Chapter Two

ESTIMATES OF STATE DOMESTIC PRODUCT IN INDIA

1960-61 & 1970-71

I. Introduction :

It is customary to measure the extent of economic growth of a region over a period of time in terms of the relative change in income of that area or region between the initial and the terminal years of the period. Since economic growth of a region has two aspects - one relating to the productive capacity of the region and the other relating to the economic welfare of the population residing within the region, there are two corresponding concepts of income of a region. Productive capacity of a region is represented by the income which is generated within the geographical boundaries of the region while the economic welfare of the population of the region gets reflected through the income received by the people residing within the region. The former is known as the income originating in a region and the latter is referred to as the income accruing to the region 1 The two concepts differ from each

^{*1} A third concept of State income based on personal income also

other inasmuch as the net inflow of income to the residents of the region from the rest of the world is non-zero.

national income at factor cost correspond to the concepts of income originating and income accruing, respectively. It should be noted here that net national income is relatively easy to calculate because it relates to the country as a whole and the statistics pertaining to net income from abroad are readily available at the national level. *2. "At the State level, however, it is extremely difficult to estimate income from 'abroad' as the factor income flows across the boundaries of the State are difficult to enemare in the statistical net". *3

exists. "It is the current income received by normal residents from all sources inclusive of transfers from Government and business but exclusive of transfer among persons where 'person' includes individuals, owners of unincorporated enterprises and non-profit institutions". Cf. National Council of Applied Economic Research (NCAER): Distribution of National Income by States, 1960-61, Jan.1965, ch.3. For detailed discussion on these concepts, see Werner Hochwald: "Conceptual Issues of Regional Income Estimation" in Regional Income, Studies in Income and Wealth, Vol.21, National Bureau of Economic Research, New York, 1957 (This publication will be henceforth referred to as NBER: Regional Income, 1957). See also S. Geronymakis: "Discussion Papers", in W. Isard & J.H.Cumberland (eds.): Regional Ecomomic Planning - Techniques of Analysis for Less Developed Area, (Paris: European Productivity Agency, 1961).

^{*2} Sometimes, the margin of error in the income estimates in this sector is quite high even at the national level. In U.K., for instance, it is found to be more than 10%. Cf. "National Income Statistics: Sources and Methods" issued by Central Statistical Cffice of U.K.

^{*3} B.W.Chavan and Anita Chavan: National Income in India -

At this point, it is important to note that "For a comparative study of the level of industrial and economic developments among the states or regions. It is sufficient to have an estimate of income originating within the 'State' or 'region'." Moreover. "the region is analyzed as the integral part of a larger national market, and regional development is responding to national rather than regional demand. For policy purposes, therefore, the industrial origin of income received by area residents, and a record of regional production by key industries as they adapt themselves to changes in the national market, may be more helpful than regional expenditure estimates required for the technical completion of a regional accounting system."*5 Further, many other scholars in the field also feel that regional estimates of income produced are invaluable as a basis for inter-regional comparison of resource productivity within given industries, and that "there is no need to

Concepts & Methods. (Bombay: Sindhu Publication Pvt.Ltd.,1970), p.66. Similar doubts have also been expressed by The Committee on Regional Accounts (CRA) in its First Report, p.12; see also, NCAER: Distribution of National Income by States, 1960-61, op.cit.

^{*4} Third Five Year Plan, Planning Commission Govt. of India.

^{*5} W. Hochwald: "Conceptual Issues of Regional Income Estimation", op.cit.

^{*6} Cf. Richard Easterlin: "Comment", in NBFR: Regional Income, 1957.

get into the area of interregional money flows, or even interregional commodity trade" for this purpose.

Since our primary interest in the present study is to examine the interstate variations in economic growth in India, the ideal measure of State income for our purpose, therefore, is the income <u>originating</u> rather than the income <u>accruing</u> to different states in India. Fortunately, all the estimates of state income in India available at the official level are based on the concept of income <u>originating</u> within the geographical area of the State.

It should be admitted at the very outset that although income originating within a region is an ideal measure for our purpose, it is not altogether free from the statistical as well as conceptual problems. As W. Hochwald rightly points out, "Since a region within the national economy is essentially an open system, regional sectoring of economic activity may but partly coincide with the spatial jurisdiction of institutional transactors that cannot properly be identified with particular geographic area." Such 'supre-regional' transactors

^{*7} Cf. F.H.Leccy; "Comment" in NBER: Regional Income, 1957.

^{*8} W.Hochwald: "Conceptual Issues of Regional Income Estimation", op.cit.

whose operations are not confined within the geographical boundaries of a given State. but whose activities are spread over more than one State. represent a serious problem both at the conceptual and operational level as far as the measure of income originating in the region at factor cost is concerned. These 'supra-regional' transactors whose operations extend beyond the boundaries of a given state include "railways, communications, central government administration, large corporations like banks and insurance and large productive enterprises (in the private and public sectors) with branches located in a number of regions". "9 difficulty in estimating the income originating in a particular state at factor cost arises mainly because such enterprises generally do not maintain their internal accounts in a way that would facilitate the estimation of income originating for their activities within given States.*10

Second major problem with income <u>originating</u> in States arises in the case of sectors where the income estimates are based on conventional yield rates, local inquiries or the samples because the size of samples in many cases is not sufficiently large to provide reliable estimates for the State.

^{*9} Cf. CRA: First Report, op.cit. p.13. Also see, NCAER: Distribution of National Income by States, 1960-61, op.cit.

^{*10} Ibid.

"Even the interpolation or extrapolation of bench-mark data for inter-census and post-census years is generally much less justifiable for a state than for a nation, since the underlying basic stability assumptions tend to lose validity as the size of area in question shrinks." *11

An important problem arises in comparing the levels of income originating in different states at factor cost inasmuch as the purchasing power of a rupee varies from State to State. Moreover, the movements of the prices over time is also not uniform for all States. At this point, it is interesting to note that a study on the interstate price changes in the United States for the period 1929 to 1953 concludes in the following way: "Only after the attempt is made to develop state and regional price indexes for past years can one conclude that an attempt would be somewhat foolbardy." This conclusion may largely be due to the nature of the U.S. economy. For an underdeveloped country like India, the problem of different

^{*11} B.W.Chavan and Anita Chavan: National Income in India - Concepts & Methods, op.cit., p.74.

^{*12} A.Hurwitz and C.P.Stallings: "Interregional Differentials in Per Capita Real Income Change" in NBKR: Regional Income, 1957. For criticisms and comments on this study, see N.M.Koffsky: "Comment", and M.G.Reid: "Comment" in NBER: Regional Income, 1957.

price-movements over time can distort the relative picture if the comparisons are made over time. 13 However, this problem can be resolved if we take the income at constant prices with a uniform base year for all the states. Still, the problem of interstate veriations in the prices which are implicit in the base year estimates of State income remains. In this connection. it is sufficient to mention that our basic objective behind the present study is to examine interstate growth differentials which, in all likelihood, are not significantly affected by the interstate variations in the bace year prices, though it must be admitted that the interstate comparisons of the levels of per capita income do get affected by the interstate variations in the base year prices. However, in view of almost complete lack of systematic studies on the interstate variations in the levels of prices in India. it is but an open question whether in the base year (i.e. 1960-61) there were significant variations in the levels of prices among different "tates in India. We can assume for our purpose, as most of the studies do. that these variations, if at all, were insignificant in the

^{*13} Cf. J.G. Williamson: "Regional Inequality and the Process of National Development: A Description of the Patterns," in Economic Development and Cultural Change, Vol.13, No.4, Part II, July, 1965. He argues that "the divergence between regional price levels is likely to diminish as the nation develops". This obviously implies that the price-movement could distort the reality in an underdeveloped country like India over time.

sense that they would not have any substantial effects on the results. As S.A. Goldberg puts it, "In national income accounting as in any other field, the statistician has a responsibility to ensure that his data reflect, and do not distort, reality. At the same time, he must avoid being perfectionist. Information should not be withheld merely because it is approximate."*14

In the next section of the present Chapter, a brief review of the estimates of state income so far made in India is carried out. Then, the third section is devoted to a discussion of the method followed in the present study to derive comparable estimates of the Net State Bomestic Product (SDP) at factor cost for the fifteen states in India for the two bench-mark years 1960-61 and 1970-71. A detailed analysis of the estimates derived in the present Chapter is conducted in the following Chapter.

II. A Review of the Available Estimates of State Income in India:

State income estimation is a subject of relatively recent origin and in the case of an underdeveloped country like

^{*14} Simon A. Goldberg: "The Development of National Accounts in Canada", in The Canadian Journal of Economic and Political Science, EV (February, 1949), p.37.

India, it is all the more so. Though systematic efforts in the direction of preparing estimates of State income in India were made only after Independence, by now, a good deal of literature exists on the subject to warrant a brief review of the main studies dealing with the estimation of State income in India. To start with, we can divide all the available estimates into two broad categories, viz., the Unofficial estimates and the Official estimates.

The first estimate of state income in India was made by Br. G.Slater in the <u>Madras Year Book</u>, 1923. Then, Dr. Batarajan prepared the estimates of state income for the years 1938-39 and 1949-50 for the then existing provinces in Indian Union.* The Indian Institute of Public Opinion (IIPO) has also given the estimates of state income from time to time.* 16 It is to be regretted that these estimates are of

^{*15} Cf. Dr. Ratersjen: An Essay on Mational Income and Expenditure in India, Govt. of Madras, 1949.

^{*16} Cf. (1) "The Plans and Unequal Regional Development - A study of Regional Disparities in Progress, 1950-61", in Quarterly Recommic Report of the IIPO, 10th issue.

⁽ii) "The character of Regional charges in Income, 1955-56 to 1960-61 - An Assessment of Sectional Charges in State Incomes", in Quarterly Economic Report of the IIPO, 21st issue.

⁽iii) "The Regional Estimate of Disparities in Indian Planning - The Structure of Regional Income Changes, 1951-1966," in Quarterly Economic Report of the IIPO, 25th issue.

little use since the methods and procedures followed in estimating these state incomes have not been explained anywhere.

In addition to this, some occasional attempts were made by individual scholars also, in the direction of preparing some estimates of regional income. Mention may be made of the following writers. Dr. S.G. Tiwari*17 and Dr. B.G. Kunte*18 attempted to estimate income accruing to the United Provinces (now known as Uttar Fradesh) and Bombay Province & Sind respectively. Prof. S.R. Bose*19 prepared a paper on the state income of Bihar for the year 1946-47. A commendable effort was made by M.D. Chaudhary of estimating the State income of various states in India by allocating the national income totals for the year 1955-56.*20 In 1961, Ravi Varma*21 and K.B.Raj*22

^{*17} Cf.S.G.Tiwari: "Economic Prosperity of the United Provinces - A Study in the Provincial Income and its Distribution and Vorking Conditions, 1921-39", (Bombey, 1951); Recently in a paper he has reviewed exhaustively the work done on the regional income estimation in India. See S.G. Tiwari: "Regional Accounting in India", in Review of Income & Wealth, March, 1971.

ing in India", in Review of Income & Wealth, March, 1971.

*16 B.G.Kunte: Economic Prosperity of Bombay Province and Sind,
1919-39, unpublished Ph.D. Thesis submitted to the University
of Bombay, 1958.

^{*19} Cf. Quarterly Bulletin of Statistics. Govt. of Bihar. Oct. 1950.

^{*20} M.D.Chaudhry: Regional Income Accounting in an Underdeveloped Economy: A Case Study of India, (Calcutta: Firms K.E.Mukho-padhyay, 1966). Horsover, he has also combined with Hoselitz to estimate State income of Delhi.See, M.D.Chaudhry and B.F. Hoselitz: "State Income of Delhi State, 1951-52 and 1955-56", in Economic Development and Cultural Change, Vol.11, Pt.II, April 1967.

^{*21} Navi Varma: "Estimation of State Income by Allocation Method", paper submitted to the <u>Third Indian Conference on Research in National Income</u>, 1961.

^{*22} K.N. Raj: "Some Features of Economic Growth of the Last Decade

also prepared the estimates of state income by allocating the national totals. However, the methods adopted by Ravi Varma and K.N. Rej in their respective studies could bardly be regarded as regorous. P.D. Otha*23 and Pillai & Grace*24 have also attempted to estimate State-wise personal income. Ojha's estimates are based on some broad assumptions which are open to question. while the estimates given by Fillai & Grace are based on the RSS data collected for the period of 30 days preceding the date of Survey by interviewing the sample households. Whether such sample data can yield reliable estimates of totals at the State level is a most question.

Apart from all these studies made by individual scholars. National Council of Applied Economic Research (MCAER) has also actively engaged itself in the research on the State incomes. and. as a culmination of sustained efforts, bas brought out several valuable documents on the State income in India. *25

in India", in The Economic Weekly, 12th Annual Mumber, vol. XIII, Nos.4.5 and 6, February, 1961.

^{*23} P.D. Ojha: "Retimation of State Income in India". The Indian Economic Journal, Vol. XI. No. 1. July-Sept. 1963.

^{*24} K.N. Pillai & I.V. Grace: "Estimates of Personal Incomes by States", Monthly Abstract of Statistics, vol.14, No.11, Bovember, 1961.

^{*25} NCAER has brought out following studies relating to the Interstate Income Differentials:

^{1.} Inter-District and Inter-State Income Differentials, 1955-56. (198)
2. Agricultural Income by States, 1960-61. (August, 1963)
3. Income & Structure of Manufacturing Industry, 1960-61

⁽A State-wise Analysis)

As the Committee on Regional Accounts (CRA) in its First
Report observes, "One of the special features of the estimates
prepared by the NCAER was that a great deal of attention was
given to the problem of methodological comparability of the
estimates among the States so that the regional development
studies based on these estimates would give meaningful results".
However, these estimates are not without short-comings largely
on account of the fact that some of the unpublished statistical
meterial, available to only official agencies, was not available to the NCAER. Moreover, it is rather surprising to find
significant differences in the estimates of the state income
obtained from the various publications of the NCAER relating
to State income and the estimates given by the same agency in
its Techno-Economic Surveys of various States.

In the brief review presented above, we have examined most of the Unofficial estimates of the State income available for Indian states. Two points may be noted in this connection. In the first place, only a few of them relate to the bench-mark year 1960-61 and none to the year 1970-71. Secondly, on account

^{4.} A Study on Regional Differences in Industrial Pattern (1960) (1964)

^{5.} Distribution of Mational Income by States, 1960-61 (Jan. 1965)
6. Estimates of State-Income in India, 1950-51, 1955-56 &

^{7.} Summing-up Patterns of Growth of States, Jenuary, 1965).

of the methodology and/or data base of these studies, the estimates are largely inadequate for the purpose of our study. Let us now, therefore, turn to a review of the available Official estimates on the state income.

There are broadly two sources of the Official estimates on the State income in India, viz., various State Statistical Bureaus (SSBs) and the Central Statistical Organisation(CSO), Ministry of Planning, Government of India. The first systematic effort to estimate regional income in India by an official agency was perhaps made by the Bureau of Economics and Statistics of the then Bombay Province in the year 1950.*26 However, some of the sectors like mining, fishery, small enterprises etc. were left out in the initial attempt. In the subsequent year, the coverage was enlarged to include these sectors also.*27 The next to follow were the States of Uttar Pradesh and Bihar. In Uttar Pradesh (U.P.), the estimates of income with rural-urban breek-down and at current and constant

^{&#}x27;26 V.V.Divetia: "Notes on Income of Bombay Province", <u>Bulletin</u> of the Bureau of Economics and Statistics, Govt. of Bombay, vol. III, No. 3, Jan. 1950.

²⁷ V.V.Divetia: "Notes on Income on Bombay State for 1949-50", Bulletin of the Bureau of Economics and Statistics, Govt. of Bombay, vol. IV, No. 3, Jan. 1951.

prices were first published in 1955. In Bihar, the estimates for the year 1946-47 were also first published in 1955. A number of other States like Madhya Pradesh, Assam and West Bengal prepared their first estimates, following broadly the methodology adopted by the National Income Committee, which consists of the method of value added for most of the commodity producing sectors and income method for the remaining sectors. The concept of income was that of income originating in different sectors of the State economy at factor cost which is frequently referred to as the net State Domestic Product(SDP).

With recommendations of the Fifth Joint Conference of Central and State Statisticians held at Jaipur in 1956 and the Preliminary Conference on Research in National Income in 1957, almost all major States in India initiated the efforts in the direction of computing the estimates of income originating, following broadly the method recommended by the National Income Committee. The following observation made by the CRA summarizes the existing situation in this regard:
"Today practically all the States of India compute such estimates. The estimates are being compiled both at current and constant prices though neither the period covered nor the base year for the constant price series is uniform among States.

Also, the methodology adopted by the States is not always uniform being primarily dependent on the type of data available in individual "tates." *28

The Working Group, set up by the CSO for supervising the estimates prepared by SSBs. has made detailed suggestions for improving the estimates and achieving interstate comparability. It has recommended farm management studies for improvement of data on input structure of the agricultural sector and has also made recommendations regarding the collection of basic data in sectors like unregistered manufacturing, construction. trade, transport by means other than railways and other services. It has also devoted considerable attention to standardise methodologies for estimation of income originating in different sectors of the State economies. To the extent the data-availability permits, the SSBs generally adopt the standard methodology prescribed by the Working Group. For the six commodity producing sectors, viz., agriculture, animal husbandry, forestry, fishery, mining and quarrying and registered manufacturing, the data-availability is fairly satisfactory for the SSBs to follow the standard methodology: while for other sectors, the situation on the data-front is far from satisfactory so that only a few States prepare the

^{*28} Of. The CRA: First Report, op.cit. p.4.

estimates following the standard methodology.

The overall degree of reliability of the estimates of the SDP by SSBs gets adversely affected by (i) complete lack of data for some sectors, (ii) indifferent quality of some of the data collected through the routine administrative system and (iii) absence of appropriate current data which often leads to crude methods of estimation. The degree of reliability of the SSBs estimates of SDP varies significantly from sector to sector or among the sub-sectors or for certain constituents of a sector, too. For instance, the gross value of output in agriculture (proper) is more reliable than the net value; estimates of income originating from activities of state governments are more reliable than the corresponding estimates of central government activities within the State boundaries.

At this stage, it should be noted that though the SSBs estimates of the SDP are the most comprehensive and comparable over time for the individual State, there are serious problems of cross-section comparability of these estimates at a point of time. This is because, in spite of a broad uniform methodology to estimate SDP, the SSBs differ (perhaps have to differ) substantially with respect to minor decisions at crucial stages of the estimation. Thus, even in the commodity producing

sectors where the data are collected every year, methode like sample survey, conventional yield rates or local inquiries have to be followed for a fraction of the sector. which in turn. introduces an element of cross-section non-comparability. Secondly, in the sectors where current data are not available and estimates are prepared on the basis of data collected at points of time with long intervals, there is a considerable likelihood of elements of cross-section non-comparability entering the estimates, because for such sectors, invariably year-to-year interpolation or extrapolation is done with the help of working force and per capita earnings. Now. the estimates of working force, as will be seen later, are non-comparable on account of drastic changes in the definition of "a worker" in the consecutive censuses *29 in India. with the result that method adopted for obtaining the estimates of working force for intercensal periods varies from State to

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[&]quot;Presumably, changes in census definitions are introduced from time to time by government statistician, not just out of pure cussedness, or even solely because they discover better ways of measuring the 'same thing'. On the contrary, many such changes are virtually forced upon them, because the "things" being measured are changing qualitatively and structurally, as well as quantitatively... It is clear that economic systems not only 'grow', they also 'evolve'." See O.D. Duncan: "Population Redistribution And Economic Growth: A Review", in Economic Development and Cultural Change, vol.7, No.1, Oct. 1958.

State. Moreover, the data on average earnings are also not available annually, nor are they collected in any uniform manner by different states. In the category of sectors where the problem of 'supra-regional transactors' is encountered, the method of allocation of national totals to the States has to be followed. At present, as the CRA reports, the GSO is providing the estimates for these sectors to the SSBs for their use.

It can be seen from the above discussion that for the interstate comparison of incomes, the SSBs estimates of SDP cannot by themselves serve the purpose. The Planning Commission recognised this need as far back as in 1961, when it had suggested the CSC to undertake compilation of comparable estimates of state income. Consequently, the CSC has prepared a set of comparable estimates of SDP at current prices for three years 1962-63 to 1964-65 for the use of Flanning Commission in 1969. The detailed sectoral break-down of these estimates is not available. However, similar estimates of comparable SDP at current prices for the subsequent period of 1967-66 to 1969-70 are available by all sixteen sectors for each State in India. These estimates have been prepared by the CSC in 1973 for the use of the Sixth Finance Commission as well as the Planning Commission. The method of estimation is

a combination of the method of direct estimation using the local data for the commodity producing sectors and the method of allocating national totals for the remaining sectors on the basis of appropriate indicators. To quote the CRA, "It is no doubt true that these estimates prepared by a single agency at the centre suffer from the limitation to the extent that some of the local material available for some of the States cannot be taken account of in the interest of comparability. However, generally, the indicators for the purpose of allocation are so formulated that all such information are integrated within the overall indicators to the extent possible".*30

of SDP in India, we can say that a lot of work seems to have been done in this field, but a lot more still remains to be done. Two features of the available estimates of the SDF in India are worth-noting for our purpose. Firstly, most of the available estimates of SDP are only at current prices with exception of the estimates prepared by the SSBs which are non-comparable among States. Secondly, no single source exists for comparable estimates of SDP among States for both the years 1960-61 and 1970-71. We, however, require estimates

^{*30} The CRA: First Report, op.cit., \$.16.

of SDP at constant prices for the two years 1960-61 and 1970-71, comparable over time and among States. In light of the above discussion, therefore, we shall have to first derive such estimates. In the following section, we make an humble attempt to derive the estimates of SDP at 1960-61 prices by 16 major sectors for the two years 1960-61 and 1970-71, comparable over time and among states.

III. Estimates of Comparable SDP at 1960-61 prices for the years 1960-61 and 1970-71:

As already mentioned in the earlier section, only the SSBs estimates of SDP are at current as well as constant prices by detailed sectors. Though these estimates are not comparable among different States, they are certainly comparable over time for each individual State. Moreover for all the fifteen States under consideration, these estimates are available for the years 1960-61 to 1970-71.*31 This implies

^{*31} These estimates are available from the following sources:-

⁽¹⁾ Estimates of State Income of Andbra Pradesh, 1960-61 to 1974-75, Issued by Bureau of Economics & Statistics, Govt. of Andbra Pradesh, Hyderabed-4.

⁽²⁾ Estimates of State Income of Assam, Jan. 1976, Issued by Directorate of Economics and Statistics, Govt. of Assam, Gaubati.

⁽³⁾ Brochure on Revised Series of State Income of Bihar.

Issued by Directorate of Statistics and Evaluation,
Flanning Department, Govt. of Bihar.

⁽⁴⁾ Estimates of State Domestic Product, Gujarat State,

that the growth of SDP originating in a particular sector. implicit in the SSEs estimates. is comparable among States. However, this does not mean that the overall growth of SDP implicit in the estimates of SSBs is comparable among States. because the sectoral composition of SDP in the base year. which is one of the determinants of the overall growth of SDP. itself is dependent on the estimates of the SDP and hence non-comparable among states. On the other hand, we have the official estimates prepared by the CSO of the comparable SDP by 16 sectors at current prices for the years 1967-68: 1968-69 and 1969-70. Appendix Table 2A.1 below represents the CSO comparable estimates of SDP by 16 sectors at current prices for the years 1967-68 and 1969-70 for each of the fifteen States in India. These estimates can form the basis for deriving the comparable estimates of SDP at current prices for the

issued by Bureau of Economics and Statistics. Covt. of Gujerat.Ganahineger.

⁽⁵⁾ (6) The Economic & Statistical Adviser to Government, Haryona.

Bureau of Reonomics and Statistics, Covt. of Karnataka.

Bureau of Economics and Statistics, Govt. of Kerala. (8)Estimates of State Domestic Product of Madhya Pradesh, Issued by Directorate of Economics and Statistics. Madbya Pradesh.

⁽⁹⁾ Directorate of Economics and Statistics. Govt. of Maharash-

⁽¹⁰⁾ Estimates of State Domestic Product, Issued by Bureau of Statistics & Economics, Urissa.
(11) The Economic Adviser to the Govt. of Punjab, Punjab.

⁽¹²⁾ Revised Estimates of State Domestic Product, Directorate of Economics & Statistics, Rajasthan.

(13) Department of Statistics, Govt. of Tamil Madu, Madras.

(14) Economics & Statistics Division, Govt. of Uttar Fradesh.

Lucknow.

⁽¹⁵⁾ Bureau of Applied Economics and Statistics.Govt. of West Bengal. Calcutta.

years 1960-61 and 1970-71. We can assume that, for each of the 16 sectors, the growth of SDP between 1960-61 and 1967-68 is given by the corresponding SSBs estimates for each State.

Similarly, the growth of SDP in each of the 16 sectors between 1969-70 and 1970-71 is given by the corresponding SSBs estimates for each State. Then, we can carry backwards the CSO comparable estimates of SDP in each of the 16 sectors in 1967-68 to the year 1960-61; and carry forward the CSO comparable estimates of SDP in each of the 16 sectors in 1969-70 to the 1970-71 in the case of each State. This will give us the comparable estimates of SDP in 1960-61 and 1970-71 at current prices for each State. These estimates are presented in Appendix Table 2A.2 below.

Now, the problem that remains is the one of obtaining appropriate price index for each of the 16 sectors to convert the 1970-71 current price figures into the corresponding figures at 1960-61 prices. In the light of very little information available on the price indexes at the state level, we can make the use of price deflators obtained from the SSBs estimates of SDP by the detailed sectors at current and constant prices.* 32 The price indexes can be converted to the

^{*32} In Grissa, Kerala, Assam and West Bengal, the SSBs have not deflated the current price figures in the sector Public Administration to obtain the corresponding constant price figures. In these cases, we can take the price deflators implicit in

base 1960-61 wherever the base is different. The price indexes so obtained to convert the current price estimates into the corresponding 1960-61 price estimates for each of the 16 sectors in each of the fifteen States are presented below in the Appendix Table 2A.3.

Then, by applying these sector-wise price indexes to the respective comparable estimates of SDF at current prices, we can obtain comparable sector-wise estimates of SDF at 1960-61 prices for the year 1970-71 in each State. The comparable estimates of SDF by 16 sectors at 1960-61 prices, so derived in the case of each State, for the year 1970-71 are presented below in Appendix Table 24.4.

Before concluding this section, it would be an interesting exercise to compare the levels and growth of overall SDP at constant prices as given by our estimates with those given by the SSBs estimates. Table 2.1 presents our estimates of the total SDP at 1960-61 prices vis-a-vis the SSBs estimates of total SDP at constant prices and Table 2.2 presents the growth

the corresponding national estimates available from the <u>National Accounts Statistics</u>, CSO, Ministry of Planning, Govt. of India, Feb. 1976.

^{*33} In Assam and Karnataka, the base years taken by the respective SSBs are 1948-49 and 1956-57. For these States, therefore, the base hus to be converted into 1960-61.

Table 2.1

Growth of SDP at Constant Prices - Our Estimates and the SSBs Estimates

1960-61 1970-71 Decennial 1960-61 1970-71 Decennial 1960-61 1970-71 Decennial 1960-61 1970-71 Decennial 1960-61 1960-6			Our Estimates of	SUE	at 1960-61 prices	SSBs' Retimetes	Estimates of SDF at 1960-61	1960-61
(Blekhs) (Blekhs) (Blekhs) (Blekhs) (In per cent) (Blekhs) (In per cent) 105 008 140199 33.51 98519 151120 33.33 105 008 140199 33.51 98519 151120 33.33 105 008 140199 37.96 26780*1 44.88 26790*1 44.88 105 062 125416 18.47 99302 12428 25.1 76839 116686 51.86 73769 112400 52.5 77525 134125 78.06 55591*2 90491*2 79.7 75325 134125 78.06 55591*2 90491*2 62.7 47250 63757 34.34 44.378 58.89 32.7 159271 205062 28.75 159742 217712 33.1 41682 67607 62.20 41107 70441 71.3 56150 223098 30.13 179931 146663 31.9 175282 <t< th=""><th>A</th><th>ಗೆಡಿ ಗೇಜಿ</th><th>1960-61</th><th>17-07-01</th><th>Decennial</th><th>1960-61</th><th>ľ</th><th>Decennial Growth Rate</th></t<>	A	ಗೆಡಿ ಗ ೇ ಜಿ	1960-61	17-07-01	Decennial	1960-61	ľ	Decennial Growth Rate
Inchmark of the control of t		•	(10.00)	(1	(In nor cont.)	(B.lekhe)	(13.1akha)	(In per cent)
Andbre Fradesh 105008 140199 33.51 98519 131120 Assem 41492 57.242 37.96 26780*1 35190*1 Bihar 105862 125416 18.47 99302 12428 Bihar 105862 125416 18.47 99302 12428 Gujarat 76839 116686 51.86 73769 112400 Haryana 27348 49905 82.48 24503 44042 Karnataka 75325 134125 78.06 55591*2 90491*2 Karata 47250 63757 34.94 44378 58899 Karata 159271 205062 28.75 159742 212712 Madhya Pradesh 44.582 67607 62.20 49.44 77408 57448 Punjah 41682 67607 62.20 41107 70441 Rajasthan 119686 160024 33.70 111165 146653 Wast Bengal 154274 20			(SUNTATE)	(and tech	****		9	
Andbre Frauces 19900 17019 77.96 26780*1 36790*1 Assem 41492 57.242 37.96 26780*1 36790*1 Bihar 105862 125416 18.47 99302 12428 Bihar 76839 11686 51.86 77769 112400 Cujaret 76839 11686 82.46 24503 44042 Maryana 27348 49905 82.46 24503 44042 Kerala 77525 134125 78.06 55591*2 90491*2 Kerala 47250 67757 34.94 44378 55899 Kerala 109146 29.35 83180 107040 Madhya Pradesh 84381 109146 29.35 49.44 44378 51899 Macherashtra 159271 205062 28.75 159742 217712 Punjab 41682 67607 62.20 49.44 41107 70441 Punjab 119686 160024				11 64 00	42.51	98519	131120	
Assem 41492 57242 27.90 20.00 124228 Bihar 105862 125416 18.47 99302 124228 Gujarat 76339 116686 51.86 73769 112400 Gujarat 76329 116686 51.86 73769 112400 Rarnataka 27348 49905 82.48 24503 44042 Karnataka 77525 134125 78.06 55591** 90491** Kerala 47250 65757 34.94 44378 56899 Madhya Pradesh 84381 109146 29.35 85180 107040 Maharashtra 159271 205062 28.75 159742 212712 Maharashtra 159271 205062 28.75 49.44 77448 Punjab 41682 67607 62.20 41107 70441 Rajasthan 119686 160024 33.70 111185 14665 Wttar Pradesh 175282 228098 <	•	Andhra rradesi	net•	00.04	30 60	1*08030	78790#1	
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Gujarat 76839 116686 51.86 73769 112400 Haryana 27348 49905 82.48 24503 44042 Karnataka 75325 134125 78.06 55591*2 90491*2 Kerala 47250 67757 34.94 44378 58899 Madhya Pradesh 84381 109146 29.35 83180 107040 Madhya Pradesh 84381 109146 29.35 83780 107040 Madhya Pradesh 159271 205062 28.75 159742 212712 Madhya Pradesh 41682 67607 62.20 49.44 37408 57448 Punjab 41682 67607 62.20 41107 70441 Rajasthan 56150 85530 52.32 55941 88865 Tamil Nadu 179686 160024 33.70 111165 146653 West Bengal 154274 200528 29.98 109076 148939	9	Biber	105862	125416	18.47	99302	124 228	2 (0)
Reryana 27348 49905 82.48 24503 44042 Kernsteka 75325 134125 78.06 55591*2 90491*2 Kerala 47250 67757 34.94 44378 55899 Madhya Pradesh 84381 109146 29.35 83180 107040 Madhya Pradesh 159271 205062 28.75 159742 212712 Madhya Pradesh 159271 205062 28.75 159742 212712 Madhya Pradesh 41682 67607 62.20 49.44 37408 57448 Punjab 41682 67607 62.20 41107 70441 Rajasthan 19686 160024 33.70 111165 146663 Teall Nadu 175282 223098 30.13 179931 242083 West Bengal 154274 20528 29.58 109076 148939		Tarest.	76839	116686	51.86	73769	112400	52.37
Rernataka 75325 134125 78.06 55591*2 90491*2 Kernataka 47250 63757 34.94 44378 58899 Kerala 47250 63757 34.94 44378 58899 Madhya Pradesh 84381 109146 29.35 83180 107040 Madhya Pradesh 159271 205062 28.75 159742 212712 Madhya Pradesh 41682 67607 62.20 49.44 37408 57448 Punjab 41682 67607 62.20 41107 70441 Rajasthan 19656 160024 33.70 111185 146653 Uttar Pradesh 175282 223098 30.13 179971 242087 West Bengal 154274 200528 29.98 109076 148939	•	20 40 00 00	77748	49905	82.48	24503	44042	
Karnataka 1992 44378 58899 Kerala 47250 63757 34.94 44378 58899 Madhya Pradesh 84381 109146 29.35 83180 107040 Maherashtra 159271 205062 28.75 159742 212712 Maherashtra 159271 205062 28.75 159742 212712 Punjab 41682 67607 62.20 41107 70441 Punjab 19656 160024 33.70 111165 146653 Tamil Nadu 175262 223098 30.13 179971 242087 West Bengal 154274 200528 29.38 109076 148939	•	neryena		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78.06	55591	90491	
Rerala 47250 63757 34.94 44.516 350.55 Madnya Pradesh 84381 109146 29.35 85180 107040 Madnya Pradesh 159271 205062 28.75 159742 212712 Maharashtra 159271 205062 28.75 159742 212712 Punjab 41682 67607 62.20 41107 70441 Rajasthan 56150 85530 52.32 55941 88865 Rajasthan 119686 160024 33.70 111185 146663 Uttar Fradesh 175282 228098 30.13 179951 242083 West Bengal 154274 200528 29.58 109076 1489339	•	Karnateka	(2)(2)	75.47.) (4) (4) (4		COGSE	
Madhya Pradesh 84381 109146 29.35 85180 107040 Madhya Pradesh 159271 205062 28.75 159742 212712 Maharashtra 159271 205062 28.75 159742 212712 Oriesa 59059 49.44 57408 57448 Punjah 41682 67607 62.20 41107 70441 Rajasthan 56150 85530 52.32 55941 88865 Tamil Nadu 119686 160024 33.70 111185 146663 Uttar Fradesh 175282 223098 30.13 179931 242087 West Bengal 154274 200528 29.58 109076 148939		Kerela	47250	63757	た。大	44210	n on one	
Maherashtra 159271 205062 28.75 159742 212712 Oriesa 39520 59059 49.44 37408 57448 Funjab 41682 67607 62.20 41107 70441 Rajasthan 56150 85530 52.32 55941 88865 Tamil Nadu 119686 160024 33.70 111185 146663 Uttar Fradesh 175282 223098 30.13 179931 242083 West Bengal 154274 200528 29.98 109076 148939	4	Madhya Prades		109146	29.35	83180	2407.01	20°52
Oriesa 39520 59059 49.44 37408 57448 Punjab 41682 67607 62.20 41107 70441 Rajasthan 56150 85530 52.32 55941 88865 Tamil Nadu 119686 160024 33.70 111185 146653 Uttar Fradesh 175282 223098 30.13 179931 242083 West Bengal 154274 200528 29.98 109076 148939		Maharaattra	- Gard	20505	28.75	159742	212712	33.16
Punjab 41632 67607 62.20 41107 70441 Punjab Rajesthen 56150 85530 52.32 55941 88865 Temil Nadu 119686 160024 33.70 111185 146663 Utter Fradesh 175282 223098 30.13 179931 242083 West Bengal 154274 200528 29.98 109076 148939			39520	59059	40.44	37408	57448	53.57
Rejesthen 56150 85530 52.32 55941 88865 Temil Nadu 119686 160024 33.70 111185 146663 Utter Fradesh 175282 223098 30.13 179931 242083 West Bengal 154274 200528 29.98 109076 148939			41680	67607	62.20	41107	70441	71.36
Rejection 20120 33.70 111185 146663 Temil Nadu 175282 223098 30.13 179931 242083 Utter Fradesh 175282 2200528 29.98 109076 148939	•	oz funz	1 00 4	Ornaga	50,33	55941	88865	58.85
Tamil Nadu 119656 100024 2210 2013 179931 242083 Uttar Pradesh 175282 223098 30.13 179931 242083	ė.	Rejesthen	00100	20000	33 70	111185	146663	31.91
Utter Fradesh 175282 223098 50.15 17351 2205 West Bengal 154274 200528 29.98 109076 148939		Tenil Nadu	119666	\$2000I	81.60	\$ 20 CC T	24 OO 40	34.54
West Bengal 154274 200528 29.98 109076 145939	ه ښند	Utter Pradesh		223098	50.15	102011	70000	
	*	West Bengal	154274	200528	85.05	109076	146929	70.07

*2 at 1956-57 prices. *1 at 1948-49 prices.

Source: 1) Appendix Table 24.4 below for Columns 2 and 3.
11) The references given in foot-note 29 above for Columns 5 and 6.

of SDP at constant prices implicit in our estimates on the one hand and the SSBs estimates on the other. From the figures given in Table 2.1, it is obvious that the levels of total SDP differ between our estimates and the corresponding SSBs estimates, though obviously the extent of divergence varies from State to State. Moreover, even for a given State, the extent of divergence between our estimates and the corresponding SSBs estimates differs from the two years, 1960-61 and 1970-71. However, barring the exceptions of Punjab and Rajasthan, in all the States the broad direction of the divergence between the two sets of estimates has remained the same in 1960-61 and 1970-71. In Punjab and Rajasthan, the SSBs tended to underestimate the income in 1960-61 while overestimated the same in 1970-71.

Another thing to observe from Table 2.1 is that only in two states, viz., Haryana and West Bengal, the levels of SDP at 1960-61 prices are significantly underestimated by the respective SSBs in the sense that the divergence between our estimates and the SSBs estimates is more than 10% with respect to our estimates. It is important to note, however, that the extent of underestimation is more or less of the same magnitude in the two years in the respective States.

Secondly, both these States (Haryana & West Bengal) are the

Table 2.2

and the SSBs Estimates	Growth of SDP at Constent prices
18DP - A Comparison Detween Our Estimates and the SSBs Estimates	SDF at 1960-61 prices in the year 1970-71 Y1-Y2 Y1-Y2
Levels and Growth of Real SDP - A Com	SDE at 1960-61 Erices in the year 1960-61 X1-Y3
Levele :	States

	6	2 1 1	71.75	2 1	7	۷	3 60
		(B. lakhe)	(In per cent)	(B.1ekhs)	(in per cent)	cent)	(In per cent)
		2	1 1	4		9	
		,		0200	3 Y	4	- 0.45
ę. Van	Andhre	- 6689	- 6.37	200) * ** 1	100	+12
c	TI GUIDO S			ч,		•	00000
i i		65,50	1 6.20	1188	- 0.95		つか・ハウト
*	Janta		90	4286	- 3.67	•	8.0°
*	Gujaret	2 !) () () () () () () () () () (・ 	77.75		1 3,32
'n	Heryena	1 X245	3	300	*		10.57
Š	Karnataka	Li			4	•	
		0000	6.08	1 4856	٠	•	
8	Perma) T	2106	100°	•	- 2.133 2.133
.	Madnya Fradesn	•	0 C C C C C C C C C C C C C C C C C C C	クロンド・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	10	•	+15.34
ď	Meherashtra	+ 4.73	200) r r	•	,	+ 8.35
Ç	Criess	- 2112	70.0	100		• "	100
	Contract of the Contract of th	575	1 1 300	+ 2874	•	-	0 0 0
• • (T WILL SO	35	24.0	+ 5555		+ のひひ	4-14-40
7	najaetnan	2 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1.79	1
13.	Tenil Madu	1 82C					+14.64
, 45 45 47	nator Pradesh	•	+ v. 0.	・ひのかつにす	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
• · ·	Wast Rengel	45198	-29.30	-51589	-25.75	~ • •	+41.01
•				,			

Note: Y stands for SSB estimates of SDP at 1960-61 prices.

Y stands for Cur estimates of SDP at 1960-61 prices.

G stands for the decennial growth of SDP at constant prices implicit in the SSBs estimates.

G stands for the decennial growth of SDP at constant prices implicit in our estimates.

MA stands for Not Available.

Sources: Table 2.1 above.

of these estimates prepared by the SEBs for some crucial policy decisions at the Centre regarding the allocation of resources among different States, it is not unreasonable to expect some deliberate efforts to underestimate the income on the part of these States. This becomes more clear if we compare the SEBs estimates of SEP at current prices for these two states with the estimates prepared by the CSO. Estimates of SEP at current prices for these 1967-68 are \$65108 lakks for Haryane and \$6205852 lakks for West Bengal as against the CSO estimates of \$6.71336 lakks for Haryane and \$6.269360 lakks for W.Bengal. This proves the point that both these State Bureaus are underestimating the State income.

So far as the growth of SDP is concerned, the figures given in the <u>Fable 2.2</u> reveal no uniform tendency. In some of the States, the SSBs have substantially overestimated the growth of real SDP while in some other States, the SSBs have tended to rather underestimate the growth of real SDP. Only in Andhra Pradesh, Gujarat and Madhya Pradesh, the SSBs have been able to estimate the growth of real SDP quite satisfactorily in the sense that the divergence between our estimate and their estimate is less than one percentage point. On the other

band, in as many as six States, viz., Assam, Bibar, Karnataka, Punjab. Rajasthan and W.Bengal. the SSBs have substantially underestimated or overestimated the growth of SDP at constant prices in the sense that the divergence between our estimates and the SSBs estimates is more than five percentage points. In Assem and Rarnataka, the base years for the constant price estimates of income are different from 1960-61, whereas our estimates are based on the 1960-61 constant prices. In Bihar and W. Bengal, the extent of underestimation of the level of SDP by the SSBs seems to be decreasing with the passage of time. *34 This would naturally lead to an overestimate of the growth by the SSBs during the period. In the case of Punjab and Rajasthan also, similar tendency is observed on the part of the SSBs. However, an interesting difference to be noted in this regard is that, in 1960-61, the SSBs in both these States tended to underestimate the income, while in 1970-71. they overestimated the income. Therefore, it is but natural that the SSBs in Punjab and Rajasthan substantially overestimated the growth of SDP over the decade.

^{*34} Cf. Table 2.1 above.

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Appendix Table 2A.1

Comparable Estimates of SDF at Current Prices prepared by USO for 1967-68 & 1969-70 (8. lakhs)

		4.5	7 % % % % % % % % % % % % % % % % % % %	Aeee		Tat her	ar	Guleret	1
	Sectors	1967-68	1969-70	1968-69 1	1969-70	1967-68	1969-70	1967-68	O
		ત્ય	3	*	^	9	į	හ	6
1:	Agricul ture	113678	122930	54282	49459	122054	108553	72630	76166
· CV		2132	1617	1658	2063	1728	2351	999	469
100		2150	2457	2006	1996	1950	1981	480	593
*	Mining & Quarrying	1337	1369	1755	2012	6320	10894	1724	2194
ic.		2166	9219	2276	3018	12680	12029	19245	18896
9		11118	12652	2373	24.99	12250	14341	9123	10026
-		7893	9655	3719	4476	12666	15268	9766	11480
Œ			1967	2	74	866	1361		1697
9	Railwaye		3793	1654	1120	6345	7850	2542	3028
. 0		1032	1421	374	378	919	821	841	1238
g g		5477	6015	1182	1144	2419	3672	2374	3062
ŝ		28931	29828	6631	6117	16490	16452	25086	28405
5		2124	2670	622	721	1407	1832	2913	3728
100	Real Estate & Ownership of Dwellings	5322	5755	1625	1748	3092	3247	4126	4467
E.		5418	28	2805	3300	4692	5778	3462	4174
16.		13837	15937	4064	4401	12678	14695	8589	10093
· •		215841	233890	86397	84526	220585	221165	164757	180016
					,			(S)	(contail)

Appendix fable 28.1 (contd.)

the partor	Haryane	ane	Karnateka	teka	ca l	la Secondaria
	1967-68	1969-70	1967-68	1969-70	20-/951	1969-70
	2		71			
Acrical ture	46450	56051	75576	39555	52846	64292
Porestry	89	1 78	2766	3835	1131	1207
Fishing	13	2	362	820	683	2568
Wining & Oughry ing	S. S.	. 16	\$69	903	145	107
Registered Manufacturing	3632	4516	10012	10190	7524	8104
6. Unregistered Manufacturing	3572	5444	6347	7399	3313	3820
	25.09	3573	5410	7725	3405	4615
5. Electricity, gas & Vater supply	y 493	5	1179	2363	617	948
	489	583	1000	1169	460	496
10. Communication	272	462	656	938	494	643
1. Transport by other means	2457	2210	2692	4079	5179	6841
12. Trade, Storage, hotels & restaurants	6150	7941	15360	17920	12316	15314
13. Banking & Insurance	537	899	2024	5609	1380	1656
14. Real Estate & Ownership of Drellings		688	3473	797	88	2180
15. Public Administration	1247	1666	3042	3670	2412	2998
16. Other Services	2582	3139	6767	10410	7817	9119
Potel	71336	88194	139560	167382	101925	124910

65

Appendix Table 2A.1 (contd.)

1	Sectors	រីនេលីby a	Pradesh	Haharashtra	htra	Oriese	98 1069-70	Punjab	01-69-10
			1369-17	190 190	1961	1	21	22	23
		04966	101309	104396	109657	57217	65065	66621	79161
<u>.</u> c		8636	4026	25.35	24.2	2177	2972	256	265
ų k		161	181	1170	1669	391	552	43	38
•	nichae & Cuerruns	3940	4837	736	741	1306	1713	w	72
• L	Recietored Earling	6653	7679	52331	64223	1910	3829	4145	4599
, 4	6. nerestatored Manufacturing	11988	13282	16131	18536	4773	5871	4995	5745
	7. Canadraction	6551	7169	21506	25358	39 89	3500	10372	\$066
• £	Electricity & Water supply	899	1341	3902	4953	360	793	3 96	1253
		4 085	5021	4112	4798	1080	1520	740	668
, 0	Communication	532	777	3124	4698	300	332	467	793
, , , ,	Transport by other means	1554	2095	9544	12353	\$9°	1276	2541	3527
12.	rade, storage, hotels & restaurants	13639	14587	43848	46561	2112	6164	10264	12060
4	13. Banking & Insurance	1760	2250	10729	13656	200	762	1445	1948
14.	. Real Estate & Ownership of Swellings		3696	8263	8967	1600	17071	13%	1535
i.		4506	5400	9644	12782	2762	2995	2447	2930
16.	16. Other services	10426	12149	15305	18152	6532	6985	4564	5113
• •	Total	178341	191067	307276	349538	92898	109033	111007	129882
1.								(corted	EL ()

Appendix Table 2A.1 (concd.)

	# C C C C C C C C C C C C C C C C C C C	Rajasthan	nem rates mix	Tan Tan 1	Redu 1060-70	Tuknar Pr	r Pradesh	1967-68	1969-70
		20/-09	2071		2000	72.	20	30	51
		44	62	2					400004
4	1. Agriculture	71295	64438	76021	86522	265193	261697	1132/9	122301
, e	The state of the s	613	134	809	617	5249	2665	675	969
* 4 t		101	200	2271	2106	488	460	4496	5078
Å .		4006	784	1002	1187	1035	909	4683	5884
*	Birth & Charly and	5 G	2002	a due	21414	10439	15192	33965	34401
ឃាំ	Registered Manufacturing	2002	\$000 ·	3			40000	42004	14241
φ	Unregistered Manufacturing	7065	6623	17397	19260	18440	10/02	14474	
		5178	5946	9132	11669	16572	19103	14986	17507
Q.	blestricity one & water supply	ST.	878	2333	2673	1535	2421	2549	2836
; c		N	2838	2447	2647	5884	6935	52%	6350
'n			576	1582	2486	1281	1469	1720	1562
2	commut cast on	}		1 2	5000	5003	KOE'Y	6077	7056
-	Transport by other means	1646	1372	512	27.60	19/0	r CRO	5	-
12.	Trade, storage, hotele & restaurants	13098	11915	30479	35886	32264	35707	35315	34498
13.	13. Banking & Insurance	1151	1449	3950	4927	3301	4254	5565	6532
14.	Real Estate & ownership of	2115	2272	4996	5450	7975	1848	7647	6955
ř.		3055	2805	5763	6763	9405	10574	7019	9385
, 4		6532	7512	20164	23318	21724	25557	12716	14878
•		110688	115442	201288	235957	406538	426195	269360	293700

Source: CNO, Ministry of Planning, Govt. of India.

Appendix Table 24.2

2505
48
1969-61
e years
7
झ
Prices
Current
43
SIL
mperaple
C
5
Estimates of Corperable SIF at Current Prices for the years 1960-61 & 1970-71

2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Pradesh	9	ani 1070 - 21	For A. A.	1070-71	
	1960-61	1970-71	200	5/2-11	9	7	4 1
Gertal Transfer	55722	138262	25021	58054	55010	124556	l
	757	1946	617	2109	90 <i>L</i>	2698	
2. Bisheru	972	2828	956	2123	935	2273	
	635	1456	356	2019	4480	10532	
Resistered Manufacturing	3178	10496	1467	3661	6892	11629	
in registered Manufacturing	5760	14381	1644	2548	3066	13064	
Cosetruction	5055	9826	2357	4716	9929	14780	
R. Water supply		2114	14	101	9	1335	,
	- Ann	4504	616	1168	4124	9838	
10. Committal ons	280	1551	201	378	295	1029	
11. Transport by other Means	2822	E ST	9	1186	1216	4602	
12. Trade, Storage, Hotels & Restaurante	13812	33291	3576	6344	6828	20619	
13. Banking & Insurance	756	3132	329	759	488	2094	
14. Real Datate & Ownership of Dwelling	2961	4871	450	1929	4005	3407	
14. Tubile Administration	3209	71.02	1258	3346	2702	6063	,
	6806	19250	2055	4401	7202	15419	

Appendix Table 2A.2 (contd.)

archeen.	Gularat	1000	1 Children	1970-71	1960-61 1970	1970-17
	3000	9	10	1.1	12	13
	30007	104723	15961	56390	39801	71333
a vericular	445	761	88	247	1608	4011
Forestry m	232	709	iv.	24.	293	1134
	140	2254	33	106	922	1496
4 - Maring of weathy and	10432	22014	898	5761	5091	11030
	6065	10722	2230	5758	3562	7833
6. Unregistered mandrature	4.964	11662	248	4500	3036	8179
Colsumnia to a Votor Sneedy	45.3	28	143	973	8	2558
	1967	3212	206	852	586	1223
9 Kellings a	264	1507	114	668	252	1055
Goldstatestate de opten moord	713	3513	10%	3196	1731	4411
11. Transport of Cauch Backs & Soutentents	10785	34410	2874	9125	9193	19380
Trende of Corporation of the Cor	1005	4416	156	816	774	2812
1). DEDKING & INCUIONIONIO OF Dwellings	2573	5195	443	123	2044	4098
Kodi da sa sa sa Sarah Baha an Irani ing bahan an ing bah	1512	4732	550	1692	1601	3951
13. Funite attained for on	5262	11022	1236	3493	4803	11274

Appendix Table 24.2 (contd.)

Sectors	6.1	11-016	1960-61	1970-71	1960-61 1970- 18 19	1970-71
	14	2	2			
	250.00	71067	157746	107093	64482	106764
	スキング	2	·/ · · · ·			1
	642	1856	3425	11255	1562	5255
. Forestry			40	191	503	1529
	4,7	グロログ	2	•		. 1
A POST OF A	257	126	1510	4900	369	746
niving & querry ing	9676	8103	2557	9444	24344	72425
5. Registered Hanuiscturing) t = 0	4 003	7482	13975	6627	20202
6. Unregistered Manufacturing) () () () () () () () () () (1 0 d	47.40	7.126	9201	27417
7. Construction	202	1407	1 10	1512	793	4600
8. Electricity, Cas & Water supply	613	- (. / 3	202	2624	4629
o. Railways	\$5°	20	7	- 1		400
	154	612	337	027	9711	000
ado to established to the state of the state	2000	7614	852	2177	3510	14250
	570K	16506	6010	15252	23610	52993
12. Trade, Storage, Hotels a restaurante	3 8	0000	583	2800	5184	23143
13. Benking & Insurance	3 5	2688	2324	3930	5337	9769
Real Batate & Ownership of	1078	3208		5560	3599	15057
15. Public Administration	3716	10249	-	12772	6602	19997

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Appendix Table 24.2 (contd.)

a Ton 190	1900-01		C1		-0200	12071 100
	30	27		23	24	25
		22022	01814	25079	29981	89588
	20000	2220	•			*
	200	3445	77	かべ	480	0.40 U.40
2. Forestry))			u	200	162
	92	621	2	40		•
Aranata •C	764	1203	N	69	455	1087
4. Mining & Querry ing	9		•	. 1		in a
	671	3829	1848	4586	100%	2266
y. Registered manufactures of the	0.000	500%	20103	6286	5148	7790
6. Unregistered Manufacturing	2003	2000	1			3047
	1747	3507	5179	11512	2224	01.0
	64	708	356	1163	\$ 84	922
8. Electricity, Cas & Water Supply	``)	*			7000
	552	がな	200	1831	1420	2012
a reliant of	a d	777	268	959	502	637
10. Communication	3		1	***		2007
Carba a sade of the same	319	1419	1456	4202		2
- Francisco of Contract Contracts	2129	6293	3901	13760	6281	15943
Š	158	765	483	2321	1 441	1738
		12.20	T. C.	1593	3 1196	2456
14. Real Estate & Ownership of Dwellings	7 +0	3				* * * *
to the part of the state of the	1029	3573	697	3186	CION	*
	4161	10615	2003	5436	9038	8432

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Appendix Teble 24.2 (concl.)

	gespronnen en de de de des des des des des des des de	Tentl Madu	74	Uttar Fre	Fradesh	1960-61	Bengal 19/0-71
	a rotal	•			29	30	31
				1	t dinamental distribution of the second seco	0 4 2 7	\$10y01
*		57697	107827	102272	12.25.20 20.25.20	46240	2020
-		717	098	で 祭みな	5861	506	909
ณ	Forestry	1. X	2036	127	533	2071	× 5613
	Figure	116	1344	159	799	2742	5623
4	the state of the s	0000	26463	5772	16458	18357	34653
'n,	5. Registered Manuischerung	7658	21797	10367	23190	* 666	14765
<u>.</u>	6. Unregistered Manatac var ale	4110	13281	7310	19937	13124	17879
•	7. Construction	1028	2732	849	2623	1378	2857
, a	134 04 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1241	29062	3514	7834	3403	6426
Š	Ralingy	545	2924	2000	1644	1580	1582
	TO. COGNUCIOSELONS	2110	7882	3078	7426	6411	8057
,		16833	42870	17367	38133	25213	35100
N I	Trade, o torage, no care of a	1511	5729	1042	4793	2311	7522
÷ ;	panking & inbufance		5116	4462	9013	5621	9571
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Rocal Parishes a United Birth		7566	4137	11473	3252	10060
5	15. Fublic Administration 16. Other Services	11298	25714	11938	27523	11723	15117
} -							

Source: see the text

Appendix Table 2A.3

Sectoral Price Indices for the Indian States for the year 1970-71 with 1960-61=100

Sectors	Andbra	担合のなど	DIOST.	Grant ret	a usa	ter s		Pradesh
	2	3	÷	ž.	. 9	7	ထ	31
	205.44	203.45	210.45	207.39	201.38	131.22	306.86	219.52
	177.63	19.24	248.89	182.06	205.81	135.00	157.54	163.99
	211.71	174.33	190.86	181.59	375.00	170.67	391.17	172.73
	121.27	29.11	156.42	104.03	217.59	150.72	140.66	155.30
4. garietered Manufacturing	-	15.66	169.44	186.92	140.85	95.88	113.64	156.62
	163.26	119.43	180.42	144.64	155.87	91.02	129.04	14%.50
7. Construction	166.18	114.51	175.43	164.72	212-43	91.82	140.63	162.15
3. Electricity, Gas & Water Supply	161.49	12.65	276.56	151.21	198.12	95.38	243.19	126.32
9. Relineys	136.82	100.00	174.72	126.86	200	114.93	128.54	200.000
10. Communication	185.71	85.71	174.37	185.75	204.51	150.21	122.001	7 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
1. Transport by Other Means	166.80	152.78	270.03	244.10	204.51	106.63	2000	1 (4.5)
12. Trade, Storage, Hotels & Restaurants	176.25	152.78	233.67	216.23	183.16	108.63	167.32	183.39
13. Banking & Insurance	205.11	100.00	173.28	205.21	214.32	47.001	**	10:147
14. Real Estate & Ownership of Caelling	190.93	213.79	173.86	160.66	203.54	128.90	248.25	151.23
15. Public Administration	142.93	142,92	137.63	169.26	152.03	107.67	142.92	131.43
	189.78	153.04	163.26	165.47	132.97	20°	157.57	176.00

Appendix Table 24.3 (confd.)

Sectors	Mahara-	011 388	Funjao	naja- ethen	Temil Hadu	Uttar Pradesh	Bengal
	0	<u>.</u>	12	5	14	12	10
	40.60	26.34	233.00	183.76	169.04	200.83	229.66
	190.76	151.37	208.97	113,10	166.54	177.68	127.74
	267.66	165.65	385.71	231.43	116.23	226.09	218.88
A. Barbara & Cuspredize	117.01	157.37	161.54	177.48	141.32	328.37	182.40
to designation of Manufacturing	160.88	176.56	162.07	209.89	162.19	157.63	140.64
6. Inreedstored Manufacturing	251.81	157.71	159.82	164.53	190.12	161.73	100.00
	226.90	173.70	177.01	172.79	191.84	226.99	50.65
8. Dectricity, 6ss & Water	202.14	389-44	137.36	272.42	114.57	157.63	140.64
Salvana Social asses		175.99	141.10	136.95	136.85	175.15	100.00
v saltago	185.80	176.42	141.10	184.95	185.53	157.52	100.00
11. Transport by Other Means	169.16	173.70	141.10	216.95	179.46	159.19	100.00
2. Trade, Storage, Hotels & seatenrants	204.69	194.14	246.76	151.80	197.01	159.19	124.37
13. Benking & Insurance	205-18	175.86	250.41	214.30	214.42	226.14	99.99
14. Real Estate & Ourersblp Dwellings	135.68	204.26	169.31	182.03	164.43	189.38	120.25
15. Public Administration	132.81	142.92	197.88	1.5.25 1.5.25 5.5.25	124.59	172.14	100.00

Source: See Foote-note 31 above.

Estimates of Comparable SDP at 1960-61 Prices for the year 1970-71 Appendix Table 24.4

(B.lakhe)

	Sectors	Andhra	Assem	Bibor	Cujarat	Heryene	Karna- take	Kerale	Medbya Pradesh
I		~	3	Ţ	J.	ć	7	Ð	6
		67300	26535	59167	50496	28002	54361	25159	48765
<u>.</u>	1911 Cut but o		300%	1004	418	120	2971	1173	6863
, i		1350	1218	121	000	Ø	664	159	
i.	Figure 9. One was fire	1201	2037	67.53	2167	5	1.144	90	3155
• ক ধ	vertered Expered the inc	6675	3679	6863	11777	4090	11504	7210	0609
, N 0		8800	2133	7684	7413	3694	8531	3102	9739
	TILDERO TO THE TOTAL TOT		5	8425	7000	2118	8908	3570	4765
* (Construction of the Construction Supply		5	46.5	1591	491	2668	484	1197
Ď (stepourter was care a contract	, K.	1168	5631	2347	417	1064	94	202
, s	S ADATTON	875	441	590	20	327	702	398	619
; ;	Commission of the Means	4267	776	1704	1439	1563	4 661	3673	1262
12		18889	4152	8824	15914	4 982	17840	8812	8317
5	Benking & Losurance	1527	159	1208	2152	361	2539	986	1161
14.	Real Estate & Ownership of	2551	905	1960	3234	512	3179	1083	2599
u		4970	2343	4405	2796	1244	3670	2245	4228
1 10	16. Other Services	10197	2876	9444	1999	1909	10319	65.04	64 93
					AND THE PLANE SHEET, MANIES FOR PRINCIPLE AND THE PARTY OF THE PARTY O		o en demandad de la composição de la com	CHI	. H

Appendix Table 2A.4 (concl.)

								4 - 344
	Sectors	Esbara-	Orivea	Punjab	Raja- sthan	Ten11 Nadu	Utter Fradesh	Rest Bengal
		01	1.1	12	13	14	15	16
		54524	32110	36478	48753	63788	127718	55176
• (1. AETICLICUE	1696	2622	145	751	516	3306	537
i i		571	375	14	70	1752	254	25.64
.	states & Chestricks	638	1158	43	612	55	243	3083
ф ф ы	4. Millis o Luce. Ling	45018	2169	2830	2631	16316	194	24640
i y	C. Transvistored Warmingoturing	8023	3800	3933	4735	11465	14339	14765
• •	City of the state	12083	2019	\$0.05 60.05	3574	6883	8783	17879
• ;	(. Collection of Noter Sholly		205	64.7	338	2385	1664	2031
Ď (883	770	2008	2125	4473	6426
.	A CHATTEST AND A	3111	210	089	453	1576	1044	1582
; <u>;</u>	10. Communication 11. Transport by other Means	8424	2118	3621	756	4393	4665	5057
ç,	Trade, Storage, Hotels & Restaurants	25889	3241	5576	10503	21760	23954	28222
5	Banking & Insurance	11279	435	927	5	2012	V	1
14.	neal Estate & Ownership of Dwellings	7189	897	176	1350	3111	4759	5887 7039
15. 6	15. Public Administration 16. Other Services	11331 94.75	2500 5618	2772	4333	14218	4	15117
•			****	The state of the s	PROPERTY OF THE PROPERTY OF TH	A SERVICE OF THE PROPERTY OF T	end who designed the Control to the Control	

Source : Appendix fables 24.2 & 24.5 above.