33
OTHER TEXTILES		0 2				3.1	16.4			•
WOOD 6 WOOD PRODUCTS		103 7				9 089	1334 0			29
30 PAPER & PAPER PRODUCTS	374 3	40 2	21.9	26 7	7 66	265 8	1811 7	553 1	266 1	60
Simple of Leading Courses		c					6			2
D. RODE DOORSTONE				0 00.91						
PLATE PROTECTA		127		1					7 4 4	2
DETECT STA COUNTY		11150 1		365			4038 2		262	22
COME TAS PROPOCTS		8087 9	9	77		243 7		37.6		112
FERTILIZERS		c		0					0	-
PESTICIDES		0		0 0			0			•
SINTHETIC FIRE & RESIN		0								0
OTHER CHEMICALS	1709 0	3722 6		1271 2	155 9	1412 9	4481 5	590 7	348 6	1472.
Charles		0	0			0		0	-	-

ANNEXURE 1.4 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1996-97

				7	18001	R I 8 8			:	
SH COMMODITY SECTOR	41	42	43	4	45	46	1.7	\$	49	ŝ
41 OTH NOW HET MINERAL PRODS	6679 9	2207 9	12 8	9 0	20 6	96 5	1594.9	343 0	182 6	0
6 STREIL	1547 6	191857 5	2636 7	15172 7	6542 6	50914 5	4304 9	3145 4	660.5	8614.0
43 NON PERSONS METALS	4 69 4	25849 0	1356	565 2	787 0	8422 3	8686 8	1640 1	691.8	1725 4
	0	0	0	12395 5	0	450 4	15 8	0 0	0	84.7
45 MACHINE TOOLS	0 0	0 0	0	0 0	4709 1	31 7	0 0	0	٥	0.0
46 OTH NON ELECTRICAL MACH	340 7	1761 0	109 1	1290 4	621 0	42503 4	938 6	7.2	60	329.3
47 ELECTRICAL MACHINERY	41.9	288 1	404 2	162 3	810 8	4305 0	56810 2	1957 3	1418.3	1198.0
48 COMMUNICATIONS ROUTPHENT	0 0	0 0	00	0	0	397 7	177 0	35157 6	25221	34.5
49 ELECTRONIC EQUIPMENT	0	00	c	190 4	· m	355 8	25681 0	809 0	22709 0	417 2
SO RAIL EQUIPMENT	0	0	0 0	0	0	0	0 0	0	0	13879 4
51 MODOS USHICIAS		c	0	663 8	0	829 7	102.2	0	c	35.3
		0 0	0	75.0	0 0	0	0 5	0	0	0
	80	7836.2	656	100	1491 6	10730 9	6476 0	2415 0	1884 5	763 7
	45,	3334 €	163 0	158 5	148 4	962 0	866 2	423 3	157 2	73.7
	203	22505 2	8 8838	622 3	6,1 6	3044 5	3267 7	850 4	435 3	744 1
	1835 7	1569 8	649 0	437.3	239 6	1689 0	1409 4	161 7	103 8	218 7
S7 OTHER TRANSPORT SERVICE	9 0	B270 2	1656 5	916 5	450 3	3083 5	3859 8	1131 9	618 5	406 4
58 COMMUNICATION	r 63r	1117 8	184 6	156 2	221 6	1466 7	1166 4	543 B	184 2	54 8
	3798 0	, 7625 5	4283 6	3105 3	1236 1	3178 6	2564 1	3905 2	2740 1	1428 5
60 OTHER SERVICES	5 8602	14959 3	4049 2	2 80 7	1627 9	16451 B	3438 0	6432 9	4105 3	904 6
61 TOTAL	55478 2	35-212-7	55587 1	434 7 0	20384 3	158346 6	154664 9	62455 2	62714 2	34066 1
62 NET INDIRECT TAX	₽ 07E+		6 6509	1702 8	2265 2	13857 3	57170 6	5723 4	2464 4	2906 1
63 GROSS VALUE ALDED 64 GROSS OUTPUT	122067 0	116995 2 505239 1	10685 2	13657 B 58817 6	39177 6	76962 9 249166 B	86832 6 298668 1	28498 4 96677 0	20045 2 85223 8	33970 9
									Pauco	

ANNEXURE 1.4 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS : 1996-97

				H	RDUSTR	8 12 1				
SH COMMODITY SECTOR	15	32	53	54	\$	90	7.0	58	59	9
	c	c	2.1	0.0	0.0		6.9	0.0	0.0	8361.4
PADI		0	60	0	0.0		161.7	0.0	0.0	7320.4
Which Cuberts	0	0	0	0	0.0		1.3	0,0	0.0	0.0
THE CO. LEWIS CO. LANSING.	0	0	0.0	0	0.0		0.145	0.0	0.0	2869.9
		0	G	0.0	0.0		0.0	0.0	0.0	0.0
2000000			0	0	c		0.0	0.0	0.0	0
2002	9 6		0 0	c			0	0.0	0.0	0
COLLOR	9 6	9 0	ų c							
124	0 1	2 4	5 6	2 0	0.0			9 6	9 6	
COFFEE	0.0	9 6	50	je	24		10		9 0	
RUBBER	0.0	0.0	,	į				,		•
Carre of Carre	c	c	2 45	C		9.0	0.1	0.0	0.0	15358
CINER CHOICE			6.0	100		d	0	0.0	0.0	9505.4
PATRICT DOODS NOT		9 0 0 7	9 3.9	10020		9	c	0	0.0	735
FORGINI & LONGING				0		0	c	0	0	3575
FIRMING		5 40	1			2,000	0.000		0	1567
COME & LIGHT'S		9 0		,					0	•
CHAIDE PETROLEUM & N. SAS	9.6	0 1	9 -	000		9 6		9 0		ó
INDN ORE	5	9.0	7.07			9 6	9 9	0.0	9 6	
OTHER METALLIC MINERALS	0	0.00		3	0.0	5	5 4	9 6	9	
NON MET. 6 MINOR HINERALS	0.0		S1863	2		9	5	5	0	
SUSAR	0.0	c	0.0	Š		0.0	3 6	0.0	0.0	2374.
The state of the s	6	c c	¢	G			0	0.0		0.0
MINISTER BOOK	9						3.00			700
HIDROGENGTED OIL	9	5 0					0.404			6223
OTHER FOOD & BEVERAGE	200	ن د	7	3			2 4	9 6		
COLLON TEXTILES	35.4	e ci	2.56	5			0.00	9		900
WOOLLEN TEXTILES	5.9	0.0	8 O	o ci			30.9	0.0		ò
ART SILK & SYNTHETIC FIRE	0.0	2.I	50.5	c			0.0	0.0		0
PART APPEND WEST TEXTILES	37.9	26.7	139.2	1354.7			0.0	0.0		46.
CONTRACTOR TRACTOR	102.8		-	20.00			593	31.4		992
STOCK BOOK OF THE PERSONS	1.70	166.7	2 202 2	A 25.595			17.2	13.1		2609.9
PAPER & PAPER PRODUCTS	953.1	2 505	1939	1.62.1	363.4	279.3	4416.1	2450.1	7176.0	25548.1
one of the same of	5	0 3 ,	134 0	0	c	c	66.7	c	c	0
DEMINER & DEMINER PRODUCTS	1000						0 35476	9,90	2	,
HUBBER PRODUCTS		9	9 4		3 6	,				
PLASTIC PRODUCTS	-	T .	0 0	3 6	0.00		0 10 00 00 00 00 00 00 00 00 00 00 00 00		7.000	2.000
PETROLEUM PRODUCTS	37.7G	2	0.00	7.7971	1.1525	7.600	3.5523.	7.00	1314.0	7303
COMI TAR PRODUCTS	0		9	0.00	0	0	3	9	9	5
FERTILIZERS	0.0	0	20.0	1935	2	3	3	9	3	9
PESTICIDES	0	0.0	0.0	9.00	0.00	7.8	ي و	0.0	0.0	93
SYNTHETIC FIBRE & RESIN	147.9	23.3	105.9	0.0	0.0	0.0	0.0	0.0	0.0	ó
OTHER CHEMICALS	1397.1	1727.9	6041	6586.0	439.1	22.7	341.2	9.1	0	45755
CENTRAL	0.0	0	0.0	55203.4	0.0	0	0.0	0.0	ď	•

ANNEXURE 1.4
INTERMEDIATE USE AND FINAL DEMANO FOR 60 SECTORS : 1996-97

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SN COMMODITY SECTION	51	en en	ß	20	55	30	52	95.	59	9
AT OTHER REF. MINERAL PROPS.	693.0	34.2	2667.1	59612.5	626.9	517.1	103.9	6.0		
	4:616.6	8512 3	23343.1	121321.1	1429.2	2041.9	75.3	0.0	1061.8	7.0
	1720.2	1 500	13715.9	0.0	3.85	0.0	0.0	0.0		
44 TEACTORS & CTH. ACRE. MACH.	0.0	36.0	14	0	0	0.0	0.0	0.0		
	575.1	0 953	.4	0.5	9.1.5	308.6	0.0	0		
	277.50.7	F	6.17.3	0.115	3 59863	a 953	986.3	57.3		
	1.205.7	0.808	0.6550	6.7.458	5.8568.5	2260.2	2526.7	14.3		
	0.0	4	A (251)	0 0	9. H.	2632	640.6	8631.5		
	0	0	367.2	0.0	. 5	63	65.6	et ei		-
SO RAIL EQUIPMENT	0.0	6.0	13064 4	0.0	0.0	61677.1	0.0	0.0		
ST HOTOR VEHICLES	15900.8	4.52.2	5		6.5	46.4	69722.1	51.5		
	124.5	16105.9	2 2817		9	1.6	19743 2	0.2		
	4650.8	1.44.5	3213.7		2329.7	2285.0	4347 0	38.0		
SA CONSTRUCTION	1021.6	163.6	1.62		9 9655	5463.5	3075.3	15.7		
-	2646.5	3056.8	5.9858		6 67963	5802.8	556B. 6	1101.7		
S6 RAIL TRANSPORT SERVICE	1055 0	474.7	27.19.6		1700.4	1587.5	4515.6	8.068		
_	2554.1	0.00	3650.3		421.5	1507.2	45963.B	1695.4		
	690.4	284.4	2567.5	2,5775	0.086	259.0	5231.0	0.0		18869.2
2.787.6	3884.3	2 52.50	明 のでませ	_	232.	0.375.0	12496.8	60B. 4		
	2661.9	6.27.4	4.5335	-	3277	1241.6	12706.7	1661.2	124006.4	_
										1
et rotal.	115056.5	11201.1	17055.4	531713.4	531713.4 15.573.2	118654.1	315802.6	17820.9	352742.8	410852.4
62 NET INCIDENT TAX	36280.2	6333.5	13412.7		693	4458.6		745.6		29015.0
63 GRCSS VAULE ADTED 64 GROSS OUTFUT	203031.8	102415.5	135652.1	913744 P	185264.3	218659.8	695993.6	100176.0		1215939.5 1965541.1

ANNEXURE 1.4 INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1996-97

	I.USE	PVT, CONS.	PUB. COMS.		G.F. IN CH. IN SIN	EVE CONTRACT			
					1308 3	7755 0	449 2	383339 5	445386.3
TOWA I	0.000	372100	0.00					120040	35.55.6
NEEAT	48085.7	•	0.00	9	1184	210.0	0.017	1 1300	0.001/37
OPPURE CEREALS	8723.0	117362.8	0.0	0	456.5	33.0	3.0	117849.3	126572.3
134 959	34083 4	ľ	781 3	0	384.1	0	6023.8	105682.1	139765.4
of the factories	0 65463			0	c	c	0.0	35566.2	101008.3
P. COMPANIE	2000	*****					0 000	4	00.00
S JULE	9090.2	0	5	9 6	7 707		100	100	2000
COLLON	52304.9	0	٥	0.0		20.00	7566.0	1083.0	239867.8
Ē	18338 8	0.0	0	0.0	٥	0.0	0	0.0	19338.8
TO BELLEVILLE	7630		-	0	0 0	2764 0	0.0	2764.0	10396.0
o minum	2000			0	16.4	0.0	90.1	-73.8	8102.9
	0 0 1 0	9	,	•	•				
-				6	12677 6	3 00454	3273 0	ANKAAR 9	1 270517
	N 0700C7	9.77.700							
ANTHAL HUSBANDRY	157590.1	406122 7	220 6	11256 0	2/14 0	4445.3	990/	170115	2.705070
13 PORESTRY & LOGGING	54720 2	42105 5	225 2	0	-18.7	0	9333.7	32978.4	87699.4
	7675 0	43077 6	4	0	00	18010.6	85.8	61009.6	68684.7
	64829 9	13107.3	133 8		644 1	199.0	1728 5	12349.8	77180.4
	146100 A				373 6	0	43883 9	-43508.3	101691.7
•	3000			c	0	5415.1	0	5415.1	7175.7
	200	0 0	,			4536 0	1 7 2 B B	4165 4	12501.9
IS OTHER METALLIC MINERALS	2 00000	0 0	9 6		200	1651	153986 4	2 030121-	22299
	1 12330	9 1							
20 SUSAR	15594 2	82717.3	0	9	2	20.0	2000	7.00000	20000
Annual Property	0 00000	0 7863	c	c	0 0	c	c	8354.2	22341.5
	0.00	26.46.1 7		0	234 7	0	227.B	35458.6	37672.5
				0	2821 7	1 6967	12245 6	F 17077F	447737 0
	10000					00000	1 920	200000	
	167612 0	233556 4	120 5	9 4	4.630.6	2000	200	4.0000	20101
	10221 9	19906 3	0	9	67	0 196	1001	16360	C./9167
ART SILK & STATHETIC PIBRE	70107.5	169428.7	0	0.0	1737 8	11972 0	4888.3	176250.3	248357.6
27 JUTE HEMP MESTA TEXTILES	41869.2	0.0	18	0.0	1210 4	3170 0	195 1	4203.7	46073.2
	8092.9	51589.8	1232.7	638.6	4612 1	129310 0	3693.4	183689.8	191782.7
29 WOOD & WOOD PRODUCTS	65377.6	4280.1	560.6	394.8	2209 3	287 0	856.3	6875.4	72255.8
	101519.1	14760.5	19380.7	0.0	3740 3	506 0	18717 7	19669.B	121189.2
	46456.6	29694 3	2.6	0	27109.7	67788.0	1292.4	123301.3	169756.0
MERGER PRODUCTS	59136 2	16994.4	940 8	26582.3	2000 2	13809.0	1429.3	61897.6	121033.7
PLASTIC PRODUCTS	34702 0	10088 7	2.1		1180 1	2977.0	1068.2	13179.7	47881.7
	305054 4	69942.5	2 60012		1367 3	10940.0	99057.9	4201.0	309256.4
	20396 9	c	-		809 2	28.0	1484.0	-646.7	19751.0
A ENGINEERS	131243 6		6.61		o	47.0	27199.6	-26537.B	104705.9
	10405				331.1	2678.0	2076.2	944.8	19350.4
	105826 2	0	0		2268.0	2633.0	35527.3	-30626.3	75200.0
OTHER CHEMICALS	265448	R 37778	2893.2	0.0	13631.5	61033.0	41450.2	119883.8	385333.2
	6 05459	0.0	0.0	0.0	492.9	543.0	496.9	537.0	62971.9

ANNEXURE 1.4
INTERMEDIATE USE AND FINAL DEMAND FOR 60 SECTORS: 1996-97

	I.USE	DVT. CONS.	PUB. CONS.	G.F.INV	G.F.INV CH.IN STR. EXPORTS	EXPORTS	IMPORTS	T.F. USE	G. OUTPUT
A OTH NOW MET HINERAL PRODS.	86933.2	27960.2	2.5	615.9	383.4	3931.0	2556.8	30236.1	117174.0
INCH E STREET	488791.1		0.0	22974.6	8659.2	4431.0	37061.3	-986.5	467808.0
NON PERSONS METALS	89326.2	0.0	0.0	0.0	316.8	2119.0	16580.8	-14144.9	75181.4
TRACTORS & OTH. AGRI. MACH.	35058 2		259.9	21015.6	2972.5	404.0	101.4	24550.5	59618.4
MACHINE TOOLS	5915 8		0.0	25482.7	690.2	5149.0	6554.9	24767.0	30682.8
16 OTH. NOW RIECTRICAL NACH.	167502 7	6104 5	10260.7	222109.5	9490.0	23113.0	196721.8	74356.0	241859.0
ELECTRICAL MACHINERY	186776 6	_	990.7	105857.1	7238.1	11051.0	39415.0	105389.3	292172.2
COMMUNICATIONS EQUIPMENT	73527 1	_	994.2	26169.0	0.0	302.0	8594.3	33640.4	107167.5
ELECTRONIC EQUIPMENT	52164 8	34200 3	76.4	14887.4	4484.6	33275.0	60140.5	26783.1	78947.6
PAIL EQUIPMENT	108950.4		0.0	32418.2	89.2	544.0	3930.2	29121.2	138071.5
51 MOTOR VEHICLES	90399 7	29450.2	16817.7	50934.6	9211 6	8106 0	8260.6	106259.5	196659.2
_	45001 4	30283.3	88.3	33258.2	3184.3	7149.0	35764.3	38198.6	83200.0
OTHER MANUFACTURING	113280 1	43661.6	37225.4	17722.4	12203.5	138982.0	29958.6	219836.3	333116.6
	109484 5	0	51121 4	753107.8	0.0	0	0	804229.2	913774.1
	312553 2	46811.8	34956 3	0.0	0	99.0	500.0	81357.1	393911.0
	60080 5	59326 5	6240.4	1963 8	0.0	20368.0	0.0	89898.7	149979.2
57 OTHER TRANSPORT SERVICE	409943 7	337470 6	20615 5	7120.2	0	37019.0	116176.8	28604B. 6	695992.6
	53813 3	39752 0	10182.0	0	0 0	1130 0	4701.3	46362.7	100176.0
TRADE	623603 6	373287 2	21693 9	49860 2	0.0	172994.0	0.0	617835.2	1241438.8
OTHER SERVICES	523261 4	953493.1	687493 0	0	0.0	80088.0	74032.2	74032.2 1647042.0	2170303.5
61 TOTAL	6436706 5 4935960 5	4935960.5	100	424366 9	167328 2	1022873.6	1126411.2	50957 7 1424366 9 167328 2 1022873.6 1126411.2 7375075.013	3811824.0
	550187.4	104039.0		129834.9	0.0	786.3	0.0	0.0 272376.0	822563.4

ANNEXURE: 1.5
INTERMEDIATE USE AND FINAL DEMAND FOR 11 SECTORS: 1991-92

H COMMODITY SECTOR	-	~		•	an	•	7	•	•	97
1 AGRICULTURE	352424.9	10.8	0	0.0		3944.6	138.4	0.0	660.2	0.0
2 FORESTRY 6 LOGGING	7.8	151.8	0.0	0.0		13431.2	0	15.5	0	0
3 FISSING	0	0.0	0.0	0.0		0.0	0.0	0.0	0	0.0
4 MONTING & CONTRUTING	670 1	0.0	0	642.1		43273.2	21365.6	1695.1	204.0	0
5 MANUPACTURING	171378 3	2173.7	428B B	17181.1	-	235337.5	20659.4	70493.2	121095.3	4592
6 RESCHALCETT MIC.	30496.3	288.8	0.0	2047.2		49.5	3179.5	6391.6	2046. 5	1 278 2
7 CONSTRUCTION	18338 4	52.4	0.0	5118.8		10673.9	64962.7	4249.9	3478.0	846.2
S RAILSBY TRANSPORT	9006	348.8	7.	1391 1		9496.5	8997 5	1110.2	3278.1	637.2
9 OTHER TRANSPORT	13526.9	3394 6	148.5	613.4		13778.4	2783.4	1332.1	34096.2	1155.4
0 COMMICATIONS	508 9	218.8	0.0	101 8	10259.5	1370.0	679.0	210.0	3461.1	0.0
11 OTSER SERVICES	105074 2	2065 9	591.9	7720.2	7720.2 420488.0	76924.3	H	8030.6	40383.7	1624.0
2 TOTAL	701432 2	701432 2 8705.5 5073 7	5073 7	~	35015.6 2299530.2	¥	135968.1	93528.2	209223.1	10633.6
3 INDIRECT TAX	-32620.1	501.5	496.3	2813.1					25391.3	327.3
	1310620.0	83520.0	43400.0	106130.0	1117410.0	266590.0	124920.0	79870.0	228550.0	60720.0
5 GROSS OUTIVE	1979432 0	92726	48970.0	143958 9		•		_	463164.4	71681.0

ANNEXURE : 1 5 INTERMEDIATE USE AND FINAL DEMAND FOR 11 SECTORS : 1991-92

SH COMMODITY SECTOR	n	н					ð	G P INV CR IN STR	EXPORTS	IMPORTS	T.F.08E	T.F.USE G.COTPUT
1 AGRICULTURE	32270 8	1 6	6	3160 9 1284116 5	1649	ĺ		6620 0	44006 0	14567.0	5620 0 44006 0 14567,0 1331414.9 1974597.8	1974597.8
2 FORESTRY & LOGGING	385 8	42569	•	55775 6	160 0	0		436 0	0	6214 C	50157.6	\$2727.0
3 FIBBING	2780 0	6140	'n	30657 47				0	12209 0		42829.5	48970.0
MINING & CUMPRIING	2596 5	258545	8	12656 6	6	7 0 0	_	-2362 0	7670 0		1114361.8	144184.0
5 MANUFACTURING	118026 2	1956580	6	065819 8	77789		_	134246 0	306921 0		1638734.6	3595315.5
S ELECTRICITY ETC	32417 1	89862	~	9	36109		_	0 0	0		616147.7	704009.9
CONSTRUCTION	20287 4		m	21487 5	24787			0 0	0 06		46364.6	272912 8
B RAILWAY TRANSPORT	6441 6	68489	۰	40118 1	5811		. 0.	0	6799 0		54400 1	122889 7
9 OTHER TRANSPORT	100268 4			235587 6	14600		4	0 0	31489 0	62615.0	1 225153.5	463164.9
0 COMMUNICATIONS	16232 9	35765	0	30520 0	7197 0		0	0	1134 0	2535 (2535 0 36316.0 71681.0	71681.0
11 OTHER SERVICES	172579 0 848784 3 978604 4 501789 S 42544 2 0 0 146848 0	848784	6	978604 4	501789	72579 0 848784 3 978604 4 501789 5 42544 2	2	0	146848 0	38880	0 0 146848 0 39880 0 1629906 1 2478690.4	2478690.4
12 TOTAL	506686 9	4414078	3	755343 5	669931	2 1164104		38940 0	557166 0	726480,0	506688 9 4414078 5 3755343 5 669991 2 1164104 0 138940 0 557166 0 728480.0 5557064 7 9971143 0	9971143 0
13 INDIRECT TAX	30912 8	359904	vo	136766 3	26638	28638 6 100436 0		0	454 0	0	0 0 266494 0 626399 5	626399 5
14 GROSS VALUE ADDED 15 GROSS OUTPUT	2313031 5	5197160 0	٥٥									

ANNEXURE 16

ANNEXURE 16

AND FINAL DEMAND FOR 11 SECTIORS - 1808.07

		-		I	NDUSTRIE	TANK TENEDUCE				
IN COMMODITY SECTOR	1 2 3	2	3	ľ	2	9 2 9	1	6 8 1	6	21
1 ACRECOLOGIS	412652 B	10.2	0 0	0	264934 6	5454 9	199 8	00	992 0	9
2 PODESTRY 6 LOGGING		143.5	0	0	43142 7	10670	0	10.	0	00
THE TANK	0 0	0	0	00	4099 7	0	0	0	0	
A MINING & OUARRYING	615 6	0	0	760 4	300976 \$	56848.2	80808	1484 3	236.2	
S MANUFACTURE ING	231053 4	2319 8	9349 0	42213 6	1969672 2	376379 3	1 0000	1 69986	225028 5	33847
6 ELECTRICITY BIC	39026 5	273 1	0	1792 0	17523 8	3627.4	A588 6	5463 5	3075	12
7 CONSTRUCTION	24575 0	46.2	0	4599 3	132937 9	0.173	85972. 5	5802 8	3848 6	1101
R BATTHAT TRANSPORT	11278 0	329 9	62 3	1920 5	27903 2	1508.5	3,704.4	1587 5	4513.6	.080
9 OTHER TRANSPORT	17615 0	3349 6	218 7	1463 3	167894 3	7636	é CER	1507 2	46963 8	1694
10 COMMUNICATIONS	615 6	207 0	•	139	16328 5	2777.0	940.0	259 0	3230 O	ŏ
11 OTHER SERVICES	215450 9	1995 1	830 2	1 2598	8652 1 514412 4	54720,4	6438.5	4017 6	25143.8	£ 492X
12 TOTAL	952694 4	8674.5	10460 3	61541 4	61541 4 3459826 5	8	7	=	"	17820 \$
13 INDIRECT TAX	_	517 8		3250 7	445553 9	46544 0		4458 6	49014 2	749
14 GROSS VALUE ADDED	1537730 9	78507 1 87699 4	56626 6	155631 2 220423 3	1593080 5 5498462 0	335456 7	182127 3 36\$\$\$6.3	218059 8	331174 9	190176

ANNEXURE : 1.6
INTERMEDIATE USE AND FINAL DEMAND FOR 11 SECTORS : 1996-97

SH COMMONTY SECTOR	11	1.032	_	PVT CONS PUB CONS	G.F. INV	G.F. INV CH. IN STR	-		IMPORTS T.F.USE 6.COTFUT	e.compo
1 ACRICULTURE	43415.8	3415.8 728050.2	1623655.2	523655.2 2343.7 11254.0 2383B.4	11254.0	23835.4	65350.5	Ι"	19541.4 1707006.8 2435068.8	2435048
2 PORESTRY & LOGGING	735.1	54720.2	42105.5	225.2	0.0	-16.7	9		4.0032.7 32978.4 B7699.4	87699
3 FIBEING	3575.3	7675.0	43077.6	4.2	0.0	0	10010.6		61009.6	2000
4 MINING & COMPRESING	1567.6 393480 7 13102.3 133.8	393480 7	393480 7 13102.3	133.8	0	3640.9	11341.5		-172439.1	220649.6
S MANUFACTURING	133200.8	3160029 B	1403878 8	113948 1	601060.8	139750.6	615974.1	700666.5	2173946.0	
6 ELECTRICITY ETC	34096 5	109484 5	0.0	51121.4	753107 8	0.0	0.0		804229.2	
7 CONSTRUCTION	43278.0	312553 2	46811 8	34956 3	0	0.0	9		61357	
8 RALLMAY TRANSPORT	8383 8	60090	59326 5	8240.4	1963 8	0	20368.0	0	89898.7	
9 OTHER TRANSPORT	158358 4	409943 6	337470 6	20615 5	7120 2	0.0	37019.0	=		
10 COMMUNICATIONS	28279.4	53813 3	39752 0	10182.0	0.0	0.0	1130.0	4701.3	46362.7	
11 OTHER SERVICES	308704.4	1146865.0	1326780 2	308704.4 1146865.0 1326780 2 709186 9 49860.2	4.9860.2	9.	253082.0	74032.2	G.0 253002.0 74032.2 2284877.2 3411742.2	3411742.
11 TOTAL 16785 1 6436706 0 4935961 0 550557 7 1424366 9 167368 9 167368 1 125451 115441 2 735076.0 13811822.0	763595.1	6436706 0	4935961 0	950957 7	1424366 \$	167328.2	1022873.7	1126411.2	763595.1 6436706 0 4935961 0 950957 7 1424366 9 167348.2 1022473.7 1124411.2 7375076.0 13611829.0	1361182
13 INDIRECT TAX	39635.1	550187 4	104039 0	39635.1 550187 4 104039 0 37715 8 129834 9	129834 9	0.0	1	0.0	0.0 272376.0 882563.8	882563
14 GROSS VALUE ADDED 15 GROSS OUTPUT	2378250 2 6824988 3181480 5 13811882	2378250 2 6824988 0 3181480 5 13811882 0								

ANNEXURE 17 IMPORT COEFFICIENTS 1991-92

INDUSTRIES

COMMENTS BY INDUSTRY TABLE

	*****	The second								
1 PADOY	0 000000	0000000	000000 0	0 000000	0 000000	0 000000	0000000	0 000000	0000000	000000
WHEAT	0 000000	0 000000	0 000000	0 000000	0 00000	0 000000	0 000000	000000	0 00000	000000
OWNERS CREEKE	000000	0000000	000000	000000	000000	000000	000000	000000	00000	0
The same of the sa		00000		00000			0000			
Lorenza	00000							0000		
SUMMERCEN	00000	00000	20000			0000		0000		
JULE	000000	000000	200000	00000	000000	00000	00000	2	00000	000000
COLTON	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000
TEA	0000000	0000000	000000 0	0000000	0 000000	0 000000	000000	000000	000000	000000
COFFEE	000000	0000000	0000000	0000000	0000000	000000	0000000	000000	000000	00000
10 RUBBER	0000000	000000 0	0000000	0 000000	0 000000	0 000000	0 000000	0 000000	000000	0 00000
	0000000	0000000	0 000000	0000000	0	0000000	000000	000000	0	000000
12 ANIMAL HUSBANDRY	0000000	0000000	0000000	0000000	0000000	0 000000	000000	000000	0 000000	0000000
FORESTRY & LOGGING	0000000	0 000000	0000000	0 000000	0	0 000000	0000000	000000	0	000000
14 FISHING	000000	0 000000	0 000000	000000	0 000000	0 000000	000000	000000	0000000	000000
	0000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	0000000
16 CREDE PETROLEUM & N GAS	0 000000	0000000	0000000	000000 0	0 000000	0 000000	0 000000	0000000	0000000	00000
THOM ORK	000000	000000	000000	0 000000	000000	0000000	000000	0 00000	000000	000000
	0000000	0 000000	000000	0000000	0 000000	0 000000	0000000	0 000000	0 000000	0 00000
NOW NOT A MINISTER	000000	000000	000000	0 000000	000000	000000	0000000	000000	0 000000	0 00000
20 SUGAR	0 000000	000000 0	0000000 0	0000000	0 000000	0000000	0000000 0	0000000	000000	0 00000
				*	0000000		000000	000000	•	
21 KHANDSARU BOORA	000000	000000	0000000	000000	000000	000000	00000	00000	00000	00000
	0000000	0 000000	0 000000	0000000	0000000	0 000000	000000	0000000	0	00000
	000000	0 000000	0 000000	000000	0000000	0 000000	000000	0000000	000000	000000
	0 000000	0 000000	0 000000	0000000	0 000000	0 000000	000000	0 000000	0000000	00000
	0 000000	0000000	0 000000	0000000	0 000000	0 000000	0000000	000000	0 000000	000000
	0 000000	0000000	0000000	0 000000	0000000	0 000000	000000	0 000000	000000	000000 0
	0 000000	000000 0	000000 0	0 000000	0000000	0 000000	0 000000	0 000000	000000	000000
28 OTHER TEXTILES	0 000000	0000000 0	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	000000	000000
	0 000000	0000000	0 000000	0000000	0 000000	000000	000000	000000	000000	0 000000
PAPER C PAPER PRODUCTS	0000000	0000000 0	0000000	0 000000	0000000	0 000000	000000 0	0 000000	0 000000	0 00000
31 LEATHER & LEATHER PRODUCTS	000000	000000	000000	000000	0000000	000000	0 000088	0 00000	000000	0 00000
	0 00000	0000000	000000	000000	000000	000000	0000000	000000	000000	0 00000
	000000	0000000	000000	000000	0000000	000000	000000	0 00000	000000	0 00000
	0 000000	000000	000000	000000	000000	000000	000000	000000	000000	0 00000
	0 000000	0000000	0000000	0 000000	000000	0 000000	000000	0 000000	000000	000000
	0 013963	0 017821	0 010047	0 004220	0 013673	0 004917	0 023687	0 005512	۰	0 020917
	0 000621	0 000393	0 000068	0 001160	0 000098	0 000211	•	0 000746	۰	0
	000000 0	0000000 0	0 000000	0 000000	0	0000000	0	000000	۰	ó
O CONTROL CHINAL COLUMN	0 000000	0000000 0	0000000	0000000	0000000	0000000	0.000000	000000	80 80 P	30
									۰	

ANNEXURE: 1.7 IMPORT COEFFICIENTS: 1991-92

CHARLES CHAR	1											
00000000000000000000000000000000000000	00000000000000000000000000000000000000	# COMMODITY SECTOR		~	•	•	•	•	7	*	•	*
0000000 0 0000000 0 0000000 0 0000000 0	New STREAM NO NO NO NO NO NO NO N	OTH. HOM MET. MINERAL PRODS.			0.000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000
THEATERS METALS (0.00000 0.000000	THE TREADS AT TH	THOM T BIEFT	0.00000	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000	000000	000000	000000
MACHINE 1002 LAMILY MACH. MACHINE 1002 LAMILY MACH. 000000 0000000 0000000 0000000 0000000	MACHINE 100. MAIL MACH. MACHINE 100. MAIL MACH. MACHINE 100. MACH.	3 NON PERROUS METALS	0.00000	000000 0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	000000	000000
100000 000000 000000 000000 000000 000000	CTR. NOT 1000000 0.000000 0.000000 0.000000 0.000000		0.000018	0.000018	0.000035	0 00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.000000
NAME REPAIR MATTHER	MARK REATTLANT MACHINES CHARTCALL MACHINES C		000000	0.00000	0.00000	0 000000	0000000	0.00000	0.00000	000000	000000	0.00000
CORRECTION ANALYSTICAL MEASUREMENT O CORROLO O	CONTROL MACHINETA CONSTRUCTOR MACHINETA CONSTRUCTOR MACHINETA CONSTRUCTOR CONST		0.00000	0.00000	0.00000	0 000000	0 000000	0.00000	0.00000	0.00000	0.00000	0.00000
ELECTRICATE DELTINARY 0.000000 0.0000000 W.000000 W.00000 W.0000 W.00000 W.00000 W.00000 W.00000 W.0000 W.0000 W.0000 W.00000 W.00000 W.0000 W.0000 W	ELECTRICATE RUTINEAT 0,00000 0,000000 0,000000 0,000000 0,000000	7 KIRCTRICAL MACHINERY	0.00000	0,00000	0.00000	0 000000	0 000000	0,00000	0.00000	0.00000	000000	000000
NALL	NALL NGTHERST (00000) NALL NGTHERST (00000) OTHER TRANSPORT (00000) OTHER TRANSPORT EXPERT OTHER TRANSPORT OTHER OTHER TRANSPORT OTHER TRAN	8 COMMUNICATIONS EQUIPMENT	0.00000	0.00000	0.00000	0 000000	0 000000	0.000000	0.00000	0.00000	0.00000	0.00000
0.00000 0.000000 0.0	MONO VENEZA D. CORRODO CONTROL MONO VENEZA DE CONTROL D	* SLECTRORIC EQUIPMENT	0.00000	0.00000	0000000	000000	0000000	0.00000	0 000000	000000	000000	0000000
THERE REPORT PRICE PROPERTY OF CORRORD OF CO	OTEST PRANSPER PEUTPEST 0.000000 0.000000 U.000000 U.0000	O PAIL EQUIPMENT	0.000000	0.00000.0	0.00000	0000000 0	0000000	0.000000	0.000000	0.000000	0.00000	0.00000
OTHER NAMEWORK SECTIONS OF CORROSS OF CORROS	CHERT PRESENCE SECURIORS TO CORROSCO O CORROSCO	1. MOTOR, VEHICLES	0.00000	000000	000000	000000	000000	000000	000000	000000	000000	0 00000
CHESTRUCTURE CH	THE MAINTANTHING 0.000000		0.00000	0.00000	0.00000	0000000	0.00000	000000	000000	00000		
CONSTITUTION 0 000000 0 000000 0 000000 0 000000 0 0	MARKETINE 000000 000000 0 000000 0 000000 0 00000		0.00000	0.000000	0.00000	000000	000000	0 000000	000000	000000	000000	000000
NALL TANNENCE SENTICE 0.000000 0.000000 OTHER TANNENCE SENTICE 0.000000 0.000000 TANNENCE SENTICE 0.000000 0.000000 TANNE SENTICE 0.000000 0.000000 OTHER SENTICES 0.000000 OTHER SENTI	NALL TABLECTE TO 000000 0 000000 O 000000 O THE TABLECTE 0.000000 0.000000 OTHER TABLECTE 0.000000 0.000000 OTHER TABLECTE 0.000000 0.000000 O 000000 O 000000 O 000000 O 000000		0000000	0000000	0.00000	0000000	000000	0.00000	0.00000	000000		000000
MALI, TANASHCHE SERVICE 0.000000 0.000000 0.000000 0.000000 0.000000	ALL TRANSPORT SERVICE 0.000000 0.000000 CORRESPONDE SERVICE 0.000000 0.000000 CORRESPONDE		0 000000	000000	0000000	000000	000000	0.00000	000000	00000	00000	00000
COMMENT TANNESS ERVICE 0.000000 0.000000 CHARMIGATION THUR SERVICES 0.000000 0.000000 OTHER SERVICES 0.000000 0.000000	CHERT TREATER ENVICE 0.000000 0.000000 0.000000 0.000000 0.000000		0.00000	0.000000	0000000	000000	0000000	0.000000	0.00000	000000	000000	000000
CCHRENICATICN 0.000000 0.000000 THADE 0.000000 0.000000 OTHER SERVICES 0.000000 0.000000	THUR SERVICES 0.00000 0.00000 OTHER SERVICES 0.000000 0 000000 OTHER SERVICES 0.000000 0 000000		0.00000	0.000000	000000	0.00000	0.00000	0.000000	0,00000	0.00000	0.00000	0.00000
0.00000 0 000000 0	0.00000 0 000000		0.00000	0.000000	0000000	000000 0	0.00000	000000 0	0.00000	0 000000	0 000000	000000
0.00000 0 000000	0.00000 0 0000000	9 THADE	0.00000	000000	000000	0 000000	0000000	0.00000	0.00000	0.00000	0.00000	0.000000
		O OTHER SERVICES	0.00000	0 000000	000000 0	0 000000	0 000000	0.00000	0 000000	0.00000	0.000000	0.000000

ANNEXURE: 1.7 IMPORT COEFFICIENTS: 1991-92

COMMENDETT BY INCUSTRY TABLE.

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	000000		00000		00000	00000	000000	00000	400000	
PADDY	0.00000	0.000000	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Z WHEAT	0.00000	0.00000	00000	0.00000	000000	0.00000	0000	2000	9	3
3 OTHER CEREALS	0.00000.0	0 000000	0.000000	0.00000	0.000000	0.00000.0	0.000000	0.000000	0.00000	0.00000
4 PULSES	0,00000	0.00000	0.00000	0.00000.0	0.000000	0.000000	0.00000	0.00000	0.00000	0.00000.0
S SUBARCANE	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	000000	0.00000
344	000000	000000	0.00000	000000	0.00000	0.00000	0.00000	0.00000	000000	000000
Composi		00000	000000	000000	000000	00000	000000	000000	00000	00000
	0000	0000	00000				000000	00000		
TEA	0.00000	0.00000	000000	0.00000	000000	0.00000	00000	0000	000000	
	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
10 RUBBER	0000000	0000000	0.000000	0.00000	0.000000	0.000000	0.000000	0.00000	0.00000	0.00000
and deposits	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000
	00000	00000	0000	0000	00000	0000	00000	00000		
2 ANIMAL BUSEANDIG	0,00000	0.00000	00000	00000	00000	0000	000000	0000		
	0.00000	0.00000	20000	000000	0.00000	00000	000000	00000	20000	2000
	0.00000	0.00000	000000	0.00000	00000	000000			00000	00000
	0.00000	0.00000	000000	000000	0.00000	0.00000	0000	00000	0000	0.00000
	0,000000	0 000000	0.000000	000000	0.000000	0.00000	0.00000	0.00000	0.000000	0.00000
	000000	0.00000	0.00000	0.00000	000000	0.00000	00000	00000	0.00000	0.0000
IS OTHER METALLIC MINERALS	0.000000	0.00000.0	0.00000	0.000000	000000	0.00000	0.000000	0.00000	000000	0.00000
	0.000000	0.000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000
20 SUGAR	0.000000	0.00000.0	0.000000	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Supply Towns	000000	000000	00000	000000	000000	000000	000000	000000	000000	0.00000
	000000	00000	000000	00000	000000	000000	000000	000000	000000	O DEPOOR
	000000	00000	00000	00000	00000	00000	000000	000000	000000	000000
24 CONTRACTOR TENTANCE	00000		00000	000000	000000	00000	000000	000000	000000	000000
	00000	00000		00000	00000	00000	000000	000000	000000	000000
	000000	000000	000000	000000	000000	000000	0.00000	0.00000	0.00000	0.00000
	0.00000	0 000000	0.00000	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000
	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.000000	0.00000	0,00000
	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.000000	0.00000	0.00000	0.000000
30 PAPER & PAPER PRODUCTS	0.000000	0.000000	0.000000	0.00000	0.000000	0.000800	0.000000	0.000000	0.000000	0,000000
PLANCOGA GARLEST 7 GARLEST 18	000000	000000	000000	000000	000000	000000	000000	000000	000000	000000
	00000							000000		
33 PLASTIC PRODUCTS	000000	0.00000	000000	000000	000000	000000	0.00000	0.000000	000000	0.00000
	000000	0.00000	0.00000	000000	000000	000000	0.00000	0 000000	000000	0.00000
-	0.00000	0000000	0.00000	0.00000	0.00000	000000	0.00000	0.00000	0.00000	0.00000
	0.009270	0.00000	0.00000	0 000000	0.00000	0.000000	0 000000	0.00000	0.00000	0.000000
	0.000004	0.000000	0.00000	0.00000	0.000000	0.00000	0.000000	0.000000	0 00000	0.000000
	0.00000	0.00000.0	0.00000	0.000000	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000
	0.000000	0.00000	0.00000	0.000000	0.000000	6.00000.0	0.00000	0.002887	0.00000	0.000000
CENTRAL	0.00000	0.000000	0.00000	0.00000	0.000000	0.000000	0.000000	0.000000	9.00000	0.00000

ANNEXURE . 1 7 IMPORT COEFFICIENTS 1991-92

COMMODITY BY INDUSTRY TABLE			IMPORT COEFFICIENTS	Š	FHCE		1991-92	32						
					F	N I M I M I M I M	4	8 2 1						
SA COMMODITY SECTOR	11	12	7	_	Ξ		15	2	1,1		2	2		8
41 OTH MON MET MINERAL PRODS	0 000000	000000	00000	00	000000	000	86	000000	0 000000	00	00000	000000	1	98
43 NON PERSONS METALS	0 000000	000000	00000	0	000000	8	88	000000	000000	•	000000	0 00000	_	8
44 TRACTORS & OTS AGEL MACH	0 000018	000000	00000	00	000000	000	8	000000	000000	00	000000	0000000		0000
66 OTH NOW RESCURICAL HACE 47 MERCHANGEL HACEHONDERY	0000000	000000	00000	00	000000	000	88	000000	000000	00	000000	000000		0000
48 COREMICATIONS EQUIPMENT	0 000000	000000	0000000	00	000000	000000	8	00000	0 000000		000000	0 00000	-	000000
SO RAIL SQUIPMENT	0000000	000000	00000	•	000000		88	000000	0 000000	00	000000	000000		000
51 MOTOR VEHICLES	000000	000000	000000	0	000000	000	00	000000	0000000	•	000000	0 000000	•	0000
	0000000	000000	00000	00	000000	9 6	88	000000	0000000	00	000000	000000	00	0000
	000000	000000	000000	00	000000	000	88	000000	000000	00	000000	000000	9 0	00000
56 MAIL TRANSPORT SERVICE 57 Offers Transport service	000000	000000	0 000000	00	000000	0000000	000	000000	0000000	00	000000	000000	00	0000
COMPONICATION	0 000000	0 000000	000000	0	000000	0000	9	000000	000000	•	000000	000000	•	0000
SO THER SERVICES	0000000	0000000	00000	00	000000	000	88	000000	0000000		000000	0000000 0	00	000000

Contd

ANNEXURE 17
IMPORT COEFFICIENTS 1991-92

CHARDITY BY INDUSTRY TAKE

COMMEDITY SECTOR	Ħ	22	23	34	28		2	7.2		a	2		8
	00000	00000	900000	000000	000000	900	8	90000	000	8	00000	Š	8
	00000	000000	610000	0	0	000000	0	000000	000000	0	000000	0	000
Contract Contract.	000000	000000	0000000	0	0	0	0	000000	00000	0	000000	000	8
With and	000000	000000	0 000097	0	0	0	0	000000	00000	8	000000	0	0000
MENTANCE MATE	000000	000000	000000	0000000	0	0	000	000000	000000	8	000000	ĕ	000000
100	000000	000000	000000	٥	۰	000000	000	003393	0000	8	000000	0	0000
***************************************	000000	00000	00000	٥	0	000000	0	000000	000000	8	000000	90	0000
and and				•	•	•		00000	000000		00000	8	ş
	000000		20000	•		•	38			38		3 8	į
CONTRACT	000000			•	0		3 6	00000		3 5			Š
M. Mercelle.	000000	000000	00000	•	•	2000	3		3	3		5	3
	000000	000000	100.00	•	c	c	0 00	000000	0000	0	000000	9	800
CONTRACT STREET, STREE			0000	000000	000000	000000	0	000000	000000	9	00000	000	00000
Mariana Mariana				9		0	9	000000	000000	00	121489	000	900
COMPLETE CONSTRUCT				0		000000	9	000000	000000		000000	8	000000
CONT. C. T. COLUMN	00000	000000	000000	a	0	000000	0	000000	000000	8	000000	00	00000
The same of the sa	00000	00000	00000	C	0	0	9	000000	000000	0	000000	00	900
These contracts of the contract of the contrac				0	0000000	000000	0	000000	000000	9	000000	0	000000
AND THE PERSON OF STREET	00000	000000	00000	0000000	•	٥	0	000000	000000	8	000000	00	000000
to work to writing by the party	000000	000000	DODDOG O	0	000000	٥	03	000000	000000	00	000000	8	000000
	000000	000000	0 000010	٥	0	0	9	000000	0 000000	8	000000	8	000000
21 KTANDSARU BOORA	0000000	0 000000	0 000000	0000000 0 0	000000 0 0	0 000000	8	000000	000000 0	8	000000	8	000000
	000000 0	0000000	0 000017	0	0	•	8	000000	000000	8	00000	8	ğ
OTHER FOOD 4 BEVERAGE	0000000	000000	0 001546	٥	0	0 00000		000000	000000	8	00000	8	9000
	000000 0	0 000000	000000	0	•	0000	8	000000	000000	8	000000	8	ğ
25 WOOLLER TEXTILES	0000000	000000	000000 0	•	0	000000	8	00000	0 000536	9	00000	8	ĕ
	0000000	000000	0000000	0	•	0 004715	12	000000	99000		00000	8	00000
TO STATE MENT PRESTA TEXTILES	0 000000	000000	000000	0	0	0	8:	002807	000000	81	COCOCO	0	8
SE OTHER TEXTILES	000000	000000		000000	9 0	000000	88	716000	90000	38	0000	8	000000
-	000000	000000 0	0000000	٥	0 000000	0	8	000000	0 000000	8	000136	8	00000
	*	00000	00000	•	000000	000000	•	000000	0000	9	9		Į
	000000	000000	00000			0000	•	000000	000000	38	000000	8	9000
NA PRACTIC PRODUCTS	000000	0000000	000000	0	0	0	٥	000000	0000	8	000000	8	å
	0000000	0000000	0 000000	0	0000000	۰	۰	000000	0000000	8	000000	8	8
•	0000000	0000000	0000000	0	۰	0	٥	000000	0000	8	000000	8	ğ
	000000	000000 0	000000	0	۰	0	0	000000	0000	8	900000	8	š
	0 000000	0 000000	0 000000	0	•	000000	°	900000	0000	8	000000	8	000000
STATESTIC PIBRE & RESIN	000000	0000000	000000	0	٥	٥	•	000000	0 009436	2	90000	8	ğ
Charles Caled Charles	000000	0 022303	0 001272	0003311	000000	0 002637	68	000000	0000338	98		88	
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ANNEXURE 17 IMPORT COEFFICIENTS 1991-92

COMMUNITY BY INCUSTRY TARGE

March Marc	1													
Colored Colo	0.000000 0.000000	COMMODITY SECTOR	12	22	8					27		2	=	-
THE PARTY OF CORRECTION OF COR	Maria Mari	OTH NOW MET MINERAL PRODS	0 000000	0 000000	0 000272	۰	۰	٥	ě	000000	00	000	0 00001	0.0000
#### 1451 0.000000 0.000000 0.000000 0.000000 0.000000	Mark Mark Concoro	INCH & STREE	0000000	0000000 0	0 000000	0	٥	0	0	000000	000	90	200000	•
Maria Maria 0 000000 0 0000000 0 0000000 0 000000	March Marc	S NOW PERRODUS METALS	0 000000	0000000	0 000000	0	0	0	0	000000	0	90	00000	•
Company Comp	Company Comp	I TRACTORS & OTH AGRU MACH	0 000000	0 000000	000000	۰	0	0	0	000000	00	000	000000	
The colone	The column	S NACHENE TOOLS	0 000000	0 000000	0 000000	0	0	0	•	000000	00	000	0 00000	•
	Tright 0 000000 0 000000 0 000000 0 000000 0 0	S OTH NON RELECTRICIAL NACH	0 000000	0000000	000000	0	0	0	0	000000	8	000	000000	0
THE STATEMENT OF CORONICO CONTROL O	MACHINERY 0 10000000 0 10000000 0 10000000 0 10000000 0 1000000 0 1000000 0 10000000	I RIECTRICAL PACHINERY	0 000000	0000000 0	0 00000	•	0	0	0	000000	00	000	0 00000	0
NACTION 0.000000	THEORY 0 000000 0 000000 0 000000 0 000000 0 0	S COMMUNICATIONS EQUIPMENT	0 000000	0000000	000000	0	0	0	0	000000	900	900	000000	•
0.000000 0.000000 0.000000 0.000000 0.000000	### CANODIA 0 1000000 0 1000000 0 1000000 0 1000000	PELECTRONIC ROLINEAT	0 000000	0000000	000000	٥	0	0	0	000000	900	000	300000 0	•
THE REPORT OF THE PROPERTY OF	THE SETTING OF CONTROL	PAIL EQUIPMENT	0 000000	0 000000	0 00000	0	0	0	0	000000	9	000	00000	•
THE REVISED 6 000000 0 000000 0 000000 0 000000 0 0000	TREATHERNY 0 000000 0 000000 0 000000 0 000000 0 0													
THIS CONTROL O C	### 1807/Mer# 0 1000000	MOTOR VEHICLES	000000	000000	000000	0	0	0	0	000000	8	000	000000	0
NATING 0.000000 0.000000 0.000000 0.000000 0.000000		2 OTHER TRANSPORT ROUTPHENT	0000000	0000000	000000	٥	0	0	0	000000	90	900	000000	•
CONTROL CONT	CONTROL CONT	3 OTHER MANUFACTURING	000000	0 000000	000000	0	0	0	0	000000	9	90	0 00000	•
CONTROL CONT	1 2577/12 0 000000 0 000000 0 000000 0 000000 0 0	I CONSTRUCTION	0000000	000000 0	000000	0	0	0	0	000000	8	0	000000	0
### SERVICE 0 000000 0 000000 0 000000 0 000000 0 0	SERVICE	S ELECTRICITY STC	0000000	0 000000	000000	0	0	٥	0	000000	000	900	0 00000	ē
### CANNOCO & CONOCO	### 1		0 000000	0 000000	000000	0	0	0	٥	200000	8	000	000000	0
0 000000 0 000000 0 000000 0 000000 0 0000	0 000000 0 000000 0 000000 0 000000 0 0000		0 000000	000000 0	0 000000	0	0	0	0	000000	8	000	000000	•
d aboute a observe a reserve a constant a constant a constant a constant a constant a	0 000000 0 000000 0 000000 0 000000 0 0000	S COMMUNICATION	0000000	0 000000	000000	0	0	0	0	000000	8	9	000000	٥
A 600000 A 600000 A 600000 A 600000 A 600000 A 600000 A	0 000000 0 000000 0 000000 0 000000 0 0000	9 TRADE	000000 0	0 000000	000000 0	0	0	0	0	000000	9	999	000000	0
none o como o co		OTHER SERVICES	0000000	0000000 0	0 000000	•	0	0	0	000000	0	900	000000	•

ANNEXURE 17
IMPORT COEFFICIENTS 1991 92

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				;	-					
	000000	0000		000000	200000	000000	000000	٠	000000	
					000000	000000	00000	00000	00000	
The state of the s	900		•	000000	0000	00000	00000	•		
THER CENTRALS	00000		•		000	00000		•		•
VILSES	000000	00000	00000	2000	200		۰ د	20000		•
SUCARCANE	000000	000	00000	00000	200	00000		•		
JUL STORE	000000	0 200000	000000	000000	2	000000	9	•	000000	0
COLLON	0 00000	0 000000	0 000	0 00000	3	000 000	0	0	000000	000000
40	00000	000000	C C000 0	0000000	ć	00000	0000000	0	000000	000000
	000000	0000000	0 000 0	0000000	25.	00000 C	0 000000	0	0 000000	000000
or o	000	0 001173	000000	000000	CABC	000000 0	0 00000	0 000000	0 00000	0000000
NO DE LA COLOR DE										
OTHER CROPS	0 000000	0000000	0000000	0000000	0 000000	0000000	0000000	0	0 000000	•
ANTHUS DISCONUING		000000	000000	000000	000000	000000	000000	٥	000004	٥
COLUMN C TOCOLNO	00000		00000	00000	000000	000000	000000	c	000000	•
PLACE IN A LANGING				00000		000000		•	00000	000000
747740	00000							•		
COME & LIGHTE			000000	000000						
Caron a source to caro				000000				•		
THOSE CHAR		00000	00000	000000	20000	00000	00000	•	00000	2
OTHER METALLIC HINERALS	000000	000000	000000	000000	000000	000000	000000	0	0000	000000
HOW MET & HINOR HINERALS		000000	0000000	000000	000000	0 083994	000000	0	0 015172	90000
BUGAR	0000000	0000000	000000 0	0 000000	000000 0	0 000000	0 000000	-	000000	0 000000
1900	000000	000000	00000	000000	000000	000000	000000	•	000000	•
KENNOSARI BOURA	000000	000000	000000	000000			•	•		•
STDROGERATED OLD					00000			•	000326	•
CONTRACT SECURITY OF					90000		•	•	90000	•
TOTAL TEXTIFES	0000						•			•
THE REAL PROPERTY STATES					000000	00000	00000	•	000000	•
THE COLUMN TREES TRATTING		00000	00000	000000	000000	000000	0	•	000000	•
WHITE STATES	000000	000000	000000	0000000	000000	000000	000000	0	000000	0
BOOD & WHOM PRODUCES	0 000000	000000	000000	0000000	0000000	0 000000	0	0	0 000000	0000000
MATER & BAPER PRODUCTS	0000000	0000000	0000000	0 000000	0000000	0 000000	0 000000	0 000000	0000000	0000000
		-	400000	000000	000000	900000	000000	•	00000	0
LANGE OF LEATING PRODUCTS	000000		00000	00000			9 0	•		•
CANADA PRODUCTS	00000	0002917	000000							
THE PERSON NAMED IN				00000	000000	00000	•	•	0.000	
CAST TAN MACHINES		000000	000000	00000	00000	000000	0000000	0	000000	000000
PROPERTY STATE	000000	000000	000000	0000000	000000	0 000000	0	0	000000	•
PLATICIDES	0000000	0000000	0000000	0 000000	0 000000	0000000	0	0	0000000	0
STATESTIC FIRE C RESIN	0 003738	0000000	D 293329	0000000	000000 0	000000 0	0	۰	0 00000	•
OTHER CHEMICALS	0 005684	0 019457	0 004206	000000 0	0000000	0 018594	•	0000000	0 032292	0 000000
Chaliforn	0000000	000000	0000000	0 000000	000000	000000	0 00000	•	000000	•

ANNEXURE 17
IMPORT COEFFICIENTS 1991-92

ABLE	
INCOMPLY T	
COMMODITY BY	1

•												
COMMODITY SECTOR	ឥ	32	2	*	æ	8		ñ	8	•		2
OF BUILDING AND LINESAL DRODS	000000	000000	0	0,0000	000000	000000	è	9	000000	00000	ě	9
INCH & STREET	000000	000000	000000	000000	000000	000000	0	000000	000000	000000	9	8
NOR PERSONS METALS	000000 0	000000 0	0 000000	000000 0	0 000000	0 000000	ŏ	00000	0 000000	0 00276	۰	900
TRACTORS & OTH AGR. MACH	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	ŏ	00000	0000000	00000	۰	000000
S MACHINE TOOLS	0 000000	000000 0	000000	0000000	0000000	0 000000	ŏ	0000	0000000		0	000000
6 OTH NON RELECTRECAL MACH	0 001036	0 000675	0 000856	0 000179	0 001107	000000 0	ŏ	11226	0 001629	0	0	04474
TELECTRICAL MACHINERY	0 000008	000000 0	0000000	000000	0000000	000000	ŏ	00000	0000000	0	0	000000
S COMMUNICATIONS ROUTHWENT	0000000	000000 0	0000000	0 000000	000000 0	000000	ŏ	00000	0 000000	0	٥	00000
P ELECTRONIC ROUTPHENT	0000000	000000 0	0 000000	0 000000	0 000000	0 000000	ŏ	00000	000000	0	ó	0000
SO RAIL EQUIPMENT	000000 0	0 000000	0000000 0	0 000000	0000000	0000000	ŏ	00000	0 000000	0 000000	0	90000
1 HOTOR VERICLES	י סספטר י	0000000	0 000000	0000000	000000	000000 0	ŏ	00000	000000	0 000000		00000
OTHER	0000	0000000	0000000	0 000000	000000	0 000000	ŏ	00000	000000	•	0	0000
33 OTHER MANUFACTURING	0 000000	0000000	0000000	000000 0	000000 0	0 000000	ŏ	000000	0000000	0	۰	00000
	0 00000	000000 0	0 000000	000000 0	0 000000	0 000000	ŏ	0000	0000000		٥	00000
	0000000	000000 0	0000000	0000000	0000000	0 000000	ŏ	00000	000000 0	•	٥	0000
56 PAIL TRANSPORT SERVICE	0 000000	000000 0	0000000	000000	0000000	0 000000	ŏ	00000	0000000	•	0	00000
7 OTHER TRANSPORT SERVICE	0000000	000000 0	0000000 0	000000	0 000000	0 000000	8	00000	000000 0	•	0	90000
•	0000000	0000000	0000000	0 000000	000000 0	000000 0	ŏ	00000	0000000	•	0	0000
SO TRADE	0 000000	0000000 0	0 000000	0000000	0000000	0 000000	ŏ	00000	000000 0	0	٥	00000
O OTHER SERVICES	0000000	000000 0	0000000	0000000	000000 0	000000 0	ŏ	00000	0000000 0	0 000000	۰	000000

ANNEXURE 17 MPORT COEFFICIENTS 1991-92

COMMENDERS BY INDUSTRY TANKE

Colored Colo	COMMONTAL BY INDUSTRY TABLE								-		
Maintain State Main							7 K 8				
Maria Mari	SN COMMODITY SECTOR	4	45	43	\$	5	97	ţ	\$	\$	2
NATION Company Compa		000000	000000	000000	000000	0 000000	000000 0	0 000000	0 000000	000000	0 000000
THE	o william	000000	000000	0 000000	0	0 000000	٥	000000 0	000000 0	۰	000000
Column C	A OTHER CEREALS	0000000	000000 0	000000 0	0	0000000	0	000000	0000000	۰	000000
Carte Cart	4 PULSES	0 000000	0000000	0000000	0 000000	0000000	0	0 000000	000000 0	٥	0000000
Company Comp	5 SUGARCANE	0 000000	0000000	0 000000	0 000000	0000000	٥	0 00000	000000	0	000000
THE PROPERTY OF THE PROPERTY O	6 JULE	0000000	000000	0000000	0	000000	0	000000	000000	0	000000
THE CATE AND ADDRESS OF STREET OF ST	7 00000		0000000	000000 0	0	0000000	٥	0 000000	0000000	0	000000
OTTEN PRINCIPAL MANAGEMENT CONTROL O GOODGO C GO	41EA		0 000000	0000000	٥	0000000	0	0000000	0000000	0	000000
March Marc	a duality o	0000000	0000000	0000000	0	000000 0	0 000000	000000	0000000	0	000000
Colored Block Colored Bloc	10 NUBBER	0 000000	0 000000	000000 0	0 000000	0 000000	0000000 0	0 000000	0 000000	٥	0000000
######################################											
MATHEM INTERPRETATION OF CORRECT OR CORRECT	11 OTHER CROPS	0 000000	0000000	0000000	0	0000000	0000000	0000000	900000	000000	00000
THE PRINCIPLE AND CONTROL OF CONT	12 ANTHAL BUSBANDRY	0000000	0000000	0 000000	0	0000000	0 000000	0000000	000000	ō	00000
THE PRINCIPLE AT MASS OF CORRECT OF CORRESPONDED CORRESPO	13 FORESTRY & LOGGING	0 000000	000000 0	0 000000	000000	0000000	0000000	000000	000000	0	000000
COUNTY LITTLE AT A 200 000000 0 000000 0 000000 0 000000 0 0		0 000000	0000000	0000000	000000	0000000	0000000	000000	000000	•	000000
CHANGE HYPELINE A LAST CONTROL		0 000000	0 012146	0000000	0000000	0000000	000000	000000	000000	0	000000
Colored Colo		0000000	0000000	000000	0 000000	0000000	000000	000000	000000	0	000000
Character Char		0000000	0 000000	000000	0 000000	0000000	0000000	0000000	000000	•	000000
NEWLY STREET,	18 OTHER METALLIC MINERALS	0 000000	0 000332	0 019964	0 000000	000000	000000	0 000000	0000000	•	000000
Company Comp	19 NOW HET & MINERALS	0 100496	000000 0	0000000	0 000000	0000000	000000	0000000	000000 0	•	000000
Charles Char	20 SUCHAR	000000 0	0 000000	0 000000	000000 0	000000 0	0000000	0 000000	0000000	ŏ	900000
Comparison Com						000000	00000	000000	000000	40000	000000
COUNTY ATTENTIAL NUMBER COUNTY ATTENTIAL		0000000	000000	000000	•	00000	00000	00000			
ANTI-MINENTE STRONG CONTROL CO		000000	000000	000000	9		00000	00000		•	
MACHINE MENTINE CONTROL CONTRO		0000000	0000000	0000000	0	000000	00000			•	
Company Comp		000000	000000	00000	9 0	000000				•	
MATERIAL REPORTED: 2 (1900) 1		000000	000000	000000	00000	00000	00000	00000			
Charge C		000000			•					•	
Company Comp		00000	00000		•					,	
NATION PROPERTY NATIONAL PROPERTY CONTINUE OF					• 0	000000	000000	000000	000000	•	000000
INVAIRA & LACATEM PROJECTS 0.000000 0.000000 0.000000 0.000000 0.000000		000000	000000 0	000000 0	•	0 000000	000000	0 000000	0 000000	•	000000
HAMITY PROCESS (ACCORDED DUCINOS) (ACCORDED DUCINOS							000000		000000	4	4
MARKILLEM PROCESTS 0.000000 0.000000 0.000000 0.000000 0.000100 0.000110 0.00010		000000	000000	00000	000000	000000	00000	00000		•	
		000000	000000		•			2000			
CONTROL CONT		00000			•		1000	1000		,	
					•			00000	O Demond	•	
					•					•	
######################################			00000		9 0	00000	00000	000000		•	
OTHER CENEGOLAL 0 000000 0 001020 0 000000 0 000000 0 000000 0 000000 0	CONTRACTOR PURDE		000000	000000	•	000000	000000	000000	000000		0 000000
8 990000 D 000000 0 000000 0 000000 0 000000	OTHER CHINGOLS	0 000000	0 001020	0 004420	•	000000	0 000785	0 000000	000000	•	0 000874
***************************************	10 CIBARAT	0 000608	0 000000	0 000000	000000	0 000000	000000	000000	000000 0	•	0 000000
					*********						******

ANNEXURE: 1.7
IMPORT COEFFICIENTS · 1991-92

Comments acres		•	•	;						1		***************************************
	,	2	7	•	•		:	=		=	\$	M.
OTH. HOM MET. HINTRAL PRODE	0 001701	0 000000	000000 0	0 000000	۰	۰	2	000211	90	8	900000	0.000000
INCH & STEEL	0000000	0 032823	0000000	000000	0	0	22	011603	000	8	000000	0.00047
NATION PRESIDENCE NOTALE	0 001046	0000000	0 041710	0 000000	0	٥	9	027619	9	707	000000	00000
TRACTORS & OTH AGRU HACK	0 000000	000000	0000000	0 000595	0	0	9	000000	000	900	000000	00000
MACHINE POOLS	0 000000	0 00000	000000 0	0000000	•	•			8	1		
OTH NOW RELECTIVELY, 19455	0 301619	0 002022	0000000	000000	•	0 0 072985		22	8	O SOUGH	90000	
RESCHIEGE MACHINERY	0 00000	0000000	000000 0	0 000000	0	0	2	015954	0	200	000000	00000
COMMUNICATIONS ROUTHOUT	0 000000	000000 0	000000 0	000000	0	0	2	000382	000		000000	
ELECTRONIC BOULDARY	2 200000	000000	0 000000	000000	0	0	0	002471	0000	689	024404	000000
MAIL SOUTHERY	0 000000	0 000000	0 000000	0 000000	000000 0	000000 0 0	000	00000	000	000000	000000	0.014217
WOTOR VEHICLES	0 000000	0 000000	0 000000	0 000000	000000	•	9	000000	000	9	90000	20000
OTHER TRANSPORT EQUIPMENT	0 000000	0000000	0 000000	0 000000	00000	•	2		8	2		
OTHER MANUFACTURING	0 000000	0000000	0 000000	0 000000	000000	0	2	000000	00000	2	2000	00000
COMBTRUCTION	0 000000	0 000000	000000 0	0 000000	0 00000	0	2	000000	000	000	000000	
ELECTRICITY ETC	0 000000	0 000000	0 000000	0 000000	000000	0	0	000000	000	99	00000	
	0000000	000000 0	0000000	0 000000	000000	۰	9	000000	0	9	900000	2000
OTHER PRANSPORT ARMYTCH	0 00000	0000000	0 000000	0 000000	0 000000	0	9	000000	000	000	000000	000000
COMPONICATION	0000000	0 000000	000000 0	000000	0 00000	0	9	000000	000	9	000000	000000
	0000000	0000000	000000	000000	000000	•	9	000000	000	000	000000	0 00000
OTHER SERVICES	0 000000	0000000	000000 0	0 000000	0 00000	0	9	000000	000	0 000000	00000	000000

ANNEXURE . 1 7 IMPORT COEFFICIENTS 1991-92

8 H I K H 8 D G Z H

	•			-	1								******		
8	COMMODITY SECTOR	ទេ	25		53	34	25		96	57		2		8	9
44	1 PADOT	0 000000	0 000000	000	000000	0 000000	0 000000	0	000000	000000	۰	000000	000 0	000000	000000
2 10	FIRST	000000	000000 0	000	000000	000000 0	0 00000	0	000	000000	0	000000	8	00000	000000
8	OTHER CEREALS	000000 0	0 000000	0	000000	0000000 0	0000000	0 000	000000	000000	0	000000	8	000000	000000
2	VLETS	0000000	0 000000	0	000000	0000000	0 000000	000	000000	000000	0	000000	8	9	000000
5	SUGARCANE	0 000000	0 000000	0	0000	000000 0	0 000000	0	000	000000	0	000000	000	000000	000000
8		0 000000	000000 0	0	000000	000000 0	0 00000	0	000000	0000000	0	000000	8	8	00000
8	COTTON	000000 0	0000000	0	000000	0000000 0	0 000000	0	000000	0000000	0	000000	000	8	000000
	5	000000	0 000000	000	000000	0000000	0 000000	0	000000	000000	0	000000	8	000000	000000
8	COLLEGE	0 000000	0 000000	0	000000	000000 0	0000000	0	000	0000000	0	000000	000	000	000000
10.	KURREK	0000000	000000 0	00	000000	000000 0	0 000000	000	000000	000000	•	000000	000	000000	000000
5	OTHER CROPS	000000 0	0 000000	0	00000	000000 0	0 00000	0	000000	000000	•	000000	9	000000	000000
:	NATION. BUSINESSING	0000000	0 000000	00	000000	000000 0	0 000000	ō	000000	000000	•	000000	000	000000	620000
	POTENTIAL E SOMETIME	0 000000	0 000000	0	000000	0000000	000000	000	000000	000000	•	000000	8	00000	000000
1	TISHING	0 000000	0 000000	000	000000	0000000 0	0 000000	0	000000	000000	0	200000	8	900000	00000
8	COAL & LIGHTIE	000000	0 000000	000	000000	0000000	000000	0	000000	000000	0	000000	000	000000	000000
5	CHARDE PETROLEUM & N GAS	0 000000	0 000000	00	000000	0000000 0	0 000000	000	900	000000	٥	00000	000	8	000000
17		0 000000	0000000	000	000000	0000000 0	0000000	0	000000	000000	-	000000	8	000000	000000
9	OTHER METALLIC MINERALS	0000000	000000	000	000000	000000 0	0 000000	•	000000	000000	•	200000	000	900000	000000
_	HOW HOLT & MINOR HINERALS	0 000000	0 000000	000	000203	0 071610	0 000000	0	000000	000000	•	00000	8	000000	900000
20 80	SUCIAR	000000 0	0000000	8	000000	000000 0	0000000	0	000000	000000	•	000000	8	8	90000
													1		
22	KEANDSARI BOORA	000000	000000	8	000000	0000000	0000000	0 0	000000	000000		00000	9	00000	000000
22 BX	HYDROGENATED OIL	000000	000000	8	000000	000000	0000000	0	000000	000000		000000	0	00000	000000
23 97	OTHER FOOD & BEVERAGE	000000	0 000000	8	000000	0000000	0000000	00	000000	000000		000000	0	00000	000120
_	COTTON TENTILES	000000	000000	8	000000	0 000000	000000	0	000000	00000		000000	8	00000	00000
25 110	MODILEN TEXTILES	000000	000000	8	000000	0 000000	000000	0	000000	000000		000000	0	00000	000000
	ART SILK & STATESTIC FIRST	000000	0 000000	8	000000	0000000	000000	000	000000	000000	5	00000	8	000000	0000
2	JUTE, HEMP, MESTA TEXTILES	0 000000	000000	8	00000	000000	000000	0	000000	000000		00000	8		00000
5	OTHER TEXTILES	0000000	000000	0	00000	000000	000000	5	00000		•	00000	8		
	MOOD & WOOD PRODUCTS	00000	000000	88	00000	0000000		5	00000		0		3 8		9
-	The state of the s			3	3			•			•				
3	LEATHER & LEATHER PRODUCTS	000000 0	000000	8	000000	000000 0	000000	8	000000	000000	•	000000	8	_	0000000
	PURBER PRODUCTS	0 000914	0000000	0	000000	0000000	000000	0	000000	000000	•	000000	8	_	90000
33 7	PLASTIC PRODUCTS	000000 0	000000	8	866000	0 000000	0000000	•	000000	00000	0	00000	0	000000	9000
	PETWOLEUM PRODUCTS	000000	000000	8	000000	0000000	0 004796	0	928	042934	•	000000	8	7	00000
8	COAL TAR PRODUCTS	000000 0	000000	8	00000	0 001190	000000 D	0	000000	000000	0	00000	8	000000	8
	FERTILIZER	0000000	000000	8 8	00000	000000	000000	•	00000		•	00000	3 5		
	PERTICIONS ENGINEERO PIECE & BESTN	000000	000000	8 6	000000	00000		0 0			0		88	000000	0000
	CONTRACTOR CONTRACTOR OF	0 000083	962200	8	986600	00000	00000		00000		•	000000	8		C 34361
	The state of the s	000000		8 8	00000		00000		00000		•	99000	8	_	9

COMMODITY SECTOR	51	52	53	ř.	92	26	57	85	S	8
OTH. NON HET. HINERAL PRODS.	0.00000	0.000000	0.000314	0,001950	0.000000	0.000000	0.000000	0.00000	0.00000	0.00000
IRCN & STREL	0.023293	0.010981	0.017132	0.00000	0.00000	0.00000	0.00000	-	0.00000	0.00000
NOW FERROUS METALS	0.006440	0.00000	0.012517	0,00000	0.00000	0.00000	0.00000	۰	000000	000000
TRACTORS & OTH. AGRI. HACH.	0.00000	0.00000.0	0.00000.0	0.00000.0	0.000000	0.00000	0.00000	_	0.00000	0 000000
HACHINE TOOLS	0.000350	0.000905	0.000002	0.00000	0.000000	0.00000	0.00000		0.00000	0.00000
OTH NON RESCIPLICAL MACH.	0.010636	0.002989	0.001039	0.00000	0.00000	0.000000	0,00000	0.00000	0.00000	0.000366
ELECTRICAL MACHINERY	0.001606	0.00000	0.001220	0.00000	0.003572	0.00000	0.00000		0.00000	0.00000
COMMUNICATIONS EQUIPMENT	0.00000	0.00000	0.000799	0.00000	0.00000	0.00000	0,00000	۰	0.00000	0.00000
ELECTRONIC EQUIPMENT	0.000000	0.00000.0	0.000165	0.000000	0.00000	0.000000	0,00000	_	0.00000	0.000021
RAIL EQUIPHENT	0.00000	0.000000	0.00000	0.000000	0.000000	0.00000	0.000000	0.00000	0.000000	0.00000
MOTOR VEHICLES	0.006489	0.00000	0.00000	0.00000	٠	0.00000	000000	000000	00000	000000
OTHER TRANSPORT BOUI PHENT	0.00000	0.095759	0.00000	0.00000		000000	000000	000000	00000	
OTHER MANUFACTURING	0 000000	0.004471	0.016819	0.000450	0.000000	0.00000	0.00000	0.00000	0.00000	0.004470
CONSTRUCTION	0.00000	0 000000	0.00000	0.00000.0	٠	0.00000	0.00000	0.000000	000000	0.00000
ELECTRICITY ETC.	0.00000	0.000000	0.000000	0.00000		0 000000	0.00000.0	0.000000	0.00000	0.00000
RAIL TRANSPORT SERVICE	0 000000	0.00000	0.00000.0	0.000000	۰	0.00000	0.00000.0	0.000000	0.00000	0.00000
OTHER TRANSPORT SERVICE	0.00000	0.00000	0.00000.0	0.00000	۰	0.00000	0.016214	0.000000	0.00000	0.00000
COMMUNICATION	0.000000	0.000000	0.00000	0.00000	۰	0.00000	0.00000	0.000000	0.00000	0.00000
TRADE	0.00000	0.00000.0	0.00000.0	0.00000	_	0.00000	0.00000	0.00000	0.00000	0.00000
OTHER SERVICES	0.00000	0.00000	0.00000	0.00000.0	۰	0.00000	0.00000	0.00000	0.00000	0.001590

ANNEXURE 1.8 IMPORT COEFFICIENTS 1996-97

INDUSTREE

COMMONTY BY THOUSTRY TAKES

MADE 0.000000 0.000000 0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000 0.0000000 0.0000000 0.000000 0.00000			000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000
CONTROL CERTALS CONTROL CERTAL CONTROL CERT			0000000 0000000 0000000 0000000 0000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	0.000000000000000000000000000000000000	00000000000000000000000000000000000000
			0000000	00000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	00000000000000000000000000000000000000
1777 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000			0000000 0000000 0000000 0000000 0000000	00000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.00000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0000000 0 0 00000000 0 0 0000000 0 0 0000
1777 0.0000000 0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000 0.00000000			000000	000000000000000000000000000000000000000	00000000000000000000000000000000000000	0.000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	0000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TOTATION OF TOTATI				000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	9000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CONTRACTOR OUTER CONTRACTOR			000000	000000 0 000000 0 000000 0 000000 0 0 0000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	900000 - 0
Company Comp			000000	0,000000 0,000000 0,000000 0,000000 0,000000	0.0000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000
OFFER CAOPTS OF			0000000	0.0000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000
ACHIGAL, RESEMPORT CONTROL OF CONTROL CO			000000	000000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.00000 0.000000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000
THERTO		0000000	000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0,000000 0,000000 0,000000 0,000000 0,000000	0.000000
THERTING 0.000000 0.000000 0.000000 0.000000 0.000000			000000	0,000000 0,000000 0,000000 0,000000 0,000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.00000 0.000000 0.000000 0.000000 0.000000
COUCH 6 LINES 0.000000 COUCH 6 LINES 0.000000 COUCH 6 LINES 1. 0. 0. 0.000000 COUCH 6 LINES 1. 0. 0. 0.000000 COUCH 6 LINES 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.			000000	0.000000	0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.000000 11RES ORZ. 0.000000		• •	000000	0.000000	0000000	0.00000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000	0.00000 0.000000 0.000000
TIME OF COORDING			000000	0.000000	0.000000	0.000000	0.000000	0.00000
OTHER METALLIC MINERALS 0.000000 SEIGHN MINERALS 0.000000 SEIGHN 0.000000 0.000000 MINERALS O.000000			000000	0.00000	0.000000	0.00000	0.00000	0.00000
FIGHT MET. & REPORT MEMBERS. 0.000000 CREATER MET.		-	000000	0.00000	0.00000	0.00000	0.000000	0.00000
NEANDSARI BOORA 0.000000 0. BIDROGENATED OIL 0.000000 0.	-							
MINISTRACTO OIL 0.000000 0.	-							
STDROGENATED OIL		_	000000	0.000000.0	0.00000	0.000000	0.000000	0.00000
	-	-	0.00000.0	0.000000	0.000000	0.00000	0.00000	0.000000
OTHER FOOD & BEVIEWARE 0.000000	-	•	.000000	0.000000	0.00000	0.00000	0.00000	0.00000
COTTON TENTILES 0.000000 0	-	_	.000000	0.000000	0.000000	0.00000	0.00000	0.00000
WOOLLEN TEXTILES 0.000000	_	0.000000.0	.000000	0.00000	0.000000	0.00000	0.00000	0,00000
ANT SILK & STATESTIC FINES 0.000000 0	-	•	000000	0.00000	0.00000	0.00000	0.00000	0.000000
JUTE, HEND, MESTA TEXTILES 0.000000 0.000000		٠.	.000000	0.00000	0.00000	0.00000	0.00000	0.00000
OTHER TEXTILES 0.00000 0.000000 0	-		000000	0.00000	0.00000	0.00000	0.00000	0.00000
29 WOOD & WOOD PRODUCTS 0.000000 0.000000 0.	000000	0.000000	0.00000	0.00000	0,000000	0.00000	0.00000	0.00000
LEATHER & LEATHER PRODUCTS 0.000000 0.000000	_		0.00000.0	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000 0.000000	0.00000	000000	000000	0.00000	0.00000	0.00000	0.00000	0.00000
PLANTIC PRODUCTS G. 000000 U. 000000		•	00000	0.00000	00000	0.00000	00000	
24 PRINCIPLE PRODUCTS 0.000000 0.000000 0.	-	000000	000000	000000		000000		
	00000	•	273673	000017	0.033687	0.00581.2		0.0001
PRETICIDES 0.000621 0.000393 0	0.000068		.000000	0.000211	0.008855	0.000746	0.008289	0.008331
STATESTIC FINES & RESIN 0.000000 0.000000 0	Ξ	۰	.000000	0.00000.0	0.00000	0.00000	0.00000	0.00000
CHIDISCALA 0.00000 0.000000 0	_	Ī	000000	0.00000	0.00000	0.00000	0.00000	0.00000
40 CENTRAL 0.000000 0.000000 0.	0.000000.0	0000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000

ANNEXURE 1.8 IMPORT COEFFICIENTS 1996-97

#### #################################		0.000000								The second second second second	
Processing Pro	Proceedings Process	NON FERROUS HETALS 0.000000 (000000	0.00000	0.00000.0	0.000000		0.00000		0.00000	٦.
MACHINE TEXT. MACHINE CONTROL OF	MACHINE TEST LAMINATION CONTROL CONTRO	0.00000	000000	0.00000	0.00000	0.00000	0.00000	0.00000	00000	0.00000	0.00000
THE REPORTED THE ACCOUNT OF CONTROL OF CONTR	THE PRINCE AND ADDRESS OF STREET OF	•	0.00000	0.00000	0000000	0000000	0.00000	0.000000	000000	0.00000	000000
THE TOTAL STATES 000000 0.000000 0.000000 0.000000 0.000000	THE TOTAL STATE AND 0.000000 0.0000000 0.000000 0.000000 0.000000	THACTORS & OTH. AGM. MACH.	8 0000 O	0.000035	0 000036	0.00000.0	0.00000	0.00000	0.00000	00000	0.00000
NAME LATESTACK MAIN MA	NAME LATESTACK MAIN MA	MACHINE TOOLS 0 000000 0	0.00000.0	0.00000.0	0.00000	0.00000	0.00000	0.00000.0	0.00000	0.00000	0.00000
EXPENSION MATERIAL AT 0 000000 0.000000 0.000000 0.000000 0.000000	EXPENSION MATERIAL AT 0 000000 0.000000 0.000000 0.000000 0.000000	0 000000 0	0.00000.0	0.00000.0	0.00000.0	0,00000	0,00000	0.00000	0.00000	000000	0.00000
000000 000000 000000 000000 000000	COUNTY C	0	0.00000.0	0.00000	0 000000	0.00000.0	0.00000	0.00000	0.00000	0.00000	0.00000
MAINTENENTE ROLLINGHT CORDING 0.1000000 CORDING 0.000000 C.000000 C.000	MAINTENANCE BOLITHRAPT CONTROL 0.1400000 CONTROL 0.14000000 CONTROL 0.1400000 CONTROL 0.1400000 CONTROL 0.1400000 CONTROL 0.1400000 CONTROL 0.1400000 CONTROL 0.14000000 CONTROL 0.140000000 CONT	0 000000	0.000000	0 000000	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		ELECTRONIC BOUIPHENT 0 000000 0	0.000000	0 000000	0000000	0.00000	0.00000	0,000000	0.00000	0,00000	0.00000
CONTROL CONT	CONTROL CONT	RAIL EQUIPMENT C 000000	0.000000	0.00000.0	0.00000	0 000000	0.00000	0.00000	0.00000	0.00000	0.000000
2000001 2000001 2000001 2000001 20000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 200000000	0000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 00000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 0000007 00000000		000000								
0000000 0000000 0000000 0000000 000000	0 000000 0 000000 0 000000 0 000000 0 0000	000000	0.00000	0.00000	000000	0.00000	0.000000	0.000000	0.00000	0.00000	00000
11 1 1 1 1 1 1 1 1		0.000000	0.00000.0	0.00000.0	0.00000	0.00000.0	0.00000.0	0.00000.0	0.00000	0,00000	0.00000
0000001 0000001 0000001 0000001 0000000 0000000 0000000 0000000	0 0000001 0 0000001 0 0000001 0 0000001 0 000000	0 0000000 0	0.00000.0	0.00000.0	0000000	0 000000	0.00000	0.00000	0.00000	0.000000	0.00000
0.000000 0.000000 0.000000 0.000000 0.000000	2	0 000000 0	0.00000.0	0 000000	0.00000	0,00000	0.00000	0,00000	0.00000	0.00000	0.00000
######################################	######################################	0 000000 0	000000 0	0 000000	0 000000	0000000	0000000	0.00000.0	0.00000	0.00000	0.00000
T SERVICE O UNDOUGO U. CORODORO O UNDOUGO O UNDOUGO U CONDOCOU O CORODORO O C	T SERVICE O CONCOUGO C. COROCRO O CONCOUGO O CONCOUGO C. CONCOUGO C. CONCOUGO C. CONCOUGO O. CONCOUGO C. CONCOUGO	SERVICE 0 0000000 0	0.00000	0000000 0	0 000000	0.000000	0000000	0000000	0.00000	0.00000	0.00000
0 000000 0 000000 0 000000 0 000000 0 0000	0 000000 0 000000 0 000000 0 000000 0 0000	SERVICE 0 0000000 0	0.00000.0	0000000	0 000000	0000000	0.00000.0	000000	0.00000	0.00000	0.00000
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) 000000'0 000000'0 000000'0 000000'0 000000	0.00000 0 000000 0 000000 0 000000 0 00000	٥	000000 0	0.00000.0	0 000000	0.00000	0.000000	0,000000	0.00000	0.00000	0.000000
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ANNEXURE 1.8
IMPORT COEFFICIENTS 1996-97

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MARY 000000				00000000000000000000000000000000000000	00000000000000000000000000000000000000	0000000 0 0000000 0 0000000 0 0000000 0 000000	000000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000
HIRTORY TOTAL CLEARLY TOTAL CLEARL				00000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	00000000000000000000000000000000000000	000000 0 000000 0 000000 0 000000 0 000000	00000000000000000000000000000000000000	0.000000 0.0000000 0.0000000 0.00000000
OTTER CIRCLAS 0.000000 10.000000 10.0000000 10.00000000				00000000000000000000000000000000000000	0.000000000000000000000000000000000000		000000 0 0 000000 0 0 000000 0 0 000000		00000000000000000000000000000000000000
TOTAL STATE OUTDOON OUTDO O				00000000000000000000000000000000000000	0.000000 0.0000000 0.0000000 0.0000000 0.000000	0.0000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000		0.000000 0.0000000 0.0000000 0.0000000 0.000000
SUMPLANT OUTTON OUTT				00000000000000000000000000000000000000	0.000000 0.0000000 0.00000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000		00000000000000000000000000000000000000
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OTTON 1000000 1000000 1000000 1000000 1000000						0.000000 0.000000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000		00000000000000000000000000000000000000
173. 0 000000 1737EE CORE 0 000000			0.000000			0.000000 0.000000 0.000000 0.000000 0.000000			
OCTTER CONTENT TURISH CAPE THERE ALL LOSATO COAL & LIGHTE COAL & LIGHTE THERE ALL COALNO COAL & LIGHTE COAL & LIGHTE COAL & LIGHTE COAL & LIGHTE COAL COAL COALNO COAL COAL COAL COAL COAL COAL COAL COAL				0.000000 0.000000 0.000000 0.000000 0.000000		0.000000 0.000000 0.000000 0.000000	0.000000	0.000000	
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000000 000000 000000 000000 000000			0.0000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000		0.000000	0,000000 0,000000 0,000000 0,000000 0,000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
NATIVAL BUSBARDRY 0 000000 FORESTRY & LOCATING 0.000000 COAL & LIGHTIT 0.000000 TORN PETFOLIAM N.GAS 0.000000 TIRON DO PETFOLIAM (N.GAS 0.000000)			0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000	0,000000	0.000000	0.000000.0	0.000000
PERSETTE & LOGGING 0.00000 0.000000 0.000000 0.000000 0.000000		000000000000000000000000000000000000000	0.000000	0.000000	000000000000000000000000000000000000000	0.000000	0.000000	0.000000.0	0.0000000000000000000000000000000000000
COAL & LIGHTE 0 0.00000 0 CCOAL & LIGHTE 0 0.00000 0 CGADE W R N.GAS 0 0.00000 0 OWNER APPRAIS 0 0.00000 0		000000000000000000000000000000000000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
COAL & LIGHTTE 0 000000 CHUDE PETROLEUK & N.GAS 0 000000 OFFETE AFFAILT MINERALS 0 000000		000000	0.000000	0.000000	0000000	0.00000	0.00000	0.00000	0.00000
CHINE PETROLEUM & N. GAS 0 0000000 1 1 HOW ORE 0.000000 0		000000	0.000000	0 000000	0.00000	000000	0000		0.00000
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OUCOUR C NAMED ATMEDIATE OF COLUMN			000000	000000		000000	0.00000	0.00000	0.008672
0.00000		0.00000	0.00000	0.000000	0.000000	0.000000	0.000000	0.00000	0.000000
			000000	00000	000000	000000	00000	000000	00000
21 KHANDSARI BOOKA U U UUUUUU U.U	0.00000	00000	000000	000000	00000	00000	00000	000000	00000
OCCUPATION OF SECRETARY OF STREET		000000	0000000	000000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000 0	_	000000	0.00000.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
MOOITEN TEXTILES	-	0.00000.0	0.000000.0	0 000000 0	0.000000	0.000000	0.00000.0	0.00000	0.00000
ART SILK 6 SPATHETIC FIRRE 0.000000 (_	0.000000.0	0.00000	0.000000.0	0.00000.0	0.000000	0.000000	0.00000	0.00000
TEXTILES 0.000000	_	0000000	0.00000	0,00000,0	0.00000	0.00000	0.00000	0.00000	000000
OTHER TEXTILES	0.00000	000000	0.00000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000
PAPER & PAPER PRODUCTS 0.000000	_		0.00000	0.000000	0.00000	0.00000	0.000000	0.00000	0.00000
COCCOO C STUDIOS STUTIOS STUTIOS	0.00000	000000	000000	000000	000000	0000000	000000	000000	0.00000
PURBER PRODUCTS 0.00000	_		000000	0.000000	0.00000	0.00000	0.000000	0.000000	0.00000
PLASTIC PRODUCTS 0.000000	_	000000.0	0.00000.0	0.00000.0	0.00000	0.00000	0.000000	0.00000	0.00000
0.000000 8		0.00000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.000000
COMI TAR PRODUCTS 0.000000	_	000000	0.00000.0	0.00000.0	0.000000	0 000000	0.000000	0.00000	0.00000
FERGILIZERS 0.015771	0.000000	000000	000000	0.000000	0.00000	0.00000	0.00000	0.00000	0.00000
SERIEGICA CONTRACTOR C		00000	00000	00000	00000	00000		00000	
0.000000	_	0.00000	0.00000	0.00000	0.000099	0.00000	0.002887	0.00000	0.00000
CEMENT 0.000000 0.0	0.000000.0	0000000	0000000	0.00000.0	0.00000	0.00000	0.00000	0.00000	0.000000

ANNEXURE 1.8 IMPORT COEFFICIENTS 1996-97

ANNE IMPORT COEF

						TRIES				
SR COMMODITY SECTOR	11	11 12 13 14	13	1.	15	16	17	91		20
41 OTH. NOW MET. MINERAL PRODS.	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000	0.000000	0.000000	0.00000	000000 0 000000
42 IPON & STEEL	0.00000	0.000000	0.00000.0	0.00000.0	0.00000	0.000000	0.000000	0.00000	0.000000	0,000000
43 NON FERROUS METALS	0.000000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.000000	0.00000	0.00000
44 TRACTORS & OTH. AGRJ. HACH	0.000015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
45 MACHINE TOOLS	0 000000	0 000000	0.00000	0.00000	0 000749	0 000000	0.00000	0.00000	0.00000	0.00000
	0.00000	000000 0	0.000000	0 000000	0.000000	0 000000	0.00000	0.000000	0.000000	0.00000
47 ELECTRICAL MACHINERY	0 000000	0 000000	0000000	0 000000	0.00000	0.00000	0000000	0.00000	0.00000	0.00000
48 COMMUNICATIONS EQUIPMENT	0.00000	000000 0	0.00000	0 000000	0.000000	0 000000	0,00000	0.00000	0.00000	0.00000
49 ELECTRONIC EQUIPMENT	0.000000	0 000000	0.000000	0000000	0.000000	0.00000.0	0.00000.0	0.00000	0.00000	0.00000
50 RAIL EQUIPMENT	0 000000	0 000000	0000000	0 000000	0 000000	0.00000.0	0.00000.0	0.00000	0.000000	0.00000
Samura down 13	000000	0.00000	000000	000000	00000	00000	00000	00000	00000	000000
The second second	0 0		20000	00000	2000	0000	00000	00000	0.00000	0,0000
	0000000	0 000000	000000	0000000	0.00000	000000	0.00000.0	0.00000	0.000000	0.00000
53 OTHER MANUFACTURING	000000	0 000000	0.00000.0	0000000	0.00000.0	000000	0.00000.0	0.00000.0	0.00000	0.00000
	000000 0	0000000	0000000	0000000	0.000000	0 000000	0.00000.0	0.00000	0.00000	0.00000
	0 000000	0 000000	0 000000	0.00000.0	0 000000	0.000000	0 000000	0.000000	0.00000	000000
56 RAIL TRANSPORT SERVICE	0 000000	0000000	0000000	0.00000.0	0 000000	0	0.00000.0	0.00000	0.00000	0.00000
57 OTHER TRANSPORT SERVICE	0 000000	0.00000.0	0 000000	0.00000	000000	0	0.00000	0.00000	0.000000	000000
58 COMMUNICATION	0.00000	0000000	0.00000	0 000000 0	0.00000	0	0 000000	0.00000	0.00000	000000
59 TRADE	000000 0	0000000	0.00000	0 000000	0000000	٥	0.00000	0.00000	0.00000	0000000
60 OTHER SERVICES	000000	000000	000000	000000	000000	000000	000000	0 000000		

Contd

ANNEXURE 1.8
IMPORT COEFFICIENTS 1996-97

IMPORT COEFFICIENTS 1996-97	COMMONIY BY INDUSTRY TABLE	/	9 1 1 4 1 9 1 2 2 1	
	В			

1 PADOX 2 WIEAT 3 OTHER CEREALS										
	0000000	0.00000	900000.0	000000	0.00000	0.00000	0.00000	0,00000	000000	00000
	000000	000000	910000	000000	000000	0000000	000000	000000	000000	000000
3 OTHER CEREALS			0000	000000	000000	0000000	000000	000000	200000	000000
7 100 100 100 100 100 100 100 100 100 10	000000	00000	2000	0.00000	2000	0.0000				
	000000	000000	. FD0000.0	000000	0.00000	0.00000	9	0.00000	00000	0.00000
6 circap-any	0.00000	0000000	0.00000	0000000	0.00000	000000	0000000	0.00000	0,00000	0.00000
	00000	00000	000000	000000	000000	000000	0.00000	00000	000000	900000
	00000	00000	00000		00000	0000	0000		0000	
2	0.00000	000000	0.00000		000000	00000	000000	0.00000	00000	
8 TEA	000000	0000000	000000	0000000	000000	0,000000	0.00000	0.000000	0.000000	0.00000
) acres a	0.00000	0000000	0.00000.0	0,00000,0	000000	0.00000	000000	0.000000	0.00000	0.00000
	00000	000000	000000	000000	000000	0.00000	000000	000000	0.00000	000000
	20000									
	000000	000000	100000	00000	000000	000000	00000	000000	000000	000000
	000000	000000	0.002031	000000	000000	0.00000	0.00000	000000	00000	
2 ANIMAL BUSBANDRY	000000	000000	0 000624	000000	0.000000	0.00000	0.000000	0.00000.0	0.000000	0.00000
	000000	000000 0	0.000000	0.00000.0	0.00000.0	0.000000	0.00000.0	0.00000	0.118683	0.00000
	000000	000000	0000000	000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	00000		00000	000000	000000	000000	000000	000000	00000	000000
	00000	000000	000000	00000	00000	0000	0000			
CHEDGE PETROLEUM & N GAS		00000	000000	00000	00000	00000	00000	900	9	
THO NOW I	000000	0000000	000000	0.00000	0.00000	0.00000	0.0000	00000		
	0000000	0000000	0.00000	0.000000.0	0000000	0.000000	0.00000	0.000000	00000	00000
O NOW MET & HINDR MINERALS	0015100	0 000000	0.00000.0	000000	0000000	0.00000	0.00000	0.00000	0,00000	0.010576
	000000	0 000000	0 000000	0,00000	000000	0.00000	0.00000	0.000000	0.00000	0.00000
NAMES OF STREET STREET	000000	000000	000000	0.00000.0	0.00000.0	0.000000	0.00000	0.00000	0.00000	0.00000
EVENDOCEMATED OF		000000	0 000017	0 000000	000000 0	0.000000	0.00000	0.00000	0,00000	0.00000
and white soon a personne	00000	000000	0.001546	0 000035	0 00000	0.00004	000000	0.00000	0.00000	000000
Comment and a particular	00000	00000		0000	00000	000000	00000	000000	00000	000000
COLLON TRAILINGS	000000	00000	000000	0000				2000		
MODITEM TEXTILES	. 000000	0 00000	0,00000	000000	0.011/2	000000	00000	00000		
ART SILK & STATERIC FIBRE	0.00000	000000 0	0.00000	0.000176	0.00000	0.0033338	0.00000	0.000563	0.00000	0.00
JUTE, HEND, MESTA TEXTILES	0.00000	000000	0.00000.0	0.00000	0.00000.0	0.00000	0.003664	0.00000	0.000003	0.000087
OTHER TEXTILES	0.00000.0	0.00000	000000 0	0.000000	0.00000.0	0.000000	0.000912	0.00000	0.000040	0.000126
HOOD 6 WOOD PRODUCTS	0.00000.0	0.00000	0.00000.0	0 000000	0.000000	0.00000	0.00000	0.00000	0.002776	0.00000
30 PAPER & PAPER PRODUCTS (000000.	0.00000.0	0.00000.0	0.00000	0.000000	0.00000	0.000000	0.00000	0.000952	0.00000
	000000	000000	000000	000000	00000	00000	000000	00000	000000	000000
LEATHER & LEATHER PRODUCTS	000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	00000	00000	0.0000
	000000	000000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0000	0.0000
PLASTIC PRODUCTS	000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.0000
PETROLEUM PRODUCTS		0.00000	0.000000	0.000000	0000000	0.00000	0.000000	0.00000	0.00000	000000
35 COAL TAR PRODUCTS C	000000 0	0.000000	0.000000	0.000000	0.00000.0	0.000000	0.000000	0.00000	0.00000	0.00000
95 FEBUILIZERS	0.00000.0	0.000000	0.000000	0.00000.0	0.00000.0	0.00000	0.000000	0.00000	0.000000	0.00000
	0.00000.0	0.00000.0	0.00000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000
T & NESTH	0.00000.0	0.00000	0.00000.0	0.000000	0.049157	0.065458	0.000000	0.008888	0.00000	0.00000
CHEMICALS	0.00000	0.022303	0.001272	0.003311	0.00000.0	0.002637	0.000000	0.000335	0.000402	0.006541
O CERCIFIC	.000000	0.00000.0	0.00000	0.00000.0	0.00000.0	0.00000	0.00000	0.00000	0.00000	0.00000

ANNEXURE 1 8 IMPORT COEFFICIENTS 1996-97

COMMODITY SECTION										
	23	22	23	24	23	26	7.2	28	23	8
OTH NOW MET MINERAL PRODE 0 00	000000	000000	0 000272	0 000000	0 000000	000000	0 000000	000000	0 000015	000000
•	00000	000000 0	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	000000	0000000
METALS	000000	0000000	0 000000	0 000000	000000	000000	0 000000	000000	000000	000000
A AGRU HACH	000000	000000 0	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0000000	000000
٥	3 00000	000000	0000000 0	0 000000	000000	000000	0 000000	0 000000	0 000000	000000
9	00000	000000 0	0000000	0 000000	000000	000000	0 000000	000000	0000000	0 003471
0	3 00000	000000	0000000	0000000	0 000000	000000 0	0 000000	000000 0	0 00000	000000
MENT 0	00000	000000	000000 0	0 000000	0 000000	000000	000000 0	0000000	0000000	0 000000
ELECTRONIC EQUIPMENT 0 00	00000	000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	0 000000
0	00000	000000 0	0 000000	000000 0	0 000000	0000000	000000 0	0000000	0000000	0 000000
•										
0	00000	0000000	0000000	000000	000000	0000000	000000	000000	000000	000000
I Frence 0	00000	000000	0 000000	0 000000	0 000000	0 000000	000000	000000	0000000	000000
CTUBLING	3 00000	0000000	0000000	0000000	0000000	0 000000	0000000	0000000	0 000000	0 00000
•	00000	0000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000
٥	000000	0000000	0000000	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	0 000000
ERVICE 0	00000	000000	0 000000	0000000 0	000000 0	000000 0	0 000000	0 000000	0000000	0 000000
AT SERVICE 0	00000	000000	0000000	0 000000	000000 0	000000 0	0 000000	0 000000	0000000	000000
COMMICATION 0 00	00000	0000000	0000000	0000000	0 000000	0 000000	0000000	0 000000	0000000	0000000
0	000000	0000000	0000000	0 000000	0 000000	0 000000	0000000	0 000000	0000000	0 000000
OTHER SERVICES 0 00	900000	0000000	0 000000 0	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000

ANNEXURE 1 8 IMPORT COEFFICIENTS 1996-97

PACHY PACH	COMMONITY SECTOR PRODY THE CHARLES SUGARCIAN SUGARC	000000000000000000000000000000000000000	E 000000000000000000000000000000000000		# # # D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	"	94 94 94 94 94 94 94 94 94 94	96 0000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## (CONTROL OF CONTROL	40 0 0000000 0 0000000 0 0000000 0 000000
Name	PADOY PADOX	000000000000000000000000000000000000000	E 000000000000000000000000000000000000	# 000000000000000000000000000000000000	M 000000000000000000000000000000000000	9f (2000000000000000000000000000000000000	E 000000 0 0 000000 0 0 000000 0 0 000000	96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
THE STATE OF THE S	WELCH CHULLS WELCH CHULLS WILLS WILL WILL	000000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 000000000000000000000000000000000000
THE CHALLES 0 000000 0 000000 0 000000 0 000000 0 0	WERT CHARLS OTHER CHARLS SHOADAN SHOADAN TAN TAN THE CHARLS SHOADAN SH	000000000000000000000000000000000000000		000000000000000000000000000000000000000			0000000 0 0000000 0 0000000 0 0000000 0			0 000000000000000000000000000000000000
Column C	PULSES PU	000000000000000000000000000000000000000		000000000000000000000000000000000000000						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Comparison Com	STOCKESS STOCKE	000000000000000000000000000000000000000		000000000000000000000000000000000000000						0 000000000000000000000000000000000000
Column C	SUGARCHEE OCTTON OCTTON TAN TAN TON TON TON TON TON	000000 0000000		000000000000000000000000000000000000000						0 000000000000000000000000000000000000
Comparison Com	OTTON TIN COFFEE COFFEE COPEE CO	00000 0000000		00000000000000000000000000000000000000						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Company Comp	COTTON COFFEE HUSER HUSER ATTENTAL BUSENDEY FORESTHE LOOSING	0000 0000000		000000000000000000000000000000000000000						0 000000 0 000000 0 000000 0 000000 0 000000
Comparison Com	COFFEE OO O'CHER CONTEX OO O'CHER CONTEX CON	00000000		00000000000000000000000000000000000000						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CHERTELLE CONTRETATION CONTRETA	COFFEE COTER COPE OTHER COPE ANIMAL HUBBAY FISHING FISHING OTHER COOKING O	00 0000000		000000000000000000000000000000000000000						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MATTHE CAPS AND ALL STREAM NOTE CONTROL OF C	OTEER CROPS ARIBAL HUSBANDRY PERSENTY L LOGGING FISHING	0000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	0000000	0000000 0000000 0000000 0000000 0000000	0 000000 0 000000 0 000000 0 000000 0 000000
Characterist Char	OTHER CROPS 0 ANIMAL HUSBANDRY 0 PORESTRY & LOGGING 0 FISHING 0	0000000		000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	0000000	000000000000000000000000000000000000000	0 000000 0 000000 0 000000 0 000000 0 000000
MITTALE INTERNATION 000000 0 000000 0 000000 0 000000 0 0000	ANIMAL BUSEANDRY 0 FORESTRY & LOGGING 0 FISHING 0	000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000		0000000	000000	000000000000000000000000000000000000000	0 000000 0 000000 0 000000 0 000000 0 000000
Comparison Com	FORESTRY & LOGGING 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 000000	0000000		0000000	0000000	000000000000000000000000000000000000000	0 000000 0 000000 0 000000 0 000000 0 000000
Comparison Com	FISHING	0000000	0000000	0 000000	0000000		0000000	00000	000000000000000000000000000000000000000	0 000000 0 000000 0 000000 0 000000 0 000000
COLLEGISTRE NEW STATISTICAL STATES CONTROL OF CONTROL O	•	000000	0000000	0 0000000	0000000	0000000	000000	2	000000	0 000000 0 000000 0 000000 0 120491
THE REPLACE NATIONAL MINERALE STATES OF STATES	CONT & LIGHTTE	000000	0000000	0 000000	0000000	000000		000000	00000000	0 000000 0 000000 0 120491
The color of the	CRUDE PETROLEUM 6 N GAS 0	000000	0000000	000000	0000000	0000000	000000	000000	20000	0 0000000
Character Char	I BON ORE				000000	200000	000000	000000	000000	0 120491
Name	OTHER METALLIC MINERALS 0	•	000000	000000	000000	000000	000000	000000	0000000	1
NEW COLOR CONTROL CO	NOW HELL MINOR MINERALS 0	0	000000	000000	000000	00000000	000000	0000000	000000	000000
NAME	o compo									
Company Comp	KHANDSARJ BOORA 0	0 000000	0000000 0	0000000 0	0000000 0	0000000	0 088800	000000 0	000000 0	0 000000
CHILD. FERTALE. STRINGER, STRONG STRO	HYDROGENATED OIL 0	000000	0000000	0000000	000000 0	0000000	0000000	0000000	000000	000000
COURTY HITTLES COURTY COUR	OTHER FOOD & BEVERAGE 0	0000000	0000000	0000000	0000000	0000000	000000	000000	0 000326	000000
March Exprinting March	COTTON TEXTILES 0	0000000	0000000	9000000	000000	000000	000000		000000	00000
THE BEACH TEXT TAXTILES 0.000000 0.000000 0.000000 0.000000 0.000000	MODITER TEXTILES	000000	00000	000000	000000	000000	000000		00000	00000
OTHER TILLES. 10 000000 0 0000000 0 0000000 0 0000000 0	THE SELECT MEST TOWARD OF	000000	000000	000000	000000	0000000	0000000	000000	000000	000000
NAME	OTHER TEXTILES	000000	000000	0000000	0000000	0 000000	0000000	0 000000	0 000000	0 000000
PARTICIDADE DE SENDO DE CAUSTON	NOOD 4 WOOD PRODUCTS 0	0 000000	000000 0	0000000 0	000000 0	0000000 0	0000000	0 000000	0 000000	0 000000
MARIER PROUCTS CONTINUE OF	PAPER & PAPER PRODUCTS 0	0 000000	0000000	0000000 0	000000	0 000000	0 000000	0 000000	0000000 0	000000 0
NUMBER PRODUCTS 0 000000 0 00216 0 000000 0 000000 0 000000 0 000000 0 0	LEATHER & LEATHER PRODUCTS 0	000000 0	0000000 0	0000000	000000 0	0000000	0000000 0	0 000000	0 000000	0 000000
PLATE FRANCETS 0 000000 0 000000 0 000000 0 000000 0 0	RUBBER PRODUCTS 0	0 002160	0000000 0	000000 0	000000 0	0 000000	0 000000	0 000000	000000 0	000000
PETROLIA PROMUCTS 0 000000 0 000000 0 000000 0 000000 0 0	PLASTIC PRODUCTS 0	000000	0 006637	0000000	000000 0	0000000	0000000	0000000	0000000	0000000
COLL TAR. PROCESS 0 000000 0 000000 0 000000 0 000000 0 0	PETROLEUM PRODUCTS 0	000000	0000000	0000000	000000	0000000	0000000	0000000	0 009687	000000
NEW CONTROL	COAL TAR PRODUCTS 0	000000	000000	0000000	000000	0000000	0000000	000000	000000	00000
PASTINET FIRE A RASH 0007199 0 000000 0 2923129 0 000000 0 000000 0 000000 0 000000 0 0	FERTILIZERS	000000	000000	000000	00000	00000	000000			
OTHER CHAICALS 0.005664 0.019457 0.004206 0.000000 0.000000 0.018867 0.022785 0.000000 0.032894 0.000000 0.000000 0.000000 0.000000 0.000000	CONTRACTO FIRE 4 BESTS	000000	293329	0000000	000000	000000	000000	000000	000000	000000
CEMENT 0 000000 0 000000 0 000000 0 000000 0 0	OTHER CHEMICALS	0 019457	0 004206	000000 0	0000000	0 018867	0 022785	0 000000	0 032894	0000000
	CEMENT	000000 0	0000000 0	0000000 0	000000 0	0 000000	0000000	0000000	0 000000	0 000000

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ER COMMODITY SECTOR	ĸ	32	£	34	35	36	12	38	39 60	Ş
41 OTH NON HET MINERAL PRODS.	0.00000			0.000000	, .	0.000000	0.000000	0.000000	0.00000	0.000000
42 INCN 6 STEEL	0.00000			0.00000		0.00000	0.00000	0,00000	0.00000	0.000000
43 NON PERMOUS HETALS	0 000000			0.00000		0.00000	0.00000	0.00000	0.004481	0.00000
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SO PAIL EQUIPHENT	0.00000	0.00000.0	0,000000	0.000000		0.00000	0.000000	0.00000	0.000000	0.00000
51 MOTOR VEHICLES	0.000000	0.00000	0.000986	0.00000	0000000	0000000	000000	0 000000	000000	000000
52 OTHER TRANSPORT EQUIPMENT	0 000000	000000 0	0.00000	0 000000	0 00000	0000000	0.00000	0.00000	0.000000	0.00000
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55 ELECTRICITY ETC	0.00000	0.00000	0 000000	000000 0	0 000000	0000000	0 000000	0.00000.0	0.00000	0.00000
RAIL TRANSPORT 8	0 000000	0 000000	0 000000	0000000	0 000000	0000000	0 000000	000000 0	0.00000	0,00000
57 OTHER TRANSPORT SERVICE	0.00000	0.00000	0 000000	0 000000	0 000000	0 000000	0.000000	0.000000	0.00000	0000000
58 COMPTINICATION	0.00000	0.00000	0.000000	0 000000	0 000000	0.00000	0.000000	0 00000	0.00000	0.00000
S9 TRADE	0.00000	000000	0.00000	0000000 0	0 000000	0.00000	0.00000	0.00000	0.000000	0.00000
60 OTHER SERVICES	0.00000	0.000000	0 000000	0 000000	0 000000	0 000000	0.000000	0.00000	0.00000	0.00000

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ANNEXURE 1.8 IMPORT COEFFICIENTS 1996-97

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COMPOSITY SECTOR				•	****	RIKS				
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BUCLARCANE	0.00000.0	0.00000.0	0.000000	0.000000	0000000	0 000000	0.000000	0.000000	0.00000	0.00000
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	000000	0 003423	0000000	0.000000	0000000	0000000	0.00000	000000	0.000000	0.00000
CHUDE PETWOLEUM & N GAS 0	000000	0000000	000000	000000	000000	000000	0.00000	0.00000	0.00000	000000
TAILT MINESTS	00000	000000	0 022273	000000	00000	00000		00000	00000	00000
	080017	0.011735	0 002300	000000	0.00000	0.000000	0.000000	0.00000	0.00000	000000
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o ·		0.000000		000000 0	0 000000	0000000	0.00000	0000000	0.00000	0.000000
WOOLLEN TEXTILES 0	000000	0.00000	000000	0.000000	0.00000	0.00000	0.00000	0.000000	0.000000	0.00000
0 0	00000	000000	000000	000000	000000	000000	000000	000000	00000	00000
ó		0.00000	0.00000	0.00000	0.000000	0.00000	0.00000	0.000000	0.00000	0.00000
WOOD 6 WOOD PRODUCTS 0 C	000000	0.00000	0.000000	0.000000	0.000000	0.000000	0.00000	0.00000	0.000000	0.00000
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ER PRODUCTS		0.00000	0.000000	0.000000	0.000000	0.00000	0.00000	0.00000	0.000000	0.000000
	•	0.000000	0.00000	0000000	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000
PLASTIC PRODUCTS 0.0	0.00000	0.000000	000000	0.00000	0.00000	0.000109	0.000292	0,00000	0.00000	0.0000
		00000	00000		00000	00000	000000			
		000000	000000		00000	000000	00000	00000		
		0.00000	0.00000	0.00000	000000	0.00000	0.000000	0.00000	0,00000	0.00000
6 RESIN		0.00000	0.00000.0	0.000000	0.00000	0.00000	0.001755	0.000000	0.00000	0.000000
OTHER CHEMICALS 0.0	956100.0	0.001020	0.004420	0.00000	0.00000	0.000785	0.002632	0.00000	0.00000	0.002874
	- 1	. 000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.0000

ANNEXURE 1.8 IMPORT COEFFICIENTS 1996-97

				•	4	2 7 7 7				
SH COMPOSITY SECTOR	41 42	45	43	**	45	4	41	\$	\$	8
41 OTH NOW MET MINERAL, PRODS	0 002118	000000	0 000000	000000	000000	0	11,5000 0	00000	000000	000000
	0 000000	0 029221	0 000000	000000	0 024248	0 022761	0	000000	000000	008476
43 NON FERROUS METALS	0 001046	0000000	0 032263	0 000000	0 000000	0 002618	0 019421	0 004704	000000	000000
	0 000000	0000000	0 000000	0 000143	0 000000	0 00000	٥	000000	000000	000000
45 MACHINE TOOLS	0 000000	0 000000	0 000000	0 000000	0 005305	0 000026	٥	0 000000	0 000000	0 000000
46 OTH NOW ELECTRICAL HACH	0 001619	0 002022	0 000000	0 000000	0000000	0 02085	٥	0 000043	900000 0	0000000
	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0	0 020195	0 00000	000000
	0 000000	0000000 0	0 000000	0 000000	0 000000	0 000000	0	0 010811	000000	000000
	0 000000	0000000	0000000	0 002986	000000	0 000378	٥	0 007591	0 076380	0 004838
SO RAIL EQUIPMENT	0 000000	0 000000	0 000000	0000000	0000000	000000	•	0000000	0000000	0 011619
51 HOTOR VEHICLES	0000000	000000	0000000	000000 0	000000	000000	0.00000	000000	000000	00000
	0 000000	0000000	0 000000	0 000000	0	000000	0	0000000	000000	000000
-	000000 0	0000000	000000 0	0 000000	0	0 000000	0	000000	AF 1800 0	000000
•	0 000000	0 000000	0 000000	0 000000	0	0 000000	0	0 000000	000000	000000
	0 000000	0000000 0	0 000000	0 000000	0 000000	000000	0	0 000000	0 000000	0 00000
RAIL TRANSPORT S	0 000000	0 000000	000000 0	000000 0	0 000000	000000	0 00000	000000	000000	0 000000
	0000000	0 000000	0 000000	000000 0	0 000000	0 00000	٥	0 000000	0 000000	000000 0
	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	٥	0 000000	0000000	0 000000
59 TRADE	000000	0 000000	0000000	0 000000	000000 0	0 000000	0 000000	000000	000000	000000
60 CTHER SERVICES	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	ō	000000 0	0000000	0000000

ANNEXURE 1 8 IMPORT COEFFICIENTS 1996 97

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4 No. 656	0.0	0,00		00000		000000	0000000	000000	9		000000
* FOLDER		2000		200		00000		00000	,	200	
5 SUGARGINE		2000	000000	000000	200	000000		00000		3 6	
6 JULE	0000	20000	20 000 3	200	200	2000	000000	00000		38	
7 corton		301	ن :	000000	200	9 1 1 1	000000	000000	9 (2 6	000000
8 1E	0.000	00 000	000	000,000	200	00	000000	000000	9	3	00000
	0.00000	0000000	JCC200 0	0 000	0 0	00 000 1	000000	0 00000	0	8	000000
10 RUBBER	220220 2	0 000000	0 6700nn	000000 0	0000000	0 000000	0 000000	0 000000	0 000000	8	000000
and officers of the same	0.000	0000000	000000	000000	nonna n	000000	0000000	000000	000000	0	000000
TO THE WORLD	0000		2000	00000		0000	000000	000000			00000
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	2000000	000000	0000000	0000000	a coonup	200202	0000000	0000000	9	2 6	00000
	0.00000	0000000	0000000	0 000000	0 000000	0 000000	0000000	000000	9	9	00000
15 COAL 4 LIGNITE	0 000000	0000000	6 6	300003 0	0 000000	0 000000	0 000000	0 000000	0	9	000000
16 CRUDE PETROLEUM & N GAS	0 000000	0 000000	2 2 3 0	0 000000	0 000000	0 000000	0 000000	0 000000	0	8	000000
17 IRON ORE	0000000	0 000000	0 000333	0 000 0	0 000000	0 000000	0 000000	000000 0	0	90	000000
18 OTHER METALLIC MINERALS	000000	000000	0 000000	0 00000	0000000	0 000000	0000000	0 000000	0	00	000000
19 NOW HET & MINOR MINERALS	0000000	000000 0	0 180451	0 060292	0 000000	0000000	0000000	0 00000	000000	00	000000
	0 000000	0000000	000000 0	000000	0 000000	0000000	0 000000	0 000000	0 000000	8	000000
	0000000	000000 c	0 000000	0 000000	0 000000	0000000	0 000000	0 000000	000000	8	000000
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24 COLTON TEXTILES	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000	0	٥	00	. 000000
25 WOOLLEN TEXTILES	0000000	000000	0000000	000000	0000000	0000000	0 000000	0 000000	0 00000	9	000000
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30 PAPER & PAPER PRODUCTS	0 000000	0000000	0000000	0000000	0 000000 0	0 000000	0 000000	0 000000	0	0	002755
Carried China C C Company	000000	000000	000000	000000	000000	00000	00000	000000	•	5	000000
٠,,	0000000	000000	000000	000000	000000	0000000	000000	9	00000	38	000000
22 PUBLICA PRODUCTS	4150000	000000	0000000	000000	0000000	000000		9 0	0	98	
	000000	000000	000000	000000	000000	200000	00000	9		3 8	
	000000	0700000	0000000	0000000	0.000000	0 013275	0 02320 0	9 0	0	3 6	000000
	000000	000000	0000000	0 001624	0000000	000000	0000000	0	0	8	000000
	000000	0000000	0000000	0000000	000000	0000000	0000000		0	81	000000
PESTICIDES	0000000	000000	0000000	000000	000000	000000	000000	9	9	3	00000
SE STATEGIC FIRE & RESIN	0000000	000000	0000000	0000000	0000000	000000	0000000	000000	0	9	00000
O CHARACTERITORIS	000000	0000000	0000000	000000	000000	00000		000000		38	100000

ANNEXURE 1 8
IMPORT COEFFICIENTS 1996-97

					z H	DUST	RIES				
SN COMPOSITY SECTOR	15	52	6	53	ž	55	98	57	28	89	9
41 OTH NOW HET MINERAL PRODS	0 000000	0 000000	0 00031	0	001816	000000	000000 0	000000 0	0	0 000000	0000000
42 INON & STREL	0 023293	0 010981	0 017132	0	000	000000	0 000000	000000 0	0	0 000000	0 000000 0
43 NON FERROUS HETALS	0 006440	0 000000	0 372565	0	0 000000	000000	0 000000	000000	0	0000000	000000 0
44 TRACTORS & OTH AGRI HACH	0000000	0000000	0 300000	0	000	000000	0 00000	000000	0 000000	0 000000	0000000
45 HACHINE TOOLS	0 000350	906000 0	0 000002	٥	000000	000000	0 000000	0 000000	•	0 000000	0 000000
46 OTH NON ELECTRICAL MACH	0 010636	0 002989	0 00103	0	000	000000	0 000000	0 000000	0	0 000000	0 000366
47 ELECTRICAL MACHINERY	0 001696	0000000	0 001220	0	000	003572	0 00000	0 000000	٥	0000000	0 000000
48 COMMUNICATIONS EQUIPMENT	0 00000	0000000	0 000199	0	000	000000	000000 0	0 000000	0	0000000	0000000
49 ELECTROVIC EQUIPMENT	5 50,007	0.0000 0	696000 0	a	0 000001	0000000	0 000000	0 000000	0	000000	0 000750
50 RAIL EQUIPMENT	C 0C C"	0000000 0	0 000000	0	0 00000	000000	0 000000	0 000000	0 000000	0 000000	0000000
The second second second		- 000000									
51 MOTOR VEHICLES	C 0025.2	0.00000	0000000	0	000000	0000000	0 000000	0000000		000000	000000
52 OTHER TRANSPORT EQUIPMENT	0 00001	∪ 078532	0 000000	0	000000	0000000	0 000000	000000 0	0	0 000000	0 000000
53 OTHER MANUFACTURING	0 000000	0 004471	C 00917	Ç7	450	0000000	0000000	0 000000	0	000000 0	0 002951
54 CONSTRUCTION	0 000000	0 000000	0 000000	0	000000	0000000	0 000000	0 000000	0	0000000	0000000
	0 000000	000000 0	0 000000	0	000	000000	0 000000	0000000	0	0 000000	0000000
	0 000000	0000000 0	0000000	¢	000	000000	0 000000	0 000000	0 000000	0 000000	0 000000
57 OTHER THANSPORT SERVICE	0 000000	0000000 0	0 000000	0	000000	6000000	0 000000	C 016295	0	0000000	0000000
58 COMMUNICATION	0000000	0000000	0 000000	0	300000	000000	0 000000	0 000000	0000000	0000000	0000000
59 TRADE	0 000000	0000000 0	0000000	0	000000	0000000	0 000000	0 000000	0 000000	0 000000	0000000
60 OTHER SERVICES	0000000	000000 0	0 000000	0	000000	0000000	0.0000	0000000	0 000000	0 004734	0 001590

ANNEXURE 1.9
ANDET TRANSACTIONS 0.1991-92

IMPORT TRANSACTIONS AT 60 SECTORS 1991-92	COMMODITY BY INDUSTRY TABLES
	COMMODITY BY INDUSTRY TABLE

EN COMMODITI SECTOR		*	,	•				,		
1 PADDY										
2 werea										
2 OFTER PREATS										
TOTAL DESIGNATION OF THE PERSON OF THE PERSO										
Time of the control o				0	0 0	0	0	0 0	0	٥
9000										
7 corror										
9 COFFEE										
10 RUBBER										
13 FORESTRY & LOGGING										
16 Cuting personally a GAS										
18 OTHER RETALLIC MINERALS	0 0	0 0		0 0						
20 SUGAR										
adoon rate distinct to										
HYDROG										
23 OTHER FOOD 6 REVERAGE										
į										
29 WOOD & WOOD PHODUCTS	9 0	0 0	0 0	9 6				0 0		
30 PAULE & PAULE PRODUCES										
STEEDING REPETED AND PROPERTY				0			0			
33 PLASILC PRODOCES	0 0	0 0		0 0					0	0
PESTICIDES										
38 SYNTHETIC PIECE & RESIN										
40 CEMENT										

ANNEXURE 1 9
IMPORT TRANSACTIONS AT 60 SECTORS : 1991-92

COMMEDITY BY INCOSTRY TABLE

### Comparing activities 1					7 1	DUSTRI	1 8 8	INDUSTRE			
	COMMODITY SECTOR	1	2	ť	•	1	۰	1		•	2
	I OTH HOW HET MINERAL PRODS	٥		0 0					0 0		0
											9 0
											0
ENGLISH											
20000000000000000000000000000000000000											
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
EMPTICE											
6079 4 4133 1 1336 4 645 8 1276 9 41 4 1559 1 4 4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
6079 4 4159 1 1356 4 648 1276 9 47 4 1558 1 89 1 54 7 175 CONTA											
6079 4 6193 1 1356 4 649 0 1276 9 47 4 1599 1 69 1											
6079 4 4152 1 1336 4 649 8 1276 9 47 4 1558 1 89 1											
Contd	SI TOTAL	F 6009	4193 1	1356 4			47 4	1558 1	89 1	7	175 2
										8	ote

ANNEXURE 1 9
IMPORT TRANSACTIONS AT 60 SECTORS 1991-92

### WATER CARES 14 15 15 15 15 15 15 15	OMMONT SECTOR WILLS WILLS WILLIAN W	N 000000000 000000				
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THE STATE OF THE S	WINDER COUNTY CO					
TOTALE CERELAL STATES OF THE PROPERTY OF THE P	PULLES PU					
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OTTON THE CHOICE	OUTURE OU	00000 000000				
THE CONTROL OF THE CO	CONTROL TEAL CONTROL CONTRO	0000 000000				
COTTING COT	COTTEL COTTEL COTTEL COTTER CO	000 000000				
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THE STATE OF THE S	PERSONAL LOGGING PERSONAL LIGHTING CHOLD PRINCIPLE IN ROAS CHOLD PRI	00000				
THE STATE OF THE S	CONTRINCT LOCALION CONTRINCT LOCALION CONTRI ACTALLIA (N GAS 00 00 10 10 10 10 10 10 10 10 10 10 10	0000				
CADD. # STROMELMY A NAME OF COLOR AND ADDRESS OF CO	FIGURE 4 N GAS CHAIL F. LIGHTZ CHAIL F. LIGHTZ CHAIL F. HINGRALS SUMMER MT 4. HINGRALS SUMMER SU			-		
THEN COMES INTERCLIFING A N. CAS. THEN COMES INTER	COURT PITCOLON & N GAS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00				
THE CONTROLLED WINDOWS WASHERT FINISON MINISONA WASHERT FINISONA WASHARL FINISONA WASHERT FINISONA WASHERT FINISONA WASHERT FINISONA WASHERT FINISONA WASHERT FINISONA WASHERT FINISONA WASHER	TICH ORE MINISTALS ON HE HITCH HINERALS ON HE HINGE HINERALS SUGAR	0		-		
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MANUSARY INTERPRETATION NUMBERS AND ADDRESS AND ADDRES	NOW HET & MINOR MINERALS 0 0 0 8 UGAR 0 0 0					
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THIS PRODUCT STREET STR	Annual Bound					
CONTENT PRINTING FORMATION CONTINUES AND CON	HTDROGENATED OIL					
CONTENT WITH A PROPERTY AND THE PROPERTY	CIERR FOOD & BEATMONE					
WOLLEAN PRINTERS OF THE WAS AN AVERAGE AND	COLLON TEXTILES					
MARY ALLY AND MANAGEMENT OF THE PROPERTY OF TH	MODITEM TEXTILES					
WOTHER, MEANTY TAXILLES WOTH TAXILLES W	ART SILK & STNTHETIC FIRE 0 0					
PARTIES, MEANING, MEA	JUTE, HEND, MESTA TEXTILES 0 0					
WARTS & WOOD AT PRODUCTS WARTS FROM FROM FROM FROM FROM FROM FROM FROM	OTHER TEXTILES 0 0	0				
NAMENA & MANUEL PROCOCCES 1. LANCING C. LAN	WOOD & WOOD PRODUCTS 0 0	0				
Indicator Libertura Libe	PAPER & PAPER PRODUCTS 0 0	0				
HAMBIR PROCESS ONL TAKE PROCE	C C C CONTROL					
TATACTIC TREASE AVEINT COUNTY. 1. MATERIAL PRODUCTS 1. MATERIAL	networks sportered					
EXPENSION PRODUCTS ONLY TAXA PRO	The second secon					
OCHATAN PRODUCTS (2014) AN PRODU	DESCRIPTION AND PROPERTY OF THE PROPERTY OF TH					
### TREFILIZES	The Particular Particu					
ENTITIONES (MEST) STATE OF THE CONTROL OF THE CONT	COMP TAK PATROLIS					
PARTICIDATE PROPER PARTY OF THE CHARGE PARTY O	FERTILIZERO					
STATEMENT CHARLES A CASA A CAS	PERTICIONS					
CONTRACTOR OF THE CONTRACTOR O	SINTHETIC FIRE & KESIN OO					
and the same of th	CTHER CHEMICALS					
		,				

ANNEXURE 1.9
IMPORT TRANSACTIONS AT 60 SECTORS 1991-92

				z 		S)				
BN COMMODITY SECTOR		12	13	ž	14 15 16	16	11	17 18	13	20
41 OTB NOW NET MINERAL PRODS						c	0 0			
										9 (
	7 0	0 0	0	0	0			0 0		
46 OTH NOW ELECTRICAL MACH										
SO PALL EQUIPMENT									0	0
51 HOTOR UPBICIPE										
									0	
U										
55 ELECTRICITY ETC										
56 RAIL TRANSPORT SERVICE										
58 COMMUNICATION		0 0	0 0	0	5	0			0	
OU OTHER BERVICES							0	0	0	0
61 TOTAL 4541 7	4541 7	0	0	0	430	9	0 0	21.9	0 0	0 0
					c 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Contd	3

5 · 1991-92

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OTHER CHEMICALS						433	•		8	
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ANNEXURE 1.9
IMPORT TRANSACTIONS AT 60 SECTORS: 1991-92

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ANNEXURE 1.9
IMPORT TRANSACTIONS AT 60 SECTORS: 1991-92

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ANNEXURE 1.9
IMPORT TRANSACTIONS AT 60 SECTORS: 1991-92

COMMUNITY BY INCUSTRY TABLE

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ANNEXURE 1 9

	1991-92		************		
ANNEAUR I S	IMPORT TRANSACTIONS AT 60 SECTORS 1991-92			INDUSTRIES	
	IWI	COMMODITY BY INDUSTRY TABLE			

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ANNEXURE 1.9
IMPORT TRANSACTIONS AT 60 SECTORS: 1991-92

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	TOTAL	8515 0	15594 1		22 6				1921 1	1027 4	1433 2

ANNEXURE 1 9
IMPORT TRANSACTIONS AT 60 SECTORS · 1991-92

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KHANDSARI BOORA										
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ANNEXURE 1.9
IMPORT TRANSACTIONS AT 60 SECTORS: 1991-92

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52 OTHER TRANSPORT EQUIPMENT	0	6448 0	0 0	0				0 0	0 0	0 0
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60 OTHER SERVICES	0 0	0 0	0 0	0 0	0	0	0	0		2235 5
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ANNEXURE 1.9

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ANNEXURE 1.9 IMPORT TRANSACTIONS AT 60 SECTORS : 1991-92

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11 OTH NOW HET MINERAL PRODE	1722.7	737.3	0.0	20.9	2481.0
IRON 4 STEEL	24500.0	0.0	0.0	0.0	24500.0
NON FERROUS METALS	12980.0	0.0	0.0	0.0	12980.0
TRACTORS & OTH. AGRI. MACH.	50.5	0.0	0.0	49.4	100.0
MACHINE TOOLS	297.4	0.0	0.0	4638.6	4936.0
OTH. NOW ELECTRICAL MACH.	17085.5	2081.1	3629.3	102366.0	125162.0
ELECTRICAL MACHINERY	5153.5	2201.1	50.1	13496.1	20941.0
COMPUBLICATIONS EQUIPMENT	985.8	1672.2	117.8	3734.1	6510.0
FLECTRONIC EDUIPMENT	1450.8	17767.9	26.1	6615.1	25882.0
FLIL EQUIPMENT	797.0	0.0	0.0	1704.0	2501.0
MOTOR VEHICLES	707.9	1241.1	9.60.4	3570.5	6500.0
OTHER TRANSPORT EQUIPMENT	6478.0	0.0	42.6	19471.0	25962.0
OTHER HANDFACTURING	10533.3	10760.9	6580.4	5724.3	35599.0
CONSTRUCTION	0.0	0.0	0.0	0.0	0.0
ELECTRICITY ETC.	0.0	0.0	0.0	0.0	0.0
RAIL TRANSPORT SERVICE	0.0	0.0	0.0	0.0	0.0
57 OTHER TREESPORT SERVICE	7509 9	51689.3	3215 B	0.0	62615.0
SE COMPUNICATION	0.0	2051.2	483.7	0.0	2535.0
55 THALE	0 0	0.0	0.0	0.0	0.0
OTHER SERVICES	6505.9	33374.1	0.0	0.0	39860.0
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ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS 1996-97

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OTHER TEXT										
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COAL TAR PRODUCTS										
FERTILIZERS										
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ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS 1996-97

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COUNTY LIGHTS (1900)	00000			00000		0000	0000	88000
TIEM ORE TITUDENEN & N GAS OO	000 0			00000		0000	0000	88 0 0 0
TIGAN OF THE METALLIC HIPERALS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000			0000		000	000	0.0.40
OCHER METALLIC HIMERALS 0 0 0 0. NOW HET. & HIDRA HIMERALS 0 0 0 0. STADAR 0 0 0 0 0 0. HIMERACEAL BOORD 0 0 0 0 0. CHER FROM CAREAGE 0 0 0 0.	00			0 0 0		0.0	0 0	984.0
NOW RET. & MINOR HINERALLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	٥			0,0		0.0	0.0	684
SUZEAR WHANDEARL BOORA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0.0				0
KHANDEARI BOORA 0 0 0 0 0 HYDROGRANIED OIL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	٥					0.0	0.0	
NEWAYDEAR BOORA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
HYDROGENATED OIL 0 0 0.0 CTHER FOOD 4 BEVERAGE 0.0 0	0	0.0	0 0	0.0	0.0	0.0	0.0	0.0
OTHER FOOD & BEVERAGE 0.0 0	•	0.0	0.0	0	0.0	0	0.0	0.0
	ó	0	0	0.0	0.0	0.0	0.0	0.0
CONTON TEXTILES 0 0 0	•	0.0	0	0.0	0.0	0.0	0.0	0
WOOLLEN TEXTILES	٥	0	0.0	0.0	0.0	0.0	0.0	0.0
ART SILK & STATHETIC FIRST 0 0 0 0.	ó	00	0.0	0.0	0.0	0.0	0.0	0.0
THE WASTA TEXTILES D 0 0	o	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O 0.0 0.0 0	۰	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WOOD & WOOD DESCRIPTION OF D	0	0.0	0.0	0.0	0.0	0.0	0.0	0
PAPER & PAPER PRODUCTS 0.0 0.	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEATHER 6 LEATHER PRODUCTS 0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBBER PRODUCTS 0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
PLASTIC PRODUCTS 0.0		0	0.0	0.0	0.0	0.0	0.0	0.0
PETROLEUM PRODUCTS 0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
COAL TAR PRODUCTS 0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERTILIZERS 8723.8		0.0	0.0	0,0	0.0	0.0	0.0	0.0
4.685.4		0.0	0.0	0.0	0.0	0.0	0.0	0.0
STATHETIC PIERE & RESIN		0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER CHEMICALS		0.0	0.0	10.1	0.0	36.1	0.0	0,0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-					***************************************	***********		

ANNEXURE 1.10 IMPORT TRANSACTIONS AT 60 SECTORS . 1996-97

TABLE
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1
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RY THINDRED
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					DUSTR	1 E S				
SN COMMODITY SECTOR		12	22	1	14 15 16	91	17	17 18	19	19 20
41 OTH NON MET MINERAL PRODS	0				c	0				
	8 3								0 0	
45 MACHINE TOOLS										
50 RAIL EQUIPMENT		0	0	0	0 0		9 6	0 0	0 0	0 0
51 MOTOR VEHICLES										
54 CONSTRUCTION										
	00									
	0 0	0	0 0	0 0						
v										
	0 0									
60 OTHER SER ICES	0 0			0 0		0	0	0	0	0
				1						
61 TOTAL	9417 5 0 0	0	0 0	0 0	57.8	101	0	36 1	0 0	884 4

ANNEXURE 1.10
IMPORT TRANSACTIONS AT 60 SECTORS : 1996-97

TABLE	1
E	
Ħ	-

Participation Participatio											
March Marc	N COMMODITY SECTOR	12	22	2	72	25	26	27	58	59	ñ
Market Charles 0.0	- nathra	9 0	0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Market ClearLast	TOTAL TARGET		9	-	0	0	0	0.0	0	0.0	0.0
March Marc	A CAUDA CEDEBIS	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
March Marc	MILER	0.0	0.0	45.0	0.0	0.0	0	0 0	0.0	0.0	0.0
THE STATE OF THE S	E CITABOANE	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
Control Cont	1126	0	0.0	0.0	0.0	0	0	153.8	0.0	0.0	0.0
THE CONTENT OF THE CO	CONTROL	0	0	0	2266.0	0.0	0.0	0.0	0.0	0.0	0.0
OTTENTIAL MEMBERS OF THE PROPERTY OF THE PROPE				0	0	0 0	0 0	0	0.0	0.0	0.0
Market M	500			0	0	0	0	0.0	0.0	0.0	0
Company Comp		0.0	0.0	0	0 0	0	0	0.0	0.0	0.0	0,0
Comparison Com				;				6	ć	c	•
MATHON INTERPORTED TO THE PROPERTY OF THE PROP		0 0	9 0					9 6			
PRESENT FOR THE PROOF THE	_	2 1	9 6	7.697				9 6		4 6220	
FASHING COUNTY TOTAL PRINCIPLY THEORY EXPORTANT TOTAL PRINCIPLY TOTAL		0 0	9 6					0 0			
COURT LITERITY A NOTE OF COURT		0 1	91	9 6							
Charles Francisco Franci		0 4	0.0	0 0							
Manual Activation Manu		0	9 6	9 (9 0			
Comparison Com				0 0				9 0			
New York Find filtered. 10 10 10 10 10 10 10 1			9 6	9 6						0	1317
March Salar Incora.		0	0	0				0 0	0.0	0.0	0
New New New New New New New New New New New New New New New New											
PRINCE SECURITY STATES OF THE PROPERTY STATES		0	0	0	0	0	0	0.0	9	9 (5
OTHER PRESENTATION 15 TO 1		0.0	0.0	6	0.0	0	0	0	9	9	9
OCTION TATELLES OCTION		0	0.0	736.5	18.0	0	0	0	0.0	0	0
WOULDEN PETITIZE ON FOR SING STATES ON FOR S		0.0	0.0	0.0	263.8	0.0	0	0.0	0.0	9	0
AMERICAL STRUCTURES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0.0	0.0	0.0	0	352 9	0.0	0	141.3	0	0
ADMINISTRATILES OF		0.0	0	0.0	90.3	0	936 8	0.0	148.5	0.0	0
OTHER PETTINS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0	0.0	0.0	0.0	0	0	183,5	0.0	0	20
NAME		0.0	0.0	0.0	0.0	0	0	45.7	0.0	3.1	15.7
PARTIE (PARTIE PRODUCT): 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.3	o
LANTHER PROJECTS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	
MARKITC PRODUCTS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
PARTICLE TREACCTS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
PREPALATING COLORS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0.0	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0
COALTRIBUTES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
PRINTINGENERAL 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
PRETICEDES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0
SENTINETIC FIRST RESIN 0.0 0.0 0.0 1479.8 15493.0 0.0 2488.2 0.0 0.0 1025.5 SEGUES 1659.4 0.0 624.1 0.0 88.3 33.4 0.0 624.1 0.0 624.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
OTHER CHYMICALS 0.0 1025.9 589.5 1899.4 0.0 624.1 0.0 88.3 31.6 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	STATEFAIL FIRE	0.0	0.0	0.0	0.0	1479.8	15493.0	0.0	2488.2	0.0	ö
Trigogram		0.0	1025.9	589.5	1699.4	0.0	624.1	0.0	88.3	31.6	815.0
		0.0	0.0	0	c	•	0	0	c	0.0	2

Contd

27-13/PC/ND/95

ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS: 1996-97

					4 0 0	0 4				
N COMMODITY SECTOR	21 22 23	22	23		24 25 26	26	27	28	29	93
AT ONE NOW YEST MINERAL PROCS		0 0	126.1					٥		0
2 IBON C STEEL		G								٥
3 NOW PERSONS METALS	0	0	0	0	0	0	0	0	0	0
4 TRACTORS & OTF AGRI MACH		0 0	0 0							0
5 MACHINE TOOLS		0								
6 OTH NOW ELECTRICAL PICH		0								
7 PLECTRICAL MACADE NO.		0								
		0 0								
PERCHAPTED NO. 1		0								
SO RAIL EQUIFNENT		0								
SHIDINAN MORON II										
T CEAL TRANSPORT TALL TO CO										
CA OTHER MEMBERS. IN	0	0	0	0	0	0	0	0	0	0 0
A CONSTRUCTION										
S PRETRICING FT.										
S6 RAIL TRANSPORT OF, "CE										
57 OTHER TRANSPORT CENTURE										
60 OTHER SERVICES										
61 Towasi.	330.2	1025 9	2727 1	4337 6	1832 8	17054 9	362.9	2866 4	9616 0	2591 9

ANNEXURE 1 10
PORT TRANSACTIONS AT 60 SECTORS 1996-97

a a a a a a a a a a a a a a a a a a a	
	0 N 1 X 1

N COMMON Y SECTION	33	35	33	Ť	3	5	,	3	ñ	
										0
PADCT										
WIEAT	0									
OTHER CEREALS	0									
DIT.SPS	0									
THE PARTY OF THE P										
TIME I				0	0	0 0	0	0	0	0
100										
507.03										
TEA TOTAL	•									
COFFEE	0									
O RUBBER	0	-								
OTHER CROPS	0									3 1
ANTHAL H.ST. PLY	2									
	,									
6 CHUDE PETROLLON & N CAS	0 0 0		0 1	10000	٠.	0 0				
	ن									
OTHER METALLIC MINERALS	o								٠,	
NOW HET & MINOR HINERALS	6									
20 SUGAR	0									
KHANDSARI BOORA	0									
22 HYDROGENATED OIL	0							0	0	
OTHER FOOD & BEVERAGE										
MODIFIER TE										
ARC STILK +	0									
JUTE, REMP MESTA TEVTILES	٥									
DIRER TEXT	0									
	c									0
	000	0	0 0	0 0	0 0	0 0	0			0
LEATHER & LEATHER PRODUCTS	•									
	0 26									
•										
PESTICIDES	٥	٥.	5							
		٥.								
39 OTHER CHEMICALS	990 8 2347	on o	213 5	0 0	0 0	7 1507	707	9 0	7/57	
The state of the s										

ANNEXURE 1.10
IMPORT TRANSACTIONS AT 60 SECTORS: 1996-97

				2	INDUSTRI	1 2 5				
N COMMODITY SECTOR	32	32	33	34 35	35	36	7.6	æ	A	9
and the same and the same of the same and th	0	6	0						0	0
COTH NOW MET MINISTER PROUS	9 0	0 0	0 0	0	0	0	0	0	0	00
12 John a patrict	0 0	0	0						1685 5	0 0
A MAN TENNOON TO THE PARTY AND THE		0.0	0						0	0
a precious a ora note		0	0						0	0
A DESCRIPTION OF THE PROPERTY AND A SECOND OF THE PROPERTY AND ASSESSMENT OF THE PROPERTY A	180 6	87.7	43.4						725 2	282 1
	0	c	0						0	0
A CONCESSION OF THE PARTY OF TH		0	0						00	0
COMPONICATIONS ECOLOGIS	0 0								0 0	0
49 ELECTRONIC EQUIPMENT	0 0		0 0						0	0
	,									
TOTAL STATUTES	a	0 0								0
		c								
A COURT PASSED AND ENGINEERS		0								
	. c	0								
24 Constitution	-	0								
				0	0	0	0	0 0	0	
	ت ر د	0								
		٥								
		0								
	, c	0								٥
The state of the s	3,36	2173 4	15484 A	43937.9	27.4	9 502 6	729 0	659 0	0 22156 8	7879 3

ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS 1996-97

	INDUSTRIES
COMMODITY BY INDUSTRY IABLE	

COMMODITY SECTOR	;	ž	•	;	2	9	•	•	49	2
PADDY		-		-				- CHEST OF STREET		
- Contract		0	0	0	0	00	0	0	0	
-									0	
OTHER CENTALS									0	
PULSES									0	
STRUMBULL &									0	
2 J. F.							0	0	0	
15.00										
12									9	
COFFEE									0	
RIBBER	0 0	0 0	000		0 0	0 0			0	0
				,		c			6	•
2	5									
FORESTR . LOGGING	0									
TIME	a									
001 1 1 1011 10										
Charles principles to the										
THOUSE PERSONAL PROPERTY AND A PROPERTY OF THE PERSONAL PROPERTY OF THE	,									
CHON ORE	0									
OTHER METALLIC MINERALS	0									
							0			
SUCAR	0 0	0 0	0 0	0 0		cı		0		
										4
KHANDSARI BOORA										0
HYDROGENATED OIL							0			0
OTHER FOOD 6 BEVERAGE										0
COLTON TEXTILES										0
										0
The error of the state of the state of										
THE PERSON NAMED IN COLUMN										
DOLE HEMY, MESTA TEXTILES										
۰										
HOOD 6 NOOD PRODUCTS										0
PAPER & PAPER PRODUCTS	0 0	0 0	0 0	0 0	0 0	0 0		00	9 0/	٥
	9					9				
PLEASER PRODUCES	0					0				
PLASTIC PRODUCTS	•					27 2				
PETROLEUM PRODUCTS	0 0	0	0	00	00	0	1832 3	00	0	0
DAL TAR PRODUCTS	c					0				
PERTILIZEDS						0				
PESTICIDES										0
Manager of Contraction										
STREET, STATE BURNEY						9 1	7 570			
VINEA CHANICALS						195 6				
CEMENT	0					0	0			

ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS 1996-97

				Z H	INDUSTRIES	N N				
	5	41 42	Ę	\$	45	46	÷	48	44 45 46 47 48 49 50	80
11 OTH NOW MET MINERAL PRODS	258 5	0 0	0 0	0 0	0	0	0 69	0 0		٥
42 INCH & STEEL	0	14763 6	0		950 0	5673 3	3465 4	0		601 3
13 NOW FERROUS METALS	127 7	0	23.33 6	0 0	0 0	652 3	5800 4	454 8		0
	0	0 0	0 0	80	0	0	0	0	0	٥
	0	0	0 0	0	207 8	9	0			0
46 OTH NOW ELECTRICAL MACH	197 6	1021 6	0		0	5196 4	544 5	4 2		٥
7 ELECTRICAL MACHINERY		0 0	0 0		0	0	2253 7	1952 4	0	•
	0	0	0			0	114 1	1045 2	0 0	o
			0	175 7	0	46	1204 2	733 9	6509 4	343
SO RAIL EQUIPMENT	0		0	0		0	0	0	0	824
HOTOR VEHICLES	0	0 0	0	0	0	0 0		0	0	٥
OTHER TRANSPORT ECUIPMENT			٥	0					0	0
			0	0 0					693 4	
	0	0	0	0	0	0	0	0	0	0
			0	0					0	
			0	0						
57 OTHER TRANSPORT SERVICE			0	0 0						
B COMMUNICATION			0 0	0					0	
			0	0						
D OTHER SERVICES	0	0 0	0 0	0		0	0 0	0	0	
61 FOREST	0 88501	24126 7	6 92.89	2 781	0	9 67011		7 0007	F 0004 + 1004	1623

ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS 1996-97

				•						
SN COMMONITY SECTOR	51	52	53	3	28	Š	57	82	93	90
1 DATHOY										
S OTHER CENTURE										
egeno.										
5 SUCARCANE					0 0		0 0			0 0
e Juli										
7 COLLON										
A TEA										
4 COLDER										
10 11222	0	0	0 0	0	00					
11 Ortuge Choose		0 0	0 0	0 0	00	0	0	0	0	0
12 Donnersky c 1000180										
13 COMP & PIGNITE										
19 NOW MET & HINGR MINERALS										
21 KRANDSARI BOORA										
		-								
100					0	0	0	0	0	0
3										
STATE IN		-								
		-								
29 NOOD & NOOD PRODUCTS										
30 PAPER 6 PAPER PRODUCTS	0 0	0	0							
parotrayge deligran y descured to	•									
										0
_										
_										
36 FERTILIZERS										
PESTICIDES										
38 STATHEFIC FIBRE & RESIN										0
39 OTHER CHEMICALS	193 5	239 2	767 3	0	0	0	0	0	0	8611 0
40 CENERAL		00		498 9						0
									ō	Contd

ANNEXURE 1 10
IMPORT TRANSACTIONS AT 60 SECTORS 1996-97

					00818	. H M S				
SN COMMODITY SECTOR	ន	52	;		54 55 56	9.6	57	99	59	9
OTH NOW MET MINERAL PRODS	0 0	0	105 4	1659 3	0	0			0	0
'2 IRON & STEEL	4734 3	1124 6	5750 4			0			0	0
3 NOW FERROUS METALS	1308 9	0	4227 5	0 0	0	0	0 0	0		0
14 TRACTORS & OTH AGRI MACH	0 0	0 0	0 0							0
5 HACHINE TOOLS	71 1	92.7	0 7	0 0						
A OTH NON ELECTRICAL MACH	2161 8	306 1	348 7							73.9
47 FLECTRICAL MACFINERY	326 4	0	409 5							0
" COMPANY CATIONS ECUIPMENT	0		268.2	0 0						c
C ELECTRONIC EQUIPMENT	0		332 0	0						1474
AND RAIL EQUIPMENT	0 0	0 0	0 0	0 0		0	0	0	0	0
51 MCTOR VEHICLES		0 0	0 0		0					0
52 OTHER TRANSPORT EQLIPMENT		8042 9	0 0	00						0
OTHER MANUFACTURING		457.9	5 B_0≥							5800
" A CONSTRUCTION			0							0
			0							0
" HAIL TRANSPORT SERVICE	0	0	0 0	0	0	0	0	0	0	0
			0 0							0
A COMMUNICATION			0							0
		0	0							0
60 OTHER SERVICES			0						5731 9	3125 2
			-							-
61 10741	6777 5	10263 5	15940 6	59712 1	1645 4	2854 7	31877 8	0	5731 9	25585 4

ANNEXURE 1 10
MPORT TRANSACTIONS AT 60 SECTORS : 1996-97

	I USE	I USE PUT CONS PUB CONS GF INV	CONS	G F INV	TOTAL	
PADDY		446 4			449 3	
MRAT	8	206 8			215 6	
CHREATS						
PULSES		5978 9				
CHADOME						
TIME					153 7	
NOTION	2266 0					
431						
CORPER	0 0	00	00	0 0	0 0	
RUBBER	90 1					
distant	6 1 13				9273 0	
JIRER CROPS						
ANIMAL HUSBANDKI	2000					
FORESTRY 6 LANGING						
FISHING	2					
COMI & LIGNITE						
CAUDE PETROLEUM & 11 GAS	43881 4	0			43881 4	
IRON ORE						
OTHER HETALLIC MINERALS	1778 8	0 0	0	0	1778 E	
NOW MET & MINOR MINERALS						
SUGAR	0	200 0			200 0	
KHANDSABI BOORA	0	0 0			0 0	
umpoceuanen ort.	4	219 9			227 7	
OFFITE TOOL & STUTESTOR	1094					
CONTROL STATES					1076 7	
SATIFICATION	494	1056 8	0	0 0	1551 0	
ART SILK & SYNTHETIC FIBRE						
JUTE BEMP MESTA TEXTILES						
OTHER TEXTILES		3570 9	58 0			
ACOUNT MOOD PRODUCTS		0 0			856 2	
PAPER & PAPER PRODUCTS	5513 6	7892 7				
Simple dantes; 5 dantes	1292 4	c		0 0	1292 4	
Marine a propose	4 9 4 4				1429 3	
THESE PRODUCES	100	242			1068 2	
PLACE IN PRODUCED	3 32 12					
PETROLEUM PROUCES	2110					
COAL TAK PRODUCES	1007					
PERTILIABRA	2000	0 0				
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
SYNTHETIC FIBRE & RESIN	35527 3		9			
PER CHEMICALS	35365 6	0 0			9 000	

ANNEXURE 1 10
PORT TRANSACTIONS AT 60 SECTORS 1996 97

SECTORS	
9	
RANSACTIONS AT	
IMPORT T	4707.6
	TATALISTO
	' na '
	٠

	I USE PVT		CONS PUB	2000	O P INV	TOTAL	
41 OTH NOW MET MINERAL PRODS	2213 5	318		c	23.8	2556 7	
42 IRON & STEEL	37061 0	c				200	
43 NOW FERROUS METALS	165BD 7					200	
44 TRACTORS 6 OTH AGRI MACH	43	•		0 0	9	09697	
45 MACHINE TOOLS	13.5	•		> 0	200	101	
66 OTH NOW STOCKED LAND		1	٠	9	6118 2	6224 9	
	12683 1	200		34 6	178203 9	196721 7	
	631B 2	1487		127 6	31481 7	39414 9	
٠.	1427 4	483	_	8 991	6506 6	8584 3	
49 ELECTRONIC EQUIPHENT	10867 0	42868		39 8	6365 3	60140 6	
DO MAIL EQUIPMENT	824 3	0	٥	0	3105 8	3930 1	
	795 1	2604	e	387.0	7.474 7	9 0300	
	8042 9	0		9	2 09926	0 0000	
	10441 7	6550		6676 3	6489	2000	
	0 0	٥				0.00	
	0	200				2	
	0			0 0	0 0	0 000	
	11341 2	100286	٠	4549 6		2,961,911	
	0	4017		684 3		4201	
20 TRADE	0 0	0		0	0		
60 OTHER SERVICES	8857 1	65175	٥	0	0	74032 1	
61 TOTAL	487985 1	338077 6		20 5	269922 7	30420 5 269922 7 1126405 B	•

ANNEXURE 1 11
IMPORT TRANSACTIONS AT 11 SECTORS 1991 92

COMMODITY BY INDUSTRY TABLE				н	RDUSTRIE	11 12 13		1		
SN COMMODITY SECTOR		2	6	•	10	٠		•	•	2
	0000			0000	3000 6 6214 0 0 0 81863 9	50557 1	0000	0000	0000	
BANGFACTURING ELECTRICITY ETC CONSTRUCTION RALLMAT TRANSPORT OTHER TRANSPORT 10 COMMUNICATIONS	00000	00000	00000	100000			00000	00000	7509 9	00000
11 OTHER SERVICES 12 TOTAL	20021 9	0 0	0 0	0 0	0 0	53531 6	2234 0	0 0	27395 5	0 0
										Conta

ANNEXURE 1 11
IMPORT TRANSACTIONS AT 11 SECTORS 1991 92

INDUSTRE TABLE
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COMMUNITY OF TRANSPORT VARIETY	11 I USE PVT CONS FUB COMS G P INV TOTAL	0 0	0 00 00 00 62140	36 7 00 00	00 00	78673 8 21800 B 161792 D	00 00			51889 3 3	0 0	9 33374 1 00 00 398800	
	1 081	3111	6214 0	3 3	132421	207943 4	0	•	•	7509 9	0	6202 8 6202 9	
TABLE	rı	330 8	0 0	3 3	0 0	17098 8	00	0 0	0 0	0 0	0 0	6 202 9	6011
COMPANIE DE L'ACOSTRE PARLE	SPR COMMODITY SECTOR	1 MARCHITUME 11450 9	2 FORESTRY & LOGGING	3 PISHING	4 HINING & CUARRYING	5 MANUFACTURING	6 BLECTRICITY ETC	7 CONSTRUCTION	8 RAILWAY TRANSPORT	9 OTHER TRANSPORT	10 COMMUNICATIONS	11 OTHER SERVICES	10 =00011

ANNEXURE 1,12 IMPORT TRANSACTIONS AT 11 SECTORS:1996-97

				-	INDUSTRIES	R 1 E S				
SN COMMODITY SECTOR	1 2 3 4 5 6 7 8 9 10	7	9	~	90	٠	,			2
	0.0	0	0.0	0.0	3935.7	0.0	0.0	0.0	0.0	0
2 FORESTRY & LOGGING	0.0	0.0	0.0	0	9333.7	0	0	0	0	0
3 FISHING	0 0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0.0	0
MINING & QUARRIING	0.0	0.0	0	0.0	146282.2	55089 6	0.0	0.0	0.0	0.0
S HANDEACTURING	29309.4	0.0	0	104 0	169572.7	4622.5	3645.4	2894.7	20536.6	0.0
S ELECTRICITY ETC.	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0.0	0
CONSTRUCTION	00	0 0	0 0	0	0	0	0.0	0.0	0.0	0.0
S RAILWAY TRANSPORT	00	0	0	0	0.0	0	0.0	0,0	0.0	0.0
OTHER TRANSPORT	0.0	0	0 0	0	0.0	0	0.0	0,0	11341.2	0.0
COMMUNICATIONS	0	0.0	0 0	0	0.0	0	0.0	0.0	0.0	0.0
11 OTHER SERVICES	0 0	0.0	0 0	0	0	0	0.0	0.0	0.0	0.0
12 TOTAL	29309 4	0	0	104 0	104 0 329124.3	59712 1	3645 4	2894.7	29309 4 0 0 0 104 0 329,24,3 59712 1 3645 4 2884,7 31877.8 0.0	0.0

ANNEXURE 1 12 IMPORT TRANSACTIONS AT 11 SECTORS 1996 97

	EN COMMODITY SECTOR 11 I USE PVT COMS PUB CONG G F INV TOTAL													
	TOTAL		19541 4	9333 7	82 8	201371 B	700666 1	0	200	0	116176 8	4701 3	74032 1	30420 5 269922 8 1126406 0
	G F INV			0	0	0	269922 8	0	0	0	0	0	0	269922 8
	PUB CONS		6 7	0 0	0	0	25179 9	0	0	0	4549 6	684 3	0	30420 5
	VI CONS		15443 7	0	78.9	0	152577 0 2	0	200		100286 0	4017 0	65175 0	338077 6
	11 I USE PVT CONS PUB CONS G F INV		4091 0	9333 7	3 9	201371 8	252986 4	0	0	0			1 4588	31317 4 487985 2 338077 6
1	11		155 3	0	e m	0 0	22301 0	0 0	0 0	0	0 0	00	8857 1	31317 4
THE PARTY IN THE PARTY IN THE	SIN COMPOSITY SECTOR	a se contract and the contract of the contract	1 AGRICULTURE	2 PORRETRY & LOGGING	3 FISHING	4 MINING & QUARRIING	5 HANDFACTURING	6 ELECTRICITY ETC	7 CONSTRUCTION	8 RAILWAY TRANSPORT	9 OTHER TRANSPORT	10 COMMUNICATIONS	11 OTHER SERVICES	12 TOTAL

STRUCTURE OF IMPORTS: 1991-92

Control								
NATIONAL	MANATA 100 00 00 00 00 00 00 00 00 00 00 00 00		CTOR	INTER- MEDIATE USE	PRIVATE CONSUM- PTION	GROSS FIXED INVES- TAGNT	PUBLIC CONSUM- PTION	TOTAL IMPORTS
WILLIAM COLUMN	Name		PADDY	00 00				
Column C	PULLER CHEALS 00 00 00 00 00 00 00 00 00 00 00 00 0	. ~	WEAT	-			-	
STOCKALANE CO. 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STATES CO. 0.0 CO. 0		OTHER CEREALS					00 00
Control Cont	STATE STAT	_	PULSES					
December	TOTATE OUTPET OUTPET		SUGARCANE					00 00
Charge C	COTTON CONTINUE TO THE TOTAL T		JULE					
Company Comp	Color Colo		COTTON					
Control Cont	Colorest		12			-		_
Name	MIRAL MESSAGENY MIRA MESSAGENY MIRAL M	•	COFFEE					-
Compact Comp	TOTAL TREATMENT OF THE PROPERTY OF THE PROPERT	_	ROBBER					
Million Mill	MINION MARKANING 10 10 10 10 10 10 10 1	_	OTHER CROPS			_		66 00
COUNT & LIGHTING COUNT & COUNTY & LIGHTING COUNT & COUNTY & LIGHTING COUNT & COUNTY & LIGHTING COUNTY & CO	CONT. LOSTING CONT. CO	~	ANTHAL HUSBANDRY			-		
Company Comp	CHORD STREET,	_				-		
COUNT CHARITY CHARIT	COMAL # LINEAR		FISHING					
CHARL NETALLIC FINESA 10 50 50 50 50 50 50 50 50 50 50 50 50 50	CHARLES WORKERS TO THE STATE OF							
STATE STAT	Part		•					
MUNICATION WITHOUT TO THE PROPERTY OF THE PROP	COLUMN C		IRON ORE					00
NOW MAY E ALTINON HINEDAN 19 06 010 00 00 00 00 00 00 00 00 00 00 00 00	Name	_	OTHER HETALLIC MINERAL					
MANUAL PROPERTY MANUAL PRO	MAGNAL HORSENATOR OF THE PROPERTY OF THE PROPE	_	NOW MET & MINOR HINERA					
NUMBERSH	MANDEALE TOORAL MANDEALE TOOLAL MANDEALE MAN	_	SUCCEAR					
VINCENDENT DILLER VINC	CONTINUES AND STATEMENT CONT	_	KHANDSARI BOORA					000
OTHER PROFILES OTHER PROFILES APP SILE STRUCTOR APP SILE STRUCTOR OTHER PROFILES OTHER OT	WINTER PROPERTY WAS ARRESTED W	٠.	HYDROGENATED OIL					
COTTON PARTILLES COTTON PART	COTTON TEALS. WOCHTHAN TEATILISS WOCHTHAN TEATILISS WOCHTHAN TEATILISS WOCHTHAN TEATILISS WOOD & WOCHTHAN TEATILISS WOOD & WOCHTHAN TEATILIS WOOD WOOD WOOD WOOD WOOD WOOD WOOD WOO		OTHER FOOD & BEVERAGE					
WESTIAN TATILISES 000 00 00 00 00 00 00 00 00 00 00 00	WOOLINE TRITLESTIC W. 240	_	COTTON TEXTILES					
APP SILES ASSESSED SENSOR SENS	### SILE AFFIRENCE OF 02 54 01 27 00 00 00 00 00 00 00 00 00 00 00 00 00		WOOLLEN TEXTILES					00
UTILE SIEN MERCEN TATATIL UTILE SIEN MERCEN TATATIL UTILE SIEN MERCEN TATATIL UTILE SIEN SIEN MERCEN UTILE SIEN SIEN SIEN SIEN SIEN SIEN SIEN SIE	TITE, REPAIRST PETRIT 10 00 13 00 00 00 00 00 00 00 00 00 00 00 00 00		ART SILK & SYNTHETIC F					
OFFIEX TYPE 100 101 101 100 10	NUMBARY PRINCIPATION NO NO NO NO NO NO NO	_	JUTE, BEMP, MESTA TEXTIL					_
WOOD FACE WOOD	WOOD 6 WOOD 7500CTS 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_	OTHER TEXTILES					00 33
DATE A PAREN MONCHTS 10 0 0 0 0 14	APPRILE A PRINCE PRODUCTS 01 00 00 00 00 00 00 00 00 00 00 00 00		WOOD & HOOD PRODUCTS					_
LANUARE LANUARE PROD. 01 18 00 00 00 00 00 00 00 00 00 00 00 00 00	LANTERS, LANTERS PROD. 00 10 00 00 00 00 00 00 00 00 00 00 00	_	PAPER & PAPER PRODUCTS					01 54
MARRIE NEGOCITYS	VARBER, PRODUCTS 00 06 00 14 00 25 00 00 00 00 00 00 00 00 00 00 00 00 00		4 LEATHER					-
PLASTIC PREDUCTS	ALTANICA PRODUCTS	•	RUBBER PRODUCTS					
PETROLICES 07.14 10.30 00.00 01.05 10.00.00.16 10.00.00.18 10.00.00.00.00.00.00 10.00.00.00.00.00 10.00.00.00.00.00 10.00.00.00.00 10.00.00.00.00 10.00.00.00 10.00.00.00 10.00.00.00 10	PETROLICAR PRODUCTS 07 14 10 30 00 00 115 13 13 13 13 13 13 13 13 13 13 13 13 13	_	PLASTIC PRODUCTS					
CONT. TAR PRODUCTS	OCAL TAN PRODUCTS 00 23 00 00 00 00 00 00 00 00 00 00 00 00 00	_	PETROLEUM PRODUCTS					
FERTILIZERS 051 000 00 00 00 00 00 00 00 prescriptes 00 38 00 00 00 00 00 00 00 00 00 00 00 00 00	FERTILIZES 0.511 0.00 0.00 0.00 0.00 0.00 0.00 0.0		COAL TAR PRODUCTS					
PRESTICIDES 00.38 00.00 00 00 00 00 00 00 01 01 01 01 01 01 0	PRESTICIDES 6 00 38 00 00 00 00 00 00 00 00 00 00 00 00 00		FERTILIZERS					
SYNTHETIC FIBRE & PESI 12 61 00 00 00 00 00 00 00 00 01 07HER CHEMICALS 06 64 04 39 00 00 01	SYMPHETIC FIRSE & PEST 12 61 00 00 00 00 00 00 00 00 00 00 00 00 00		PESTICIDES					
OTHER CHEMICALS 06 64 04 39 00 00 01	OTHER CHEMICALS 06 64 04 39 00 00 01 13 CEMENT	_						06 30
	CEHERAT 00 01 00 05 00 00 00 00	_	OTHER CHRICALS			-		
CEHENT 00 01 00 00 00 00		_	CEMENT	-	00 00	-		00

INTER PRIVATE GROSS PUBLIC TOTAL ANNEXURE 1 13 STRUCTURE OF IMPORTS 1991-92

ě		HEDIATE USE	CONSUM-	FIXED INVES-	CONSUM- PTION	INPORTS	
		•		THENT			
Ç	OTH NOW MET MINERAL PR	Ç	8				
42	IRON & STEEL	06 74	00 00	00 00	00 00		
63	NOW FERROUS METALS						
ŝ	TRACTORS & OTH AGRU MA						
45	HACHINE TOOLS						
46	OTH NON ELECTRICAL MAC						
ç	ELECTRICAL MACHINERY						
48	COMMUNICATIONS EQUIPME						
49	ELECTRONIC EQUIPMENT						
Š	RAIL EQUIPMENT						
27	HOTOR VEHICLES						
25	OTHER IRANSPORT EQUIPH						
23	OTHER MANUFACTURING						
24	CONSTRUCTION						
55	ELECTRICITY ETC						
26	RAIL TRANSPORT SERVICE						
23	OTHER TRANSPORT SERVIC						
29	COMMUNICATION						
30	TRADE						
9	OTHER SERVICES					05 47	
Ş	Total	000	100				
3	Total Control		20 001	100 00	100 000	100 00	

ANNEXURE 1 14 STRUCTURE OF IMPORTS 1996-97

BECTOR	æ	INTER- HEDIATE USE	PRITATE CONSUN- PTION	GROSS FIXED INVES- THENT	PUBLIC CONSUM- PTION	TOTAL
"	ADDY	00 00	00 13	00 00	1 -	•
-	DEAT	00 00	-			00 05
٥	OTHER CENEALS	00 00	00 00		00 00	
-	PULSES	00 01		_		
- 53	SUGARCANZ	-	00 00	00 00		
	JUTE	00 03	_		-	
J	OTTON	94 00	-			00 50
44	2	_	00 00	_	00 00	
٥	COFFEE	00 00	-	-		
14	RUBBER	-	_			
٥	THER CROPS		69 00			
•	ANIMAL RUSBANDRY	00 12	01 92	00 00	00 05	
14	FORESTRY & LOGGING	-				
-	FISHING	_		90 00		
	COAL & LIGHTTE				00 00	
0	CRUDE PETROLEUM 6 N GA			00 00		03 90
_	RON ORG	00				
٥	OTHER METALLIC MINERAL	96 00	00 00	00 00	00 00	
~	YON HET & HINOR HINERA					13 67
'n	SUGAR		00 15			
*	KHANDSARI BOORA	00 00	00 00	8	00 00	
-	HYDROGENATED OIL		90 00	00 00		
0	THER FOOD 6 BEVERAGE				00 05	07 03
٥	COLTON TEXTILES	-				
*	POOLLEN TEXTILES		00 31	00 00	00 00	
	ART SILK & SYNTHETIC F					
•	TUTE HEAD MESTA TEXTIL	00 00	00 00		00 00	00 05
	OTHER TEXTILES	-	03 06		61 00	
-	HOOR & WOOD PRODUCTS	00 28	00 00			
	PAPER & PAPER PRODUCTS					
-	LEATHER & LEATHER PROD			00 00		00 11
~	PURBUR PRODUCTS	-	90 16			
	PLASTIC PRODUCTS	00				
-	PETROLEUM PRODUCTS		18 27			08 79
٥	COAL TAR PRODUCTS	00 30	00 00			
-	FREILIZERS					
۵	PESTICIDES	00 42	00 00	00 00	00 00	00
o	SYNTHETIC FIBRE & RESI	07 28				
٥	OTHER CHEMICALS	07 25	01 68	00 00	01 34	03 68
•	Trans.		00 00	-	-	8

ANNEXURE 1 14 STRUCTURE OF IMPORTS 1996-97

ł						(Percent)
25	SECTOR	INTER- MEDIATE USE	PRIVATE CONSUM- PIION	GROSS FIXED INVES- THENT	PUBLIC CONSUM- PTION	BLIC TOTAL NSUM- IMPORTS ION
2	OTH NOW HET MINERAL PR	00 45		00 07	00 00	00 23
42	INON & STEEL	07 59		00 00		03 29
£	NOW FERROUS METALS	-		00 00		
44	TRACTORS & OTH AGRI MA	00 01	00 00	00 05	00 00	00 01
45	HACHINE TOOLS					
46	OTH NOW ELECTRICAL MAC	02 60				
47	ELECTRICAL MACHINERY					
9	COMMUNICATIONS EQUIPME					
o	ELECTAVITY EQUIPME IT	ے		02 36		
0	RAIL EQUITHENT					
c	MOTOR VEH CLES	00 16				
ŝ	OTHER TRANSFORT EQLIPM					
*)	OTH R YELLFACTURING					
;	CO 25TRUCTION					
ű	"LECTR CITY ETC			00 00		
ų.	I'MI TRA STORT SERVICE					
	CTHER TRA SPORT SERVIC					
Œ:	CO MUNICIPAL ON	00 00				
, o	TACE.	00 00	00 00			
ç	OTHER CERTICES	01 82	19.28			06.57
6	TOTAL	00 00	100 00	100 00	100 00	100 00

ANNEXURE 1 15 FRUCTURE OF INDIRECT TAXES 1991-92

					ercent)
3	SECTOR	IMPORT	EXPORT	OTHER INDIRECT TAXES NET OF SUBSIDIES	TOTA INDI TAXE WET
İ.		00 00	90 00	-06.63	2
٠,	TOWA .	3 6	000		-03 53
	CTUTE CERTA'S		_	-00 36	-00 21
٠.	FILE SES		_	-30 56	-00 32
	T-CO-ECC-			52 00-	
				10 00	
	160	13 00	_	00 32	-00 50
m	13:	o			
	CC FFE				
	A	-	_	-	
		20	-		
	A. PLEBACDEY				•
٠.	FOR STRY & LOSGING		_		
_	F15, 111G				~
			_		
	CHAIDE RETROLEUM & N GA	15 61	-		-
	TROM CRE	000	-	20 00	
18	OTHER METALLIC HT ERVL		_	00-	
	NO. PET & HINCR MINERA	30	03 30	6 6	200
9	SUGAR	٠.			
;	NEW DEARL BOOKA		00 00	4 600	
		0000	3 6	000	
e :	CTHER FOOD & BETERAGE			210	
	COTTON TEXTILES	3 6	_	3 5	
n s	TILES CONTRACTOR				
9 1	1				•
	Other revities				_
0 0	MOOD & MOOD BRODIES	00 00			00 18
	DADER E PAPER PRODUCTS			01 65	01 38
	LEATHER & LEATHER PROD	00 00	00 00		
	RUBBER PRODUCTS			•	02 65
33	PLASTIC PRODUCTS				
34	PETROLEUM PRODUCTS	03 98			
5	COAL TAR PRODUCTS	00.00			00 11
36	FERTILIZERS				
33	PESTICIDES				
38	SYNTHETIC FIRRE & RESI	_		10 40	0 0 0 0
36	OTHER CHEMICALS	11 25	00 00	10 42	0 0
9	LNana	00 10	00 00	04 37	

ANNEXURE 1.15
STRUCTURE OF INDIRECT TAXES. 1991-92
(Percent)

ă	BECTOR	P. P.	INPORT	EXPORT DUIT	54528	THER INDIRECT INCE INCE INCE SUBSIDIES	PREE	TOTAL INDIRECT TAXES NET OF SUBSIDIES
١.	OTH NOW HET MINERAL PR	8	70		02		8	7.4
•	IRON & STEEL	10	28		02		05	67
-	NON FERROUS HETALS	0	58	00 00	92	61	63	31
	TRACTORS & OTH AGRI MA	8	00		00		00	19
'n	MACHINE TOOLS	6	55		8		00	90
ø	OTH NON ELECTRICAL MAC	13	15		0		00	19
•	ELECTRICAL MACHINERY	07	68		80		9	33
9	COMMUNICATIONS EQUIPME	00	00		8		8	24
6	ELECTRONIC EQUIPMENT	8	8		10		90	58
20	RAIL EQUIPMENT	8	65	00.00	8		8	72
-	HOTOR VEBICLES	6	11		50		90	20
25	OTHER TRANSPORT EQUITM	ő	90		0		ő	24
n	OTHER MANUFACTURING	13	27		6		60	04
v	CONSTRUCTION	00	00		-0-		90	83
ķ	ELECTRICITY ETC	8	00		02		0	58
Ģ	RAIL TRANSPORT SERVICE	00	00		-00		90	45
r	OTHER TRANSPORT SERVIC	00	00		0.3		ő	96
æ	COMPUNICATION	00	00		00	-	8	00
6	TRADE	00	00		- 90		ô	12
o	OTHER SERVICES	0	00		0.4		05	74
1 3	TOTAL	100	00	100 00	100	36	100	90

ANNEXURE 1 16
STRUCTURE OF INDIRECT TAKES. 1996-97
(Percont)

	150		150	INDIRECT		INDIRECT	ij.	5 :
				NET OF BUBSIDIE	o,	NET OF SUBSIDIES	. # 6	100
PADOT	٥	8	00 0	9	89	1		1 18
	0	8	00 0	5.	35		m	38
OTHER CEREALS	0	8	0	٩	33		2	2
PULSES	0	8	00 0	٥	ŗ			e.
SUGARCANE	٥	8	9	٩	53			.,
JULE	0	8	00 7	0	6		,,	o
COTTON	٥	8	00 0	ņ	9			r
TEA	0	0	00 0	0	'n			9
COFFEE	0	8	00 0	0	6		. 0	3
RUMBER	۰	8	00	0	8			9
OTHER CROPS	0	ž	67 20	9	8		'n	÷
ANIMAL RUSBANDRY	-	58	3 19	0	23		٠,	6
FORESTRY & LOGGING	٥	00	-		5	Ĭ	0	,
ğ	٥	8	15 57	0	6			J
COAL & LIGHTIE	٥	8	00 0	0	3			-7
CRUDE PETROLEUM 6 N GA	•	95	00 0	•	1,	,	Ψ,	d
IRON ORE	٥	8	5 84	•	ö			6
OTHER HETALLIC HINERAL	0	23	00 0	٥	7		0	••
HOW HET & HINOR HINERA	-	6	2 62	٥	9		_	-
SUGAR	0	8	00 0	-	13	•	È	
KHANDSARI BOORA	0	S	00 0	9	9		6	
a	0	8	00 0	0	52		0	_
	-	93	5 58		8			
	0	8			Š.	_	0	-1:
LEN TEX	٥	8		0	8	•	o .	8
SILK & SYNTS	~	9		_	62			4
	c	8		۰.	9	_		2
OTHER TEXTILES	٥	8		-	0	_		Ŕ
3	0	8		0	ç	•		3
	-	33		-	86			73
LEATHER & LEATHER PROD	0	8			55	•		2
NUMBER PRODUCTS	0	63		0	8			38
PLASTIC PRODUCTS	•	2		6	12		α.	2
PETROLEUM PRODUCTS	9	ç		-	8			51
COAL TAR PRODUCTS	۰	8	00 0		8		ŏ	8
FRRTILIZERS	•	8	00 0	-11	83	ī	ģ	75
PRETICIONS	0	g			5	٩	-	8
STATESTIC PIRMS 6 RUSI	-	2	00 0		69	-	5	12
OTHER CHEMICALS	=	댬	0	=	8	=		38
CENTRAL STATE	-	8	000	6	ŝ		m	3

ANNEXURE 1.16 STRUCTURE OF INDIRECT TAXES: 1996-97

76	a Calculation	400		- Charles	Canada	i		Í.	ł
		DOLL	,	T L	INDIRECT TAXES	ь	INDINECT TAXES	ງຊັມ ⊱	ĸ
- 1		- [- [SUBSIDIES	123	SUBSIDIES	æ	ES
	OTH NOW HET MINERAL PR	٥	59	ō					6
	IRON & STEEL	12	69	0		3	_	-	2
	NOW FERROUS METALS	4	2	000	0	ŏ	_	_	33
	TRACTORS & OTH AGRI MA	0	8	6		9			E
	MACHINE TOOLS	٦	99	00 0		4		. ~	9
9	OTH NON ELECTRICAL MAC	1.6	88	ó		000	_		
2	ELECTRICAL MACHINERY	12	7.5	ō		ŏ	•		9
œ	COMMUNICATIONS EQUIPME	0	8	ő		8	_		25
5	BLECTRONIC EQUIPMENT	0	8	00 0		ŏ		_	00
20	RAIL EQUIPHENT	-	60	ő	0	6	_	6	98
	MOTOR VEHICLES	-	77	Ö	0	9	_	, m	12
	OTHER TRANSPORT EQUIEM	-	50	ő	0	9	_	_	9
53	OTHER MANUFACTURING	20	6	ó		5		-	9
	CONSTRUCTION	0	8	ő	,	5	·	5	0
	ELECTRICITY ETC	٥	8	ő		9		_	33
		٥	8	ő	ī	č	°	-	2
	OTHER TRANSPORT SERVIC	0	00	00 0		4		~	9
28	COMPUTCATION	٥	8	ő		ŏ		-	8
	TRADE	0	8	ō		-0			~
	OTHER SERVICES	0	8	00 0		2 68			7
	TOTAL		. 5	100	-	9		13	18

ANNEXURE 1.17 STRUCTURE OF FINAL DEMAND: 1991-92

SN SECTOR	RO3	PRIVATE COSUMP- TION	PUBLIC COSUMP- TION	GROSS FIXED INVES- THENT	CHANGE IN STOCKS	EXPORTS	IHPORTS	TOTAL FINAL DEMAND
	PADDY				-00 72			05 05
	WHEAT	03 52	00 02	00 00	-02 18	00 00	00 03	02 30
	OTHER CEREALS							01 54
	PULSES							01 50
	SUGARCANE							69 00
	JULE							00 00
	COLICH							00 11
	TEA				00 00			00 00
	CCFFEE							SO 00
	RUBBER							00 00
	OTHER CROPS							05 16
	ATTENAL RUSBAUDRY							05 74
	FORESTRY & LOGGING							00 92
	FISHING							00 74
	COAL & LICHITE							90 00
	CRUDE PETROLEUM 6 N GA							96 OO
	I KO11 ORE							00 01
	OTHER ISTALLIC MINERAL	00 00						00 05
	NC" HET & MINOR MINERA							-01
	SU-4R							01 28
	NEADSART BOOKA							60 00
	PADROGE ATED OIL							00 97
	CTLLR FOOD & BEVERAGE							06 44
	COTTON TENTILES							03 30
	NOC LEST TE CTILES							00 23
	AKT SILK & SYLTHETIC P				10 07		00 44	02 25
	TUTE PF 4P MESTA TENTIL							90 00
	OT ER TEYTILES						00 33	01 95
	HOLD & WOOD PRODUCTS							00 08
	PAPER & PAPER PRODUCTS							00 40
	LEATHER & LEATHER PROD							00 84
	RUBBER PRODUCTS							00 93
	FLASTIC PRODUCTS			00 00	06 83			00 43
	PETROLES PRODUCTS							00 99
	COA! TAR PRODUCTS							00 01
	FEBTILI2SBS						02 55	-00 31
	PESTICIDES							00 05
	STRIBETIC PIRE 6 BEST							-00 24
							04 42	01 22
					27 48			

ANNEXURE 1.17 STRUCTURE OF FINAL DEMAND: 1991-92

Z.	SECTOR	PRIVATE COSUMP- TION	PUBLIC COSUMP- TION	GROSS FIXED INVES- THENT	CHANGE IN STOCKS	EXCORTS	IMPORTS	TOTAL FINAL DEMAND
-	OTH HON ME" MINERAL FR							00 47
2	IRON & STEEL							0
ņ	NON FERROUS METALS	00 00						-00
4	TRACTORS & OTH AGE, MA	00 00	00 03	01 47	00 19	00 00	00 01	00
u)	MACHINE TOOLS							99 00
ų.	OTH HOR ELECTRICAL MAC							02 55
	ELECTRICAL MACHINERY							12 20
æ	COMPANICATIONS EQUIPSE							00
o,	ELECTRON C EQUIPME -							00 47
9	RAIL EQUIPMENT							00 65
-	MOTOR VEHICLES							62
Ç.	OTHER TRUSSFORT EQUIPM							00 20
	OTHER MANILEMATTERS	01 12						02 13
*	CC STRUCTION							10 50
a)	PLECTRICITY ETC							00 82
ų.	NALL TREE STORT SERVICE							00 91
	OTHER "RAI SFOR" SER '.C							03 96
w	COMPAN ICATION							00 62
۰	TRUE							07 64
٥	OTHER SERVICES						05 47	20 56
,	70101	100 00	100 00	100 00	100 00	00	00 001	0000
			:			200		3

ANNEXURE 1.18 STRUCTURE OF FINAL DEMAND 1996-97

(Percent)

	DOM: COR							
á		TION.	COSUMP	PIXED INVES-	STOCKS			FINAL
١	PADDY	06 95	00 02					04 66
N	WHEAT	03 08						02 06
e	OTHER CEREALS	02 29						01 52
*	PULSES	02 16	00 03					01 36
n	SUGGRESSIE	00 70						90 46
4	3775							00 00
,	COTTO:							00 10
w	TEA							00 00
ņ	COFFEE							00 00
10	AUBBER	_						00 00
::	OTHER CROPS							96 50
22	ANIMAL FUSBAHDRY	06 14						05 53
	FORESTRY & LOGG:NG							90
,,	FISHIG							08 00
15	COAL & LICHTTE							00 16
16	CRUDE PETROLEUM & N G.							-00 57
1.1	IROM ORE							00 07
16	OTHER PETALLIC MINERAL							00 02
0	NO PET & PINOR HI! ES							-01 98
20	SUGAR							
5	PHATESART BOOKA							00 10
22	HIDROGENATED OIL							00
53	OT'SER FOOD & BEVERAGE							05 32
24	COLICE TEVTILES	99 50						03 87
25	WOOLLER TENTILES							00 53
56	ART SILK & SYNTHETIC F							
23	JUTE HEMP HESTA JEATIL							
26	OTHER TEXTILES							
53	NOOD 6 WOOD PRODUCTS							
30	PAPER & PAPER PRODUCTS							
31	LEATHER & LEATHER PROD							
32	RUBBER PRODUCTS	96 00	00 10	01 77	66 20	01 35	500	200
33	PLASTIC PRODUCTS							
34	PETROLEUM PRODUCTS							
35	COAL TAR PRODUCTS							
36	FERTILIZERS							
33	PESTICIDES						00 18	
98	SYNTHETIC FIBRE & RESI							
ě								
2	CEMENT							

ANNEXURE 1.18 STRUCTURE OF FINAL DEMAND: 1996-97

								100000000000000000000000000000000000000
ž	SECTOR	PRIVATE COSUMP- TION	PUBLIC COSUMP- TION	GROSS FIXED INVES- THENT	CRANGE IN STOCKS	EXPORTS	IMPORTS	TOTAL FINAL DEMAND
5	OTH NOW MET MINERAL PR							
42	IRON & STEEL	00 00	00 00	01 52	05 17	00 43	03 29	00
43	NOW FERROUS METALS							
44	TRACTORS & OTH AGRI MA							
55	MACHINE TOOLS							
9.7	OTH POST ELECTRICAL MAC							
42	ELECTRICAL LACATVERY							
49	COMPANICATIONS EQUIPME							
6.5	ELTOTAL . C EQUIPMENT							
ŝ	FAIL E. IFNEWT							
5	MOZCR VZHICLES							
5	CTER TRANSFORT EQUIPM							
53	CHER NO OFACTURES G							
24	CONSTRUCTION							
55	ELFCTRICITY ETC							
÷	RA L THANSPORT SERVICE							
	TINESS CEDESTREE MILE.							
10 10 10	02140 - CA110							
90	TRADE							
9	OTHER SEC CES			00 00	00 00	07 82		27 80
5	167.	00 00	00 001	00 001	00 001	00 001		
							3	

ANNEXURE 1.19
OUTPUT COEFFICIENTS

SH COMMONTY LEGICA	**	2		•	8		-	8	6	10
1 FACOY	900000	000000								
2 4000	10000		د	ó	0.000000	0.000000	0.00000.0	0.000000	0.000000	0.00000
CTENT CTE c	0.0707.2	5	5	o	0.00000	0.00000	0.000000	0.00000	0.00000	0.00000
7	200000	b		0.00000	0.000000	0.00000	0.000000	000000	0.00000	000000
72.4			ø	0.993764	0.00000	0000000	0 000000	0.00000	0.00000	000000
	26.22.22.2	0.00000		o	S G G G G G	000000	000000	000000	00000	00000
3133	00277770	0000000	C	c	000000	00000	00000	00000	00000	20000
201130	0000000		0		2000	00000	000000	000000	000000.0	20000
il.				00000	000000	000000	000000	0.00000	0.00000	0.00000
3 CC1122 6	0.00000			000000	000000	c occoods	0.000000	C. 999994	0.00000	6.000000
0 ATERER	0.00000	ı G	ن د	0.000000	0.000000	0.000000	0.000000	0.000000	0.999998	0.000000
							2000			
A CANADA COLOR	25 0000 0	0.001882	0.7.7000	0.000346	0.00000	0.00000.0	0.00000	0.000000	000000 0	0.00000
	200000	0 000000	00000000	0000000	0.000000	0.00000	0.00000	000000	0.00000	0.00000
S PUNISHER & COURSE	0.00,000	0.00000	0.00000	2 00000	000000	0000000	0000000	000000	000000	000000
Date:	0.00000	0.00000	0.00000	00000000	0000000	0.00000	000000	000000	0 000000	000000
COMP . LIGHTE	0.000000	0.00000	0.000000	0000000	000000	000000	000000	000000	000000	0000000
S CRUTE PETROLLING & 11.0AG	0.000000	000000	000000	900000	00000	0000	0000			
TRON CAE	0.005000	0 000000	D COLUMN	00000	00000	000000	00000		00000	00000
POTHER METALLIC MINERALS	000000	COODD	00000	20000	0000000	000000	00000	00000	000000	00000
PROPERTY AND RESIDENCE MANAGEMENT OF	000000	000000	200	200	000000		20000	200		
SINGAR	0 000000	000000	2000000	0000000	0.00000	0.000000	0.000000	0.00000	0.000000	0.00000
	200000	20000	0.00000	0.000.000	e occees	C. Octobro	n. 000000	0.00000	0.00000	0.00000
NEEDSAGI FORM	0.000030	0000000	0.0000	0000000	100000	000000	0000000	000000	000000	000000
PHYDROGENATED CIL	0.00000	000000	000000	0 000000	0000000	000000	000000	000000	000000	000000
S OTHER FOCE & BEVERAGE	0.001635	0.000360	0.00000	99,000	0000000	000000	000000	000000	00000	000000
COTTON TEXTILES	0 000003	000000	0000000	000000	00000	00000		00000	00000	00000
S WOOLLEN TEXTILES	000000	100000	00000	20000	000000	0.00000	000000	000000	00000	00000
S ART SILK & SYNTHETIC FIREE	0 000000	00000	000000	000000	000000	000000	200000	00000	2000	00000
JULY, HEND, MESTA TEXTILES	000000		0000	000000	20000	0000000	00000	00000	0000	
B OTHER TEXTILES	000000	000000	000000	000000	000000	000000	000000	000000	00000	00000
	0.00000	000000	000000	000000	000000	000000	000000	000000	00000	00000
O PAPER & PAPER FRODUCTS	0.000000	0.00000		0.000000	0.00000	0.00000	0.00000	0.000000	0.000000	0.000000
LEATHER & LEATHER PRODUCTS	000000	000000	000000	000000	000000	000000	000000	000000	00000	00000
RUBBER PRODUCTS	0.00000	000000	0.00000	0 00000	000000	000000	000000	0000000	000000	00000
PLASTIC PRODUCTS	0000000	0000000	000000	000000	000000	000000	000000	000000	00000	
PETROLEUM PRODUCTS	0.00000	0000000	0000000	0.00000	0.00000	0 000000	0.000000	0000000	000000	000000
COAL TAR PRODUCTS	0.00000	0000000	000000 0	0.00000	0 00000	000000	0 000000	0 000000	000000	00000
FERTILIZERS	0.000000	0.00000	0.00000	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.000000
	0.000000	0.00000	0.000000	0.00000	0.00000	0.000000	0.00000	0.000000	0.00000	0.000000
SYNTHETIC FIBRE & RESIN	0.000000	0.00000.0	0.00000.0	0.00000	0.00000	0.000000	0.00000.0	0.000000	0.00000	0.00000
OTHER CHEMICALS	0.00000.0	0.00000.0	0.00000.0	0.00000.0	0.00000	0.00000.0	0.00000.0	0.00000	0.00000	0.00000
CEMENT	0.00000	0.00000.0	000000	000000	000000	000000	000000	000000	000000	

ANNEXURE 1.19
OUTPUT COEFFICIENTS

					NDUSTRIE	RIES				
SN COMMODITY SECTOR	-	1 2 3	F	*	'n	9	E			10
account and the state of the	000000	000000	000000	000000	000000	000000	000000	0 000000	000000	000000
TRON & STEEL	0 000000	0 000000	0000000	0000000	0 000000	0000000	000000 0	0000000	000000	000000
NOW PERSONS METALS	0 000000	000000	0000000	0000000	0000000	000000 0	0 000000	0 000000	0000000	000000
4 TRACTORS & JTH AGRI MACH	0 00000	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	000000 0	0000000	0 00000
	0000000	0000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000 0	0000000	000000
	0000000	0000000	000000 0	0000000 0	000000 0	0 000000	0000000	0 000000	000000 0	0 000000
BLECTRICAL ADDINERY	0000000	0000000	0 000000	0 000000	0 000000	0000000	000000 0	000000 0	0 000000	0 00000
•	0 000000	0 000000	0000000	0000000	0 000000	000000 0	0000000	0000000	000000	0 000000
	300000 0	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 00000	000000
RAIL EQUIT	0 000000	0 000000	000000 0	0 000000	0000000	0000000	0 000000	0 000000	0 000000	0 000000
				4	000000	00000		0000000		
	nonnon n	200000	000000	20000	000000	00000	20000	000000	00000	00000
	0000000	0000000	0 000000	000000	0000000	0 000000	0000000	0000000	0000000	000000
S OTHER MAN ACTURING	0 000000	0000000	0000000	0000000	0 000000	0000000	0000000	000000	0 000000	0 000000
	0 000000	0 000000	000000 0	0000000	0 000000	0000000	0 000000	0 000000	0 000000	0 00000
ELECTRICI ETC	0 000000	0 000000	0 00000	0 000000	000000 0	0000000	000000 0	0000000	0000000	000000
" BAIL TRAN ORT SERVICE	000000 0	000000	0 000000	0 00000	0 00000	0 000000	000000 0	000000 0	0000000	000000
CTARR TRA	000000	0 000000	0 000000	0000000	0 000000	000000 0	0000000	0000000	0000000	000000 0
ó	0.00000	000000 0	0 000000	0 000000	000000	0000000	000000 0	0 000000	000000	0 00000
TABLE	0 000000	300000 0	000000	0000000	0 000000	0000000	0000000	0 000000	000000 0	0000000
OTHER SERVI ES	0 000000	0000000	0 000000	0000000	0 000000	0000000	0000000	000000 0	0 000000	0 000000
SI TOTAL	1 000000	1 000000	1 0000000	1 000000	1 000000	1 0000000	1 000000	1 000000	1 000000	1 000000

ANNEXURE 1.19 OUTPUT COEFFICIENTS

				H	INDUSTR	RIRS				
H COMMONITY SECTOR	:	12	13	7	15	16	17	18	18	20
1 FADDY	0 082969	000000	000000	0000000	000000	000000	00000	000000	000000	000000
2 WHEAT	0 055054	000000	000000	000000		00000	00000			
2 OTHER CEREALS	0 062086	0 000000	0 000000	000000	0 000000	000000	000000	000000	000000	000000
4 PULSES	0 008088	0 000000	0000000	000000	0 000000	0 000000	000000	000000	000000	000000 0
5 SUJAHCANE	0 010898	0 000000	0 000000	000000	0 000000	0 000000	0 000000	000000 0	0 000000	000000
3.515		0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0000000	0 000000	000000 0
7 .67704	0 002610	0000000 0	0 000000	0 000000	0000000	0 000000	0 000000 0	000000 0	0 000000	000000 0
5		0 000000	0 000000	0 000000	0 000000	000000 0	0 000000	0000000	0000000	0 000000
CLEVEE	0 000000	0 000000	0000000	0000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000
# 174 0	0000000	0 000000	0 000000	0 000000	0 000000	0 000000	0000000	0000000	0000000	0000000
1 CT FR CROPS	C 773564	000000	000000	000000	000000	000000	000000	000000	000000	000000
A INMI HUSBANDPY	000000	0 999258	0000000	000000	0000000	0000000	000000	000000	000000	0000000
3 FORESTRY & LOSGING	0 000000	0 00000	000000	000000	0000000	0 000000	0 000000	000000	0 000000	0000000
4 FISHING	0 000000	0.00000	0 000000	866666 0	0 000000	0 000000	0 000000	000000 0	000000 0	000000 0
		0000000	0 000000	0 000000	666666 0	0 000000	0 000000	0 000000	0000000	0 000000
S CPUDE PETROLEI 1 E 5-	0 000000	0000000	0000000 0	000000 0	0 000000	966666 0	0 000000	0 000000	0 000000	0000000
	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	1 000000	0000000	0 000000	0 000000
S OTHER METAL C MINERALS	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	1 000000	0 000000	0000000
DING HE G HI OF HINERALS	0 000000	0 000000	0 000000	0000000	0000000 0	0 000000	0000000 0	0000000	0 980892	0 000000
C "I Ghr	0 000000	0000000 0	0 000000	0000000 0	0 000000	0000000 0	0 000000	0000000	0000000	0 992492
ABOOR TELEVISION	000000	00000	000000	000000	000000	000000	000000	000000	000000	0.007334
EVENOVERHEID OFF	00000	000000	000000	000000	000000	000000	00000	0000		000000
CLAPS FOOD & Datherson	000000	000000	000000	000000	000000	000000	00000		00000	0000
COTTON TEXTILES	0 000000	0 000000	000000	000000	0000000	000000	000000	000000	0000000	000000
MODITEN TEXTILES	0000000	000000	000000	0000000	000000	000000	000000	0000000	000000	000000
ART SILK & STATEGATIC FIRE	000000	000000	000000	000000	000000	000000	000000	000000	000000	0000000
JUTE HEMP MESTA TEXTILES	0 000000	000000	0000000	000000	0 000000	0000000	0 000000	0000000	0000000	0000000
OTHER TEXTILES	0 000000	0000000	0000000	000000	0 000000	0 000000	0 000000	0000000	0000000	000000 0
NOOD & WOOD PRODUCTS	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	000000	000000
D PAPER & PAPER PRODUCTS	0000000	0 000000	0000000 0	0 000000	0000000	0 000000	0000000	0000000	000000 0	0 000000
LEATHER & LEATHER PRODUCTS	0 000000	0 000000	0000000	0 000000	0000000 c	0 000000	0 000000	0 000000	000000 0	0 000000
RUBBER PRODUCTS	0000000	0000000	0 000000	0 000000	0 000000	0 000000	0000000	0000000	000000 0	000000 0
PLASTIC PRODUCTS	0 00000	0000000	0 000000	0 000000	0000000	0 000000	0000000	0 000000	0000000	0 000000
PETROLEUM PRODUCTIS	0000000	000000 0	0000000	0000000	0000000	000000 0	0 000000	0 000000	0000000	000000
COAL TAR PRODUCTS	0 000000	0000000 0	0 000000	0000000	0 000000	0 000000	0 000000	0000000	0 000000	000000
FERTILIZERS	0000000 0	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0000000	0000000	0 000000
	0 000000	0000000	0000000	0 000000	0000000	000000	0000000	0000000	000000	000000
CONTRACTIC FIRMS & RESIN	000000	0000000	000000	0000000	0000000	0000000	000000	000000	000000	000000
CEMENT	0 000000	000000 0	0000000	000000	000000	0 000000	0 000000	000000	0 000000	0 000000
	-									
										Contd

ANNEXURE 1 19 OUTPUT COEFFICIENTS

				н	1 5 0 0 2	21.53				
TH COMMODITY SECTOR	11	12	13	77	15	16	17	118	19	20
OTH NOW HET MINERAL PRODS	0 000000	0 000000	000000	000000	0 000000	0 00000	000000	000000	201910	000000
THON E STREET.	000000	000000	000000	000000	000000		00000		20000	
NON PERRORS METALS	0 000000	000000	0000000	0 000000	000000	000000	00000			
TRACTORS & OTH AGRI MACH	000000	000000	000000	0 00000	000000	000000	000000	00000		
	0 000000	0000000	0000000	0000000	0 000000	000000	000000	000000		
DE OTH NON ELECTRICAL MACH	0000000	0000000	0 00000	000000	000000	000000	000000	000000		
	0 000000	000000 0	000000 0	0000000	0 000000	0 000000	0000000	0 000000	000000	
B COMMUNICATIONS EQUIPMENT	0 000000	000000 0	0000000	0 000000	0 000000	0 000000	000000	000000	000000	000000
ELECTRONIC EQUIPMENT	000000	000000 0	000000	000000	0 000000	000000	000000	0 000000	000000	00000
50 RAIL EQUIPMENT	0000000	0000000	0 000000	000000 0	0000000	0 000000	0 000000	0 000000	0 000000	0 000000
") MOTOR VEHICLES	0000000	0 000000	000000 0	0000000	0000000	0 000000	000000	0 000000	000000	000000
OTHER TRANSPORT EQUIPMENT	000000	000000	0 00000	000000	0 000000	000000	000000	0 00000	000000	00000
OTHER MANUFACTURING	0 000000	0000000	0 000000	0 000000	0 000000	0000000	000000	0000000	000000	000000
54 CONSTRUCTION	000000 0	0 000000	0 000000	0 000000	0 000000	0 000000	0 00000	0 000000	000000	000000
	0000000	0 000588	0 000000	0 000000	0 000000	0 000000	0 000000	0 000000	0000000	0 000000
SE RAIL TRANSPORT SERVICE	0000000	0000000	0 000000	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	0 000000
	0 000000	000000 0	0 000000	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	0 000000
	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	0000000 0	0 000000	0 000000	0 000000
30MMI 64	0 000000	0 000000	0 000000	000000	0 000000	0 000000	0 000000	0 000000	000000	0 00000
OTHER SERVICES	0000000	0000000	0 000000	0000000	0000000	0000000 0	0000000	0 000000	0000000	0 000000
61 TOTAL	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	-	1 000000

ANNEXURE 1.19 OUTPUT COEFFICIENTS

SH COMMODITY SECTOR										
PAODY	n	22	g	72	25	26	27	29	28	S.
	0.000000	0.000000	0.001975	0 000185	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000
2 WHEAT	0.00000.0	0.000000	0 000447	0.000000	0.000000	0.000000	0.00000	0.00000.0	0.00000.0	0.00000
OTHER CEREMIS	000000 0	0.000000	0000000	0 000000	0.00000	0000000	0 000000	0.00000	0.000000.0	0.000000
PULSES	0.00000.0	000000 0	0 000912	0 000023	0 000000	0.00000	000000 0	0.00000.0	0000000	0.00000
SUGARCANE		0 000000	0 000000	0 000000	0.00000.0	0000000	0 000000	0.000000	0.00000	0.00000.0
JULE 1		0 000000	0000000	0 000000	0.00000	0000000	0000000	0.00000.0	0.00000.0	0.00000
2 contras	0 000000	0.00000	0000000	0 000000	0000000	0000000	0 000000	0.00000.0	0.00000.0	0.00000
437	0 000000	000000 0	0 000000	0 000000	0 000000	0.00000	0 000000	0.00000	0.00000.0	0.00000
	0 000000	000000 0	0.000000	0 000000	0000000	0 000000	0.00000.0	0.00000	0.000000	0.000000
C RUBBER	0 000000	000000 0	0.000000	0000000	0 000000	0 000000	0.00000	0.00000	0.00000	0.000000
Supple Change	00000	000000	00000	40.000	000000	000000	000000	000000	000000	000000
ANTHAL MISSANDA	000000	20000	00000	000000		000000		000000	0.00000	0.000000
FORESTRY & LOGGING	000000	000000	000000	00000	0000000	0 000000	0000000	0.00000	0.00000	0.000000
	0 000000	0000000 0	0000000	0 000000	0 000000	0 000000	0000000	0.00000	0.00000.0	0.000000
15 COAL & LIGHTE	0000000	0 000000	000000	0.000000	0000000	0 000000	0000000	0.000000	0.000000	000000
	0000000	000000 0	0 000000	0000000	0000000	0 000000	000000 0	0.00000	0.00000	0.00000
	0 000000	0.000000	0.000000	0 000000	0000000	0000000	0 000000	0.00000	000000	0.000000
	0 000000	0.000000	0.00000	0 000000	0 000000	0000000	0000000	0.00000	00000	_
19 NOW MET & MINOR MINERALS	0000000	000000	0 000000	000000	000000	000000	000000	000000	00000	_
	0 041694	000000	0.002285	agagaa a	000000	00000	00000			
KHANDSARI BOORA	0.941024	000000 0	0.000017	0000000	0 000000	0 000000	0.00000	0.000000	0.000005	0.000000
	0 000000	0 974019	0.003800	0 000005	0000000	0 000000	0 000000	0.00000	0.000000	0.00000
		0.025981	0 978957	0 000568	0000000	000000	0000000	0.00000	0.000000	00 000000
		0.00000.0	0 001343	0 976753	0.011008	0 096152	0.000056	0.035087	0.000030	0.0000
	0.00000	0.000000	000000 0	0 000081	0 972018	0.000867	0.00000	0.002244	0.00000	0.00000
	0 000000	0.00000.0	0.000000	Z1/8to 0	000000	779106 0	000000		0000	90000
	0 000000	000000	000000	0 000037	0 000000	0.00000	0.990773	0.019517	0.000000	0.000110
28 OTHER TEXTILES	0000000	0.000000	0 000000	0 003453	0.00000	000000	0.00000	0 934802	0.987724	0.001986
30 PAPER & PAPER PRODUCTS	0000000	000000	0.000000	0.00000	0.000000	0.00000	0.002067	0.000070	0.00000	0.987286
promote degrates a destate	00000	00000	000000	500000	000000	000000	0.00000	0.000129	0.000136	0.00000
30 proper become	000000	00000	000000	000000	0.00000	0.00000	0.00000	0.000933	0.00000	0.00000
	0.00000	0.00000	0000000	0 000000	0.000000	0.00000	0.000000	0.000004	0.000000	0.00000
	0.00000	0.00000	000000	0.000000	0.00000.0	0,000000	0.00000	0.000000	0.00000	0.000000
	0.00000	0,00000	0000000 0	0000000	0.00000	0.00000	0.00000.0	0.001468	0.000000	0.000000
96 FERTILIZERS	0.00000.0	0.000000	0.000000.0	0.00000	0.000000	0.00000	0.000000	0.00000	0.000000	-
PESTICIDES	0.00000.0	0.000000	0.00000	0.000000	0.00000	0.00000	0.000000	0.000000	0.00000	0.00000
18 STATESTIC FIRMS & RESIN	0.000000	0.00000	0.00000	000000 0	0.00000	0.00000	0.000000	0.00000	0.00000	
S OTHER CREATCALS	0.000000	000000	00000000	0000000	000000	0.000000	0.00000	0.00000	0.000000	0.000000

ANNEXURE 1 19 OUTPUT COEFFICIENTS

COMMONDER SECTION 21 COMMONDER SECTION	0 000000	NDUSTR	RIES				
MARK FATREAL PRUS 0 000000 0 000000	9000000	25	26	27	28	29	ñ
MAN FABER MAN MA	0000000	0 000000	0 000000	0000000	0000000	0 000282	000000
MAINTANDERS	000000	0 00000	000000	000000	000000	00000	
THATCHE & CIT AND HALF THE NORTH NEW TOOLS COROCCO THE NORTH NEW TOOLS	20000	0 000000	000000	000000	000000	00000	
MACHINE TOOLS 0 000000 0 000000 0 000000 0 000000 0 0	000000 0	0 000000	000000	000000	00000		00000
OTH NELECTICAL MACH 0 000000 0 000000 0 000000 0 000000 0 0	0 000000	0 000000	0 00000	000000	000000	00000	
National Color Nati	000000 0	0 000000	0 000000	0000000	000000	00000	00000
COMMUNICATIONS COLUMN	0000000	0 000000	0 00000	0 000000	0 000000	0 000000	
MALI EQUIPMENT 0 000000 0 000000 0 000000 0 000000 0 0	0 000000	0 000000	0 000000	0000000	0 000000	000000	
NATI COUNTRAIT 0 000000 0 000000 0 000000 0 000000 0 0	0 000000	0 000000	0 000000	0 000000	000000	0000000	0000000
NOTE TABLESS 0.00000 0 0.000000	0 000000	0000000	0 000000	0 000000	000000 0	0 000000	0 000000
OTHER TANSERSE EQUIPMENT 0 000000 0 000000 0 000000 0 000000 0 0	000000 0	0 000000	0000000	0000000	000000	000000	00000
CONTIN MANUTATURING CONSTITUTOR CONSTITUTO	000000	000000	000000	00000			00000
CONSTITUTION 0 000000 0 000000 0 000000 0 000000 0 0	0 000000	000000	00000	00000	20000	10000	000000
ELECTRICITY ETC 000000 0 000000 0 000000 0 000000 0 0000	000000	000000	00000	000000	00000	200000	0 004865
COMBANICATION 0 000000 0 000000 0 000000 0 000000 0 0	000000	00000	00000			000000	00000
OTHER TRANSPORT SERVICE 0 000000 0 000000 0 CONDUM CATION	000000	000000	000000			000000	000000
CONTINUED DOCUMENT DOC	000000			00000	00000	00000	000000
	000000			00000	00000	000000	000000
	000000		000000	00000	000000	000000	000000
SERVICES 0 000000 0 000000 0	0 000000	0 000000	000000	000000	000000	000000	000000
1 000000 1 000000 1 000000 1	1 000000	1 0000000	1 000000	1 000000	1 000000	3 000000	3 000000

ANNEXURE 1 19	OUTPUT COEFFICIENTS

				-	***********	00 14 01					1
IN COMMODITY SECTOR	31	32	33	ā	35	36	37	2	38		\$
1 PADDY	0000000	0000000	0000000	0 000000	0000000	0 000000	0 000000	0000000	0 000147	00	000000
2 WHEAT	0000000	0 000000	000000 0	0000000	0 000000	0000000	0 000000	000000 0	0 000000	000	000000
3 OTHER CEREALS	0 000000	0 000000		000000	000000	0 000000	0 000000	0000000	000000	8	000000
4 PULSES	0 000000	0 000000	0000000	000000	000000	0 000000	000000	0000000	0 000510	86	000000
5 SUGARCANE	0000000	0000000	0000000	0000000	000000	000000	000000	000000	000000	3 6	00000
200	0000000	000000	000000	0000000	0000000	0 000000	0000000	0000000	000000	36	
COLLON	0000000	0000000	000000	000000	000000	000000	000000	00000	00000	•	
TEA .	0 000000	000000	0000000	0000000	0000000	0 000000	000000	000000	000000	0	
	0000000	000000	000000	000000	000000	000000	000000	000000	00000		
TO MURRER	0000000	0000000	0000000	0 000000	200000	000000	000000	000000	00000	•	3
11 OWNER CROPS	000000	000000	000000	000000	000000	0 000000	0 000000	000000 0	0 000000	٥	000000
	0000000	0000000	0000000	0 000000	000000	0 000000	0 000000	0 000000	000000	0	000000
	0000000	0 000000	0000000	0 000000	0 000000	0	000000 0	0 000000	0000000	0	õ
14 FISHING	0 000000	0 000000	0000000	0 000000	0 000000	0	0 000000	0 000000	0 000000	0	000000
	0 000000	0 000000	0 000000	0 000000	0000000	0000000	0000000	000000	000000	٠.	000000
	0 000000	0 000000	000000	000000	0000000	0 000000	0000000	0 000000	000000		
	0000000	0 000000	000000	0000000	000000	000000	000000	000000	00000	•	
	0000000	0000000	000000	000000	000000	000000	000000	00000	0	0	00000
IN MON RET & MINOR MINERALS	000000	000000		00000			00000	000000	0	0	000000
SUCAR.	0000000	000000	000000	000000	20000	20000			,		
L KHANDSARI BOORA	000000 0	0000000	0 000000	000000 0	0 000000	000000 0	0 000000	0 000000	0 000000	0	000000
	0000000	0 000000	000000 0	000000 0	0000000	0 000000	000000 0	000000	0 018381	0	000000
	0 000000	0 000000	0000000 0	0 000000	0000000	000000 0	000000	0 000877	9	9 6	
24 POTTON TEXTILES	0 000002	0000000	0000000	0 000000	000000	000000 0	0000000	0000000	000000	9 0	
	0000000	0000000	0000000	0000000	0000000	0000000	000000	0000000	9 0		
	000000	0000000	000000	000000	000000	000000	000000		0	0	000000
27 JUTE HEMP MESTA TEXTILES	000000	000000	00000	000000	000000		000000	000000	0	0	000000
	000000	0 000013	0000000	0000000	0000000	•	0 000000	000000000 0	000	0	000000
		0 000000	0000000	0000000 0	0000000	0000000 0	000000 0	0 000003	0 000303	0	000000
STANDER GARAGE & BAHAPAT	0 995346	0 018364	0 002404	000000	0000000	0 000000	0 000000	0 000000	0	0	000000
12 RUBBER PRODUCTS	0 002048	0 968534	0 001333	0 000000	0 000000	0 000000	000000	0 000422	0	0	000000
	0 000048	0 001711	0 958359	0 000707	0 000000	0 000000	0 000000	0 047564	0	0	000000
	0 000000	0 000000	0 0000027	0 990085	0000000	0 000000	0 000000	0000000	0 (9 0	000000
35 COAL TAR PRODUCTS	0 000000	000000	0000000	0 008793	0 999820	000000	0 00000	0 000361	0.004370	9 0	
	0000000	0000000	000000	000000	000000	20000	01010	00000	•	•	
37 PESTICIDES	0000000	000000	0 000000	000000	000000	0000000	0 008272	0 915675	0	0	200000
OTHER CHEMICALS	0 000000	0 000000	0 000000	0 000325	0 000179	0 004873	0 061966	0	0	•	000000
The same of the sa	000000	000000	000000	00000	00000	000000	000000	0000000	000000	٥	

ANNEXURE 1.19
OUTPUT COEFFICIENTS

				-	TRDURI	RIES				
BN COMMODITY SECTOR	31	32	33	86	35	36	37	38	39	9
AT OFFE MON MON MANUAL DROPS	000000	000000	0.00820	100000	000000	00000	000000	000000		200000
	000000	0000000	0000000	000000	c	000000	000000	00000	0000	
-	0 000000	0000000	000000	0 000000	000000	0 000000	000000	000000	0000	000000
44 TRACTORS & OTH AGRI HACH	0 000000	0000000 0	0000000	0 00000	0	0 000000	0 000000		000000	000000
45 MACHINE TOOLS	000000	0000000 0	0 000000	0000000	٥	0 000000	0000000	000000	000000	000000
-	0 000000	0 000482	0000000	0 00000	٥	0000000	000000	0	0 000001	000000
47 ELECTRICAL MACHINERY	0 000000	000000 0	0 000073	0000000	0	0000000	0 000000	٥	000000	000000
COMMUNICATIONS EQUIPMENT	0 000000	0000000 0	00,000 0	0 000000	0	0000000	0 000000	0	000000	000000
	0000000	0 000000	0 000000	0 00000	٥	0000000	0 000000	٥	000000	000000
SO RAIL EQUIPMENT	0 000000	000000 0	0 000000	0 000000	0	0 000000	0 000000	0 000000	0 000000	000000
or Critical domon	000000	999500	700000	000000	c	000000	00000	•		
	0 00000	00000	00000		•		00000	•	00000	200000
S. OFFIED ASSESSMENT DISC.	000000	20000	20000		•	000000	00000	000000	000000	000000
•	0.005.00	100000	0 002131	0 00003	-	0.000330	000000	0 003332	0 000867	000000
54 CONSTRUCTION	0 000000	0 000000 0	0000000	0 000000	0	0000000	000000	000000	0000000	000000
-	0000000	0 000000	0000000	000000	0	0 000000	0 000000	0	0 00000	00000
RAIL TRANSPORT	000000	0000000 0	000000 0	000000	0	0000000	000000	0	000000	000000
	000000 0	0000000 0	0 000000	000000	0 000000	0000000	0 000000	0	0000000	000000
-	0000000	000000 0	0 000000	0 000000	000000	0 000000	0 000000	0	0 000000	000000
59 TRADE	0 000000	000000 0	0 000000	000000	0 00000	0 000000	0 000000	0	000000	000000
-	0000000	0 000000	0000000	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0000000
61 TOTAL	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000	1 000000

ANNEXURE 1.19
OUTPUT COEFFICIENTS

COMMUNITY BY INCOMPAY TABLE

		\$ 0000000 0 00000000000000000000000000	9 + 0000000 0	**************************************	99 000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	96 0000000 0 00000000 0 00000000 0 000000
NAME CONTROL		00000000000000000000000000000000000000	00000000000000000000000000000000000000		00000000000000000000000000000000000000	0000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000 0 0 0000000 0 0 0000000 0 0 0000
HEADSTANE 0.0000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000		00000000000000000000000000000000000000	0.000000000000000000000000000000000000		0000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	
17.00000 17.000000 17.000000 17.00000 17.00000 17.00000 17.00000 17.00000 17.000000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.00000 17.000000 17.00000 17.00000 17.00000 17.00000 17.00000 17.000000 17.000000 17.000000 17.00000 17.00000 17.000000 17.000000 17.000000 17.000000 17.000000 17.000000 17.000000 17.000000 17.00		00000000000000000000000000000000000000	00000000000000000000000000000000000000		00000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000
TOTAL TOTA		00000000000000000000000000000000000000	0.000000000000000000000000000000000000		00000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000
1000000 1000000 1000000 1000000 1000000 10000000 10000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 10000000 10000000 10000000 10000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 10000000 1000000 1000000 1000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000		0000000 0000000 0000000 0000000 0000000	00000000000000000000000000000000000000	0000000 0 0 0000000 0 0 0000000 0 0 0000	00000000000000000000000000000000000000	0.000000000000000000000000000000000000	00000000000000000000000000000000000000
1727.734 0.00000 0.0		00000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000 0 0 0000000 0 0 0000000 0 0 0000	0000000 0 0000000 0 0000000 0 0000000 0 000000
The control 0,00000		00000000000000000000000000000000000000	00000000000000000000000000000000000000	0.000000000000000000000000000000000000		00000000000000000000000000000000000000	0.000000 0.000000 0.000000 0.000000 0.000000
175. 175.		000000000000000000000000000000000000000	00000000000000000000000000000000000000	000000000000000000000000000000000000000			0000000 0 0000000 0 0000000 0 0000000 0 000000
Company Comp		000000000000000000000000000000000000000	00000000000000000000000000000000000000				0.000000 0.000000 0.000000 0.000000 0.000000
COUNTY C		* 000000000000000000000000000000000000					0000000.0 0000000.0 0000000.0 0000000.0 000000
COURT COUR		000000000000000000000000000000000000000			000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
COUNTY C		0000000	0.00000 0.000000 0.000000 0.000000 0.000000	0.0000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0.0000000000000000000000000000000000000
MUTHAL MISSAURY 0.000000 0.000000 0.000000 0.000000 0.000000		000000000000000000000000000000000000000	0.0000000000000000000000000000000000000			000000000000000000000000000000000000000	000000000000000000000000000000000000000
THE PRINCE COORDING CORPORED		000000000000000000000000000000000000000		000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
COUNTY COUNTY		000000000000000000000000000000000000000	000000000000000000000000000000000000000	0.00000 0.000000 0.000000 0.000000 0.000000	0.000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
CHARLE STREAMEN 6 16.00000 0 0000000 0 0000000 0 0000000 0 0000		000000000000000000000000000000000000000	000000000000000000000000000000000000000	0.00000 0.000000 0.000000 0.000000	000000000000000000000000000000000000000	0.000000	0.0000000000000000000000000000000000000
CHER PETRILLEN R. C. A. C. COCOCO COC		000000	0.000000	0 000000	0.000000	0.000000	0.000000
1960 98 1960 100		000000	0.000000	0.000000	0.00000	0.000000	0.00000
WAS NOT - 1 MINERALS 0.00000 0.00000		000000	0.00000	0.00000	0.000000	0.000000	0.00000
1000000 10000000 10000000 10000000 100000000		000000	000000	0.000000	0000000	0.00000	0.00000
STATE CONTROL CONTRO		000000	000000	000000		0.00000	0.0000
CONTINUE POST CONTINUE CO		00000			0.00000		
TOTAL POTAL POTA					4	,	00000
OFFICE PROFESS CONTROLS CONTRO	•	000000	000000	00000	00000	00000	
COTTON TEXTILES (000000 000000 000000 000000 000000 00000	000000	00000	00000	00000	000000	000000	000000
MOLIZAR TEXTILES 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	•	000000		00000	000000	000000	000000
ANT SILE A ENTHERICE CIRCUOCO COCOCOCO CONTROL MARIA TETLILES C.000000 C.000000 C.000000 C.000000 C.000000 C.000000 C.000000 C.0000000 C.000000 C.000000 C.0000000 C.000000 C.000000 C.000000 C.000000 C.000000 C.000000 C.000000	, ,	000000	000000	0.00000	0,00000	0.00000	0.00000
OTHER TEXTILES 0,000000 0.000000 0.000000 0.000000 0.000000	_	000000	0.00000	0.000000	0.000000	0.00000	0.00000
NOOD 6 100000 0 0.00000 0 0.00000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.200000 1.2000000 1.2000000 1.2000000 1.2000000 1.2000000 1.2000000 1.2000000 1.2000000 1.2000000 1.2000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000 1.20000000000	_	000000	0.00000.0	0.000000	0,00000	0.00000	0.00000
MOCO & WOCD PRODUCTA 0.000000 0.000000 PAPER & PAPER PROCUCTS 0.000000 0.000000 1.2ATHER & LEATHER PROCUCTS 0.000000 0.000019	-	0000000	0.00000.0	0.000000	0.00000	0.00000	0.00000
PAPER & PAPER PRODUCTS 0.000000 0.000000 1.204FHER & LEAFRER PRODUCTS 0.000000 0.00019	~	_	0.00000.0	0.00000	0.000000	0.00000	0.00000
LEATHER & LEATHER PRODUCTS 0.000000 0.000019	0.000000.0	0.000000	0.000011	0.000000	0.000000	0.00000	0.00000
	_	-	0.00000	0.000000	0.00000	0.00000	0.000000
RAMERIA PRODUCTS 0.000000 0.000000	_	_	0.00000.0	0.00000	0.00000	0.00000	0.00000
PLASTIC PRODUCTS 0.000000 0.000000		_	0.000000.0	0.000006	0.00000	0.00000	0.00000
PETFOLION PRODUCTS 0.000000 0.000000	_	_	0.000000	0.000000	0.00000	0.00000	0.00000
CONT. TAR PRODUCTS	_	-	0.00000	0.00000	0.00000	0.00000	0.000000
PERTITIZENS 0.00000 0.000000 0	_	_	0.00000	0.000000	0.00000	0.00000	0.00000
PRETICIONS 0.000213 0.	0.000000	0.00000	0.000000	0.00000	0.00000	0.00000	0.00000
SINIBILITY TERMS & MASTER C. COCCOO		000000	000000	000000	9000		0.0000
CONCENT. 0.000000 0.000000	_	0.00000	0.00000	0.00000	0.00000	000000	0.000000

ANNEXURE 1.19
OUTPUT COEFFICIENTS

COMMODITY BY INCOMPRE TABLE

Charles Char					*	M I M I M I M	· · · · · · · · · · · · · · · · · · ·				
### Million 19973	N COMMODITY ANCTOR	4	42	:	=	\$	ş	+	\$	\$	8
### CHAPTER CONTROL CO	11 OTE. NOW MET. MINERAL PRODE.	0.997373		0.000000	0.000000	0.00000	0.00000	0 000000	000000	000000	000000
Comparison Com		0.00000	0.974283	0.053010	0 000016	000000	0 00000	0 00000	000000	00000	0
CHAPTER MACH CONTROL		0.00000	0.000026	0.927240	0.00000	0.00000	0.00000	000000	0.00000	0.00000	0.00000
## TACL HAZING	14 TRACTORS & OTS. AGRI MACH.	0.00000	0.00000	0.00000	0.929290	0.00000	0.000971	000000	000000	0 00000	000000
### CALCH MACHINETY ### CA		0.00000	0.00000	0.000000	0.000365	0.886489	0.021825	0.000024	000000	000000	000000
CONTROL CONT		0.000511	0.003887	0.000490	0.015574	0.112834	0.948813	0.004789	0.012945	0.000053	000000
	17 ELECTRICAL MACBINERS	0000000	0.000010	0.005452	0000000	0.00000	0 002883	0.976435	0.022506	0.012143	0.00000
### CALTHRING 0.000000 0.000000 0.000000 0.000000 0.000000		0.000000	0.00000	0 00000	0.00000	0.00000	0.000000	0.004381	0.841899	0.058296	000000
	-	000000 0	0.000000	0.00000.0	0.000000	0 000000	0 002165	0.003660	0.087754	0.928566	0.00000
VARIGUES (100000 100000 0 00000 0 00013 0 00013 0 00010 0 00113 0 00010 0 0001	_	0.000000	0.000409	0000000	0 0000056	000000 0	0.001772	0.000014	0.000000	0.000000	0.505090
TAMESTER EXCUINGS 0.000206 0.000205		0.00000	0.000906	0.00000	626500 0		07.8810.0	0.007850	00000		00000
**************************************		0.00000	0.002069	0 000249	0 000085		000801	2000	00000	00000	
		0.000970	0 018421	0 012720	0 051347	0 000673	0 002383	0 001874	0.034896	0 000746	
		000000 0	0.000000	0.00000	0 000000	0 000000	000000	0000000	0 000000	000000	00000
TRANSPORT SERVICE (2,00000) 0,000000 0,000000 0,000000 0,000000 0,000000		000000	000000 0	0 000000	0.00000	0.00000	0.00000	0000000	0.00000	000000	00000
TAMAGNET SERVICE (0.00000 0.000000 0.000000 0.000000 0.000000		0.00000	0000000	0 000000	0.00000	0.000000	0.00000	0 000000	0.00000	0.00000	0.493083
#124/134 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000		0000000	0000000	0 000000	000000 0	0 000000	0.000066	0.00000	0.00000	0.00000	0.00000
0.000000 0.000000 0.000000 0.000000 0.000000		0.000000	0 000000	0000000	0000000	000000	0.000000	0.000000	0.000000	0.00000	0.000000
##WICES 0.000000 0.000000 0.000000 0.000000 0.000000	100	0000000	0.00000	0 000000	0.000000	0.00000	0 000000	0.000000	0.00000	0.000000	0.00000
1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	SO CTHER SERVICES	0,000000	0.000000	0 000000	0.000000	0.000000	0.00000	0.00000.0	0.00000	0.000000	0.000000
1.000000 1 000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000											
	11 TOTAL	1.000000	1 000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
											Contd

ANNEXURE 1 19 OUTPUT COEFFICIENTS

				-	NOUST	RIES				
SN COMMODITY SECTOR	51	52	53	20	55	56	53	8	es S	\$
1 PADDY	0 000000	0 000000	0 000000	0 000000	0 000005	0 000000	0 000000	0000000	0 000373	0 000707
2 HIEAT	0000000	0000000	0 000081	0000000	0 000035	000000	000000	000000	000000	0000000
3 UT-LK CENERLS	000000	0000000	000000	000000	000000	000000	000000	000000	0	0 000025
S STEADONE	000000	0000000	0 000000		0000000	0 00000	000000	000000	0	0 000000
e Jure	000000	0.00000 0	0 000000		0 000000	0000000 0	0 000000	000000 0	0	0 000000
7 COTTON	000000 0	0000000	0 000000	0000000 0	0 000000	0 000000	0 000000	000000 0	0	00000 0
8 TEA	0 000000	0 000000	0000000	0000000	000000 0	0000000	0 000000	000000	0	000000
9 COFFEE 0 RUBBER	0 000000	0000000	0 0000000	0000000	0000000	0 000000	0000000	0000000 0	0000000	000000
anomi manno s	00000	000000	000000	000000	0.00000	000000	0000000	000000	070000	0 000228
	000000	000000	000000	000000	0000000	000000	000000	000000	000000	000000
3 FORFSTRY E 1000110	0000000	0000000	0000000	0000000	0000000	0000000	0000000	0000000	0 000000	0 000000
4 FISHING	0000000	0000000	0 000000	0 000000	0000000	0 000000	0000000	0 000000	000000 0	0000000
5 COAL & LIGHTIE	0 000000	0 000000	0 000000	0 000000	0000000	0 000000	0000000	0 000000	000000 0	0 00000
	000000 0	0 000000	0000000	0000000	0000000	0000000	000000	0000000	0000000	000000
	0000000	0000000	000000	000000	000000	000000	000000	000000	00000	•
18 OTHER PETABLIC MINERALS	000000	000000	000000	000000	000000	000000	000000	0000000	0000000	
		0000000	0 000000	0 000000	0 000123	0 000000	0 000000	0 000000	0 000104	0 000817
21 KENNIGART BOORS	0000000	000000 0	0 000000	000000	0 000003	0000000	000000	0 000000	900000 0	0
		0000000	0000000	0 000000	0 000007	0 000000	0 000000	0000000	0 000180	0
23 OTHER FOOD & BEVERAGE				0 000000	0 000162	000000 0	0000000		0 002109	0 005588
24 COTTON TEXTILES	0000000	0000000	0000000	000000	0 000000	000000	000000	000000	000000	0 013292
		0000000	0 000026	0000000	0 000001	000000	0000000	0 000000	0	0 001430
		0 0000000	0000000 0	0 000000	0 000176	0 000000	0000000	0 000000	0	0 000227
		0000000	0000000	0000000	000000	0000000	0000000	0000000	0 000506	0 037031
29 WOOD & WOOD PRODUCTS 30 PAPER & PAPER PRODUCTS	0000000	0 0000000	0 000548	0000000	0 000155	0000000	0000000	0000000	0 000249	0 001920
LEATHER & MEATHER PRODUCTS	000000 0	0 000310	€ 0002B4	0 000000	000000 00	000000 0	0 000000	0 000000	0	٥
	000000	0 000000	000000 0	0 000000	0 000001	0000000	000000	0000000	0 000246	0 001156
33 PLASTIC PRODUCTS	0000000	0000000	000000	000000	0 000001	000000	000000	000000	•	•
	0000000	0000000	0000000	0 000000 0	0 000000	0 000000	0000000	0 000000	0	0
	0000000	000000 0	000000 0	0000000	0 000023	0000000	0 000000	000000	•	0
	0000000	0000000	000000	0 000000	0000000	0000000	000000	0000000	0 000100	0 000052
CHENICALS	0 000000	0000000	0 002899	0000000	0 000221	000000	0	000000	•	
O CENTRAL	0 000000	0000000	000000 0	000000	9000000	0000000	0	000000	0	0

ANNEXURE 1.19 OUTPUT COEFFICIENTS

				-	INDUSTR	R 1 2 5				
EN COMMODITY SECTOR	ES.	52	53	¥	55	26	57	8	89	8
41 OTH NOW HET HINERAL PRODS	0 000000	000000 0	0 000920	0 000000	0 001652	0 000000	0 000000	0 000000	0 000322	0 001232
42 IRON & STEEL	0 000000	0 000000	0 060745	0 000000	0 002520	0 000000	0 000000	0000000	0 001654	0 001212
43 NOW FERROUS METALS	0 000356	0 000000	0 001248	0 000000	0 000001	0 000000	0000000	0 000000	0 000103	0 000309
44 TRACTORS & OTH AGRI MACH	0 000000	0 000579	0 004907	000000 0	0000000 00	0000000	0000000	0 000000	0 000205	0 000572
45 HACHINE TOOLS	0 000000	0000000 0	0 016742	0000000	0 000000 0	0 000000	000000 0	0 000000	0 000157	0 000414
46 OTH NON ELECTRICAL HACH	0 000146	0 000238	0 011539	000000 0	0 000097	0 000000	0 000000	0000000	0 001953	0 002886
47 ELECTRICAL MACHINERY	0 000000	0 000000	0 001198	0 000000	990000 0	0 000000	0 000000	0000000	0 001746	0 002915
48 COMPANICATIONS EQUIPMENT	0000000	0 000000	0 000365	000000 0	0 000000	0 000000	0000000	0000000	0 000171	0 000106
49 ELECTRONIC EQUIPMENT	0000000	0 000000	0 000240	0000000	0 000000	0 000000	0 000000	000000 0	0 000354	0 000284
SO RAIL EQUIPMENT	0000000	0 000000	0 000005	0 000000	2000000 0	0 000000	0 000000	0000000	0 000379	0 000085
	0 977570	0 001762	0 005612	0000000	0 000000	0000000	0000000	0000000 0	0 000540	0 000034
52 OTHER TRANSPORT EQUIPMENT	0 021291	D 990175	0 001205	0 000000	0 000000	0000000	0000000	0 000000	0 002609	0 004369
53 OTHER MANUFACTURING	0 000628	0 000861	0 890172	0 000000	0 000001	0 000000	0000000	0000000	0 000954	0 007899
	000000 0	0000000 0	0 000000	1 000000	0 000000	0 000000	0 000000	0 000000	0 000000	000000 0
	0 000000	000000 0	000000 0	0 000000	0 670100	0 000000	0000000	0000000	000000	0000000
56 FAIL TRANSPORT SERVICE	0 000000	000000 0	0 000000	0 000000	0 000000	566666 0	0000000	0000000	0 000000	000000 0
57 OTHER TRANSPORT SERVICE	0 000000	0000000	0 000000	0000000	0 000000	0000000	666666 0	0000000 0	000000 0	0000000
58 COMMICATION	0000000	0 000000	0 000000	0 000000	0000000	000000 0	0000000	666666 0	0 000000	0 000000
59 TRADE	000000 0	0000000	0000000	0 000000	0 000000	0 000000	0000000	0 000000 0	0 979460	0000000
60 OTHER SERVICES	0 000000	0 000000	0000000	0000000	0 000000	0 000000	000000 0	000000 0	000000 0	0 905653
61 TOTAL	1 000000	1 000000	1 000000	1 000000	1 000000 1 000000	1 000000	1 600000	1 000000	1 000000	1 000000

Annexure:1.20
Capital Coefficient Matrix 1991-92

S.no	Sector	Construction	Machinery & Equipment	Changes in Stocks
1	Agriculture	0.5879	0.3717	0.0404
2	Forestry & logging	0.9118	0.0704	0.0178
3	Fishing	0.0026	0.9974	0.0000
4	Mining and quarrying	0.4076	0.5206	0.0718
5	Manufacturing	0.2346	0.6114	0.1540
6	Construction	0.1374	0.7243	0.1383
7	Electricity	0.4410	0.5183	0.0407
8	Rail Transport	0.4868	0.5022	0.0110
9	Other Transport	0.1110	0.8528	0.0362
10	Communications	0.4844	0.4965	0.0191
11	Services	0.6473	0.1964	0.1563

Annexure:1.21
Trade, Rallway, and Other Transport Margins

s.No	. SECTOR	TRADE MR.	RLY.MR.	OTH.TP.MR
1.	PADDY	0.0956	0.0036	0.0016
2.	WHEAT	0.0885	0.0098	0.0022
3.	OTHER CEREALS	0.0679	0.0016	0.0027
4.	PULSES	0.0642	0.0054	0.0011
5.	SUGARCANE	0.1537	0.0037	0.0100
6.	JUTE	0.2335	0.0007	0.0486
7.	COTTON	0.1944	0.0007	0.0750
8.	TEA	0.1323	0.0000	0.0253
9.	COFFEE	0.0561	0.0000	0.0104
10.	RUBBER	0.4021	0.0041	0.0047
11.	OTHER CROPS	0.0794	0.0028	0.0058
12.	ANIMAL HUSBANDRY	0.1187		0.0030
13.	FORESTRY & LOGGING	0.2088	0.0252	0.0023
	FISHING	0.1864		
	COAL & LIGNITE	0.2765	0.1735	0.0208
	CRUDE PETRODEUM & N. G		0,0000	
	IRON ORE	0.3087	0.2859	0.0300
	OTHER METALLIC MINERAL		0.0376	0,0052
19.	NON MET. & MINOR MINER	0.5493	0.0564	0.1063
	SUGAR	0.1213		
		0.0566		
	HYDROGENATED OIL	0.1358	0.0011	0.0066
23.	OTH. FOOD & BEVERAGE I	0.1214	0.0047	0.0090
	COTTON TEXTILES		0.0012	
	WOLLEN TEXTILE		0.0004	0.0063
26.	ART SILK & SYNTH, FIBR	0.0606	0.0002	0.0046
	JUTE, HEMP. MESTA TEXT		0.0169	0.0059
	OTHER TEXTILES	0.1049	0.0005	0.0048
	WOOD & WOOD PRODUCTS			0.0203
	PAPER & PAPER PRODUCTS			
	LEATHER & LEATHER PROD			
	RUBBER PRODUCTS		0.0023	0.0025
	PLASTIC PRODUCTS	0.2094	0.0000	0.0056
	PETROLEUM PRODUCTS	0.2015	0.0300	0.0073
	COAL TAR PRODUCTS	0.2856	0.0119	0.0268
		0.2050	0.0621	0.0206

Contd.

Annexure:1.21 (contd.)
Trade, Railway, and Other Transport Margins

s.NO	. SECTOR	TRADE MR.	RLY.MR.	OTH.TP.MR
	PESTICIDES	0.0681		
38.	SYNTH.FIBRE & RESIN	0.1127	0.0000	0.0055
39.	OTHER CHEMICAL	0.1737	0.0018	0.0096
40.	CEMENT	0.2047	0.1074	0.0227
41.	OTHER.NON.MET.MINERAL	0.1349	0.0017	0.0145
42.	IRON & STEEL	0.1019	0.0295	0.0080
43.	NON FERROUS METALS	0.0826	0.0032	0.0048
44.	TRACTORS & OTH. AGRI.M	0.0981	0.0020	0.0044
45.	MACHINE TOOLS	0.0900	0.0080	0.0025
46.	OTH. NON. ELECTRICAL M	0.0760	0.0093	0.0028
17.	ELECTRICAL MACH.	0.1368	0.0027	0.0018
18.	COMMUNICATIONS EQUIP.	0.1542	0.0000	0.0019
9.	ELECTRONIC EQUIP.	0.1740	0.0000	0.0089
.o.	RAIL EQUIPMENT	0.0071	0.0000	0.0000
51.	MOTOR VEHICLES	0.0895	0.0000	0.0022
52.	OTH. TRANSPORT EQUIP.	0.0655	0.0043	0.0053
3.	OTH. MANUFACTURING	0.1412	0.0125	0.0000
54.	CONSTRUCTION	0.0000	0.0000	0.0012
55.	ELECTRICITY ETC.	0.0021	0.0000	0.0003
56.	RAIL TRANSPORT SERVICE	0.0000	0.0000	0.0000
57.	OTH. TRANSPORT SERVICE	0.0000	0.0000	0.0000
58.	COMMUNICATION	0.0000	0.0000	0.0000
59.	TRADE	0.0000	0.0000	0.0000
60.	OTHER SERVICES	0.0000	0.0000	0.0000

Annexure.1.22 Investment by Destination, 1996-97

SN	Sector	Chang Stock		Gross Fixed Investm	ent	Total
1	Agriculture	23935	4	11232	3	35167.7
2	Forestry & logging	18	7	0.	0	-18.7
3	Fishing	0	0	0.	0	0.0
4	Mining and quarrying	3660	9	0	0	3660.9
5	Manufacturing	139750	ь	736872	5	876623.1
6	Construction	0	0	14 032.	8	747032.8
7	Electricity	0	0	0	0	0.0
8	Rail Transport	0	0	911	3	1911.3
9	Other Transport	0	0	/341	7	7341.7
10	Communications	0	0	0	0	0.0
11	Services	0	0	49811	3	49811.3
-	Total	167328	2	1554201	<u>،</u>	1721530.1

Annexure:1.23 Parameters of Investment Function

		ICOR	LAG	AUTO
1	AGRICULTURE	0.7953	5	72819
2	FORESTRY AND LOGGING	0.0376	6	5600
3	FISHING	1.2134	1	2117
4	MINING AND QUARRYING	1.9228	3	6270
5	MANUFACTURING	0.7259	4	21059
6	CONSTRUCTION	1.0230	2	7554
7	ELECTRICITY	1.7318	6	35372
8	RAILMAYS	2.2131	6	18589
9	OTHER TRANSPORT SERVICES	0.5177	6	10625
10	COMMUNICATION	2.8813	3	6247
11	OTHER SERVICES	0.7861	3	11440

Legend : 1. ICOR = Incremental Capital Output Ratio. 2. AUTO = Autonomous Investment.

Annexure: 1.24
Sector Classification of Input-Output Table

s.NO.	SECTOR		
	1/0	CS	SO CLASSIFICATION
	PADDY		PADDY
2.	WHEAT	2	WHEAT
3.	OTHER CEREALS	3	JOWAR 4. BAJRA 5. MAIZE
4.	PULSES	6	GRAM 7. PULSES
5.	PULSES SUGARCANE	8	SUGARCANE
6.	JUTE COTTON	10	JUTE
7.	COTTON	11	COTTON
8.	TEA	12	TEA
9.	COFFEE	13	COFFEE
10.	RUBBER	14	RUBBER
11.	OTHER CROPS	9	GROUNDNUT 15. COCONUT 16. TOBAC
		17	OTHER CROPS
12.	ANIMAL HUSBANDRY	18	MILK & POWDER 19. ANIMAL SERVICE
		20	OTHER LIVE STOCK SERVICES
13.	FORESTRY & LOGGING	21	FORESTRY & LOGGING
14.	FISHING	22	FISHING
15.	COAL & LIGNITE	23	COAL & LIGNITE
16.	CRUDE PETROLEUM NATURAL GAS	24	CRUDE PETROLEUM & NATURAL GAS
17.			
18.	IRON ORE OTHER METALLIC MINERALS	26	MANGANESE ORE 27. BAUXITE
		28	COPPER ORE 29. OTHER NON-METALS
19.	NON METETALLIC MINOR MINERALS	30	LIME STONE 31 MICA 32 OTHER NON-METALLIC MINERALS
20.	SUGAR	33	SUGAR
21.	SUGAR KHANDSARI BOORA HYDROGENATED OIL OTHER FOOD & BEVERAGE	34	KHANDSARI BOORA
22.	HYDROGENATED OIL	35	HYDROGENATED CIL
23.	OTHER FOOD & BEVERAGE	36	EDIBLE OIL OTHER THAN VANASPAT
	INDUSTRIES	37	TEA AND COFFEE PROCESSING
		38	MISC. FOOD PRODUCTS
		39	BEVERAGES 40 TOBACCO PRODS.
24.	COTTON TEXTILES	41	KHADI TEXTILES 42 COTTON TEXTI
25.	COTTON TEXTILES WOOLEN TEXTILES	43	WOOLEN TEXTILES
26.		44	SILK TEXTILES
			ART SILK, SYNTHETIC FIBRES
27.	JUTE HEMP MESTA TEXTILES	46	JUTE, HEMP MESTA TEXTILES
			CARPET WEAVING
		48	READYMADE GARMENTS
		49	MISCELLANEOUS TEXTILES PRODUCTS
29.	WOOD & WOOD PRODUCTS	50	FURNITURE & FIXTURES
		51	WOOD AND WOOD BOARDS

Contd.

Annexure:1.24 (contd.) Sector Classification of Input-Output Table

		cs	o classification
30.	PAPER & PAPER PRODUCTS	52 53	
31	LEATHER & LEATHER PRODUCTS	54	LEATHER FOOTWEAR LEATHER & LEATHER PRODUCTS EXCEPT FOOTWEAR
32	RUBBER POLUCTS	56	RUBBER PRODUCTS
33	PLASTIC PRODUCTS	57	PLASTIC PRODUCTS
34	TROLEUM PRODUCTS	58	PETROLEUM PRODUCTS
35	CUAL TAR PRODUCTS	59	COAL TAR PRODUCTS
36		62	FERTILIZER
37			PESTICIDES
38	SINTH: IC FIBRES & RESIN	67	SYNTHETIC FIBRE & RESIN
39	OTHER CHEMICALS		INORGANIC HEAVY CHEMICALS
			ORGANIC HEAVY CHEMICALS
			PAINTS VARNISHES & LACQUER
			DRUGS 4 MEDICINES
			SOAPS & COSMETICS
			OTHER CHEMICALS
40			CEMENT
41	1 1		STRUCTURAL CLAY PRODUCTS
			OTHER ION METALLIC MI JERALS
4 ?	RON & STE	72	IRON & STEEL FERRO ALLOYS IRON & STEEL CASTING ALLOYS
		73	IRON & STEEL CASTING ALLOYS
4.5	NON FERROUS METALS	74	IRON & STEEL FOUNDRIES NON-FERROUS BASIC METALS
44		70	TRACTORS & OTHER
**	"RACTY & OTHER I. ILTERAL MACHINARY	10	ACRICIONS & OTHER
45	(HINF TOOLS	81	AGRICULTURAL MACHINARY MACHINE TOOLS
46	OTHER LIECTRICAL	79	INDUSTRIAL MACHINARY FOOD
	MACHINA h	RΩ	INDUSTRIAL MACHINARY EXCLUDING
			OFFICE COMP & ACE EQJIPMENT
			OTHER NON-ELECTRICAL ACHINARY
47	FLEC "RICAL MACHINARY	84	ELECTRICAL INDUSTRIAL MACHINARY
		85	ELECTRICAL CABLES WILL
			BATTERIES
			ELECTRICAL APPLIANCES
		89	OTHER ELECTRICAL APPLYANCES
e 12	COMMUNITATIONS EQUIPMENT	88	COMMUNICATION EQUIPM 17
40	COMMUNITATIONS EQUIPMENT CONIC FQUIPMENT ALL FQUIPMENT MOTOR VEHICLES	90	ELECTRONIC EQUIPMENT
٠.	ALL FQUIPMENT	92	RAIL EQUIPMENT
	MOTOR VEHICLES	93	MOTOR VEHICLES
5.∉	THE TRANSPORT EQUIPMENT		
		95	MOTORCYCLE & SCOOTER
53	THER MANN FACTURING		OTHER TRANSPORT EQUIPMENT HAND TOOLS
33	TER PERICHACTURING	77	
			WATCHES & CLOCKS
		98	MISCELLANEOUS MANUFACTURING
			HISCELLARING MANOEN TOKANO

Contd

Annexure:1.24 (contd.) Sector Classification of Input-Output Table

S.NO.	SECTOR	
	1/0	CSO CLASSIFICATION
54.	CONSTRUCTION	99 CONSTRUCTION
55.	ELECTRICITY GAS	100 ELECTRICITY
	WATER SUPPLY	101 GAS
		102 WATER SUPPLY
56.	RAIL TRANSPORT SERVICE	103 RAIL TRANSPORT SERVICES
57.	OTHER TRANSPORT SERVICE	104 OTHER TRANSPORT SERVICES
58.	COMMUNICATION	106 COMMUNICATION
59.	TRADE	107 TRADE
60.	OTHER SERVICES	10' STORAGE
		10F HOTELS PESTAURANTS
		10° BANKING
		110 INSURANCE
		1.1 OWN DWELLING
		11 TOUCATION & RESEARCH
		11 .EDICAL & HEALTH
		11, OTHER SERVICES
		1 PUBLIC ADMINISTRATION

Annexure: 1.25 Mapping of Input-output Sectors (60) to National Accounting Frame (11)

	SN COMMODITY	60 SECTORS			
1.	AGRICULTURE	1 TO 12			
2.	FORESTRY AND LOGGING	13			
3.	FISHING	14			
4	MINING AND QUARRYING	15 TO 19			
5.	MANUFACTURING	20 TO 53			
6.	CONSTRUCTION	54			
7	ELECTRICITY	55			
8.	RAIL TPT	56			
9	OTHER TPT	57			
10	COMMUNICATIONS	58			
11.	OTHER SEVICES	59,60			

Annexure-3.1 Macroeconomic Identities in the Framework of National Accounts

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	GNPMP GNDI GIG GCT GDI GNS GS SPB PDI HDI HS GNDI GNDI GNDI GNDI GNDI	 GIG GDI GNS GS GNDI PDI HDI GDI	+ NFI + OCT + GRE + IPD - GCT - GCB + DEPG + SRC - GDI - SPC - PCE - PCE + SPC	+ CTRE + SPE - SRC + SPC + HS	+ CTRW - SPE + SRC	+ SPE
13. 14. 15. 16. 17. 18. 19. 20. 21. 223. 224.	CTRE CTRW GDI GCE GNS DEPG	 Gross Do Net fact Other cu Gross Na Income a Annome a And prop Tax and Gross In Governme and the Subsidie Interest Current Current Governme Governme Governme Savings Savings Savings Private Savings Savings Private Savings	mestic Promostic Processing of the control of the c	eous receip he Governme t transfers c debt: to rest of to rest of able income ption expen vings tion of the savings savand comme partmental: sector e Income e corporate all disposa sumption expen old sector	rket priced abroad come t from ent ts of Gove nt to rest o the econo the world diture Governmen unications public ent sector ble income	repreneurship rowent of the economy my ut Sector erprises

Annexure-3.2 Regression Equations - Linear

							ie		i²	_
l le	Vertable	Intercept			WFR.			60196	-	
;	1	2	3	4	6	•	7	•	•	70
i	#	-5755 886 (-1 810)	# 22518 (19 978)			-		-	. 100	1 038
2	904	\$2800 211 (1 889)	0 219789	-52970 1 (2 969)	-	-	-	-	0 00	1 508
•	MES.	-11177 371 (-3 433)	(22 20.,	12 200,	-	0 246439 (17 116)	-	•	9 97	1 010
•	PA.	-5056 220		-	-	d 12348\$	-	-		1 427
	MDI	\$570 35# (4 172)	0 782786		-	-	-	-	1 90	1 783
6	MITS	- 2122 813 (-3 474)		•	-	0 12295 (15 778)	-	•		2 869
7	BC .	-1308 243 (-1 746)	0 01714 (6 449)	-	-		-	-	• 82	2 342
•	ac.	(0 395)	(2 705)	-120 55 (2 572)	-	-	-	-	0 82	2 826
•	280	-12372 B20 (-2 669)			-	0 020401 (5 924)	267 257 (2 123)	-	0 46	2 521
14	LIF	3451 837 (3 056)	-	-64 1659 (8 762)	-	0 034103 (13 948)	-	-	0 80	2 524
11	**	-1658 312 (-4 966)	-		-	(20 256)		•	4 94	1 161
12	27	(0 718)	-	-81 8031 (2 368)	-	6 057002 (4 956)	-	-	0 20	2 468
13	HC6	(-3 371)		•	•	(10 826)	•	•	0 93	1 991
14	79.4	-9034 780 (-20 553) 17100 695	[60 918] 0 034719	•	•	•	-	-	0 99	2 232
13	PCS	(-2 585)	(9 418)		-	-		372 0399 (2 008)	0 84	1 440
16	FCS	-7527 054 (- 526) -6343 334	(3 720)	-142 039 (1 723)	:	•	\$67 \$475 (1 832)	•	4 97	2 340
17 18	DED DED	(-4 354) -6031 606	(23 034)	-	•	6 122355		•	• •	1 350
	DD DD	[-5 166] 19299 613				6 122355 (23 696)	-	-	0 24	1 416
19 20	200 200	(1 162) 15952 772	(6 707)	(3 330) -330 412	-	0 231796	-	•	0 99	2 169
20 21	ne ne	(1 001)		(3 196)	- 1	(4 737)	-	765 125	0 99	2 060
21	10	(-3 420)	(17 \$10) 0 340112		_	-	_	(2 410)	0.88	0 787
22	70	-17554 153			-	0 405451		_	4 88	0 941
23	***	(-11 P20) 15430 77	0 54108	-509 635	_	(46 452)	_		0 22	1 103

LEGEND

12345678910	GDS HHS PA HDI HFS	Gross Domestic Saving Household Saving Plysical Assests Household Disposable Income Household Financial Savings
6	HC	Savings in Currency
Ž.	HSD	Savings in Shares and Debentures
8	LIF	Life Insurance Fund
9	PF	Provident Fund
10	NCG	Net Claims on Government
11 12 13	PES	Savings of Public Enterprises
12	PCS	Savings of Private Corporate Sector
13	DD	Demand Deposits
14	TĐ	Time Deposits
14 15 16 17	GDPMP	Gross Domestic Product at Market Prices
16	WPI	Wholesale Price Index
17	WPR	Wholesale price ratio of primary to manufacturing items
18 19	GDPAGC	Share of Agriculture and allied in GDP at constant prices
19	GDPAG	Share of Agriculture and allied in GDP at current prices

N B 1 The regression are estimated using the time series data for the period 1980-81 to 1983-90 2 Pagues in parenthesis contain t-values

Annexure-3.3 Regression Equations - Log Linear

	Depondent	Integrapt			Independ	ont Variab	le		-2 B	
. 100	ABERTA	The state of the s	LEDRO	UP2	2,0000	LMDI	WDPAGC	CD PAG		2360
	1	2	3	4	3	6	7	,	•	20
ι.	1604	-2.084	1.0387						0.98	0 96
١.	1.005	-1.067	1.024654	-	-1.0219 (2.361)	-	-	-	9.98	1.66
١.	THE	-3.9967	,	-	1-12017	1.190442	-	-	0.96	1.02
ŀ.	LPA	-3.6074	-	-	-	1.103822	-	•	0.88	1.29
١.	LEDI	0.177332	0.968455	-	-	(4. 410)	-	-	9.82	1.44
5.	LEPS	-6.1365	,	-	-	1.30536	-	•	0.96	2.851
١.	THE	-15.5544	-	-	-	1.862544	-	-	0.44	2.61
١.	LHAD	-16. 953	-	-	-	1.096561	-	6.216964 (1.896)	9.88	1.74
٠.	LLIP	-8.871	•	-	-	1 336179	-		0.96	0.550
LO .	TTIE	-13.715	•	-3.44027 (1.258)	-	(2 201)	-	-	0 98	0.64
11.	LPP	-7.568	-		-	1.30369	•	•	0 98	1.42
L2 .	LPRS	-12.6724	(18.097)	-	•		-	-	0.97	0.64
14.	TACE	-8.4660	(14.322)	-	-	-	-	-	0 96	1.130
15.	TACE		1 599679 (10.445)	•	-	-	1 963235	-	0 97	1.59
16.	IDO	-5.4049	(25 564)	-	•		•	•	0 99	1 57
١7.	120	-5.6372	•	-	•	1 26475 (27 462)	-	-	0 99	1.74
	TOD	-10.9634	1 35698 (18.518)	-	~	-	1.0968 (2 155)	-	0 99	2 26
٥.	LID	-5.3054	(63.627)	-	-		-	-	0 55	1 16
10.	LTD	-5.6177	- '	-	-	1 37334 (\$3 625)	•	-	0.99	1.114

N.B.:1. Variable with prefix 'L' are logarithmic values of the variables in Annexure-3.2

2 the regression are estimated using the time series data for the period 1980-91 to 1983-90.

3. Figures in parenthesis contain t-values.

Amneuure-3.4 Regression Equations with Lagged Variables

1.	GDSt =	-8816.84 + 0.268124 (15.454)	GDPMPt-1	R = 0.97
2.	HHSt -	-15536.96 +0.300008 (15.175)	HDIt-1	$\overline{R}^2 = 0.97$
3.	LGDSt -	-1.0827 + 1.082375 (13.553)	LGOPMPt-1	$\vec{R}^2 = 0.96$
4.	LHHSt =	-2.21398 + 1.29232 (14.082)	LHDIt-1	$\overline{R}^2 = 0.97$

- N.B. 1. The variables used in the regression equations have been defined in Annesure-3,2 4 3 3.

 2 The regression are estimated using the time series data for the period 1880-81 to 1989-90.

 3 Figures in parenthesis contain t-values

Annuture-4.1
Foodgrains: Estimation of Grees Cropped Area, Grees Errigated Area and Yield

1.	GCA	= -49,933	+ 1.378 MSA + 0.518 GIA (5.62) (11.51)	$\overline{R}^2 = 0.93$
2.	GCA(Pg)	- 58.400	+ 0.377 GCA (3.49)	$\tilde{R}^2 = 0.55$
3.	GIA(Fg)	- 6.4172	+ 0.6254 GIA (33.99)	$\bar{R}^2 = 0.99$
4.	Yield (Fg)		+ 8.758 FCPU(Fg) + 3.628 RINI (18.6) (4.99)	
LEG	END:			
1.	gca = G	ross Croppe	ed Area under All Crops	
2.	GIA = G	ross Irriga	sted area under All Crops	
2. 3.	GCA(Fg) = G	ross Irriga Fross Croppe	sted area under All Crops ed Area under Foodgrains	
2. 3. 4.	GIA = G GCA(Fg) = G GIA(Fg) = G	ross Irriga Fross Croppe Fross Irriga	sted area under All Crops ed Area under Foodgrains ated area under Foodgrains	
2. 3. 4.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F	ross Irriga Fross Croppe Fross Irriga Fertiliser (ated area under All Crops and Area under Foodgrains ated area under Foodgrains Consumption per unit of	
2. 3. 4. 5.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F	ross Irriga Fross Croppe Fross Irriga Fertiliser (Fropped area	ated area under All Crops and Area under Foodgrains ated area under Foodgrains Consumption per unit of a under foodgrains	
2. 3. 4. 5.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F RIND = F	cross Irrigations Cropped Fross Irrigations Fross Irrigations Company of the Comp	sted area under All Crops ed Area under Foodgrains sted area under Foodgrains Jonsumption per unit of a under foodgrains dex	
2. 3. 4. 5.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F RIND = F NSA = N	ross Irriga ross Croppe ross Irriga retiliser (ropped area ainfall Ind ret Sown Area	sted area under All Crops and Area under Foodgrains ated area under Foodgrains consumption per unit of a under foodgrains dex a	.da
2. 3. 4. 5.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F RIND = F NSA = N	ross Irriga ross Croppe ross Irriga rertiliser (ropped area ainfall Ind ret Sown Area	sted area under All Crops ed Area under Foodgrains sted area under Foodgrains Jonsumption per unit of a under foodgrains dex	odgrains
2. 3. 4. 5. 6. 7.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F RIND = F NSA = N YIELD(Fg) =	ross Irriga ross Croppe ross Irriga rertiliser (ropped area ainfall Ind ret Sown Area	sted area under All Crops and Area under Foodgrains ated area under Foodgrains consumption per unit of a under foodgrains dex a	odgrains
2. 3. 4. 5. 6. 7. 8.	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F RIND = F NSA = N YIELD(Fg) =	cross Irrigations Cropped Formulater (propped area	sted area under All Crops ed Area under Foodgrains sted area under Foodgrains Jonsumption per unit of sunder foodgrains lex amit of cropped area under foo med at 141.0 million hectare	odgrains
2. 3. 4. 5. 6. 7. 8.	GIA = G GCA(Fg) = G GIA(Fg) = F FCPU(Fg) = F RIND = F NSA = N YIELD(Fg) =	Fross Irrigg Fross Croppe Fross Irrigg Fertiliser (Fropped area Lainfall Index (et Sown Area Yield per 1 1996-97 assi	sted area under All Crops ed Area under Foodgrains ated area under Foodgrains Consumption per unit of a under foodgrains sex ex anit of cropped area under foo amed at 141.0 million hectare under at 99.3 million hectare	
4. 5. 6. 7. 8. N.E	GIA = G GCA(Fg) = G GIA(Fg) = G FCPU(Fg) = F RIND = R NSA = N YIELD(Fg) = G 1. NSA in 1 2. GIA in 1 3. Estimate	iross Irrigi iross Croppp iross Irrigi Pertiliser (cropped area ainfall Indiet Sown Ari Yield per v .996-97 assi s are based	sted area under All Crops ed Area under Foodgrains sted area under Foodgrains Jonsumption per unit of sunder foodgrains lex amit of cropped area under foo med at 141.0 million hectare	

Annexure-4.2 <u>Estimation of Gross Cropped Area and Output of Feedgrain Crops</u>

```
I. Estimation of Gross Cropped Area:
1. GCAR = -14.80 + 0.4501 GCA (Fg) \tilde{R}^2 =0.61
                          (5.87)
2. GCAP = -9.35 + 0.2596 GCA(Fg) R^2 =0.74
                           (7.91)
II.Estimation of Output
1. P RICE = -68.35+2.3374 GCAR+7.1455 FCR+0.1017 RIND \mathbb{R}^2 = 0.97
                                        (6.80) (1.23)
                          (3.50)
2 P WHEAT = 24.30 + 2.302 GCAW + 7.092 FCW \overline{R}^2 = 0.93
                            (2.62)
                                             (6.79)
3 P PULSE = -10 776+0.7112 CCAP+0.037 RIND+26.1517 FCP R^2 = 0.84
                             (2.19)
                                            (1.12) (2.27)
4. FOC = -49 57 + 1 52 GCAOC + 21.0 FCOC R^2 = 0.51 (2.88)
LEGENO:
1. GCAR - Gross Cropped Area under Rice
2. GCAW - Gross Cropped Area under Wheat
3. GCAP - Gross Cropped Area under Pulses
4. GCACC - GROSS Cropped Area under Other Cereals
5. P. RICE - Production of Rice
POULSE - Production of Rice
Production of Wheat
Production of Pulses
Production of Other
Production of Other
               - Production of Other Cereals
9 GCA(Fg) = Gross Cropped Area under Foodgrains
10 FCR = Fertiliser Consumption under Rice
11 FCW = Fertiliser Consumption under Wheat
             Fertiliser Consumption under Pulses
Fertiliser Consumption under Other Cereals
Rainfa'l Index
12. FCP
13. FCOC
14. RIND
1. Estimates are based on data from 1970's and 1980's
```

2. Figures in parentheses are t-values.

Annexure-4.3

Estimation of State-Wise Foodgrain Production

State Statewise Foodgrain Production Equation
1 Andhra Prod.(Fg)= -6591.66 + 4.2651 F.C. + 1.6202 GCA(fg) R ² =0.83
Pradesh (5.44) (4.60)
2 Bihar Prod.(Fg)= -8966.76 + 7.2206 F.C. + 1.7251 GCA(fg) \overline{R}^2 =0.82 (4.81) (2.61)
3 Gujarat Prod.(Fg)= -4787.89+ 1.9147 F.C.+ 1.8296 GCA(fg) \overline{R}^2 =0.82 (0.95) (5.24)
4 Haryana Prod.(Fg) = -1316.40+10.2123 F.C.+ 1.2244 GCA(fg) R =0.86 (6.33) (2.39)
5 Kerala Prod. (Fg)= 290.09 +1.2492 GCA(fg) \overline{R}^2 =0.93 (11.13)
6 Madhya Prod. (Fg)= 12036.84 + 4.8007 F.C. \overrightarrow{R}^2 =0.43 Pradesh (2.48)
7 Maharastra Prod.(Fg)= -76858.28+ 6.2006 GCA(fg) $\overline{\aleph}^2$ -0.55 (3.09)
9 Orissa Prod.(Fg)= -20467.49+ 6.6916 F.C. + 3.8080 GCA(fg) \overline{R}^2 =0.91 (0.99) (3.07)
9 Punjab Prod.(Fg)= 1009.50 +14.5378 F.C. $\vec{\kappa}$ =0.91 (9.39)
10 Rajasthan Prod.(Fg)= -7203.61+14.8802 F.C.+ 0.9716 GCA(fg) \overline{R}^2 =0.68 (2.45) (3.27)
11 Tamil Nadu Prod.(Fq)= -1515.61+7.4408 F.C.+ 0.8399 GCA(fg) \widetilde{R}^2 +3.70 (3.95) (1.44)
12 Uttar Prod.(Fg)= 3177,79+10 6774 F.C.+ 0.4153 GCA(fg) $\overline{\mathcal{R}}$ =0 95 Pradesh (11.37) (0.58)
13 West Prod.(Fg)= -33743.79+ 7.0280 GCA(fg)
LEGEND:
1. Prod.(FG) = Production of Foodgrains ('000 tonnes)
2. F.C. = Fertilizer Consumption ('000 tonnes) 3. GCA (Fg) = Gross Croped Area under Foodgrains ('000 hectare)
N.B.:
1. Estimation is based on data of 1980's.
2. Figures in the parentheses contain t-values.

Amessure-4.4
Area, Production and Yield of Rice : Growth Rates

(percent per year, compound)

					bereene F	,,	
		Ar	:0à	Prod	luction	Yie	ld
Sl. No.	State	1971-74 to 1989-92	to 198 9- 92	1971-74 to 1 989- 92	1981-84 to 1989-92		to 1989-92
(0)	(1)	(2)	(3)		(5)		(7)
1.	Andhra Pradesh	1.46	0.53	3.95			
2.	Assan	1.12					1.86
3.	Bihar	0.08					3.92
4.	Gujarat	1.49		4.01	1.89	2.48	0.21
5.	Haryana	4.49	2.95	7.18	4.23	2.57	1.24
6.	Himachal Pradesh	-0.67	-0.84	-0.07	0.96	0.60	1.81
7.	Jammu & Kashmir	1.36	0.78	2.37	0.50	1.00	-0.28
8.	Karnataka	0.55	0.52	1.30	1.57	0.83	1.04
9.	Kerala	-2.43		-1.19	-2.66	1.27	2.88
10.	Madhya Pradesh	0.59	0.42	2.36	3.47	1.76	3.05
11.	Maharashtra	0.90	0.41	3.36	-0.21	2.43	-0.61
12.	Orissa	-0.21	0.76	2.32	5.35	2.54	4.55
13.	Punjab	0.23	4.9B	10.98	6.11	2.54	1.07
14.	Rajasthan	-0.32	-1.22	0.78	-0.93	1.11	0.29
15.	Tamil Nadu	-1.63		0.78	4.24	2.45	5.41
16.	Uttar Pradesh	1.03	0.39	5.53	5.80	4.46	5.39
17.	West Bengal	0.58	0.89	3.37	7.24	2.77	6.30
	All India	0.67	0.69	3.20	4.18	2.51	3.46

American-4.5
Area, Production and Yield of Wheat: Growth Enter

(percent per year, compound) Area Production Yield. **S1**. State 1971-74 1981-84 1971-74 1981-84 1971-74 1981-84 to to to to 1989-92 1989-92 1989-92 1989-92 1989-92 1989-92 (3) (0) (1) (2) (4) (5) (6) -1.52 Andhra Pradesh -3.90 -6.95 -4.99 2.48 2.09 2. Assam 1.67 -2.00 0.59 -3.03 -1.06 -1.05 3. Bihar 0.99 2.20 1.99 4.05 2.24 1.80 -0.75 4.18 4. Gujarat 0.97 -2.25 2.15 -2.97 1.17 5.36 5. Haryana 2.40 1.16 6.18 3.69 6. Himachal Pradesh 0.85 0.33 2.86 4.86 1.99 4.51 7. James & Kashmir 1.51 1.99 3.11 4.64 1.58 2.60 8. Karnataka -2.33 -5.12 -2.43 -7.32 -0.10 -2.32 9. Madhya Pradesh 0.04 -0.46 3.29 2.81 3.25 3.25 10. Maharashtra -0.62 -4.31 3.74 -2.22 4.39 2.19 ~7.56 -1.04 -9.96 -0.44 -2.60 11. Orissa -0.61 2.70 2.68 4.55 3.61 12. Punjab 1.81 0.91 3.81 4.02 13. Rajasthan 0.75 -1.66 4.59 2.29 11.17 14. Tamil Nadu -13,64 -21.59 -9.47 -12.83 4.82 Uttar Pradesh 1,95 0.58 5.64 3.07 3.61 2.48 15. 16. West Bengal -1.09 -1.61 -1.68 -1.41 -0.60 -2.98 1.20 0.10 3.02 2.92 4.44 All India

Amesure-4.6

Ares, Production and Yield of Course Cerests: Growth Rates

(Percent per year, compound) Yield Area Production S.No. State 1971-74 1981-84 1971-74 1981-84 1971-74 1981-84 to to to to to 1989-92 1989-92 1989-92 1989-92 1989-92 2 3 4 5 6 7 -0.94 -4.57 2.93 1.56 2.86 4.24 1. Andhra Pradesh -4.13 -6.94 3.32 2.69 2.22 0.96 2. Assam 0.69 0.60 Bihar
 Gujarat -2.09 -2.42 5.05 1.40 6.81 -1.97 -2.45 -0.60 -3.20 -0.77 Haryana -2.88 -4.07 -2.01 -2.01 0.89 Himachal Pradesh 0.66 0.49 0.54 3.20 -0.10 2.69 7. Jammu & Kashmir 0.74 8. Karnataka 0.13 1.83 1.94 3.51 1.19 1.65 -0.75 1.16 0 16 1.02 0.92 Kerala -1.79 5.76 -2.29 6 35 -0.51 0.56 -1 16 -2.08 10. Madhya Pradesh 1.99 1.12 5.29 -0.38 1.75 11. Maharashtra 0.45 -0.50 1.81 4.82 2.32 12. Orissa 0.79 -3.16 2.73 -1.48 1.93 1.35 13. Punjab -6 34 -7.32 -4 38 -5.73 2.06 1.73 14. Rajasthan -0.68 -0.64 1.25 1.03 1.95 1.70 15. Tamil Nadu -2.14 -2.96 -0.12 2.02 0.37 3.35 -2.41 16. Uttar Pradesh -1 69 0.06 2.06 2.53 3.81 -2 05 -2.07 17. West Bengal 2.12 3.97 4.26 All India -1.10 -1.75 1.20 0.28 2.32 2.08

Annexure-4.7
Area, Production and Yield of Poises: Growth Rates

(percent per year, compound)

					,	,,	
	State	Are	:a	Produc		Yie	ıld
Sl. No.		to	to 1989-92	1971-74 to 1989-92	1981-84 to 1989-92	1971-74 to 1989-92	1981-84 to 1989-92
(0)		(2)	(3)	(4)	(5)	(6)	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Assam Bihar Gujarat Haryana Himachal Pradesh Jammu & Kashmir Karnataka Kerala	-3.08 -3.01 -1.20 1.47 -2.24 0.15 2.03 4.57 -5.54 -0.56 2.16 -0.97	-0.90 0.56 2.38 -2.69 -1.39 -2.39 0.39 -2.96 -0.97 1.80 2.35 -6.39 -1.91 4.36 0.00	1.62 1.47 7.43 -1.30 -5.46 -0.46 1.77 2.28 0.99 3.87 5.01 -5.76 0.28 4.06 0.03	0.73 2.90 1.81 3.95 1 10 -1.57 -0.08 -0.61 0 68 2.91 1.39 -2.97 -2.97 -2.97	0.39 2.47 2.96 1.83 -2.55 0.74 0.30 4.62 0.84 1.80 0.42 -0.23 0.84 1.77	1.67 2.33 -0.55 6.83 2.51 0.84 -0.46 2.40 1.67 1.10 -0.95 3.67 -1 01 2.25 0.61
17.	West Bengal All India	-3.03 0.55	0.12	-2.17 1 33			

Annessere-4.8
Area, Preduction and Vield of Foodgrains: Growth Rates

				(F	ercent pe	r year, c	compound)
		Α	T.CW		duction		Yield
Sl. No.	State	1971-74 to 1989-92	to 1989-92	1971-74 to 1989-92	1981-84 to 1989-92	1971-74 to 1989-92	
(0)	(1)	(2)	(3)	{4 }	(5)	(6)	(7)
	Anchre Pradesh Assam Bihar Gujarat Haryana Himachal Pradesh Jammu & Kashmir Karnataka Kerala Mschya Pradesh Msharashira Orissa Punjab Rajasthan	-0.17 -0.39 -0.05 0.35 1.01 0.55	1.02 0.57 -1.10 -0.53 0.19 1.33 0.13 -5.37 -0.76 -0.18 0.77 1.35	2.25 1.67 1.32 4.49 2.12 2.27 1.21 -1 15 2.11 4.55 2.64	4.17 -1.86 4.34 3.64 2.26 0.46 -2.58 1.93 1.16 3.92 3.99	1.08 1.85 1.71 4.55 1.76 1.25 0.65 1.30 2.12 3.78 1.73	1.62 3.57 -0.77 4.84 3.44 0.92 0.34 2.95 2.70 1.34 3.12 2.61
15. 16. 17	Tamil Nadu Utter Predesh West Bengal	-1.18 0.28	-0.75 0.03 0.96	0.72	3.57 3.35	1.92 3.70	4.36
	All India	0.15	-0.27	2.93	2.76	2.80	3.04

Annesure-4.9
Contribution of Area and Yield in Feedgrain Production during 1980's

	Grow	th Rates		Contrib	ution of
	Area	Prod.	Yield	Area	Yield
Andhra Pradesh	-1.93	1.01	3.00	2.23	97.77
Assam	1.02	2.66	1.62	63.78	36.22
Bibar	0.57	4.17	3.57	265.29	-165.29
Guiaret	-1.10	-1.86	-0.77	4.12	95.88
Haryana	~0.53	4.34	4.84	6.81	93.19
Himachal Pradesh	0.19	3.64	3.44	50.88	49.12
James & Kashmir	1.33	2.26	0.92	30.98	69.02
Karnataka	0.13	0.46	0.34	47.79	52.21
Kerala	-5.37	-2.58	2.95	395.07	-295.07
Madhya Pradesh	-0.76	1.93	2.70	24.37	75.63
Maharastra	-0.18	1.16	1.34	15.66	84.34
Orissa	0.77	3.92	3.12	58.74	41.26
Puniab	1.35	3.99	2.61	32.36	67.64
Rajasthan	-1.15	0.87	2.06	2.65	97.35
Tamil Nadu	-0.75	3.57	4.36	25.41	74.59
Uttar Pradesh	0.03	3.35	3.32	8.94	91.06
West Bengal	0.96	6.42	5.41	-1651.85	1751.85
All India	-0.27	2.76	3.04	13.06	86.94

Annexure-5.1

Electricity and Oil Input Coefficent in Agriculture

	1980-81	1984-85	1985-86	1986-87	198788	1988-89	1989-90	1990-91	1980-81 1984-85 1985-86 1986-87 1987-88 1988-89 1989-90 1990-91 1991-92	1996-97
1	2		7	s	9	3 4 5 6 7 8	8	6	or Or	1
Output of Agriculture (Rs.Crores) At 1980-81 Prices	46278	52421	52208	51175	50555	60446	60446 61318	61426	60349	70301 (#)
Electricity Consumption	14 49	20 96	23 42	29.44	34 81	14 49 70 96 23 42 29.44 34 81 38,88 44 06	44 06	50.32	53.48	76.90
(B111.Kwh)	Specific	Consumpta	on of Ele	stricity	Due to Te	Specific Consumption of Electricity Due to Technical Change Alone	hange Alo	e.		9
Ruh/Re. Output	0.0313	0.0399	0.0448	0.0575	0.0688	0.0313 0.0399 0.0448 0.0575 0.0688 0.0643 0.0719 0.0851	0.0719	0.0851	0.0886	0.1081
\$Change W.r.t.1991-92	-64.67	-54 97	-49.44	-35.10	-22.35	-64.67 -54.97 -49.44 -35.10 -22.35 -27.43 -18.85	-18.85	-3.95	0.00	22.01
	Specific	Consumpti	on of Ele	stricity	Due to Co.	Specific Consumption of Electricity Due to Conservation Measures	n Measure	v.		
Kach/Re.Output	0 0313	0 0399	0 0448	0 0575	0.0688	0 0313 0 0399 0 0448 0 0575 0.0688 0.0643 0.0719 0.0851	0.0719	0.0851	0.0886	0.1038
*Change w.r.t.1991-92	-64 67	-54 97	-49.44	-35.10	-22 35	-64 67 -54 97 -49.44 -35.10 -22 35 -27.43 -18 85	-18 85	~3.95	0.00	17.16
Diesel Consumption	Specific	Consumpti	on of Die	sel Due t	o Technol	Specific Consumption of Diesel Due to Technological Change Alone	ange Alon	e		
Mill.Tonnes of 011 equivalent		3.63					5.23	5.32	5.42	6.45 (d)
Grams of Old Equivalent per Rupee of agriculture output		6.92					8.53	8.66	8.98	9.13
Mchange W.r.t.1991-92		-22 94					-5.01	-3.56	0.00	1.67
Assumption :-										

 ⁽a) - Estimates as gaven in Eaghth Plan document.
 (b) - Essed on likely population of electric pumpests.
 (c) - Asseming that 20% swings in power consempting per pumpest is possible. This will be tablewed in 70% of pumpest.

⁽d) - Based on total population of tractors and diseal numpeas.
Production of diseal purposets in 1996-97. 5. million Nos.
11. 035 tonnes of diseal — I tonne of oil equivalent.
12. Population of tractors in 1996-97. 2.014 Million Nos.
12. Stornes diseal — I tonne of oil willion Nos.
13. Connes diseal/tractor/war.

Annexure-5.2 Electricity Input Coefficient in Aluminium Industry

Plant	1983-84	1984-85	1988-89	1991-92	1996-97
1	2	3	4	5	6
I. Output (000'T)					
NALCO	0	0	78.48	192 0	200
Other Aluminium Plants	220	276.49	278.01	320.3	456
Total	220	276.49	356.49	512.3	656
II. Horms of Electricity C	consumption	with Tech	nological	Change	
NALCO			15954	15954	15954
Other Aluminium Plants	20023	19834	18503	18503	17097 (a)
All Plants Average	20023	19834	17942	17548	16748
% Change w.r.t. 1991-92	14 10	13 03	2.25	0.00	-4.56
III. Norms of Electricity Superimposed on Techn	Consumption clogical Ch	with Con wange Effe	servation ct	Messures	
NALCO			15954	15954	15156
Other Aluminium Plants	20023	19834	18503	18503	16242
All Plants Average	20023	19834	17942	17548	15910(b)
% Change w r.t. 1991-92	14 10	13 03	2 24	0.00	-9.33

⁽a) CEA data shows that there has been fall in aggregate norm of electricity consumption in aluminum industry For aluminum, plant other than MALCO, decline in norm between 1983-84 and 1988-89 was 7 39 percent which is carried for 1996-97 also

⁽b) NPC study shows energy conservation potential of 8-10% in Indian aluminium plants. For the year 1996-97, 5% reduction in overall norm anticipated.

Annexure-5.3 Electricity input Coefficient in Steel Industry

	1980-81	1981-82 1982-83	1982-83	1983-84	1984-65	1983-84 1984-85 1985-86	1986-87	1986-87 1987-88 1988-89 1991-92	1986-89	1991-92	1996-97 (Proj)
	2		3	ď	9	7	8	•	10	=	21
Production of Steel (ISP) Mill, Tonnes	6.28		7.29	6.39	7.00	11.7	8.22	9.59	9.21	10.58	15.94
Production of Steel (MSP) Mill Tonnes	1.53	1 40	1.88	1 94	1.79	2.21	2.23	2.33	2.34	3.68	7.28
Total (Mill.Tonnes)	7.81	9.66	9 17	8 33	8.79	98.7	10 65	10.92	11.55	14.26	23.22
Share of Supply from 1SP	40 43	83 83	79.50	11.	19 63	7 86	16 56	78 66	79.73	14.19	68.65
Share of Supply from MSP	14.59	16 17	5.0	25.20	20 3	22 14	33	21.34	20.27	25.81	31.35
Total Percentage	100.00	100.00	100 00	100 00	100 00	100.00	100.00	100.00	100.00	100.00	100.00
	Norms	of Electr	of Electricity Consumption with Tehnological Changes	umptior w	uth Tehno	logical C	hanges				
Specific Consumption of Electricity in 15P	678.00	607 00	621 00	127.00	728.00	00 869	664.00	682.00	664.00	650.00	600.00
Specific Consumption of Electricity in MSP	750.00	767.00	785.00	803.00	822 00	0v 658	698.00	938.00	980.00	980.00	980.00
Average Specific Consumption of Electricity in all plants NWA/tonnes	00 759	633 00	655.06	745.00	147 00	734 00	714.00	136.00	728.00	135.00	119.00
8 Change W.r t. 1991-92	-5 85	-13.88	-10 88	1.36	1 63	-0.14	-2 86	0.14	-0.95	0.00	-2.18
Norms of Electricity Consumption with Conservation Measures Superimposed on Technological Changes	acaty Consum	ption with	Cuiserva	tion Meas	ures Supe	11mposed	on Techno	logical (Changes		
Specific Consumption of Electricity in ISP	678 00	607.00	621 00	727.00	728.00	00 869	664.00	682.00	664.00	650.00	570.00 (b)
Specific Consumption of Electricity in MSP	750 00	167.00	785.00	803.00	822 60	859.00	838.00	938.00	980.00	980.00	980.00
Average Specific Consumption of Electricity in all plants	692.00	633.00	655.00	745.00	747 00	734.00	714.00	736.00	728.00	735.00	698.00
8 Change W.r.t. 1991-92	-5.85	-13.88	-10.88	1.36	1.63	-0.14	-2.86	0.16	-0.95	0.00	-5.03
					;						

⁽⁴⁾des to shift in grocess technology (from open seath to L) goywertes, some fall in specific alectricity communities in 1559 Militabeled for year 1985-59; observation and the conservation programmes taken up by 158, 58 decline (b) the convertigated.

Annexure-5.4 **Electricity Input Coefficients in Cement Industry**

			1991-92 Actuals	
1		2	3	4
		Proces	s Shares	(%)
Wet Process		37		15
Dry Process		63	80	85
Total		100	100	100
Total Production (Mill.T		26.70	53.00	76.00
	Coefficient of Kwh/Tonnes du of Technologi	e to comb	ined effe	ct
Wet Process		114		
Dry Process		155 140	120	110
Average				

⁽a) Target by NCB

11) Although there is increase in electricity consumption in dry process. Study by NCB shows that the overall norm for cement industry is going down.

N.B.: 1) There is shift in technology from wet to dry process. It is assumed that by the end of 1996-97, there will be 85% dry capacity.

Annexure: 5.5
Railways:- Combined Effect of Conservation Measures and Changes in Modal Mix of Traffic on Energy Input Coefficients

Items	1983-84	1988-89	1991-92	1996-97
1 Traction Shares (%)	. 2	3	4	5
I. Traction Shares (%)				
a) Electricity	27.00	34.30	36.00	40.00
b) Diesel	58,90	57.50	57.00	55.00
c) Coal	14.10	8.20	7.00	5.00
Total	100.00	100.00	100.00	100.00
Total Traffic (Billion T Km) (Passenger + Freight)	140.855	223.740		
II. Specific Consumption Not with Conservation Measur	res			
a) Electricity Consumption (Kwh/000 Gross Tonnes Km)				
b) Diesel (Litres/000 GT Km)	4.09 (1.74)	4.02 (0.00)	4.02 (0.00)	3.93 (-2.24)
c) Coal (Kgs./000 AT Km)	84.63 (10.18)	76.81 (0,00)	76.81 (0.00)	76,20 (-0.79)
III. Specific Energy Consum Coefficient *				
a) Electricity	3.785 (-15.14) 2.409	4.2498	4.4604	4.936
b) Diesel	2.409	2.3115	2.2914	2.1615
c) Coal	(5.13) 11.93 (121.88)	(0.88) 6.2984 (17.14)	(0.00) 5.3767 (0.00)	3.81 (-29.14)
* Per Thousand Gross Tonne N.B. : The figures in bra 1991-92.				e w.r.t.

²⁸⁸

Annexure-5.6
Railways: Effect of Changes in Modal Mix of Traffic on Energy Input Coefficients

	1983-84		Est.	1994-95 Proj.	Proj.
1	2		4	5 	6
Diesel	58.90				
Electricity	27.00	34.30	36.00	40.00	48.00
Coal	14.10	8.20	7.00	5.00	0.00
Total Traffic	100.00	100.00	100.00	100.00	100.00
Bill.T.Km (P+F)	140.86	223.74		243.81	393.18
	ecific Energaffic by Di			fficient I	For
Diesel (Litrs/000 GT Km		4.09	4.09	4.09	4.09
Electricity (Kwh/000 GT Km)	14.02	14.02	14.02	14.02	14.02
Coal (Kg/000 GT Km)	84.63	84.63	76.81	76.81	76.81
Sp Th	ecific Energousand Gross	gy Consump Tonne K	tion Coe lometers	fficient E of Rail T	Per Praffic
Diesel (Litres)				2.2495 (-3.5)	
Electricity (Kwh)	3.7854 (-25.0)	4.8089 (-4.7)	5.0472 (0.0)	5.6080 (11.1)	6.7296 (33.3)
Coal (Kg)	11.9328 (101.0)	6.9397 (17.1)	5.3767	3.0724 (42.9)	0.0000

N.B. : Figures in the parentheis indicate percentage change w.r.t. $1989\ensuremath{^{-90}}$.

Annexure-5.7 Electricity Coefficients in Electricity Generation Due to Conservation Measures & Technological Changes

	1983-84	1987-8	8 1989-	90 1991-	92 1996-9
1	2	3	4	5	6
Total Blectricity Generation-Uitility (Million Kwh)	140177	201894	245438	286710	418210
Transmission & Distribution Losses Willion Kvh)	27689	41410	53260	61090	82100
Transmission 6 Distribution Losses as Percentage	21 28	22 23	23 28	23 00	21 DO (a)
Percentage Change in T&D Losses w r t 1991-92	-7 48	-3 35	1 22	0 00	-8 70
Effect of Structural Chan-	ges withou	t Conser	vation M	easures	
T and D Losses as Percentages	21 28	22 23	23 28	23 00	24 50
Change w r t 1991-92	-7 48	-3 35	1 22	0 00	6 52

Note Total electricity generation pertains to utility only

⁽a) Assumptions
(b) Assumptions
(c) Assumptions
(a) In recal load density
(c) In recal load density
(d) Improvements in low tension lines
(ii) Installation of meters

Annexure-5.8

Share of Agriculture and Households in Electricity
Consumption at Consumer End in Utilities

		(Percentage)
Year	Agriculture	Household
1	2	3
1960-61 1970-71 1980-81 1984-85 1985-86 1986-87 1987-88 1988-89 1989-90	6.00 10.20 17.59 18.38 19.04 21.60 24.22 24.27 25.12	10.70 8.80 11.23 13.59 14.08 14.21 15.19 15.46 16.86

Annexure-5.9

Change in Share of Capacities Based on Feed Stock in Fertiliser Industry

		(Pe	rcentage;
S.N	o.	1984-85	1991-92
0	1	2	3
1.	Natural Gas	14.20	43.00
2.	Naphtha	48.00	28.60
3.	Fuel Oil	22.60	17.90
4.	Coal	8.80	5.50
5.	Other	6.40	5.00
6.	Total	100.00	100.00

Annexure-5 10

Electricity Input Coefficients in Fertiliser Industry

			٠,	r	n	٥	-	œ
Production of P2O: (000' Tonnes)	757 10	1050	1264	1430	1796	2500	3000	
Production of Nitrogenous Fertiliser (Nutrients)	72	2751	3485	3917	4328	6747	1301	9800
Total Production (000' Tonnes)	35	3508	4535	5181	5758	8543	9801	12800
Coefficient of Electricity Input Due to Technological Changes	ıcıty Input	Due to	Techno	logical (hanges			
Total input of Electricity (MKWh)	42	4256	5086	4342	5110	5253	6028	7680
Specific consumption of electricity (KWh/T)	12	1213	1121	838	887	615	615	900
% change w r t 1991-92	97 24		82 28	36 26	44 23	00 0	00 0	-2 44
Coefficient of Electricity Input Due to Conservation Measures	leity Input	Due to	Conser	vation Me	asures			
Total input of Electricity (MKwh)	42	4256	9809	4342	5110	5253	6028	7296
Specific consumption of electricity (Kwh/T)	12	1213	1121	838	887	615	615	570 (a)
8 change w.r t 1991-92	97 24		82 28	36 26	44 23	00 0	00 0	-7.32

Electricity input in fertiliser industry has gone down substantially during the Seworth Rian files is anniny due to higher share of production from gas based plants which are energy efficient.

N B N

Annexure-5.11
Electricity Input Coefficient in Cotton Textile Industry

s.No.	Item	Units	1983-84	1985-86	1988-89	1991-92	1996-97
0	1	2	3	4	5	6	7
	put of Cotton	Million Metres	11758.00	17213.00	20018.00	22588.00	
. Sha	re in total out	put (%)					
) Cot	ton		74.34	73.43	68.23	64.84	
) M1	ed/Blended Fabr	ıc	10.75	10.70	11.59	12.01	
) Mar	n-made Fabrics		14 91	15.97	20 18	23.15	
Tot	al		100.00	100 00	100.00	100.00	
	al Input of	Million Kwh	6932 00	8349.00	10085 00	11294.00	
	Fic Consumption oural Change Alo		ity Due t	0			
	cicity Kwh/metre n Textile	of	0 59	0 49	0.50	0 50	0.5
&Chang	ge w.r.t. 1988-8	9	18 00	-2 00	0.00	0.00	0.0

Annexure-5.12
Electricity Input Coefficient in Paper Industry with Conservation
Measures Superimposed on Technological Change

	1983-84	1985-86	1991-92 Est.	
1	2	3	4	5
Production of Paper (Thousand Tonnes)	1248	1517	2500	2900
Input of Electricity (Million Kwh)	2144	2565	4125	4350
Specific Consumpt: Technolo	lon of Ele ogical Cha	ctricity nge	Due to	
Coefficient of Specific Electricity Consumption (Kwh/Tonnes)	1718	1691	1650	1650 (a)
% Change w r t 1991-92	4 12	2 48	0 00	0 00
Specific Consumpt: Conservat	on of Ele Lion Measu	ctricity ires	Due to	
Coefficient of Specific Electricity Consumption (Kwh/Tonnes)	1718	1691	1650	1567 (b)
% Change w r t 1991-92	4 12	2 48	0 00	~5 03

Note (a) Big units have higher specific consumption norms Since number of small units may not increase due to competition in future, the norm is unlikely to decline

(b) Indian paper industry has energy conservation potential of 20-25% For short term, 5% conservation anticipated for electrical energy

Annexure- 5.13 Coal Input Coefficient in Electricity Generation

ITEM			1989-90		1996-97 (Proj)
1	2	3		5	6
Total Electricity generation in utilities (Bill. Kwh)	140.17	156.9	245.44	286.71	418.2 (a)
Coal based electricity generation in utility (Bill. Kwh)	84.44	96.96	165.26	188.53	272 (b)
Share of Coal based generation (%)	60.2	61.8	67.3	65.8	65.0
Total Coal used for electricity generation including middlings (Mill. Tonnes)	58.03	59.4	141.26	136.9	190 (c)
Kg/Kwh of Coal based generation	0.687	0.613	0.673	0.726	0.699
% Change in Coal Norm w.r.t. 1991-92	-5.37	-15.56	-7.30	0.00	-3.72
	Norms of generation	Coal Cons	sumption : echnologic	n total cal change	electricity alone
Kg/Kwh of total electricity generation	0.414	0 3786	0.4533	0.4775	0.454
% change in all modes norm w.r.t. 1991-92	-13,30	-20.71	-5.07	0.00	-4.80

⁽a) Based on demand estimates at consumer end.
(b) Based on thermal capacity to be added during Eighth Plan
(c) Based on Coal based generation anticipated in 1996-97.

Annexure 5 14
Coal Input Coefficient in Iron & Steel Industry
Due to Technological Changes

	1984-85	1984-85 1985-86 1986-87 1987-88 1988-89 1989-90 1990-91 1991-92 1996-97	1986-87	88-/86	1366163	1287-90	TA-066T	1991-92	2000
1	2	6	4	- 1	v	7	æ	6	10
Crude Steel (Ingot Steel) Production (Mill Tonnes)									
1 ISP (Mill Tonnes)	8 32	9 01	8 95	9 64	10 59	10 82	11 27	12 63	18 23
11 MSP(Mill Tonnes)	6 3	3 07	83	5.1	3.35	3.48	3 87	4 21	7 81
Total Steel Production(141) (Million Tonnes)	10 65	12 03	12 03	12 95	13 94	14 30	15 14	16 84	26 04
Coal based Sponge iron Prod	0 0	0 10	0 15	LT 0	0 20	0 32	0 38	0 40	2 00
Coal Input for ISP's & Foundaries (Mill Tonnes)	23 75	74 49	23 39	23 60	28 58	28 37	30 05	31 66	42 00
Coal Input for Sporge Iron	۵. O	ŢŢ	0 15	0 17	0.20	0 32	0 38	0 40	2 00
Total Coal for Iron & Steel	23 84	-4 50	73 54	23 77	28 78	28 69	30 43	32 06	44 00
Coal Kg /Steel Kg	2 24	2 04	1 96	1 84	2 06	2 01	2 01	1 90	1 69
* Change in Coal Input w r t 1991-92	17 89	1 37	3 16	-3 16	8 42	5 79	5 79	00 0	-11 05

N B 1 The figures are actuals excepting for 1996-97 which is a projection

² Share of production from Mini Steel Plant is likely to increase during the Eighth Plan in view of the liberalisation policies

³ Due to fall in coke rate in ISE's specific consumption of coal in steel industry is going down

Annexure-5.15 Coal Input Coefficient in Cement Industry

	1983-84	1991-92	1996-97
1	2	3	4
	Process w	ise share	of capacity
Wet Proces	37%	20%	15%
Dry Process	63%	80%	85%
Total	100	100	100
Total Production of Cement (Mill. Tonnes)	26.7	53.0	76.0
(MIII. Tollies)	Norms of (
Wet Proces	1.657	_	_
(Gcal./Tonne) Dry Process	0.977	-	
(Gcal./Tonne) Average (Gcal./Tonne)	1.23	1.00	0.90
%Change w.r.t. to 1991-92	23	0	(a) -10
	Norms of C		
Wet Proces	1.657	_	-
(Gcal./Tonne) Dry Process	0.977	-	-
(Gcal./Tonne) Average (Gcal./Tonne)	1.23	1.00	
%Change w.r.t. to 1991-92	23.00	0.00	(b) ~14.50

⁽b) Although change in technology has brought down the aggregate norm. NCB study shows that there is still conservation potential. For 1936-97, 5% efficiency anticipated.

Annexure-5.16
Natural Gas and Petroleum Products Input Coefficients in
Fertiliser Industry Due to Technological Change Alone

.0	1	2	~	~	5	9	,	æ	σ	20	11
١-"	Fertiliser pros Production (000 T)	757	1050	1264	14 -0	1660	1665	2222	1796	2500	3000
	Fertiliser No Production (000 T)	5629	3466								0086
-	Gas based	472	20 638	20 916	28 (78	26 896	10 438	45.63	3233	110	55.04
-	Naphtha based	1391	1,720,	1 234	2013 46 118	, 2173.	33 579	30 178	27.328	2196	24 856
_	FO taged	919	24 -46	22 716	90.6	. 450 36 808	20 478	13 628	20 23	16 578	1389
-	Coal hard	447	3 394	3 786	2.50	3 184	2 548	1.498	1.878	1.948	235
-	Others		5.5 1 668	1.748	1 508	2 058	3 068	274 4 99%	2.67	134	3.548
	Total Fertijiser Production (1+2) '(000 T)	1385	5135	5191	5758	7679	7131	1968	8543	1086	12800
£	Total Las used for gas based W2 Production (MCR)		1283	1603	2500	3334	3490	5334	6278	5509	8641
_	Cum/ T of cas based production		1784	1957	2029	2292	1579	1741	2035	1602	1602
_	8 change w r t 1491-92		11 36	22 16	26.65	43 03	-1.44	8,68	27.03	00.0	0.00
	Total petrolaum prod. used for Naphta + Po based N2 production		3759				4082	4419	3918	4135	4642
	Petroleum products / T of Naphtha & FO based Nr fertilizers		1451				1384	1349	1221	1214	1214
	8 change w.r t 1991-92		19 52				14.00	11.12	0.58	0.00	00.0
0 12	Of total fertiliser production		282 9,	309.4	434.18	17.71	489.41	595.05	769.99	562.09	675.08
-	# change w.r.t 1991-92		-49 67	96 #	-22.16	-16.08	-12 93	5.66	36.99	00.0	20.10
	Petroleum Product/T of Total Fertiliser Production	1961	828 89				572.43	192.97	458.62	421.90	362,86
_	Change w.r.t 1991-92		96 47				35.68	16.85	8.70	0.00	-14.04

Annexure-5.17 Petroleum Products Input Coefficients in Steel Industry

	1986-87	1987-88	1988-89	1988-89 1989-90	1990-91	1986-87 1987-88 1988-89 1989-90 1990-91 1991-92 1996-97	1996~97
			ACTUALS				(Proj.)
1 2 3 4	2	3	4		9	5 6 7 8	8
Production of Crude Steel (Mill.Tonnes)	12.03	12.95	13.94	14.30	15.14	12.03 12.95 13.94 14.30 15.14 16.84 26.04	26.04
Input of Petroleum Products (Mill.Tonnes Oil Equil).	0.429	0.443	0.554	0.587	0.593	0.541	0.643
Coefficient of Petroleum Input	0.0357	0.0342	0.0397	0.0342 0.0397 0.0410		0.0392 0.0321	0.0247
Change w.r.t. 1991-92	11 00	6.48	23.71	23.71 27.78 21.92	21.92	0.00	-23.14

Annexure-5.18 Petroleum Products Input in Electricity Generation

1973-74	1973-74 1979-60 1934-65 1985-86 1986-57 1937-88 1988-89 1889-90 1990-91 1991-92 1996-97	1979-80	18-18-18-18-18-18-18-18-18-18-18-18-18-1	1820-80		D 21 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1999.00	7669-30	1990-91	1991-92	1996-97
1 2	2	-	-7	'n	w	,-	æ	8 5 10 11 12	0,7	11	12
Total electricity generation stility (BKWh)	66.69	104.63	66.69 104.63 106.80 170.35 187.71 107.49 281.44 264.00 287.00 418.00	236.33	167.75	£ 707	253.49	245.44	264.00	287.00	418.00
Steel based generation (Coal + Lignite) (BKWh)	34.4	11.00	36.36	112.54	125.45	112.54 125.45 14%-81 154.88 172.48 179.70 197.04	154.88	172.46	179.10	197.04	295.00
Share of Steam based generation in total generation (%)	61	60	18:13		66,63	56.06 66.62 31.11 v9.85 70.27	9.6	10,27	68.07	68.66	68.18
otal petroleum products used for meam based generation (Th.T; (in terms of oil equil.)			11.634	90.1517	2617.0		5 7 7 7 8	1754.00	2731,00	2625.00	3021.00
	Norms o	f oil cor	Norms of oil consumption in steam based electricity generation	in steam	based ele	scricity	generation	g			
specific consumption of oil input in steam generation (Kg/Kbh)			0.0293	0.0239	0.0209	0.0293 0.0239 (.0209 0.0188 0.0178 0.0160 0.0152	9.0178	0.0160	0.9152	0.0133	0.0106
8 change w.r.t. 1991~92			120.03	79.69	56.59	120.03 79.69 56.59 40.90 32.72 19.85 14.04	33,72	19.85	14.04	0.00	-20.43
		Notine of	Norme of bil consumption in total(al) modes) electricity generation	nertion in	total (a)	1 modes)	electrici	ty genera	tion		
Connes/form of total generation			0.0161	0.0156	0.0139	0.0161 0.0156 0.0139 0.0135 0.0125 0.0112 0.0103	0.0125	0.0112	0.9103	0.0091	0.0072
t change w.f.t 1991-92			58.16		52.43	72.91 52.43 48.08	36.25	22.68	13.06	0.00	-20.98

Annexure -5 19
Effect on Petroleum Products Input in Other Transports
Due to Conservation Measures

1983-84 1986-87 1889-90 1990-91 1991-92 1996-97	1983-84	1983-84 1986-87 1889-90 1990-91 1991-92 1996-97	1889-90	1990-91	1991-92	1996-97
1 2 3 4	2	2 3 4 5 6 7	4	5	9	5 6 7
Value added by other transport 4760 (Rs.Crores at 1980-81 prices)	4760	6139	7445	8029	8408	13022
Total consumption of diesel in other transports (Mill. Tonnes)	7 62		12.08	9.74 12.08 12.21	13.26	20.09(a)
Coefficient of diesel consumption 0.01601 0.015865 0.015865 0.015151 0.015770 0.015427	0.01601	0.015865	0.015865	0.015151	0.015770	0.015427
\$Change w.r t. 1991-92	1.52	09.0	09 0	0 60 -3.93		0.00 -2.17

⁽a) - Based on growth rate between 96-97/90-91 as 8.6 *

Annexure-5.20 In Petroleum Refining and Effect of Conservation Measures

19	983-84	1986-87	1889-90	1990-91	1991-92	1996-97
	2	0	4	S		7
Total Crude throughput	35263	45699	51942	51772	51423	63320
Total Production of Petroleum Products 32926 (Th. Tunnes)	32926	42761	48690	48562	48349	59520
Total Refinery Losses (Th. Tonnes)	2337	2936	3252	3210	3074	3800
Melinery losses (1)	9.9	6.4	6,3	6.2	0 9	0.9
Change W.r.t. 1991-92	10.86	7.55	4.73	3.72	00.00	00'0

With setting up of 3 new grass root refineries at Assam, Karnal and Mangalore and expansion of the existing reineries, total refinning capacity by 1566-57 will be 65 mallon tonnes. N.B.c

Annasure 5.21
Natural Gas Input Coefficient in Electricity Generation

Item	1973-74	1979-80	1984-85	1971-74 1979-80 1984-85 1985-86 1986-87 1987-88 1988-89 1889-90 1991-92 1996-97	1986-87	1987-88	1988-89	1889-90	1991-92	1996-97
	m	2	*	ın	9	7	00	6	30	17
Total electicity generation utility (mil. n.h.)	69.49	101,65	190,81	86,69 104,64 136,89 170,35 [87,7] 28; 09 321,4 245,47 287,40	161.11	202.09	222.4	245,47	287.60	415.00
Gas based generation (Bill.Nuh)	0.34	05'0	1,83	0,54 1,83 1,76 34,00 3,73 3,74 5,96 11,33	34,00	3,13	31.76	5,96	11.33	38,36
Share of the treed generation (%)	Br.ng	0.48	1.17	0.4s 1.17 1.03 1.7s 1.8:	3.78	7.83	1.24	1.24 2.43	1.02	A100
Total Garage Carlos Communication Communicat		518,00	148911	518.00 1458.40 1795.70 -048.10 7721.70 1923.00 2119.00 4724.00 10819.00	2041-110	2721.00	1923.00	2110,00	4774.00	10817.00
		Norme of	gae cons	Norme of day consumption for gas based electricity seneration	ar das bas	Sed sierit	Ichy ser	neration		
Cased generation		1,03	0,90	1,03 0,80 0.61 0.13 0.87 0.38 0.41	0,61	0.43	0.67	0.38	0.41	0 40
1 in orde War.t. 1991-92		146.33	146,33 62,99		47,24	47.20 TH. W CH. 13.29 6.00	611,63	-13,29	00.00	00.00
		Norms of	Gis pone	Worms of the princetion in total all moder) electricity generation	Cotalish	(mcder)	+lactric	Ity genera	#T2OR	
Metre cube/ KWh of total electricity generation		0.0049	0.0093	0.0049 0.0092 0.0076 0.0109 0.013 9.0082 0.0087 0.0166 0.0250	0.0109	0.013	9.0082	0.0087	0.0166	0.0250
# change wirit 1991-92		-10.47	-44.27	=10.47 -44.27 =54.16 -34.63 -19.06 -50.50 -47.59 0.00 60	*34.63	-19.06	-50.50	-47.59	0.00	11.60

Annexure-5.22 Natural Gas Input Coefficient in Steel Industry by Technological Change

	1991-92	1996-97
1	2	3
Total sponge iron production (Mill. Tonnes)	1.28	5.00
Gas based sponge iron Prod. (Mill. Tonnes)	0.88	3.60
Input of gas (MCM)	96.36	394.20
Coeff. of gas based prod./ gas unit (CM)	109.50	109.50
Coeff. of total sponge iron prod./gas unit (CM)	75.29	78.84
% Change w.r.t. 1991-92	0.00	4.72

Annexure: 5.23

37-13/PC/NO/IE

						Inter	A CHINA				-	Frank Upp	-	Parties.
		Sarah glamos	THE REAL PROPERTY.	Bittle Transport	Pretiliene	Committee to the party of the p	california	PATE .	Pilatelle	Character.	and a	Ī	1	
(1)	(1) (2) (3) (4) (5) (1) (7) (0) (9) (10) (13)	(3)	(8)	(5)	(9)	ŧ	(g)	(6)	(10)	(11)	120	(13)	(14)	1361
MI-41		32.06	146.	4.7	6.23	6.97	4.06	200	146,4 6,42 6,23 7,57 6,16 36,5 227,84	4.4	0.11	6.09	7.4 0.11 6.09 1.41	Hill
Marie Co.	-						-							
to Massi.	28/Million	31296	28914	1484	4 115¢	2165		780 19517	64812	13680	189		1730 12350 77161	1716

Annexure:5.24 Electricity-Correspondence between Material Balance and Input-Output projections

	app.	ACTION LEEN	Production	Others	Fotal Inter Links	Agricultus industrial Chart State Communica Doport Spanish Charter State Communica Charter State Cha	Enport	Depart	Pinal New (nest (7+9-8)	M	Average utiling tion	THE PARTY OF
(2)	(2)	(3)	(4) (5)	(8)	(9)	3	(0)		(10)	(11)	(12) (13)	(13
1995-93 RAIS. Tork 13.46 135.40	\$411. Feb	23.46	113.60	112.44	278:52	\$2,46 \$2,407 \$3,410 \$4,527 \$4,52		1.43	1,45 12,49 3)	MAR.	MALES (Sob. No. 11	E.
Actual /Retiented					-						(91.40)	
Appropriate Salance	B111.Eve	76.00	158.00	163.75	384.75	65.46		2 00	63.46	448.23	448.21 6489.00 89.42	
Z-O Medel .	No. Hillion	24582	132742	155025	312350	99118		200	91355	393705		

Annexure: 5,25
Petroleum Products - Correspondence between Material Balance and Input-Output Projections

	Prate	-	-		1	-	lifter Infinitey use	-		Season State Sately see Files we		Pleasi une		h
	Base and Ball Agriculture Fortile Commiss Cline Transport Transport	Past and Other Transport	Transport	Apricalture Fortile	Tortald.	Chemicalp	This Agricultury Fortilal Chemicals India soften Prosession Transport and Prosession Programmes and Street Chemicals and Street Chemicals and Street Chemicals and Street	Parent Line		Total Convention topet Impet Flast we make the figure fact of the state of the stat	I	I		
(1)	(2)	(4)	(4)	ŝ	487	(2)	(1) (0)	(4)	(III)		0.43	1133	(14) (15)	(113)
PML- FE prinally prinally prinally	Mill. Tennes				4.13		12.27		2.4 16.36	F-12	1.1			48.18
Marial Americal Polyctions	Mill. Tomes	31.345	2.121	6.546	5.821	4.395	13.966	9. 22.00	65.993	15.205	9.9	22.92	22.92 (-)4.415 41.578	61.578
.0. Model .	te, sullies.	92577	7860	35158	11266	25689	127112	5236	304306	92305	16940	21044	4213 3	309118

Annexure: 5.26 Carespondence between Material Balance and Input-Output Projections

Supply

Unit (2) (2) Mill. Tonne							
Pro	Inter Inc	dustry		Final use	36		
	Petroleum Total Prochots Inter in Manufacture Industry 6	Total Inter Industry	chrumption Export Import investment & changes in stocks	Export	Import	Fina use (Net of imports) (5+6-7)	(Actual/ Target) (4+8)
1	i	(9)		(9)	(6) (7)		(6)
	i	51.42	2.92	1	124	(-) 21,08	30,34
1996-97 Naterial Ealance Projections Mill. Tonnes	63.32	63,32		4	13.32	(-) 13,32	20
I.O. Model * Rs. Million 135256 145129 Projections	135256	145129	374	4	43860	1	101643

Ro. Mil. at factor dost at 1991-92 prices 1.0. sector includes crude periolsum and natural gas

Annexure:5.27 Finished steel (Plain Carbon) Correspondence between Meterial Balance & input-output Sectoral projections

		Inter Ind.		Final Use	Ψ		SUPPLY
	Unit	rotal	Consumption, Investment and change in stock	Export Import	Import	Finel use Net of imports (4+5-6)	Output (Actual/ Target)
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)
1991-92 A tual/Estimated	MIL.Teur	15.20	į.	0.30	1.00	(-)0.7	14.5
Material Balance Will, Tonnas II.00 Projections	Mill. Tonnes	21.00	F	2.80	1.00	1.8	22.8
T-0 Model	FS. Mill. 468918	468918	31652	4431	37059	926(-)	487942
* Rs. Million at factor cost at 1991-92 prices	t factor cost	at 1991-92 pi	rices				

Annexure-5.28 from Ore-Correspondence between Input-Output and Material Balance Projections

	unit	Inter Industry use		inal use			W1.
		Total	Consumption, Export investment 6 changes in stocks	Export	Import	Import [Net of Imports] (4+5-6)	(Actual (3+9)
(1)		(3)	(4)	(5)	(9)	10	(8)
1991-92 Actual		24.50		32.00	ŕ	32,00	56.50
1996-97 Material Balance Projections	Million	90.04		32,00	ì	32.00	72.00
I.O. Model Mr. Million [76]	Ps. Million	1361	4	5415	7	5415	31176

Share of Consumption : Rural

ercent)	90-100	11	AUGUNGAALUNG
4	80-90	10	######################################
Canada Canada	70-80	61	
	02-09	8	00000000000000000000000000000000000000
-	20-60	7	なまちものののののものののののののののののの
-	40-50	9	800-1-1-000-00-00-00-00-00-00-00-00-00-00
-	30-40	50	**************************************
	20-30	¥	พพายาสอบสอบสอบสอบสอบสอบสอบสอบสอบสอบสอบสอบสอบส
	10-20	(P)	**************************************
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	. Year	-1	80009899999999999999999999999999999999
-	S.No	0	

Annexura 7.2 Share of Consumption : Urban

(Percent)

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o. Year	1	
0-10	2	
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20-30	77	www.wwwwwwwww.ww.ww.ww.ww.ww.ww.ww.ww.w
30-40	22	
40-50	9	######################################
20-60	7	
60-70	8	awawwawaaaawabwacaaaa kkrawaaaaaaawaaaaaa
20-80	6	### ### ##############################
80-90	10	######################################
90-100	11	がなるなるなるなるなるなるなるなるなる。 のもののものできませんできます。 なっているようようないできます。 なっているようようないできます。 なっているようないできます。

Note: Based on NSS data on Household Consumer Expenditure Distribution.

Annexure 7.3
Trend in Decile-wise Consumption Share in Rural Area: 1958-73

Sl. No.	Dependent Variable	Constant	Regression Coefficient	κ^2	₽
0	1	2	3	4	5
1.	1st Decile	1.2507	0.0072	0.34	0.28
2.	2nd Decile	1.5500	0.0097	0.79	0.77
3.	3rd Decile	1.7400 (108.43)	0.0075	0.62	0.59
4.	7th Decile	2.2900	0.0041	0.51	0.47
5.	10th Decile		-0.0070 (3.26)	0.47	0.43
6.	Bottom 30%	2.6310 (157.33)	0.0081	0.64	0.61
7.	Middle 40%	3.5100	0.0024	0.35	0.30
8.	Top 30%	3.9600 (570.94)	-0.0039 (5.39)	0.71	0.68
9.	Bottom 50%	3.3600 (374.61)	0.0046	0.66	0.64
10.	Top 50%	4.2600 (1123.33)	-0.0012 (4.91)	0.67	0.64

N.B. 1. The share of consumption of 4th to 6th, 8th and 9th decile do not show statistically significant trend.

^{2.} The form of function is exponential.

Independent variable is time.

^{3.} Figures in the parenthesis contain t-values.

Annexure 7.4 Trend in Decile-wise Consumption Share in Rural Area: 1977-91

\$1. No.	Dependent Variable	Constant	Regression Coefficient	R ²	R
0	1	2	3	4	5
1.	1st Decile	1.0025	0.0128	0.98	0.98
2.	2nd Decile	1.3800 (31.38)	0.0098	0.90	0.88
3.	3rd Decile	1.6800 (47.38)	0.0050	0.78	0.73
4.	4th Decile	1.7600 (36.66)	0.0062 (3.81)	0.74	0.69
5.	5th Decile	1.9200 (34.86)	0.0048 (2.60)	0.57	0.49
6.	6th Decile	2.0600 (30.84)	0.0040 (1.77)	0.39	0.26
7.	7th Decile	2.1600 (51.76)	0.0051 (3.64)	0.73	0.67
8.	10th Decile	3.5400 (24.26)	-0.0110 (2.25)	0.50	0.40
9.	Bottom 30%	2.4900 (78.55)	0.0086 (8.09)	0.93	0.91
10.	Middle 40%	3.3700 (85.06)	0.0050 (3.73)	0.74	0.68
11.	Top 30%	4.0900 (124.96)	-0.0057 (5.16)	0.84	0.81
12.	Bottom 50%	3,2000 (103,86)	(6.79)	0.90	0.88
13.	Top 50%	4.3300 (333.51)	-0.0030 (6.85)	0.90	0.88

N.B.:1. The share of consumption of 8th and 9th decile

do not show statistically significant trend.

2. The form of function is exponential.

Independent variable is time.

^{3.} Figures in the parenthesis contain t-values.

Annexure 7.5 Trend in Decile-wise Consumption Share in Rural Area: 1958-91

	Dependent Variable	Constant	Regression Coefficient	R ²	\overline{R}^2
0	1	2	3	4	5
1.	1st Decile	1.2700	0.0042	0.50	0.47
		(69.15)	(4.32)		
2.	2nd Decile	1.5940	0.0031	0.44	0.41
		(103.47)	(3.82)		
3.	3rd Decile	1.7770	0.0021	0.34	0.30
		(137.65)	(3.10)		
4.	9th Decile	2.6870	-0.0012	0.27	0.23
		(312.60)	(2.67)		
5.	Bottom 30%	2.6670	0.0030	0.46	0.43
		(189.88)	(4.01)		
6.	Top 30%	3.9430	-0.0009	0.17	0.13
		(460.12)	(1.98)		
7.	Bottom 50%	3.3800	0.0015	0.32	0.28
		(351.35)	(2.97)		
8.	Top 50%	4.2570	-0.0007	0.33	0.29
		(1051.14)	(3.05)		

N.B.:1. The share of consumption in 4th to 8th decile, 10th decile & Middle 40% of the population do not show statisticaly significant trend.

2. The form of function is exponential.

Independent variable is time.

^{3.} Figures in the parenthesis contain t-values.

Annexure 7.6 Trend in Decile-wise Consumption Share in Urban Area: 1958-73

Sl.	Dependent Variable	Constant	Regression Coefficient	R ²	\overline{R}^2
0	1	2	3	4	5
1.	1st Decile	1,1100 (53,61)	0.0107	0.67	0.64
2.	2nd Decile	1.4700	0.0069	0.55	0.52
3.	3rd Decile	1.6700 (118.80)	0.0039	0.37	0.32
4.	5th Decile	1.9500 (199.85)	0.0047	0.64	0.61
5,	10th Decile	3.3900 (113,95)	-0.0113 (3,65)	0.53	0.49
6.	Bottom 30%	2.5500 (178.40)	0.0066	0.62	0.59
7.	Middle 40%	3.4300 (381.44)	0.0025 (2.71)	0.38	0.33
8.	Top 30%	4.0300 (462.25)	-0.0032 (3.50)	0.51	0.46
9.	Bottom 50%	3.2600 (264.54)	0.0053	0.59	0.56
10.	Top 50%	4.3000 (884.35)	-0.0020 (4.01)	0.57	0.54

^{8.8.1.} The share of consumption of 4th and 6th to 9th decile do not show statistically significant trend.

^{2.} The form of function is exponential.
 Independent variable is time.

3. Figures in the parenthesis contain t-values.

Annexure 7.7
Trend in Decile-wise Consumption Share in Urban Area : 1977-91

S1. No.	Dependent Variable	Constant	Regression Coefficient	R ²	R
0	1	2	3	4	5
1.	8th Decile	2.6400 (21.96)	-0.0064	0.34	0.20

- N.B.:1. The trend of consumption share in other decile do not trun out to be statistically significant.
 - The form of function is exponential. Independent variable is time.
 - 3. Figures in the parenthesis contain t-values.

Annexure 7.8

Trend in Decile-wise Consumption Share in Urban Area: 1958-91

S1. No.	Dependent Variable	Constant	Regression Coefficient	R ²	\overrightarrow{R}
0	1	2	3	4	5
1.	lst Decile	1,1800	0.0021 (2.07)	0.18	0.14

- N.B.:1. The share of consumption in other decile do not show statistically significant trend.
 - 2. The form of function is exponential.
 - Independent variable is time.
 - 3. Figures in the parenthesis contain t-values.

Annexure 7.9

Lorenz Ratio of Consumption Distribution

		122662662	Section 18 and	
S.No. Year		Rural	Urban	
0	1	2	3	
1	1958-59	0.32588	0.34909	
2	1959-60	0.31367	0.35710	
3	1960-61	0.32174	0.34777	
4	1962-63	0.31356	0.35669	
5	1963-64	0.29769	0.35962	
6	1964-65	0.29366	0.34924	
7	1965-66	0.29725	0.33848	
8	1966-67	0.29338	0.33681	
9	1967-68	0.29079	0.33236	
10	1968-69	0.30514	0.32915	
11	1969-70	0.29277	0.34026	
12	1970-71	0.28313	0.32647	
13	1972-73	0.29935	0.34101	
14	1973-74	0.27581	0.30125	
15	1977-78	0.33861	0.34481	
16	1983-84	0.29759	0.33027	
17	1987-88	0.29826	0.35369	
18	1988-89	0.29041	0.33760	
19	1989-90	0.27825	0.35000	
20	1990-91	0.27202	0.33054	
21	1991-92	0.28726	0.36734	

Note:Estimated from NSS Consumer Expenditure Distribution.

Annexure 7.10 Trend in Inequality in Consumption Distribution

S1. No.	Year	Dependent Variable	Constant	Regression Coefficient	R ²	\overline{R}^2
0	1	2	3	4	5	6
1. Ru	ral					
a)	1958-73	Log LR	-1.1340 (-72.93)	-0.0083 (5.11)	0.68	0.66
b)	1977~91	Log LR	-0.8300 (-11.05)	-0.0133 (5.25)	0.85	0.82
c)	1958-91	Log LR	-1.1700 (-63.60)	-0.0025 (2.60)	0.26	0.22
2. Uz	ban					
a)	1958-73	Log LR	-1.0150 (-58.49)	-0.0075 (4.15)	0.59	0.55
b)	1977-91	Log LR	-1.2540 (-5.28)	0.0053 (0.67)	0.08	-0.10
c)	1958-91	Log LR	-1.0670 (-59,58)	-0.0006 (0.66)	0.02	-0.03

Legend : LR = Lorenz Ratio of Consumption Expenditure Distribution.

N.B. 1. The form of function is exponential. 2. Time indicated by year is the explanatory variable. 3. Figures in the parenthesis contain t-value.

CORRIGENDUM

Page64
Table-4.3
Item-5
Foodgrain Production (1991-92)
172.5
72.5

