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ESTIMATES OF EXTERNAL TRADE FLOWS
OF KERALA 1975-76 AND 1980-81

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Introduction

Kerala is a region that is deeply integrated with the Indian and world economy through various ways such as commodity flows, financial movements, labour migration and operations of national and international companies. However, studies on Kerala's economy in the post Independence period, have by and large, tended to treat its economic performance as an autonomous process. Recently, there have been a spate of studies on labour migration from Kerala to the West Asian countries, the consequent inflow of resources and the pattern of utilisation of remittances. Similarly, the budgetary transfers of financial resources have also been receiving much attention. The commodity flows to and from the state, on the other hand, have so far received no systematic consideration.

One major reason for the failure to incorporate the trade flows into the regional analysis has been the virtual nonavailability of the relevant data. No regional trade accounts are being maintained. Even with respect to international trade accurate region wise data are not available. To draw up a comprehensive regional trade account, it is necessary to collate the cross-border commodity movements through various modes of transport. The first attempt to prepare such a trade account was made by the Planning Board in its Inter-State Goods Traffic and Balance of Trade of Kerala - A Preliminary Study, for the year 1974-75.¹ This pioneering exercise suffers from certain limitations. The classification of the commodities traded is

rather haphazard and detracts much from the value of the exercise. Secondly, the reference year for the road data is 1975-76 while for the other modes it refers to the previous year. It is also not clear how the unit values of various commodities used for the conversion of rail tonnage into money values were arrived at. Some of the choices, at least, seem to be arbitrary.

In the present paper we present out detailed estimates of the external trade flows of Kerala. The years we have chosen are 1975-76 and 1980-81. (Section II) The choice of the years, it may be noted, was determined by the availability of the relevant data. A detailed discussion of the sources of data, their limitations, the methodology and the classification scheme that we have adopted is also presented. (Section I)

The pattern of regional exports and imports are discussed in Section III and IV respectively. However, it may be noted at the outset itself, that no attempt is made in the present paper to analyse the substantive issues that arise from the discussion of the external trade of the region such as its interrelationship with regional production structure, implications of terms of trade and balance of trade for the regional economic development and so on. We shall take them up later.

Section 1

Sources of Data and Methodology

The trade of Kerala with other states in India and foreign countries may be classified under the following heads:

1. Rail borne trade
2. Road borne trade
3. Coastal shipping trade
4. Foreign shipping trade
5. Air borne trade
6. Non vehicular borne trade

Of these, our estimates are derived by aggregating the commodity traffic through three chief modes of transport viz. railways, roadways and shipping. The air borne trade has been increasing in recent years but was insignificant in 1975-76 and 1980-81. We have also made no attempt to include the trade conducted outside the normal vehicular traffic. But these could be of significant amount as in the case of import of cattle for slaughter into Kerala and the export and import of electricity. We have also been forced, as noted earlier, to restrain ourselves to the two years of 1975-76 and 1980-81 due to non availability of data on road freight movement.

Roadways

The data on the interstate movement of goods by road to and from Kerala is taken from the two surveys conducted by the Government of Kerala in 1975-76 and 1980-81.² These surveys were conducted on a census basis by investigators stationed at the border sales tax check posts. The data required were,

reportedly, "mostly extracted from the declaration forms furnished by the vehicle owners".

The following limitations of the data thus collected may be noted:

1. Out of a total of 23 checkpoints in the state only 12 important checkpoints have been covered in the surveys. However, it is also seen that these checkpoints accounted for 85 per cent of the total vehicular traffic and 88 per cent of the lorry traffic across the border. We have made no attempt to estimate the goods traffic through the other checkpoints.
2. There is yet another more important factor that has contributed to the underestimation of the interstate goods traffic by road. The relevant data, as has been noted is collected from the sales tax declarations submitted by the vehicle drivers. It is a well known fact that there is considerable sale tax evasion at the check posts. But the physical presence of the investigators at the checkpoints seems to have acted as a check on under reporting. This is evident from the significant increase in the value of commodities assessed for salestax in the years of the survey at the checkpoints.³
3. The reference period for the surveys was neither calendar nor financial years. In 1975-76, the reference period was from 12.5.1975 to 12.5.1976. In 1980-81 the reference period was for 17.11.1980 to

17.11.1981.

4. The classification of the commodities was not done in any systematic manner. Certain commodities were given as 'copper and copper products', 'zinc and zinc products' etc. Further items such as 'parcel', 'others', 'grocery', 'general goods', and 'provisions' constituted a very significant proportion of the goods traffic.*
5. The survey reports gave the goods traffic in terms of value. The quantity in tonnes was not available for most of the commodities. In certain cases the values and quantities reported did not tally as is evident from the anomalous unit values derived from them. There was no way that one could rationally choose between the two. We have chosen to consistently accept the rupee values of the commodities.

In this connection, it may also be noted that there are certain discrepancies between the road traffic figures in our study and the summary tables that are given in the official reports.^o We have used the disaggregated data for each of the twelve check posts and then independently added them up to arrive at the total goods traffic by road.

Shipping

The basic source of the interstate and foreign shipment trade statistics is the publications of Directorate Commercial Intelligence and Statics, Calcutta. The statistics of Inland Coasting and Trade Consignment of India 1975-76 gives the inter

state coastal shipping trade of the maritime block of Kerala. Statistics of Foreign and Coastal Cargo Movements of India 1975-76 gives the foreign export and import trade of the various ports of Kerala.⁶

However, it was found that export and import of petroleum products were excluded in the above port wise foreign trade statistics and with respect to the coastal trade there was significant under estimation.⁷ It was confirmed by the statistics provided by both the Cochin Port Trust (CPT) as well as Cochin Oil Refinery. After much deliberation it was decided to correct the DCIS export and import data for petroleum and petroleum products on the basis of information collected from CPT.

The shipment data for 1980-81 proved to be more difficult as the DCIS had discontinued their publication Statistics of Foreign and Coastal Cargo Movement of India. Further, Statistics of Inland Coastal Trade Consignment of India for the year 1980-81 had not yet been published at the time the estimates were made. After careful examination of the alternative sources it was decided to use the export and import figures (both foreign as well as coastal) collected by the Cochin Chamber of Commerce from the export and import manifests and published in their Annual Report.⁸ A limitation of this data is that the reference period is for June-July rather than the financial year.

The shipments of petroleum and petroleum products being classified information they have been omitted from the above



publication also. Therefore the data on shipment of petroleum and petroleum products collected from the CPT was added to the import-export data from Cochin Chamber of Commerce.

Railways

Account Relating the Inland (Rail-River Borne) Trade published annually by the Department of Commercial Intelligence is the only published source of information on interstate rail borne traffic in India. It contains aggregated information on the quantity of rail goods traffic between various Trade Blocks in India. Fortunately the geographical boundaries of the state coincide with the relevant Trade Block in the case of Kerala. But the usefulness of the publication is considerably reduced for our purpose as only around 64 commodities - mostly primary commodities - are covered.

Therefore we have relied on the primary data on the interstate trade flows of Kerala for the years 1975-76 and 1980-81 made available by the Economic Data Processing Centre of the Southern Railways. It is based on the invoices issued by different railway stations and provides point to point information on the commodity traffic. This information on commodity flows is available on magnetic tapes in coded form. Around 550 commodities are coded with three digit codes and each railway point from where freight is loaded or at where freight is unloaded is identified with five digit code. Therefore it is possible to identify the originating and terminating traffic from the railway stations, out agencies, sidings or booking offices in Kerala and arrive at the interstate commodity traffic by

excluding the traffic between the railway points within Kerala.

Prices

One major hurdle in using the rail borne goods traffic data was that they were available only in terms of quantity (metric tonnes). The major source of wholesale prices is the Revised Index of wholesale prices in India which provides not only the weekly indices of wholesale prices for more than 360 commodities as well as their sub groups and divisions but also weekly quotations of wholesale prices of these commodities at important centres. These price quotations, however, could not be used directly to arrive at the value of railway goods traffic. Firstly, the wholesale prices quoted often vary within a wide range and need not refer to the quality composition of goods moved to and from Kerala. Secondly, for many commodities, especially consumer items, the unit price quotations are in terms of numbers or by brand names (e.g. fans, refrigerator, cars etc.) while the rail borne goods data are always in metric tonnes.

Therefore we decided to use the unit values of inward and outward moving goods derived from the road traffic survey for 1975-76 and 1980-81 as the basic source of prices of commodities transported by rail. Unless there was reason to believe that there is a systematic difference in prices of exports and imports of a commodity, the average of the export and import unit values was taken as the price. If either of the two were negligible or unreliable, it was dropped and the unit values of the other alone is considered.

The next step was to check the consistency of the two estimates of unit value of road traffic. If the unit value for 1975-76 and 1980-81 tallied after allowing for the inflation derived from index of wholesale prices of India, they were accepted. If not, then the problem was to decide which set of road unit values should be adopted. This was done by checking them with the wholesale price quotations of the commodity. The one that lay within the range of wholesale prices was accepted.

If none lay within the range of wholesale prices then the figures were carefully scrutinised and edited if necessary. This was done in the following way. The data for each of the eleven check posts was available. If the unit value estimate of any of the check posts was found to be anomalously too high or low they were eliminated and a new average of unit values of traffic through the rest of the checkpoints was derived. If the problem still could not be resolved either because no road unit values were available or because even the corrected unit values did not tally with the wholesale prices then the next step was to adopt the coastal shipping unit value after examining if the latter tallied with the wholesale prices. If still unresolved, then the only way was to estimate the prices independently.

In most such cases we adopted the wholesale price for the concerned commodity for Kerala (if the price quote was available) or the simple average for wholesale prices at various centres, preferably, the simple average wholesale prices within the hinterland (e.g. Tamil Nadu for gur and khandassari).

For commodities like metal wares and metal scrap for which neither road unit values nor price quotes were available, the prices were estimated from the prices of basic raw material by using ratios derived from Annual Survey of Industries or from field enquiries. In the case of minor commodities or 'others' in a product group for which neither independent road unit values nor price quote were available, the average of the rest of the individual products in the group was adopted. For 'Parcel' and 'miscellaneous' items the average of the unit values of the rest of the commodities was employed.

Our estimate of prices of 239 commodities which were used for estimating the value of railway commodity movements is given in Appendix C. Of the 239 commodities, 60 commodity prices were based 1975-76 road traffic survey and 41 on the 1980-81 road traffic survey. For 19 commodities both the surveys had to be taken into consideration. The prices of 9 commodities were adopted from the coastal shipping unit values. For 39 commodities wholesale price quotes were adopted. For 17 commodities the prices were estimated from the raw material prices. Only in 54 cases the prices were estimated from trade sources or from prices of similar products or merely by averaging the prices of other items in the respective product group.

Classification

After estimating the values of goods transported through various modes the next major problem was to select an appropriate common classification scheme for meaningful aggregation of the goods traffic by the various modes of transport. The shipment

data for 1975-76 was available according to Standard International Trade Classification Scheme. But the data for 1980-81, collated by Cochin Chamber of Commerce, did not follow any particular classification scheme. The railways followed a classification scheme of nearly 550 commodity codes based on the revenue earning capacity of the goods. The scheme had little analytical utility other than for the accounting purposes of the railways. The road data, as we have already noted, was the most haphazard and required considerable editing before they could be made to correspond rail or shipment data. It involved splitting up certain commodity groups as well as combining certain others. Items such as the various 'metal and metal products groups' (e.g. 'copper and copper products') or 'coir and coir products' had to be broken into meaningful components such as 'raw metal', 'metal ware' and 'metal serap' or 'coir fibre', 'coir yarn' and 'other coir products' by using relevant ratios derived from the composition of the rail traffic. Iron and Steel in all forms was considered as a single commodity. Items which could not be suitably reclassified was added to 'others' or 'other manufactured goods'.

We have followed an independent classification scheme taking into account the specificities of regional trade. A table of correspondence between commodity traffic of the various modes of transport were drawn up on the basis of a scheme of 262 commodities/groups of commodities.

Section II

Estimates of Trade Account for 1975-76 and 1980-81

Our estimates of the external trade flows of Kerala classified into 262 commodity groups for the years 1975-76 and 1980-81 are given as Appendices A and B.

These 262 commodities/groups of commodities may be divided into three broad divisions viz. primary raw materials, processed intermediate goods and final consumption goods. The primary raw materials are the unprocessed raw material products of the earth (minerals and crude petroleum), agriculture (raw nuts, rubber, fibre, oil seeds, tobacco and other agricultural raw materials) forest and animals. The major processed intermediate products are the various textile yarns, metals, mineral oils, chemicals, fertilisers, clay products (cement) and machinery and equipment. The final consumption goods may be primary unprocessed consumption goods like foodgrains, spices, vegetables etc. or processed primary products like tea and coffee, cashew kernels, marine products, edible oils and sugar or manufactured consumables like rubber products, paper products, textiles, tobacco products, consumer durables etc. Thus the 3 broad divisions may be subdivided into 34 subdivisions. The commodities that cannot be classified are included in 'others'. Estimate of the value of 'parcels' is also maintained separately.

The trade flows of Kerala summarised in 36 commodity subdivisional scheme of classification is presented in Tables 1 to 4. Tables 1 and 2 presents the trade flows by mode of

transport. Table 3 and 4 compares the international and interstate trade patterns.

Table 1
Summary of Regional Trade Account of Kerala by Mode of Transport 1975-76 (Rs. lakhs)

Sl.no.	Name	Rs					Rs					I Share %	I Share %
		Rail	Road	For. Ship	Coastal Ship	Total	Rail	Road	For. Ship	Coastal Ship	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Mineral ore	73	72	398	125	658	123	67	114	18	322	0.004543	0.002628
2	Crude petroleum	1	8	16854	0	16855	0	0	0	0	0	0.116395	0
3	Nuts	783	321	3011	0	4635	161	2846	0	0	3007	0.027864	0.024548
4	Rubber	22	228	0	30	280	1757	5489	2	417	7665	0.001908	0.062575
5	Fibres	456	2494	137	7	3054	23	478	192	0	693	0.021366	0.005657
6	Oil seeds	383	561	0	71	935	2013	3302	3	201	5599	0.006456	0.045789
7	Tobacco	280	316	0	0	1104	36	238	0	0	266	0.007623	0.002171
8	Other Agri. raw materials	143	40	0	10	193	9	36	138	1	184	0.001332	0.001582
9	Forest produce	188	267	0	3	378	519	1820	778	101	2410	0.002535	0.019740
10	Bovines	226	53	0	0	277	22	326	2	0	350	0.001926	0.002057
11	Textile yarn	14	819	0	0	833	1046	3459	1836	0	6341	0.005752	0.051766
12	Other agr. products	1975	3139	13	11	5138	1786	2610	378	194	4968	0.033481	0.040557
13	Metals	4788	1786	349	2	6845	1719	1693	166	04	3662	0.047269	0.029895
14	Mineral oils	495	434	0	794	1723	9394	702	100	6862	16258	0.011090	0.132727
15	Chemicals	259	1648	639	112	2658	122	1710	140	0	1908	0.018300	0.016229
16	Fertilisers	2477	137	3697	40	6351	5210	454	40	0	5712	0.043050	0.046631
17	Clay products (incl. Cement)	1698	944	0	1	2635	192	359	0	41	592	0.018196	0.004832
18	Machinery & equipment	621	2240	1129	0	3990	1929	742	515	21	3207	0.027553	0.026181
19	Metal wares	122	723	0	2	855	137	904	54	57	1152	0.005904	0.009404
20	Food grains	20975	1266	8991	73	31285	763	108	74	79	1024	0.215492	0.000359
21	Spices	71	2286	0	3	2360	177	3572	4004	0	7753	0.015744	0.063293
22	Other primary goods	152	3145	1	30	3328	152	1176	300	17	1653	0.022982	0.013494
23	Marine products	0	1156	0	1	1157	0	43	6654	2	6699	0.007989	0.054689
24	Tea & Coffee	36	3072	0	4	3912	146	2175	6007	0	8400	0.027015	0.068641
25	Cashew	0	1771	0	0	1771	0	645	9166	0	9811	0.012229	0.000895
26	Edible Oil	120	1051	62	14	1247	1240	2105	0	0	3353	0.000411	0.027373
27	Sugar	3509	4941	0	10	8540	126	107	0	0	313	0.059827	0.002555
28	Rubber products	212	1158	6	0	1376	812	1924	60	0	2796	0.009502	0.022025
29	Paper products	025	245	330	10	1410	352	411	24	0	707	0.007732	0.006424
30	Textiles	399	4500	3	0	4910	730	2019	1990	0	5539	0.033906	0.045219
31	Tobacco products	21	2703	0	0	2724	9	405	0	0	414	0.010611	0.003379
32	Consumer durables	417	1734	57	4	2212	440	702	150	14	1406	0.015275	0.011470
33	Other consumer products	189	3104	26	0	3319	339	1500	292	0	2219	0.022928	0.018115
34	Misc. Manufactures	200	1105	15	1	1329	63	2011	142	0	2219	0.039177	0.018115
35	Parcel	0	13010	0	0	13010	0	2309	0	0	2309	0.009843	0.019503
36	Others	1522	709	0	0	2231	1130	173	0	0	1325	0.015406	0.019817
37	Primary raw materials	4304	0010	20413	255	33782	0295	19063	2643	1012	31013	0.233220	0.259714
38	Processed Intermediate good	10452	7324	5022	951	25845	10703	6572	1031	0.5	32571	0.172900	0.265983
39	Final Consumption goods	27114	33765	9499	150	70734	5377	19951	20951	1.5	54394	0.408481	0.444061
40	Others	1522	13719	0	0	15241	1130	2562	0	14	3714	0.105249	0.030328
41	Total	43392	64310	35734	1364	144800	33513	48940	22025	7406	122492	1	1

Table 2
Summary of Regional Trade Account of Kerala 1988-81 (Rs. lakhs)

Sl. No	Name	Rs					Rs					% Share R	% Share X
		Rail	Road	For. Ship	Coastal Ship	Total	Rail	Road	For. Ship	Coastal Ship	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Mineral ores	258.75	422.55	0	61.93	735.23	99.24	381.41	536.94	0.13	1017.72	0.002136	0.003686
2	Crude petroleum	0	0	51644.44	11898.67	62735.11	0	0	0	0	0	0.182277	0
3	Rats	1068.56	639.82	1382.51	0	3077.89	86.83	2849.25	68.89	0	2996.97	0.008795	0.011444
4	Rubber	12.9	0	118.83	0	123.43	1585.63	14691.82	8.23	0	16285.68	0.008358	0.061882
5	Fibres	685.76	3786.27	2819.74	2.13	7215.92	8.87	1588.73	556.92	0	2146.52	0.020968	0.088196
6	Oil seeds	591.43	977.12	0	9.12	1577.67	3544.91	5861.94	0	0.33	8486.88	0.004583	0.032182
7	Tobacco	268.91	3884.52	0	0	3345.43	14.87	177	1867.41	0	1258.38	0.009728	0.004885
8	Other Agri.materials	60.80	388.57	0	0	449.39	5.87	26.31	0	0	31.38	0.001383	0.000119
9	Forest produce	168.88	685.3	0	0	773.36	843.29	2995.95	534.1	24.64	4481.98	0.002247	0.016889
10	Beverages	85.86	18.6	1.76	0	98.22	24.23	486.14	12.12	0	442.49	0.000285	0.001689
11	Textile yarn	15.2	2689.87	66.57	0.69	2776.33	2349.3	6941.45	1198.85	0	19488.8	0.008686	0.048821
12	Other agri.products	971.73	3769.18	313.85	0	5854.76	2456.69	2148.9	972.6	8.31	5577.4	0.014886	0.021297
13	Metals	9033.88	7137.84	1999.89	0	17798	1422.82	3886	0	11.88	5119.9	0.051687	0.019538
14	Mineral oils	1148.85	719.84	1483.8	1478.88	5885.33	32892.88	3882.33	1298.2	14921.83	42558.52	0.019775	0.162586
15	Chemicals	441.74	2788.86	3376.42	0	6527.82	183.88	8878.81	88.79	0.12	6213.28	0.019993	0.023787
16	Fertilizers	2898.24	481.84	3921.72	0	6813	3279.88	2288.81	23.82	1.54	7884.63	0.017478	0.026762
17	Clay products	2768.88	7327.73	846.2	3.85	18948.77	254.85	984.57	0	23.86	1884.8	0.001818	0.004524
18	Machinery/equipment	681.46	3878.2	1888.72	0.75	6171.15	598.82	2495.89	1239.12	53.17	4384	0.017938	0.016748
19	Metal wares	84.86	1765.93	0	1.44	1852.33	169.92	7943.8	0	5.87	8322.59	0.005361	0.031788
20	Food grains	31571.48	13842.87	48.37	0.37	45483.31	898.38	1847.97	0	73.92	2318.29	0.132152	0.008852
21	Spices	14.18	2334.83	0	0.3	2349.82	78.83	8878.82	8882.47	0	18237.12	0.008825	0.039871
22	Other primary goods	138.85	8218.33	734.31	0.99	9844.7	184.82	2382.38	676.62	18.55	3283.87	0.028393	0.012234
23	Marine products	0	3113.94	0	1.87	3117.81	0	118.88	18488.81	0	19577.97	0.009888	0.049183
24	Tea & Coffee	42.2	8788.91	0	0	8883.11	184.44	8884	13882.85	0.14	18898.63	0.025877	0.078998
25	Cashew	0	4228.66	0	0	4228.66	0	1788.84	13221.8	0	15018.69	0.012364	0.057318
26	Edible Oil	143.85	1983.73	279.88	0	3692.29	1331	8882.7	26	7.1	9367	0.018727	0.035788
27	Sugar	472.61	11449.72	0	1.41	11923.74	142.77	248.86	0	21.54	412.37	0.034844	0.001574
28	Rubber products	139.22	4842.84	14.59	0	4996.65	1185.79	8989.89	183.83	0	8198.71	0.012191	0.031387

1	2	3	4	5	6	7	8	9	10	11	12	13	14
29	Paper products	1325.98	1139.84	1868.54	0	4387.34	393.8	2269.29	9.58	2.65	2675.32	0.012587	0.018215
30	Textiles	157	5628.88	8.12	0	5787	668.51	3467.76	4949.63	8.11	9885.81	0.016814	0.034695
31	Tobacco products	4.17	4814.72	0	0	4818.89	21.31	487.14	0	3.81	518.46	0.014881	0.001949
32	Consumer durables	3856.68	5417.32	74.8	0.68	8684.58	3569.99	2231.16	549.45	41.19	6391.8	0.025888	0.024487
33	Other consumer products	376.3	7473.53	12.62	0	9865.47	147.99	4854.87	67.55	3.98	5873.59	0.028664	0.019458
34	Misc. Manufactures	261.48	3884.64	38.38	0	3881.37	176.15	3458.37	436.86	16.65	4888.33	0.009592	0.016829
35	Parcel	0	58383.71	0	0	58383.71	0	15432.76	0	0	15432.76	0.146333	0.051294
36	Others	1165.88	28638.41	76.89	7.76	21887.14	2862.34	11664.12	294.5	53.85	14878.82	0.043595	0.053746
37	Primary raw materials	4113.82	16293	56337.4	11164.54	87989.96	18737.13	37286.9	4939.16	33.11	58566.3	0.255425	0.282256
38	Intermediate goods	16195.13	23878.89	12829.88	1582.6	94397.17	38728.79	27188.31	2475.82	15816.19	75567.72	0.158851	0.287852
39	Total consumption goods	39249.6	67429.62	3869.3	26.82	129585.1	8778.38	49284.13	4731.86	179.24	185493.6	0.376598	0.484849
40	Others	1165.88	71868.12	76.89	7.76	72258.85	3862.54	28476.88	294.5	53.85	27587.78	0.289725	0.185841
41	Total	68533.63	198592.8	72314.94	13781.72	344143.1	52248.34	138746.8	55285.35	15284.39	261535.4	1.088888	1.088888

Table 3

Composition of Inter Regional and International Trade 1973-76 (Rs. lakhs)

Sl.No	Name	Inter-state				Foreign			
		Import	%	Export	%	Import	%	Export	%
1	2	3	4	5	6	7	8	9	10
1	Mineral ores	268	0.25	296	2.22	348	1.29	114	0.35
2	Crude petroleum	1	0.00	0	0.00	16524	47.17	0	0.00
3	Nuts	1824	0.94	3097	3.32	3211	0.43	0	0.00
4	Rubber	250	0.26	7653	8.35	9	0.02	2	0.01
5	Fibres	2957	2.71	501	0.56	137	0.39	172	0.59
6	Oil seeds	935	0.86	9593	10.33	0	0.00	3	0.01
7	Tobacco	1184	1.01	266	2.88	0	0.00	0	0.00
8	Other Agri. raw materials	173	0.18	46	0.05	0	0.00	138	0.42
9	Forest produce	378	0.34	1648	1.82	2	0.00	778	2.36
10	Bovines	275	0.26	349	0.39	0	0.00	2	0.01
11	Textile yarn	833	0.76	3700	3.90	0	0.00	1036	3.18
12	Other agr. products	5125	4.70	4678	5.11	13	0.04	370	1.16
13	Metals	6476	5.96	3476	3.89	749	0.23	166	0.51
14	Mineral oils	1723	1.58	16158	17.98	0	0.00	132	0.31
15	Chemicals	2011	1.84	1848	2.00	639	1.77	143	0.45
16	Fertilisers	2654	2.43	5664	6.30	3697	10.35	46	0.15
17	Clay products (incl. Cement)	2635	2.42	592	0.65	0	0.00	0	0.00
18	Machinery & equipment	2861	2.62	2692	2.90	1134	3.16	213	1.58
19	Metal wares	847	0.78	1899	2.02	0	0.00	54	0.17
20	Food grains	12214	20.37	950	1.06	3971	25.16	74	0.23
21	Spices	2280	2.09	3749	4.17	0	0.00	404	12.27
22	Other primary goods	3327	3.05	1346	1.50	1	0.00	328	0.94
23	Machine products	1167	1.06	45	0.05	0	0.00	664	20.40
24	Tea & Coffee	3912	3.59	2571	2.58	0	0.00	6097	19.66
25	Cashew	1771	1.62	645	0.72	0	0.00	3166	20.18
26	Edible Oil	1165	1.09	3353	3.73	0	0.00	0	0.00
27	Sugar	8548	7.84	313	0.35	0	0.00	0	0.00
28	Rubber products	1370	1.26	2730	3.04	6	0.02	68	0.16
29	Paper products	1098	0.99	760	0.85	336	0.95	24	0.07
30	Textiles	4987	4.58	3549	3.95	3	0.01	1970	6.18
31	Tobacco products	2724	2.50	974	0.46	0	0.00	0	0.00
32	Consumer durables	2155	1.99	1336	1.48	57	0.16	158	0.46
33	Other consumer products	3273	3.02	1727	1.94	26	0.07	292	0.92
34	Misc. Manufactures	1314	1.20	2877	3.11	15	0.04	142	0.44
35	Parcel	15618	11.93	2367	2.66	0	0.00	0	0.00
36	Others	2231	2.03	1333	1.47	0	0.00	0	0.00
37	Primary raw materials	13367	12.26	29178	32.46	20413	57.12	2643	8.18
38	Processed intermediate goods	17227	17.63	31548	35.10	5822	16.29	1031	3.16
39	Final consumption goods	61237	56.14	25443	28.31	9459	26.58	28951	88.74
40	Others	15241	13.97	3714	4.13	0	0.00	0	0.00
41	Total	187874	100.00	97667	100.00	35734	100.00	32625	100.00

Table 4

Composition of Inter-Regional and International Trade : A Comparison 1938-31 (Rs.lakhs)

Sl.No	Name	Inter-state				Foreign			
		Import	%	Export	%	Import	%	Export	%
1	2	3	4	5	6	7	8	9	10
1	Mineral ores	755	3.27	481	3.23	0	0.00	537	3.97
2	Crude petroleum	11891	4.88	0	0.00	51644	71.42	0	0.00
3	Nuts	1645	0.61	2936	1.42	1333	1.91	61	0.11
4	Rubber	15	0.00	16197	7.85	111	0.15	0	0.01
5	Fibres	4594	1.62	1598	0.77	2828	3.98	557	1.31
6	Oil seeds	1878	0.58	8487	4.87	0	0.00	0	0.00
7	Tobacco	5545	1.23	191	0.09	0	0.00	1867	1.93
8	Other Agri. raw materials	447	0.17	31	0.02	0	0.00	0	0.00
9	Forest produce	773	0.28	3868	1.87	0	0.00	534	0.77
10	Bovines	96	0.04	438	0.21	2	0.00	12	0.02
11	Fertile yarn	2718	1.08	9291	4.58	67	0.09	1198	2.16
12	Other agr.products	4741	1.74	4685	2.23	314	0.43	975	1.76
13	Metals	15191	5.96	5128	2.48	1599	2.21	0	0.00
14	Mineral Oils	3622	1.35	41466	28.18	1444	2.02	1858	1.97
15	Chemicals	3281	1.18	6128	2.97	3336	4.61	87	0.16
16	Fertilisers	2892	0.77	7561	3.66	3921	5.42	34	0.04
17	Clay products (incl.Cement)	18188	3.72	1135	0.57	848	1.17	0	0.00
18	Machinery/equipment	4518	1.66	3145	1.52	1661	2.38	1239	2.24
19	Metal wares	1852	0.68	8323	4.83	0	0.00	0	0.00
20	Food grains	45435	16.71	2328	1.12	49	0.07	0	0.00
21	Spices	2349	0.86	6175	2.99	2	0.00	4862	7.56
22	Other primary goods	8358	3.07	2527	1.22	735	1.02	677	1.23
23	Marine products	3118	1.15	112	0.05	0	0.00	18496	18.85
24	Tea & Coffee	8883	3.24	5589	2.71	0	0.00	15802	23.53
25	Cashew	4226	1.55	1789	0.87	0	0.00	15222	23.95
26	Edible Oil	3413	1.26	9341	4.53	279	0.37	26	0.05
27	Sugar	11934	4.39	412	0.28	0	0.00	0	0.00
28	Rubber products	4181	1.54	6895	3.92	15	0.02	184	0.19
29	Paper products	2464	0.91	2666	1.29	1669	2.58	18	0.02
30	Textiles	5786	2.13	4136	2.08	1	0.00	4958	3.97
31	Tobacco products	4819	1.77	518	0.25	0	0.00	0	0.00
32	Consumer durables	8538	3.14	5842	2.83	75	0.10	547	1.08
33	Other consumer products	9853	3.62	5886	2.43	13	0.02	88	0.16
34	Misc.Manufactures	3286	1.28	3643	1.77	35	0.05	437	0.79
35	Parcel	58364	18.53	13455	6.51	0	0.00	0	0.00
36	Others	21818	8.02	13781	6.68	77	0.11	295	0.53
37	Primary raw materials	31571	11.61	48827	23.26	56379	77.91	4939	3.95
38	Processed Intermediat goods	41568	15.29	72928	35.35	12829	17.74	2448	4.42
39	Final consumption goods	126516	46.54	58162	28.19	3869	4.24	47532	96.18
40	Others	72174	26.55	27283	13.19	77	0.11	295	0.53
41	Total	271825	100.00	286338	100.00	72515	100.00	55285	100.00

Mode Mix of Transport

Almost the entire international trade takes place through shipping. The airborne traffic is negligible. As for the interstate traffic, the roadways constitute the chief means of transport. Its share in the value of interstate goods traffic rises from 56 per cent in 1975-76 to 71 per cent in 1980-81. The share of roadways in the interstate trade of Kerala is around twice as high as national freight traffic average pointing to the relative neglect of railways in the transport mode mix of the state.*

Certain mode specification of commodity transport also can be discerned: Relatively higher valued commodities tend to be transported by road. While the average value of commodities transported through roadways is Rs. 5954 per tonne in 1980-81 the average values per tonne of rail and coastal freight are R.2706 and Rs.1962 respectively. Almost the entire manufactured consumer products are transported by road. Railways claim the bulk of foodgrains, fertiliser and cement traffic. But between 1975-76 and 1980-81 it is seen that the share of roadways even in the transport of bulk of raw materials like rubber, fibres etc. or intermediate products like cement, metals, etc. that are ideal for rail transportation has tended to rise. Only in mineral oils the share of roadways remain low. The entire crude oil and 40 per cent of the refined mineral oils are moved by the coastal shipping.

International and Interstate Trade

More important than the changes that have occurred in the mode of transport between 1975-76 and 1980-81 has been the change in the relative importance of international and interstate trade of Kerala. Kerala is well known for its foreign trade orientation. However, since independence the relative importance of foreign trade has tended to decline. The share of foreign exports and imports constituted only 21 per cent each of the region's total exports and imports for the year 1980-81. In 1975-76 their share was higher at 27 per cent in the case of imports and 25 per cent in the case of exports. But it may be noted that Kerala is still distinguished by relatively higher incidence of foreign exports compared to the rest of the country. Kerala's share in the national exports was 8.9 per cent in 1975-76 and 7.70 per cent in 1980-81. As a proportion of the GDP the foreign exports came to 15.83 per cent in 1975-76 and 14.77 per cent in 1980-81. For the country as a whole the ratio of exports to GNP was only around 5.5 per cent for the above years.

However, it may be noted at the outset itself, that there are both conceptual as well as empirical problems connected with the notion of international trade of an intranational region. The pattern and volume of the foreign trade flows originating and ending within the boundaries of the region are strongly influenced by the nature of national integration and national/foreign trade policies. It is particularly true of imports of a country that follows the import substitution strategy of development. In such a situation analytical usefulness of distinguishing between foreign imports and interstate imports is

limited. Nor is it very useful to contrast Kerala's foreign exports with the foreign imports. The foreign export-import trade of a region is a part of the national foreign trade. Further, it is difficult to identify such trade flows as due to cross traffic to and from other regions. The hinterlands of the ports may extend beyond the regional boundaries. For the purpose of the present study we have assumed the exports and imports through the ports of Kerala to be a proxy for the international trade of the region. In 1975-76 Kerala was the destination for 98 per cent of the tonnage of imports and place of origin of nearly 80 per cent of the tonnage of exports through the port of Cochin.¹⁰

Balance of Trade

The exports exceed the imports in the international trade while the imports exceed the exports in the inter-state trade. Overall, the imports are higher than the exports. Rs.1224 crores and Rs. 2615 crores worth commodities were exported from Kerala during the years 1975-76 and 1980-81. The total imports in those years amounted to Rs. 1448 crores and Rs.3441 crores. Thus in both years Kerala had a sizeable trade deficit. As the imports tended to grow faster than the exports, we find that the trade deficit of the region rose from Rs.223 crores to Rs.322 crores during the period under discussion. The domestic product of the region at factor cost was Rs.2228.24 crores in 1975-76 and Rs.3505.36 crores in 1980-81. The trade deficits have sharply increased relatively to the increase of domestic production within the state. The ratio was 10 per cent in 1975-76 and 23 per cent in 1980-81.

For reasons that we shall discuss later, it may not be meaningful to consider movement of refined mineral oil as exports from Kerala or that of crude petroleum as imports into Kerala. We feel that a more realistic approach would be to ignore the imports of crude petroleum and exports of processed mineral oils and to consider the actual consumption of the mineral oils in Kerala to be its net import. It is on this assumption that the second set of estimates are prepared in Table 5. According to it the trade deficit in 1975-76 was Rs.346 crores and 861 crores in 1980-81. The ratio of trade deficit to state domestic product rose from 16 per cent in 1975-76 to 24 per cent in 1980-81. (See Table 5)

Table 5

Estimates of Trade Deficit of Kerala 1975-76 and 1980-81

	Year	Exports	Imports	Trade	<u>I</u>	<u>I</u>	Defecit	Deficit
		Rs.crores	Rs.crores	Balance	SDP	SDP	SDP	Exports
	1	2	3	4	5	6	7	8
Estimate	1975-76	1224.92	1448.08	-223.16	54.9	64.9	10.0	18.2
	1980-81	2515.35	3441.43	-826.08	74.6	98.2	23.6	31.6
Estimate	1975-76	1042.34	1427.14	-384.80	47.7	64.0	16.3	34.3
	1980-81	2193.28	3054.24	-861.04	62.5	87.1	24.5	39.2

Section III

Pattern of Exports

The popular notion of Kerala being a predominantly raw material exporting region is not fully borne out by facts. In fact, 40-45 per cent of the total exports from Kerala are final products, most of which are output of the agricultural or mine sectors and require only elementary processing. Leaving aside refined petroleum, rubber and coconut products are the major raw material or intermediate goods exported from the region.

Raw or processed agrobased products constitute around 4 per cent of the total regional exports. Various commercial crops that cater to these exports accounted for 59 percent of the cultivated area in 1974-75. The shift of cultivated area from cereals and cereal substitutes have accelerated since then.¹ Table 6 presents the production and exports of the important commercial crops of the state for the years 1975-76 and 1980-81.

The limitation of the data may be clearly understood. The production figures refer to crop years and do not fully correspond to the reference periods for the trade data. Further, no adjustments have been made for the changes in stock holding while calculating the export share of the total production.

Table 6

Production and Exports of Certain Important Crops
(1975-76, 1980-81)

Crop	Production		Net Exports		Export Ratio	
	1975-76	1980-81	1975-76	1980-81	1975-76	1980-81
Pepper (tonne)	24,588	28,519	38,818	44,387	125	155
Cardamom "	2,858	3,244	1,684	2,441	82	75
Ginger "	28,848	32,039	8,895	11,233	28	35
Turmeric "	2,698	6,141	618	1,521	23	25
Tea "	43,264	58,716	24,545	21,472	57	42
Coffee "	17,528	23,548	15,298	13,723	87	58
Cashew "	122,368	81,988	184,891	58,889	91	71
Betelnut (m.nuts)						
	11,387	18,885	8,555	4,644	75	43
Rubber (tonnes)	128,769	148,333	83,318	128,236	65	91
Coconut (m.nuts)	3,439	3,986	1,216	1,214	35	48

[Source: Statistics for Planning 1987; Annexure A and B]

- Note:
1. Net exports = Exports from the state - imports into the state.
 2. Foreign export quantity is directly taken from the foreign export statistics and the inter-state trade is estimated from the value figures by using relevant unit prices.
 3. 1 tonne of betelnut = .214 million nuts
 4. Exports of copra and oil have been converted into nut equivalent using the relevant conversion ratios.

Agro-based Products : Foreign Exports

Let us first examine the major spices. The pepper exports are seen to be 25 to 55 per cent higher than the estimates of production. If one also considers the internal consumption of the pepper in Kerala, it is evident that the pepper production is a severe under estimate.¹² To an extent it may be due to the fact that much of the area expansion under pepper may have been through encroachment into the forest land and therefore is not covered by official area estimates. Kerala accounts for 95 per cent of the pepper production in India and for nearly the entire foreign exports from India.¹³ A

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significant proportion of the interstate exports of pepper and other spices, is only cross traffic to Bombay for export to foreign countries. Around 55 per cent of the exports of pepper from Kerala in 1980-81 were to foreign destinations.

75-80 per cent of the cardamom produced in Kerala moves out of the state. Even though Kerala accounts for only around two thirds of the cardamom production in the country, it is estimated that the state's contribution to the foreign exports of the country would be around four-fifths.¹⁴ Kerala produces superior exportable quality of cardamom. Thus in 1980-81 around 85 per cent of the exports of cardamom (including the exports via ports outside the region) were to the international market.

The external dependency of the next two important spices, ginger and turmeric, is relatively lower. Only around 30-35 per cent of the ginger production and 20-25 per cent of the turmeric production moves out of Kerala. Kerala accounts for less than 40 per cent of the ginger production in the country but around 90 per cent of the national foreign exports.¹⁵ Nearly half of the ginger exports from Kerala are for foreign market. Turmeric is really a minor crop contributing to around 1.5 per cent of national production and an even lower share of national exports.

Almost the entire cashew production within the state is processed for exports. Substantial imports from East Africa are also made to supplement the internal production of raw nuts. During the 'sixties more than 65 percent of the cashew kernel exports was processed from imported raw nuts. But since the raw

nut imports have tended to decline.¹⁶ The ratio of processed nuts to internal production shows a significant decline between 1975-76 and 1980-81. It may be indicative of increased incidence of smuggling of raw nuts from Kerala to factories in the adjacent states where the wages are relatively lower for processing.

Tea and coffee are two agricultural crops that cater to both the national and international markets. As can be seen from Table 6 there is considerable variation in the ratio of net exports to production. In the case of both crops, the ratio has declined between 1975-76 and 1980-81. While the crop production rose the exports fell. However one has to bear in mind that these are two commodities for which there is considerable cross traffic as well as internal consumption and also the possibility of significant changes in stock holdings. It has been estimated that around 50 per cent of the tea production in the state is exported to foreign countries.¹⁷

Agro based Products : Interstate Exports

In contrast to the above crops, arecanut, coconut and rubber are largely confined to the national market. This is particularly true for coconut and rubber. Even in the case of coconut products foreign destinations contributed to only 12 and 10 percentage shares respectively in 1975-76 and 1980-81. There is also significant internal consumption of coconut products within Kerala. Only around 35 to 40 per cent of the coconut production are exported from Kerala either in the form of raw nuts, copra or oil. Even though the exports for 1975-76 and 1980-81 show a surprising equivalence of 1215 million nuts, the

composition of exports had significantly changed. The exports of raw nuts declined from 109 million nuts to 98 million nuts. The nut equivalent of the copra exports also declined from 637 to 475 millions. But the nut equivalent of the coconut oil exported increased from 470 to 641 millions. Thus the overall exports were maintained despite a 13 per cent decline in the nut production. It means that there was a decline in the nuts available for consumption within the state.

Kerala accounts for almost the entire production of natural rubber in India. But the rubber based manufacturing industries are concentrated outside Kerala mainly in the three states of Maharashtra, West Bengal and Uttar Pradesh.¹⁰ Consequently a major proportion of the rubber produced in Kerala moves out of the state in the raw form. In 1975-76 around 65 per cent of the production was exported to the other states. In 1980-81 the proportion was as high as 91 per cent. The wide difference in the ratios for the two years may be due to changes in stock holdings or deficiencies in the estimates of production or trade.

Table 7

The Trade in Important Industrial Products (Rs.lakhs)

	1975-76		1980-81	
	Imports	Exports	Imports	Exports
Cashew	23	9932	4342	15437
Marine Products	1157	6679	3118	10518
Coconut Oil	1391	5730	196	9599
Coir	28	4692	113	6722
Soap	236	1140	1940	3884
Tea	2144	5554	5301	11486
Coffee	1765	2854	3498	7104
Wood Products	1037	4273	865	7166
Paper	2452	787	6718	9297
Other Food	954	954	2470	46
Cattle Feed	489	14	1224	28
Clay	62	508	414	714
Textiles	5172	7318	7815	7872
Rubber	1376	1796	4196	8199
Cement	2485	85	9253	497
Glass	289	40	573	40
Metal Products	858	1152	1852	8323
Tools & Machines	3298	2734	5364	3267
Electrical Goods	2044	1512	6853	6480
Vehicles	690	201	2441	949
Pharmaceuticals	1474	212	2630	423
Fertilisers	6310	5764	5766	7745
Paints & Colours	478	64	854	47
Plastic goods	317	124	854	134
Misc. Manufactures	13381	2521	51070	13977
Metals	6845	3662	17790	5120
Chemicals	2434	1798	6401	5986
Petroleum Products	18578	16258	64232	42556

Exports of Industrial Products

Now we shall turn our attention to the trade in industrial products. It has been estimated that around 66 per cent of the output of the secondary sector is exported.¹⁷ It may be noted that the major industries in the state are agro processing industries, some of the products of which have already been dealt with. In the absence of relevant information about trade and transport margins, we have not attempted to compare the industrial output of the various sectors and the import/export trade of their respective products. Even so, the table 7 that

presents the import/exports of important processed/ manufactured commodities in 1975-76 and 1980-81 is instructive.

We shall first examine the various resource based industries of Kerala. Two industries that are basically for export are the marine and cashew processing industries. While these two industries accounted for around 5 per cent of the value added in the factory sector, their share in the value of the exports from the secondary sector was 18 per cent in 1980-81. The exports of processed fish constitute only a very small percentage of the total fish landings in Kerala. However, the marine exports consist almost entirely of high value varieties such as prawns and lobsters. In the recent period the industry has been adversely affected by a decline in the fish landings.

The industrial deceleration has been more prominent in the case of cashew. Due to wage differentials that exist between Kerala and the other neighbouring states there has been a locational shift in the industry to outside Kerala. It is reflected in the quantity of cashew kernels imported into Kerala from the neighbouring states for re-export. Consequently, net export of cashew kernels from Kerala has remained unchanged between 1975-76 and 1980-81 at around Rs.100 crores.

The exports of various coconut industries such as oil, cake, coir yarn and coir products came to around Rs.100 crores in 1975-76 and Rs.160 crores in 1980-81. The exports of coconut oil are largely meant for the soap industry outside. Even though, Kerala imports significant quantity of soap, it may be noted that

Kerala is a net exporter of this item. The proportion of coconuts milled within Kerala has been rising. On the other hand coir, the major coconut industry in terms of employment, has been in doldrums. There has been a sharp decline in foreign exports. To a great extent the above decline has been compensated by the exports to rest of India. Eventhough the quantity of exports has stagnated around 1.2 lakh tonnes the value of exports of coir yarn and products has significantly increased between 1975-76 and 1980-81. The industry is plagued by scarcity of raw materials, fluctuations in demand and informalisation of the production structure. In addition the industry has been picking up in the neighbouring state of Tamil Nadu.²⁰ Nearly 1 crore worth of coir fibre and products are seen to be moving into Kerala.

Apart from tea processing and coffee curing the other major resource based industrial sector is the forest based industries. The exports of raw timber has considerably declined and the proportion of processed timber such as plywood, hard board, furniture etc. in the exports have increased. Still, the share of semi-processed products such as pulp, splints and veneers, rayon etc. comes to 60 per cent of the exports of forest products. With the opening of the news paper mill at Velloor, Kerala seems to have emerged as a net exporter of paper and paper products.

An important aspect that emerges from the above discussion is that there is hardly any competition between foreign exports and interstate exports, but for the cases of coffee and tea. 90 percent of Kerala's foreign exports are final products while

final products constitute only 30 per cent of the interstate exports. While cashew and marine products the most important items accounting for 24-28 and 18-20 per cent of the foreign exports, they hardly figure in the interstate trade account. In contrast only negligible proportion of coconut products and hardly any of rubber are exported to foreign countries.

Section IV

The Pattern of Imports

Food products constitute the single most important group of imports into Kerala. It is seen that foodgrains, sugar, vegetables and fruits, chillies, groceries and provisions and processed food constituted around 32 per cent of the total regional imports. The share of food imports declines to around 22 per cent in 1980-81. The decline in the share of food products is not due to any decrease in the external food dependency of the region but due to a relatively faster increase in the non food items in the import basket. The value of imports of the food products had, in fact, increased from around Rs.475 crores to around Rs.775 crores between 1975-76 and 1980-81.

Foodgrain Imports

The imports of rice and wheat into the state increased from around 15 lakh tonnes in 1975-76 to nearly 17 lakh tonnes in 1980-81. The imports more than made up for the decline in internal rice production within Kerala from 13.6 lakh tonnes in 1975-76 to 12.71 lakh tonnes in 1980-81. In fact, our calculations show that there was even a marginal increase of per capita cereal availability in the state from 113 kg per capita in 1975-76 to 117 kg per capita in 1980-81. The share of imports in the foodgrain consumption in Kerala increased from 56 per cent to 62 per cent during the five year period.

As can also be seen from the detailed tables in Appendices A and B the proportion of wheat in the cereal imports declines from

around 58 per cent in 1975-76 to around 10 per cent in 1980-81. The actual composition of the cereal imports would vary according to the food situation in the country. But what is important to note is that the external supplies has, on the whole, succeeded in meeting the rising cereal requirements of the food deficit region.

Another important aspect to be noted about the cereal imports (and also that of sugar, the next major item of food imports) is that they are mostly imported on government account. These government imports are distributed through statutory ration shops at subsidised prices. The relative importance of private traders in the import of these commodities have varied over time depending upon the trade regulations imposed by the government. With removal of trade restrictions in 1977 private trade channels are becoming more prominent in foodgrains trade. The import of foodgrains on private account is estimated to have increased from 3.5 lakh tonnes to 7 lakh tonnes between 1975 and 1980.

Kerala is dependent on the rest of India for around 90 per cent of its supply of pulses and grams. The decline in the import of pulses in 1980-81 is probably due to underestimation. The import of 'groceries' and 'provisions' had increased from around 47 thousand tonnes to around 117 thousand tonnes between 1975-76 and 1980-81. A significant proportion of the groceries and provisions consists of pulses and grams.

Noncereal Food Imports

The external dependence of Kerala for its supply of foodgrains and the lower share of cereals in the food basket of the state are well known. But a new element in the food situation is the emergence of external dependency for even for non-foodgrain food supplies in the recent years. It is due to changes in the food habits of the people as well as failure of non cereal food production to keep pace with the growth of population.

Thus for example, between 1975-76 and 1980-81 the production of tapioca, a cheap carbohydrate substitute for cereals, declined from 53.9 lakh tonnes to 40.6 lakh tonnes reducing the net availability of tapioca from 31.3 lakh tonnes to 23.6 lakh tonnes, after meeting the export and industrial requirements. In other words, the per capita rice equivalent of tapioca available for regional consumption declined from 85 kgs per capita to 55 kgs per capita in the latter half of the 'seventies.²¹ There was a shift in the food basket of the region from internally produced cheap sources of carbohydrates to the imported costlier cereals and other food items.

The importance of coconuts and coconut oil has also declined in the diet. On the assumption that 60 per cent of the nuts are converted into copra either for exports or for the milling industry in Kerala, the per capita raw nuts available for culinary purposes within Kerala would decline from 58.3 nuts in 1975-76 to 53.5 nuts in 1980-81. In the case of coconut oil the decline has been rather dramatic. The per capita availability of coconut oil after allowing for exports declined from 3.01 kg to

1.94 kg. There took place significant substitution of coconut oil by other edible oils between 1975-76 and 1980-81. the chief reason was the widening disparity between the prices of coconut and other edible oils.²² The share of coconut oil in the total oil availability in the state has declined from 78 per cent to 55 per cent during this period. The imports of other edible oils like groundnut and palms oil increased from less than 20 thousand tonnes to nearly 40,000 tonnes.

The internal production of fish also declined from 4.3 lakh tonnes in 1975-76 to 2.9 lakh tonnes in 1980-81. It was indeed an alarming decline as fish contributed to nearly 60 per cent of the protein intake in 1975-76. The declining availability of this cheap source of protein has been an important factor influencing the diversification of consumption habit into other costlier sources of protein like milk, meat and eggs.²³ With respect to the meat consumption a greater proportion of the consumption requirements are met from imported cattle. Available animal husbandry statistics indicate that a total of 6.75 lakh heads of cattle and buffaloes were imported into Kerala in 1975-76 for slaughter. In 1980-81 they numbered only 3.68 lakh heads.²⁴ We have no explanation for the low figure for 1980. However, since then cattle import figures have once again picked up. The milk and egg requirements were largely met from supplies from the region itself during the period of our analysis. Since then the indications are that the imports of these commodities have also increased.

The trade data for 1975-76 and 1980-81 also reflect the startling fact of increasing dependence of Kerala on external supplies for even vegetables and fruits. Their imports more than doubled during the period of our analysis.

Imports of other Consumer Products

The import intensity of consumer expenditure not only with respect to food products but also with respect to non food products such as manufactured consumer goods has also been rising. But due to the limitations of data on the production or consumption of these items it is difficult to quantify the increase in the importance of imports in the manufactured consumables.

Almost the entire traffic in these commodities is through roadways. Limitations of data of road goods traffic do not permit a detailed analysis of manufactured consumer products over time. A major problem with respect to the road freight statistics is that a significant proportion of the traffic (i.e. 20 per cent in 1975-76 and 25 per cent in 1980-81) is through break parcel service, the details of which are not available. It is indeed a serious handicap to the conclusions drawn. Discussions with the managements of the parcel service companies indicate that around 70 per cent of the 'parcels' are manufactured consumer products like textiles, rubber products, and so on, the rest being intermediate goods, chemicals and metals and machinery.

The share of the manufactured final products including the parcels (- parcel also it contains a low proportion of intermediate goods -) increased from 27 per cent to 33 per cent and their share in the exports rose from 15 per cent to 21 per cent between 1975-76 and 1980-81. There was a significant increase in the trade in consumer durables and other consumer products. The imports of pharmaceuticals nearly doubled between 1975-76 and 1980-81. The decline in textile imports between 1975-76 and 1980-81 is likely to be the result of diversion textile transport to parcel service'. It may also account for the paradoxical results of the textile trade where Kerala is a net exporter of textiles. (Table 7)

Our discussion accords with the discernible changes in the consumption pattern in Kerala. The share of non food items in the consumption expenditure has increased from 26 per cent to 38 per cent in the rural areas and from 29 per cent to 41 per cent in the urban areas in Kerala between 1967 and 1983. The consumption share of durable goods in Kerala is 6.0 and 3.7 per cent in the rural and urban areas respectively against all India average of 2.3 per cent in both sectors.²⁰ The trade flows reflect the consumer boom in Kerala which became fully manifest in the 'eighties.

Imports of Intermediate Goods and Raw Materials

Leaving the imports of final consumption goods we shall move on to the imports of raw materials and intermediate goods. There was a phenomenal increase in the import of construction materials in the latter half of the 'seventies. The import of cement

increased from 7 lakh tonnes to 16 lakh tonnes between 1975-76 and 1980-81. A significant proportion of the iron and steel was for construction purposes. The import of sanitary wares increased Rs.32 lakhs to Rs.273 lakhs. Similarly the value of imports of paints and varnishes doubled. The demand generated by the construction boom in Kerala has been largely met thorough increased imports from outside.

The most important raw material imported into Kerala is crude petroleum products for the oil refinery at Cochin. The imports of petroleum crude increased from Rs.169 crores in 1975-76 to Rs. 627 crores in 1980-81. Its share in the total value of regional imports also increased from 12 per cent to 18 per cent during the same period. Relatively, only a small amount of refined mineral oil was being imported. In 1975-76 the entire crude oil was being imported from foreign countries while by 1980-81 18 per cent of the crude oil imports was being met by Bombay High oil fields.

A significant proportion of the mineral oils refined at Cochin Refineries is being moved out of the state. Thus the value of crude petroleum imported and mineral oils exported more or less tallied with each other in 1975-76. Thus it would appear that there was very little net import of petroleum products into Kerala. Needless to say such a conclusion would be a gross misrepresentation. The pricing policies of the Oil Corporation, a central government public sector undertaking, and the surpluses generated by it have very little impact on Kerala's domestic economy. What is relevant is the actual consumption of petroleum

products by consumers in Kerala, which may be considered a net import into Kerala. Around 11 lakh tonnes of petroleum products worth Rs.297 crores are estimated to have been consumed in Kerala in 1980-81.²⁶

Raw Cashewnut was the other major import into Kerala. But the value of imports of raw cashew from foreign countries declined from Rs.30 crores in 1975-76 to less than Rs.14 crores in 1980-81. The severe supply constraints on the East African nuts arising from fall in production and the demand for nuts from the domestic industry in Africa appears to have become more severe during our period of analysis.

With the industrial belts of Cochin and Coimbatore in its hinterland, various intermediate products like chemicals, metals and machinery have been important items of import for the port of Cochin.²⁷ Raw cotton demand of Coimbatore mills are also met to an extent through cross traffic from the port of Cochin.

Eventhough chemical industries constitute the most important modern industrial sector in Kerala, chemicals were a major item of imports. A significant proportion of the imports of chemicals were meant for the fertiliser industry. In 1980-81 Kerala was a net exporter of fertilisers.

Conclusions

Our estimates of the exports and imports of Kerala for the years 1975-76 and 1980-81 conform the widely prevalent notion regarding the high degree of external commercial integration of Kerala's economy. The total value of the international and interstate trade was around 20 per cent and 70 per cent higher than the state domestic product of Kerala at factor cost in the years 1975-76 and 1980-81 respectively. Nearly 50 per cent of the gross output of the primary and secondary sectors were being exported. Even a higher proportion of the consumption expenditure in the state was met through imports.

There is no reliable estimate of the external trade of other states to facilitate an interstate comparison of the relative incidence of external trade. But it was seen that foreign exports constituted around 15 per cent of Kerala's GDP while for the country as a whole the ratio of exports to GNP was only around 5.5 per cent. It may also be noted that the relative importance of international trade in the external trade flows of the state has tended to decline in the post independence period. Between 1975-76 and 1980-81 it declined from around 26 per cent to 21 per cent.

The discussion of the pattern of exports brought out the following significant points:

- (a) Unlike what is often popularly believed Kerala is not a predominantly raw material exporting region. But for coconut products and rubber its exports are mostly final products that require only elementary processing and have only weak

forward linkages.

- (b) Kerala has a diversified export basket. This is an important aspect to be borne in mind while assessing the impact of trade fluctuations on the regional growth.
- (c) The international and interstate exports are rather complimentary than competitive. While cashew and prawn are exported almost entirely abroad rubber and coconut products are almost entirely consigned to the other states.
- (d) Finally, Kerala's exports are mostly primary commodities that are based on harvesting of natural resources or perennial crops that grown in ecologically sensitive mountain slopes. The natural resource depletion, ecological degradation and low productivity have started to operate as major supply constraints for many of the important export commodities. The exports of most of the traditional products have tended to stagnate between 1975-76 and 1980-81 in real terms.

Our discussion of the pattern of imports underlined the growing import dependency of the state. The share of imports in the foodgrain consumption increased from 52 per cent to 62 per cent between 1975-76 and 1980-81. 90 per cent of the pulses and grams consumed in the state were imported. The new insight gained has been the emergence of external dependency even for non foodgrain supplies such as edible oil, protein sources, vegetables etc. Our data also accords with the discernible changes in the consumption pattern of Kerala towards manufactured non food consumer products - the so called consumer boom in the state. There was significant expansion of the imports

of many consumer durable goods and construction materials during the period of our analysis.

As a result the imports have tended to grow faster than exports widening the trade deficit of the region. The balance of trade (assuming the actual consumption of petroleum products in the state to be the net import) increased from Rs.364 crores in 1975-76 to Rs.961 crores in 1980-81. The trade deficit as a proportion of the GDP increased from 16 per cent to 25 per cent and as a proportion of the regional exports increased from 34 per cent to 39 per cent during the above period. The above severe import leakage would go a long way to explain the low multiplier impact of foreign remittances in Kerala.

[The present working paper forms a part of a larger study on trade and the development experience of Kerala. The authors wish to thank D. Narayana, Nate Duvvury, Pyaralal Raghavan and Anil Kumar for helpful comments, J. Sreekumar for computational assistance and D Sirija for typing service. The cooperation of authorities of Economic Data Processing Centre of Southern Railway, Madras; Transport Division of State Planning Board, Kerala and Cochin Port Trust are also gratefully acknowledged]

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4.

Inter state Commodity Movement by Road - Certain selected commodities (Rs.lakhs)

	1975-76				1980-81			
	Inward	Share in total inward traffic	Outward	Share in total outward traffic	Inward	Share in total inward traffic	Outward	Share in total outward traffic
Groceries	1019	1.58	2	-	3436	1.73	24	0.02
Provisions	381	0.59	51	0.10	130	0.07	-	-
Parcels	13819	20.23	2389	4.86	58363	25.36	13433	9.68
Others	709	1.10	173	0.35	20636	10.39	11664	8.41
Total Traffic	64318	100.0	48948	100.0	198593	100.0	138746	100.0

Source: Same as those referred to enote 2.

5.

Total Inward and Outward Movement of Goods by Road

(Rs. lakhs)

	1975-76		1980-81	
	Official	Revised	Official	Revised
Total Inward movement	66445	64318	199031	198592
Total outward movement	58934	48948	138126	138746
Total goods traffic	117379	113266	337157	337338

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7.

Petroleum Shipping Trade on Kerala 1975-76

	Outward		Inward	
	DCI	CPT*	DCI	CPT*
Foreign shipments	0	0	0	226834 MT
Coastal shipments	1095 K.L	563816 M.T.	13749 K.L.	38390 MT

* does not include 'bunkers'

KL = Kilo litres

MT = Metric tonnes

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Appendix A : Regional Trade Account of Kerala 1975-76 (Rs. Lakhs)

	Rail	Road	Foreign Ship	Coastal	Total M	Rail	Road	Foreign Ship	Coastal	Total X	
1	2	3	4	5	6	8	9	10	11	12	
Group 1 : Mineral Ores											
1 ironore	3.00	8.00	8.00	3.00	8.00	8.00	8.00	8.00	8.00	8.00	
2 manganese ore	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
3 manganese crude	2.00	17.00	8.00	8.00	19.00	8.00	8.00	8.00	8.00	8.00	
4 ferromanganese	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
5 magnesite calcined	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
6 rare minerals	8.00	13.00	8.00	8.00	13.00	8.00	52.00	8.00	8.00	52.00	
7 coal	61.00	8.00	8.00	97.00	158.00	8.00	8.00	8.00	8.00	8.00	
8 leco	1.00	15.00	8.00	8.00	16.00	8.00	8.00	8.00	8.00	8.00	
9 others including bauxite	1.00	8.00	398.00	25.00	416.00	88.00	8.00	98.00	8.00	187.00	
10 dolomite	8.00	1.00	8.00	8.00	1.00	8.00	8.00	8.00	8.00	8.00	
11 limestone	8.00	1.00	8.00	8.00	1.00	8.00	8.00	8.00	8.00	8.00	
12 gypsum	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
13 china clay	5.00	18.00	8.00	8.00	23.00	34.00	8.00	8.00	8.00	39.00	
14 lime	8.00	7.00	8.00	8.00	7.00	9.00	9.00	8.00	8.00	19.00	
15 other clay	8.00	8.00	8.00	1.00	1.00	8.00	8.00	1.00	8.00	1.00	
16 marble	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
17 ballast	8.00	8.00	8.00	8.00	8.00	8.00	2.00	8.00	8.00	8.00	
18 grind stone	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
19 sand	8.00	8.00	8.00	8.00	8.00	8.00	1.00	8.00	5.00	12.00	
20 other stone	3.00	8.00	8.00	8.00	3.00	8.00	8.00	15.00	8.00	15.00	
Total 1	73.00	72.00	398.00	123.00	668.00	123.00	67.00	114.00	18.00	322.00	
Group 2 : Crude Petroleum											
21 crude petroleum	1.00	8.00	16854.00	8.00	16855.00	8.00	8.00	8.00	8.00	8.00	
Total 2	1.00	8.00	16854.00	8.00	16855.00	8.00	8.00	8.00	8.00	8.00	
Group 3 : Nuts											
22 cashewnuts	8.00	388.00	3811.00	8.00	3319.00	8.00	846.00	8.00	8.00	846.00	
23 betelnut	8.00	13.00	8.00	8.00	13.00	161.00	2889.00	8.00	8.00	2161.00	
24 other nuts	783.00	8.00	8.00	8.00	783.00	8.00	8.00	8.00	8.00	8.00	
Total 3	783.00	321.00	3811.00	8.00	4855.00	161.00	2946.00	8.00	8.00	3487.00	
Group 4 : Rubber											
25 rubber crude & raw	2.00	228.00	8.00	38.00	266.00	665.00	5489.00	2.00	417.00	7571.00	
26 rubber scrap	3.00	8.00	8.00	8.00	3.00	18.00	8.00	8.00	8.00	18.00	
27 rubber waste	17.00	8.00	8.00	8.00	17.00	76.00	8.00	8.00	8.00	76.00	
Total 4	12.00	228.00	8.00	38.00	266.00	1757.00	5497.00	2.00	417.00	7665.00	

1	2	3	4	5	6	7	8	9	10	11	12
Group 5 : Fibres											
28	cotton	446.00	2477.00	137.00	7.00	3267.00	11.00	444.00	81.00	0.00	556.00
29	waste cotton	10.00	4.00	0.00	0.00	14.00	12.00	15.00	0.00	0.00	27.00
30	wool fibre	2.00	11.00	0.00	0.00	13.00	0.00	19.00	16.00	0.00	35.00
31	silk waste	0.00	3.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	3.00
32	fibre	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	wool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.00	95.00
Total 5		458.00	2494.00	137.00	7.00	3294.00	23.00	478.00	192.00	0.00	675.00
Group 6 : Oil Seeds											
34	groundnut	3.00	383.00	0.00	0.00	386.00	2.00	29.00	0.00	0.00	31.00
35	castor seeds	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
36	cotton seeds	154.00	146.00	0.00	0.00	300.00	1.00	0.00	0.00	0.00	1.00
37	rape seed	56.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00	0.00	0.00
38	gingelly seed	62.00	23.00	0.00	2.00	107.00	0.00	0.00	0.00	0.00	0.00
39	copra	1.00	0.00	0.00	60.00	77.00	2010.00	3242.00	0.00	351.00	5533.00
40	other oil seeds	7.00	1.00	0.00	1.00	9.00	0.00	31.00	3.00	0.00	34.00
Total 6		383.00	561.00	0.00	71.00	935.00	2013.00	3302.00	3.00	351.00	5799.00
Group 7 : Forest Products											
41	bidi leaves	200.00	160.00	0.00	0.00	456.00	10.00	179.00	0.00	0.00	151.00
42	bidi tobacco	0.00	160.00	0.00	0.00	160.00	0.00	35.00	0.00	0.00	35.00
43	raw tobacco	0.00	480.00	0.00	0.00	480.00	24.00	56.00	0.00	0.00	80.00
Total 7		200.00	816.00	0.00	0.00	1104.00	34.00	239.00	0.00	0.00	266.00
Group 8 : Other Agri. Materials											
44	sugarcane	0.00	12.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00
45	bonagrass	6.00	0.00	3.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00
46	straw and grass	0.00	10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00
47	pulses/husks of grains	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
48	bran	12.00	10.00	0.00	0.00	35.00	9.00	20.00	0.00	0.00	34.00
49	other feed	100.00	2.00	0.00	0.00	127.00	0.00	11.00	130.00	1.00	158.00
Total 8		140.00	40.00	0.00	0.00	193.00	9.00	36.00	130.00	1.00	184.00
Group 9 : Forest Products											
50	firewood	5.00	0.00	0.00	1.00	6.00	0.00	71.00	0.00	11.00	90.00
51	bamboo	0.00	0.00	0.00	0.00	0.00	0.00	61.00	0.00	2.00	68.00
52	teak wood	0.00	11.00	0.00	0.00	16.00	72.00	91.00	0.00	7.00	178.00
53	timber ncc	90.00	256.00	0.00	2.00	348.00	434.00	777.00	778.00	81.00	2098.00
Total 9		100.00	267.00	0.00	3.00	370.00	517.00	1020.00	778.00	101.00	2418.00
Group 10 : Bovines											
54	hides & skin	0.00	31.00	0.00	0.00	31.00	0.00	326.00	2.00	0.00	329.00
55	rattle	226.00	32.00	0.00	0.00	258.00	22.00	9.00	0.00	0.00	27.00
Total 10		226.00	63.00	0.00	0.00	279.00	22.00	326.00	2.00	0.00	356.00

	1	2	3	4	5	6	7	8	9	10	11	12
Group 11 : Textile & Yarn												
56 jute		2.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00
57 wool		3.00	4.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00
58 cotton twist & yarn		0.00	657.00	0.00	0.00	657.00	49.00	2121.00	0.00	0.00	0.00	2170.00
59 coir yarn		9.00	0.00	0.00	0.00	17.00	1797.00	219.00	1234.00	0.00	0.00	3052.00
60 rayon		0.00	150.00	0.00	0.00	150.00	0.00	1119.00	0.00	0.00	0.00	1119.00
Total 11		14.00	819.00	0.00	0.00	933.00	1946.00	3459.00	1636.00	0.00	0.00	6341.00

Group 12 : Other Agril. Products												
61 gums/resin		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62 cotton seed oil		2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
63 castor oil	100.00	43.00	0.00	0.00	0.00	151.00	5.00	1.00	0.00	0.00	0.00	6.00
64 cashew oil		0.00	4.00	0.00	0.00	4.00	0.00	0.00	121.00	0.00	0.00	121.00
65 lemon grass oil		0.00	4.00	0.00	0.00	4.00	0.00	0.00	142.00	0.00	0.00	223.00
66 other oils	040.00	31.00	0.00	0.00	0.00	085.00	2.00	4.00	0.00	0.00	0.00	6.00
67 fish oil		0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	10.00
68 coconut cake		0.00	0.00	0.00	0.00	0.00	140.00	2240.00	0.00	0.00	0.00	2380.00
69 groundnut cake	610.00	1400.00	0.00	0.00	0.00	2110.00	0.00	0.00	0.00	1.00	0.00	9.00
70 cotton seed cake	7.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00
71 gingely cake	73.00	207.00	0.00	0.00	0.00	310.00	1.00	0.00	0.00	0.00	0.00	1.00
72 mustard cake		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73 castor cake		0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
74 other cakes	24.00	3.00	0.00	0.00	0.00	27.00	7.00	0.00	0.00	0.00	0.00	7.00
75 leather tanned		0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.00	0.00	0.00	107.00
76 leather scrap		0.00	22.00	0.00	0.00	22.00	0.00	74.00	0.00	193.00	0.00	269.00
77 pulp	02.00	731.00	13.00	0.00	0.00	976.00	1600.00	131.00	0.00	0.00	0.00	1731.00
78 paper waste	16.00	44.00	0.00	0.00	0.00	60.00	0.00	15.00	0.00	0.00	0.00	21.00
79 splints & veneers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	40.00
80 charcoal		0.00	3.00	0.00	0.00	3.00	2.00	0.00	2.00	0.00	0.00	4.00
81 molasses	44.00	75.00	0.00	0.00	0.00	119.00	0.00	3.00	0.00	0.00	0.00	3.00
82 cattle feed	1.00	406.00	0.00	0.00	0.00	407.00	3.00	9.00	0.00	0.00	0.00	14.00
83 ossein		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total 12		1975.00	3139.00	13.00	11.00	5130.00	1706.00	2610.00	370.00	194.00	0.00	4560.00

Group 13 : Metals												
84 iron & steel	3117.00	030.00	315.00	1.00	4263.00	322.00	572.00	12.00	70.00	0.00	0.00	974.00
85 brass		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86 tin		0.00	22.00	0.00	0.00	30.00	3.00	4.00	0.00	0.00	0.00	7.00
87 copper	37.00	257.00	1.00	0.00	295.00	1.00	3.00	0.00	0.00	0.00	0.00	4.00
88 zinc	1.00	03.00	0.00	0.00	04.00	1107.00	112.00	0.00	0.00	0.00	0.00	1299.00
89 niagara		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90 alumina	1600.00	503.00	19.00	0.00	2122.00	197.00	999.00	149.00	4.00	0.00	0.00	3471.00
91 lead		3.00	0.00	0.00	0.00	9.00	11.00	2.00	0.00	0.00	0.00	22.00
92 other minerals		0.00	0.00	14.00	1.00	23.00	0.00	1.00	5.00	10.00	0.00	49.00
Total 13		4700.00	1706.00	349.00	2.00	6945.00	1719.00	1693.00	166.00	54.00	0.00	3662.00

1	2	3	4	5	6	7	8	9	10	11	12
Group 14 : Mineral oils											
93	diesel oil	33.00	25.00	0.00	33.00	98.00	4024.00	124.00	128.00	1616.00	5864.00
94	kerosene	7.00	5.00	0.00	0.00	12.00	2808.00	5.00	0.00	916.00	2925.00
95	petrol	5.00	24.00	0.00	282.00	231.00	1924.00	443.00	0.00	90.00	2437.00
96	fuel oil	74.00	358.00	0.00	1.00	433.00	1317.00	76.00	0.00	2942.00	4335.00
97	lubricating oil	95.00	0.00	0.00	48.00	138.00	5.00	0.00	0.00	0.00	5.00
98	lpg	0.00	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00
99	tar coke										
	bitumen	209.00	1.00	0.00	2.00	210.00	99.00	6.00	0.00	0.00	135.00
100	other mineral										
	oil	78.00	7.00	0.00	0.00	85.00	17.00	0.00	0.00	0.00	17.00
101	waxes	0.00	0.00	0.00	518.00	518.00	0.00	40.00	0.00	504.00	544.00
Total 14		479.00	434.00	0.00	794.00	1713.00	9394.00	782.00	128.00	6062.00	16258.00
Group 15 : Chemicals											
102	acids	0.00	449.00	0.00	0.00	449.00	0.00	4.00	0.00	0.00	4.00
103	soda caustic	184.00	76.00	0.00	2.00	262.00	35.00	61.00	0.00	0.00	96.00
104	soda ash	44.00	0.00	0.00	100.00	144.00	1.00	0.00	0.00	0.00	1.00
105	carbon black	4.00	6.00	0.00	0.00	10.00	0.00	1.00	0.00	0.00	1.00
106	spirit	0.00	38.00	0.00	0.00	38.00	0.00	7.00	0.00	0.00	7.00
107	gas	0.00	20.00	0.00	0.00	20.00	0.00	376.00	0.00	0.00	376.00
108	sulphur	0.00	19.00	574.00	0.00	593.00	0.00	0.00	0.00	0.00	0.00
109	titanium dioxide	0.00	0.00	0.00	0.00	2.00	0.00	630.00	0.00	0.00	630.00
110	chemicals	18.00	834.00	162.00	10.00	924.00	2.00	533.00	140.00	0.00	683.00
111	insecticides	0.00	159.00	0.00	0.00	159.00	0.00	106.00	0.00	0.00	106.00
112	colours & dyes	17.00	37.00	0.00	0.00	54.00	83.00	0.00	0.00	0.00	83.00
113	tanning extracts	0.00	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00
Total 15		259.00	1648.00	639.00	112.00	2650.00	122.00	1716.00	140.00	0.00	1986.00
Group 16 : Fertiliser											
114	bone meal	148.00	2.00	0.00	0.00	150.00	2.00	4.00	48.00	0.00	53.00
115	fish meal	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00
116	organic manure	5.00	44.00	0.00	0.00	49.00	0.00	0.00	0.00	0.00	0.00
117	chemical										
	fertilisers	2023.00	91.00	3677.00	40.00	6151.00	5280.00	450.00	0.00	0.00	5656.00
Total 16		2477.00	137.00	3677.00	40.00	6351.00	5210.00	454.00	48.00	0.00	5712.00
Group 17 : Clay products											
118	ceMENT	1800.00	892.00	0.00	0.00	2477.00	66.00	19.00	0.00	0.00	85.00
119	asbestos	33.00	5.00	0.00	1.00	69.00	0.00	0.00	0.00	0.00	0.00
120	ceMENT products	0.00	6.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00
121	bricks	0.00	5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00
122	refractory bricks	7.00	0.00	0.00	0.00	7.00	1.00	0.00	0.00	0.00	1.00
123	tiles roofing	0.00	19.00	0.00	0.00	19.00	124.00	335.00	0.00	39.00	498.00
124	other tiles	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
125	stoneware	7.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
126	sanitary goods	0.00	32.00	0.00	0.00	32.00	0.00	0.00	0.00	0.00	0.00
127	other constr										
	material	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total 17		1870.00	944.00	0.00	1.00	2908.00	192.00	359.00	0.00	41.00	592.00

	1	2	3	4	5	6	7	8	9	10	11	12
Group 18 : Machinery & Equipment												
128 agricultural												
machinery	32.00	14.00	31.00	0.00	77.00	26.00	1.00	3.00	1.00	31.00		
129 hospital &												
scientific goods	0.00	43.00	95.00	0.00	138.00	0.00	1.00	1.00	0.00	2.00		
130 office equipment	0.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00		
131 telephone goods	0.00	17.00	23.00	0.00	40.00	0.00	0.00	0.00	21.00	0.00		
132 other light												
machinery	0.00	1.00	4.00	0.00	5.00	0.00	0.00	0.00	10.00	0.00		
133 other machinery	571.00	1694.00	781.00	0.00	3036.00	1691.00	605.00	104.00	0.00	2670.00		
134 cables & wires	0.00	7.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00		
135 power equipment	0.00	05.00	110.00	0.00	101.00	0.00	24.00	59.00	12.00	91.00		
136 motor pumpsets	16.00	411.00	75.00	0.00	504.00	22.00	100.00	241.00	0.00	376.00		
Total 18		221.00	2240.00	1129.00	0.00	3990.00	1929.00	742.00	315.00	21.00		3207.00
Group 19 : Metal Wares												
137 brassware	9.00	4.00	0.00	0.00	13.00	0.00	1.00	0.00	0.00	0.00		
138 tinware	31.00	00.00	0.00	0.00	119.00	14.00	19.00	0.00	1.00	34.00		
139 copperware	14.00	93.00	0.00	0.00	107.00	11.00	44.00	0.00	0.00	55.00		
140 leadware	1.00	1.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	2.00		
141 aluminiumware	67.00	26.00	0.00	0.00	93.00	110.00	500.00	0.00	40.00	710.00		
142 hardware	0.00	04.00	0.00	0.00	04.00	0.00	13.00	1.00	0.00	14.00		
143 containers	0.00	366.00	3.00	0.00	369.00	0.00	251.00	2.00	4.00	255.00		
144 wirenets&rods	0.00	0.00	1.00	0.00	1.00	0.00	3.00	0.00	0.00	25.00		
145 pipe&fittings	0.00	57.00	2.00	0.00	59.00	0.00	15.00	2.00	0.00	17.00		
146 other metal												
products	0.00	2.00	2.00	2.00	6.00	0.00	0.00	29.00	7.00	36.00		
Total 19		122.00	723.00	0.00	2.00	305.00	137.00	904.00	54.00	57.00		1132.00
Group 20 : Foodgrains												
147 paddy	197.00	100.00	0.00	0.00	500.00	1.00	7.00	0.00	0.00	4.00		
148 rice	16374.00	201.00	514.00	15.00	17109.00	9.00	0.00	67.00	76.00	152.00		
149 wheat	2762.00	0.00	5162.00	0.00	10704.00	400.00	7.00	0.00	0.00	607.00		
other grains	35.00	04.00	27.00	2.00	96.00	1.00	0.00	0.00	0.00	1.00		
151 grains	337.00	252.00	0.00	0.00	589.00	4.00	0.00	0.00	0.00	9.00		
152 pulses other												
than gram	1070.00	400.00	0.00	4.00	1562.00	1.00	0.00	0.00	3.00	20.00		
153 rice flour												
& others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
154 wheat flour												
& others	74.00	27.00	0.00	0.00	101.00	0.00	55.00	0.00	0.00	30.00		
155 gram flour	9.00	0.00	0.00	1.00	10.00	1.00	0.00	0.00	0.00	1.00		
156 other flours	9.00	1.00	0.00	0.00	10.00	140.00	0.00	0.00	0.00	150.00		
157 starch	0.00	3.00	250.00	0.00	253.00	0.00	10.00	1.00	0.00	17.00		
Total 20		20070.00	1260.00	0991.00	70.00	31205.00	763.00	100.00	74.00	79.00		1024.00
Group 21 : Spices												
158 pepper	0.00	07.00	0.00	1.00	00.00	137.00	1097.00	3007.00	0.00	4741.00		
159 turmeric	1.00	24.00	0.00	0.00	25.00	2.00	2.00	70.00	0.00	02.00		
160 chillies	0.00	1564.00	0.00	0.00	1564.00	1.00	70.00	70.00	0.00	100.00		
161 cardamoms	1.00	200.00	0.00	0.00	201.00	1.00	1407.00	411.00	0.00	1070.00		
162 ginger dry	0.00	0.00	0.00	0.00	0.00	31.00	400.00	223.00	0.00	714.00		
163 cumin	0.00	7.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00		
164 coriander	0.00	314.00	0.00	0.00	314.00	0.00	3.00	0.00	0.00	3.00		
165 fennel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

	2	3	4	5	6	7	8	9	10	11	12
115 other spices	64.00	11.00	0.00	2.00	75.00	5.00	0.00	0.00	210.00	0.00	220.00
Total 21	71.00	120.00	0.00	0.00	200.00	17.00	0.00	320.00	400.00	0.00	775.00

Group 22 : Other primary goods

167 mangoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168 plantains	0.00	150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	3.00
169 other fruits	1.00	224.00	0.00	1.00	226.00	0.00	45.00	0.00	1.00	1.00	49.00
170 dried fruits	25.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	1.00	13.00
171 vegetables	0.00	530.00	0.00	1.00	531.00	0.00	40.00	0.00	0.00	0.00	40.00
172 tomatoes fresh	0.00	9.00	0.00	0.00	9.00	1.00	0.00	0.00	0.00	2.00	860.00
173 potato	4.00	50.00	0.00	0.00	54.00	0.00	0.00	0.00	0.00	0.00	2.00
174 onion	6.00	412.00	0.00	0.00	418.00	0.00	0.00	0.00	0.00	0.00	0.00
175 tapioca	0.00	25.00	0.00	0.00	25.00	0.00	0.00	124.00	0.00	0.00	124.00
176 other fruits & vegetables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177 milk & egg	0.00	29.00	0.00	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00
178 fresh fish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179 dry fish	0.00	29.00	0.00	1.00	30.00	0.00	18.00	0.00	1.00	1.00	19.00
180 meat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
181 tamarind	0.00	17.00	0.00	0.00	17.00	0.00	17.00	0.00	0.00	0.00	17.00
182 groceries	0.00	1015.00	0.00	0.00	1015.00	1.00	2.00	0.00	0.00	0.00	0.00
183 provisions	75.00	301.00	0.00	0.00	376.00	140.00	21.00	0.00	0.00	0.00	197.00
184 salt	27.00	147.00	0.00	0.00	174.00	0.00	0.00	0.00	12.00	12.00	12.00
185 tooth powder	10.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
186 ghee	0.00	40.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
187 other milk products	0.00	12.00	1.00	0.00	13.00	0.00	0.00	2.00	0.00	0.00	0.00
Total 22	152.00	5145.00	1.00	0.00	5303.00	152.00	170.00	305.00	17.00	0.00	1650.00

Group 23 : Marine products

188 frozen fish	0.00	1110.00	0.00	1.00	1111.00	0.00	43.00	6654.00	0.00	0.00	6697.00
189 frog legs	0.00	41.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00
Total 23	0.00	1151.00	0.00	1.00	1152.00	0.00	43.00	6654.00	0.00	0.00	6697.00

Group 24 : Tea & Coffee

190 tea	10.00	3120.00	0.00	4.00	3134.00	150.00	1474.00	3750.00	0.00	0.00	5508.00
191 coffee	24.00	1744.00	0.00	0.00	1768.00	16.00	701.00	2137.00	0.00	0.00	3654.00
192 others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total 24	34.00	4864.00	0.00	4.00	4872.00	166.00	2175.00	5887.00	0.00	0.00	9162.00

Group 25 : Cashew

193 cashew kernels	0.00	1771.00	0.00	0.00	1771.00	0.00	645.00	9166.00	0.00	0.00	9811.00
Total 25	0.00	1771.00	0.00	0.00	1771.00	0.00	645.00	9166.00	0.00	0.00	9811.00

Group 26 : Edible oil

194 hydrogenated oil	12.00	170.00	0.00	12.00	202.00	4.00	0.00	0.00	0.00	0.00	4.00
195 groundnut oil	27.00	574.00	0.00	2.00	603.00	0.00	6.00	0.00	0.00	0.00	0.00
196 mustard oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197 coconut oil	1.00	23.00	0.00	0.00	24.00	1243.00	2079.00	0.00	0.00	0.00	3340.00
198 olive oil	0.00	170.00	0.00	0.00	170.00	0.00	0.00	0.00	0.00	0.00	0.00
199 other oils	0.00	107.00	0.00	0.00	107.00	1.00	0.00	0.00	0.00	0.00	1.00
Total 26	39.00	874.00	0.00	14.00	907.00	1248.00	2185.00	0.00	0.00	0.00	3341.00

	1	2	3	4	5	6	7	8	9	10	11	12
Group 27 : Sugar												
208	sugar	3392.00	2225.00	0.00	10.00	3960.00	1.00	102.00	0.00	0.00	0.00	102.00
209	sugar candi-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	klondari sugar	50.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00
211	gur sarkera	107.00	2335.00	0.00	0.00	2470.00	0.00	1.00	0.00	0.00	0.00	1.00
212	glucose	0.00	0.00	0.00	0.00	0.00	125.00	04.00	0.00	0.00	0.00	229.00
Total 27		3549.00	4560.00	0.00	10.00	6520.00	126.00	107.00	0.00	0.00	0.00	333.00
Group 28 : Rubber products												
213	tyres & tubes	195.00	030.00	0.00	0.00	1034.00	770.00	694.00	0.00	0.00	0.00	1464.00
214	other rubber products	15.00	500.00	0.00	0.00	5+2.00	0.00	1270.00	00.00	0.00	0.00	1372.00
Total 28		210.00	730.00	0.00	0.00	1036.00	770.00	1764.00	00.00	0.00	0.00	2836.00
Group 29 : Paper products												
215	paper & paper board	695.00	100.00	336.00	10.00	1235.00	300.00	255.00	20.00	0.00	0.00	040.00
216	paperware	10.00	0.00	0.00	0.00	30.00	47.00	125.00	0.00	0.00	0.00	174.00
217	newsprint	94.00	0.00	0.00	0.00	74.00	0.00	2.00	0.00	0.00	0.00	0.00
218	other paper products	0.00	50.00	0.00	0.00	50.00	0.00	29.00	1.00	0.00	0.00	30.00
Total 29		825.00	240.00	336.00	10.00	1413.00	347.00	411.00	24.00	0.00	0.00	267.00
Group 30 :												
219	wooden piece goods	15.00	10.00	0.00	0.00	34.00	2.00	0.00	0.00	0.00	0.00	2.00
220	artificial silk goods	10.00	40.00	0.00	0.00	50.00	2.00	5.00	0.00	0.00	0.00	7.00
221	wool goods	0.00	0.00	0.00	0.00	11.00	659.00	01.00	900.00	0.00	0.00	1040.00
222	cotton piece goods	70.00	2002.00	0.00	0.00	3070.00	4.00	2030.00	1050.00	0.00	0.00	3091.00
223	other cotton goods	27.00	20.00	0.00	0.00	47.00	20.00	2.00	10.00	0.00	0.00	41.00
224	gunnies	192.00	144.00	0.00	0.00	336.00	37.00	339.00	0.00	0.00	0.00	375.00
225	hessian cloth & other gunnies	40.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
226	other jute manufacture	2.00	0.00	0.00	0.00	2.00	0.00	0.00	7.00	0.00	0.00	7.00
227	silk products	30.00	012.00	0.00	0.00	642.00	0.00	62.00	0.00	0.00	0.00	62.00
228	other textile goods	0.00	37.00	0.00	0.00	57.00	0.00	0.00	7.00	0.00	0.00	7.00
Total 30		399.00	2503.00	0.00	0.00	4910.00	730.00	2019.00	1090.00	0.00	0.00	5037.00
Group 31 : Tobacco Products												
229	beedi	0.00	444.00	0.00	0.00	453.00	2.00	305.00	0.00	0.00	0.00	307.00
230	cigaretts	0.00	2255.00	0.00	0.00	2255.00	0.00	15.00	0.00	0.00	0.00	15.00
231	other tobacco products	12.00	4.00	0.00	0.00	16.00	7.00	5.00	0.00	0.00	0.00	12.00
Total 31		12.00	2703.00	0.00	0.00	2724.00	9.00	425.00	0.00	0.00	0.00	434.00
Group 32 : Consumer durables												
232	fan	100.00	0.00	0.00	0.00	100.00	30.00	0.00	0.00	0.00	0.00	30.00
233	bulbs	00.00	0.00	0.00	0.00	0.00	210.00	0.00	0.00	0.00	0.00	210.00
234	batteries	12.00	300.00	0.00	0.00	370.00	0.00	270.00	0.00	0.00	0.00	270.00
235	refrigerators	71.00	17.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00

	1	2	3	4	5	6	7	8	9	10	11	12
228 radio, tv		8.00	77.00	0.00	0.00	77.00	0.00	34.00	0.00	1.00	35.00	
229 bicycle & parts		4.00	42.00	0.00	0.00	46.00	4.00	97.00	0.00	0.00	103.00	
230 motor vehicle & parts		46.00	409.00	0.00	2.00	457.00	27.00	32.00	11.00	2.00	74.00	
231 three & two wheeler parts		0.00	103.00	0.00	0.00	103.00	0.00	11.00	0.00	0.00	11.00	
232 other vehicle goods		0.00	0.00	27.00	0.00	27.00	0.00	0.00	13.00	0.00	13.00	
233 other electrical goods		143.00	324.00	20.00	0.00	467.00	165.00	312.00	30.00	1.00	500.00	
234 chinaware		1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	
235 leather manufacture		0.00	167.00	0.00	2.00	169.00	0.00	63.00	46.00	0.00	169.00	
Total 32		417.00	1734.00	37.00	4.00	2212.00	463.00	702.00	100.00	14.00	1405.00	

Group 33 : Other Consumer Products

236 malt extract		26.00	21.00	0.00	0.00	47.00	0.00	0.00	0.00	0.00	0.00	
237 bakery products		0.00	167.00	0.00	0.00	169.00	0.00	5.00	0.00	0.00	5.00	
238 confectioneries		0.00	270.00	0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	
239 other food products		0.00	467.00	1.00	0.00	468.00	0.00	57.00	273.00	0.00	338.00	
240 alcohol		21.00	334.00	2.00	0.00	357.00	0.00	311.00	2.00	0.00	313.00	
241 other beverage		0.00	56.00	0.00	0.00	56.00	0.00	0.00	0.00	0.00	0.00	
242 drugs		00.00	0.00	0.00	0.00	00.00	100.00	0.00	0.00	0.00	100.00	
243 medicines		11.00	1377.00	0.00	0.00	1368.00	1.00	105.00	0.00	0.00	106.00	
244 soap		34.00	202.00	0.00	0.00	236.00	220.00	914.00	1.00	0.00	1140.00	
245 matches		4.00	132.00	0.00	0.00	136.00	7.00	26.00	0.00	0.00	33.00	
246 firewoods		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
247 cosmetics		0.00	72.00	0.00	0.00	72.00	0.00	170.00	0.00	0.00	170.00	
248 other chemical products		0.00	0.00	23.00	0.00	23.00	0.00	0.00	0.00	0.00	0.00	
Total 33		107.00	3104.00	24.00	0.00	3111.00	339.00	1000.00	272.00	0.00	2219.00	

Group 34 :

249 hardboard		0.00	1.00	0.00	0.00	1.00	00.00	17.00	0.00	0.00	0.00	55.00
250 plywood		0.00	00.00	0.00	0.00	00.00	0.00	000.00	00.00	0.00	000.00	
251 other wood products		0.00	0.00	0.00	1.00	10.00	0.00	1002.00	10.00	1.00	1313.00	
252 glass & glassware		100.00	93.00	1.00	0.00	104.00	20.00	10.00	0.00	2.00	40.00	
253 paints & varnishes		0.00	412.00	0.00	0.00	421.00	0.00	0.00	0.00	0.00	0.00	
254 polyester fibre		0.00	07.00	0.00	0.00	07.00	0.00	00.00	0.00	0.00	00.00	
255 photogoods		0.00	17.00	0.00	0.00	17.00	0.00	20.00	0.00	0.00	20.00	
256 PVC goods		0.00	77.00	0.00	0.00	77.00	0.00	0.00	0.00	0.00	0.00	
257 other plastic goods		0.00	113.00	10.00	0.00	123.00	0.00	77.00	4.00	0.00	81.00	
258 stationery		0.00	100.00	0.00	0.00	100.00	0.00	14.00	0.00	0.00	14.00	
259 essential oil & perfumes		0.00	0.00	1.00	0.00	1.00	0.00	0.00	74.00	0.00	74.00	
260 other manufactures		4.00	01.00	0.00	0.00	05.00	0.00	10.00	1.00	0.00	11.00	
Total 34		200.00	1100.00	10.00	1.00	1107.00	10.00	2010.00	142.00	0.00	2210.00	

	1	2	3	4	5	6	7	8	9	10	11	12
Group 35 : Parcel												
261 parcel		8.00	13018.00	8.00	8.00	13018.00	8.00	2389.00	8.00	8.00	2389.00	
Total 35		8.00	13018.00	8.00	8.00	13018.00	8.00	2389.00	8.00	8.00	2389.00	
Group 36 : Others												
262 other												
commodities	1522.00	709.00	8.00	8.00	2231.00	1138.00	173.00	8.00	14.00	1325.00		
Total 36	1522.00	709.00	8.00	8.00	2231.00	1138.00	173.00	8.00	14.00	1325.00		
	43392.00	64318.00	35734.00	1364.00	144888.00	33513.00	48948.00	32625.00	7486.00	122492.00		

Appendix B : Regional Trade Account of Kerala 1988-81 (Rs. Lakhs)

	Rail	Road	Foreign ship	Coastal	Total	Rail	Road	Foreign Ship	Coastal	Total	
1	2	3	4	5	6	7	8	9	10	11	12
Group 1 : Mineral Ores											
1 ironore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2 manganese ore	5.67	0.00	0.00	0.00	5.67	0.15	0.00	0.00	0.00	0.15	
3 manganese crude	0.27	0.00	0.00	0.00	0.27	0.00	0.00	2.96	0.00	2.96	
4 ferromanganese	2.56	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00	0.00	
5 magnesite calcined	0.26	0.00	0.00	0.00	0.26	0.26	0.00	0.00	0.00	0.26	
6 rare minerals	0.00	33.37	0.00	0.00	33.37	0.00	25.35	310.35	0.00	343.70	
7 coal	221.49	147.77	0.00	0.00	369.26	0.26	47.43	0.00	0.00	47.69	
8 leca	0.46	41.26	0.00	0.00	41.72	0.28	0.15	0.00	0.00	0.43	
9 others including											
bauxite	2.17	1.70	0.00	0.00	3.87	0.40	1.60	133.46	0.00	135.46	
10 dolomite	0.74	4.62	0.00	0.00	5.36	0.00	0.00	0.00	0.00	0.00	
11 limestone	2.10	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00	
12 gypsum	0.14	0.61	0.00	0.00	0.75	3.10	0.15	0.00	0.00	3.25	
13 china clay	2.72	2.35	0.00	0.00	5.07	0.00	59.52	43.00	0.00	102.52	
14 lime	0.11	27.25	0.00	0.00	27.36	5.09	44.96	0.00	0.00	50.05	
15 other clay	0.00	50.12	0.00	0.00	50.12	0.00	0.20	0.00	0.00	0.20	
16 marble	0.62	0.00	0.00	0.00	0.62	1.30	0.00	0.00	0.00	1.30	
17 ballast	0.00	110.73	0.00	0.00	110.73	0.00	0.90	39.09	0.00	39.99	
18 grinds stone	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
19 sand	0.00	0.71	0.00	0.00	0.71	0.05	201.07	0.00	0.00	201.12	
20 other stone	3.42	0.00	0.00	0.00	3.42	0.29	0.00	0.00	0.13	0.42	
Total 1	230.75	422.55	0.00	0.00	653.30	99.24	301.41	536.94	0.13	897.72	
Group 2 : Crude Petroleum											
21 crude petroleum	0.00	0.00	51644.44	11070.67	62715.11	0.00	0.00	0.00	0.00	0.00	
Total 2	0.00	0.00	51644.44	11070.67	62715.11	0.00	0.00	0.00	0.00	0.00	
Group 3 : Nuts											
22 cashewnuts	0.00	467.72	1302.51	0.00	1770.23	0.00	444.07	0.00	0.00	444.07	
23 betelnut	2.94	37.42	0.00	0.00	40.36	0.43	2317.39	0.00	0.00	2317.82	
24 other nuts	1002.62	133.00	0.00	0.00	1135.62	0.40	00.09	60.09	0.00	1195.71	
Total 3	1005.56	638.14	1302.51	0.00	2946.21	0.83	2358.55	60.09	0.00	2946.97	
Group 4 : Rubber											
25 rubber crude & raw	0.40	0.00	110.53	0.00	110.93	1370.39	14691.02	0.00	0.00	16270.21	
26 rubber scrap	4.90	0.00	0.00	0.00	4.90	43.16	0.00	0.23	0.00	48.09	
27 rubber waste	7.52	0.00	0.00	0.00	7.52	04.00	0.00	0.00	0.00	11.52	
Total 4	12.82	0.00	110.53	0.00	123.35	1418.55	14691.02	0.23	0.00	16329.86	

	2	3	4	5	6	7	8	9	10	11	12
Group 5 : Fibres											
26 cotton	661.85	3785.89	2819.74	0.00	7206.63	1.03	1574.44	486.69	0.00	1982.66	
29 waste cotton	2.30	0.00	0.00	0.00	2.30	7.34	0.00	14.38	0.00	21.72	
30 coir fibre	0.00	1.16	0.00	2.13	3.31	0.00	6.29	12.37	0.00	14.66	
31 silk waste	1.22	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00	0.00	
32 fibre	0.47	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	
33 wool	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total 5	668.78	3786.27	2819.74	2.13	7213.92	8.67	1580.73	506.92	0.00	2146.32	
Group 6 : Oil Seeds											
34 groundnut	14.62	552.00	0.00	0.00	567.60	0.00	0.07	0.00	0.00	0.07	
35 castor seeds	0.07	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	
36 cotton seeds	153.01	176.59	0.00	0.00	329.60	38.45	12.00	0.00	0.00	50.93	
37 rape seed	176.51	0.00	0.00	0.00	176.51	0.00	0.00	0.00	0.00	0.00	
38 gingelly seed	226.04	286.23	0.00	0.00	432.27	0.00	0.18	0.00	0.00	0.18	
39 copra	4.20	31.10	0.00	0.00	44.34	3386.41	5041.19	0.00	0.00	3347.68	
40 other oil seeds	16.17	0.12	0.00	0.00	24.37	0.06	0.00	0.00	0.00	0.06	
Total 6	591.43	977.12	0.00	0.00	1577.67	3344.91	5061.94	0.00	0.00	6446.89	
Group 7 : Forest Products											
41 bidi leaves	223.34	489.42	0.00	0.00	712.76	1.05	02.70	0.00	0.00	0.00	53.95
42 bidi tobacco	0.00	17.26	0.00	0.00	17.26	0.00	17.50	0.00	0.00	0.00	17.80
43 raw tobacco	37.37	2577.24	0.00	0.00	2614.61	10.02	126.22	1867.41	0.00	1186.63	
Total 7	260.91	3084.52	0.00	0.00	3345.93	14.07	177.80	1867.41	0.00	1258.48	
Group 8 : Other Agri. Materials											
44 sugarcane	0.00	122.12	0.00	0.00	122.12	0.00	0.00	0.00	0.00	0.00	0.00
45 bonesraw	54.40	0.00	0.00	0.00	54.40	0.00	0.00	0.00	0.00	0.00	0.00
46 straw and grass	0.25	108.85	0.00	0.00	109.10	0.00	0.00	0.00	0.00	0.00	0.00
47 pulses/husks of grains	2.32	0.00	0.00	0.00	2.32	0.00	0.00	0.00	0.00	0.00	0.00
48 bran	2.00	120.72	0.00	0.00	122.72	4.30	10.67	0.00	0.00	0.00	14.83
49 other feed	0.00	44.88	0.00	0.00	44.88	0.00	10.04	0.00	0.00	0.00	15.04
Total 8	56.82	388.57	0.00	0.00	449.39	5.07	26.31	0.00	0.00	0.00	31.38
Group 9 : Forest Products											
50 firewood	1.00	10.01	0.00	0.00	10.01	0.07	300.40	0.00	0.00	0.00	312.27
51 bamboo	0.01	0.00	0.00	0.00	0.01	16.74	102.09	0.00	0.00	0.00	119.03
52 teak wood	14.00	00.04	0.00	0.00	00.04	37.47	224.32	40.22	0.00	0.00	302.01
53 timber not	151.24	514.83	0.00	0.00	666.07	705.02	2364.34	493.88	24.64	3667.00	
Total 9	126.08	605.38	0.00	0.00	773.76	843.29	2999.95	534.10	24.64	4481.70	
Group 10 : Bovines											
54 hides & skin	0.00	0.00	1.70	0.00	17.01	0.00	404.00	12.12	0.00	0.00	416.45
55 cattle	79.40	1.24	0.00	0.00	80.64	24.23	1.81	0.00	0.00	0.00	26.04
Total 10	80.00	12.00	1.70	0.00	98.22	24.23	406.14	12.12	0.00	0.00	442.49

	1	2	3	4	5	6	7	8	9	10	11	12
Group 11 : Textile & Yarn												
56 jute		8.35	6.00	8.20	8.00	8.35	8.34	8.88	8.00	8.20	8.34	
57 wool		12.47	8.68	8.00	8.00	12.40	1.84	8.88	8.00	8.30	1.84	
58 cotton twist & yarn	5.28	2531.94	66.57	8.20	8.20	2621.61	85.87	1323.44	291.96	8.00	1878.51	
59 wool yarn	1.14	79.36	8.00	8.00	8.00	59.71	224.85	1878.21	578.87	8.00	4213.13	
60 rayon	8.00	78.83	8.00	8.00	8.00	78.83	8.00	9367.78	8.00	8.00	4367.78	
Total 11	19.30	2689.87	66.57	8.00	8.00	2776.35	3549.00	5941.90	1170.65	8.00	18498.00	

Group 12 : Other Agri. Products

61 gmelin	125.91	8.00	32.87	8.00	125.91	8.00	3.30	8.00	8.00	8.00	3.30	
62 cotton seed oil	8.00	58.79	8.00	8.00	58.79	8.00	8.00	8.00	8.00	8.00	8.00	
63 castor oil	32.32	69.79	8.00	8.00	102.11	8.00	1.80	8.00	8.00	8.00	1.80	
64 cashew oil	8.00	116.25	8.00	8.00	116.25	8.00	38.55	387.98	8.00	8.00	426.51	
65 lemon grass oil	8.00	9.38	8.00	8.00	9.38	8.00	34.91	263.54	8.00	8.00	238.45	
66 other oils	8.00	18.94	8.00	8.00	18.94	8.00	8.00	8.00	8.00	8.00	8.00	
67 fish oil	8.00	8.00	222.78	8.00	222.78	8.00	2.06	2.06	8.00	8.00	4.30	
68 coconut cake	12.31	50.75	8.00	8.00	63.04	241.50	115.67	8.00	8.00	8.00	357.00	
69 groundnut cake	542.58	1827.66	8.00	8.00	2372.16	2.34	4.66	8.00	8.00	8.00	7.82	
70 cotton seed cake	8.75	19.42	8.00	8.00	28.17	8.00	8.17	8.00	8.00	8.00	8.00	
71 gingely cake	8.53	297.94	8.00	8.00	306.87	8.00	8.17	8.00	8.00	8.00	8.17	
72 mustard cake	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
73 castor cake	8.70	8.00	8.00	8.00	8.70	1.12	8.00	8.00	8.00	8.00	1.12	
74 other cakes	25.86	8.00	8.00	8.00	29.86	6.58	8.00	8.00	8.00	8.00	6.58	
75 leather tanned	8.00	14.15	8.00	8.00	14.15	8.00	158.83	8.00	8.00	8.00	158.83	
76 leather scrap	8.77	8.00	8.00	8.00	8.77	8.00	8.00	8.00	8.00	8.00	8.00	
77 pulp	75.35	32.75	75.18	8.00	168.46	2182.46	337.95	37.72	8.00	8.00	2560.13	
78 paper waste	9.57	78.11	8.00	8.00	87.68	7.48	151.81	8.00	8.00	8.00	158.69	
79 splints & veneers	8.00	8.00	8.00	8.00	8.00	8.00	1281.58	8.00	8.00	8.00	1281.58	
80 charcoal	61.38	2.88	8.00	8.00	83.46	18.35	8.00	8.00	8.00	8.00	18.35	
81 molasses	33.77	3.21	8.00	8.00	36.98	8.00	8.13	8.00	8.00	8.00	8.13	
82 cattle feed	17.48	1266.97	8.00	8.00	1284.57	2.61	16.92	8.00	8.00	8.00	27.84	
83 ossein	8.00	8.00	8.00	8.00	8.00	8.00	8.00	341.22	8.00	8.00	341.22	
Total 12	771.75	3789.15	311.85	8.00	5884.76	2485.89	2148.98	772.58	8.00	8.00	5377.40	

Group 13 : Metals

84 iron & steel	6173.81	6626.52	8.00	8.00	12800.32	1171.51	2213.69	8.00	8.47	8.00	3414.87	
85 brass	25.76	4.65	8.00	8.00	28.66	8.00	5.83	8.00	8.00	8.00	5.83	
86 tin	2.48	338.35	8.00	8.00	338.83	8.62	35.18	8.00	8.00	8.00	35.18	
87 copper	8.49	29.13	8.00	8.00	27.62	8.20	3.55	8.00	8.00	8.00	3.75	
88 zinc	8.00	111.75	232.63	8.00	344.38	75.48	55.97	8.00	8.00	8.00	149.45	
89 alumina	3481.97	15.75	8.00	8.00	3425.72	8.00	845.28	8.00	8.00	8.00	845.28	
90 aluminium	414.95	5.38	8.00	8.00	422.57	133.55	526.41	8.00	8.00	8.00	659.96	
91 lead	8.28	26.28	8.00	8.00	28.56	8.00	2.17	8.00	8.00	8.00	2.17	
92 other minerals	7.31	8.00	1366.46	8.00	1373.77	1.06	8.00	8.00	2.61	8.00	3.87	
Total 13	9833.88	7157.64	1599.87	8.00	17778.68	1422.82	3686.88	8.00	11.88	8.00	5119.58	

	1	2	3	4	5	6	7	8	9	10	11	12
Group 14 : Mineral oils												
93 diesel oil		185.38	37.81	1265.64	104.95	1573.73	12660.49	1823.83	0.00	0.00	11833.53	
94 kerosene		0.39	16.20	0.00	424.10	444.07	2691.49	74.54	0.00	3447.70	11415.75	
95 petrol		110.44	39.82	0.00	502.65	654.99	1972.83	1867.91	0.00	792.35	4635.82	
96 fuel oil		1.13	8.57	79.68	0.00	89.38	0.78	684.63	0.00	2859.74	3345.15	
97 lubricating oil		358.14	188.68	0.00	1.91	578.73	51.47	22.41	0.00	44.21	110.89	
98 lga		0.25	30.33	0.00	0.00	58.58	0.00	105.42	0.00	0.00	105.42	
99 tar coke bitumen		569.11	394.82	118.56	0.00	1081.69	14.72	62.30	0.00	0.00	76.92	
00 other mineral oil		58.83	137.20	0.00	0.00	206.03	7101.18	0.19	1876.28	0.00	8199.57	
781 naphtha		13.17	0.00	0.00	463.85	476.22	0.00	0.00	0.00	2777.89	2777.89	
Total 14		1345.85	777.89	1463.80	1496.56	5005.30	22692.96	3852.33	1890.28	14921.03	42556.52	

Group 15 : Chemicals												
102 acids		1.75	99.82	0.00	0.00	181.37	4.37	27.71	0.00	0.00	32.08	
103 soda caustic		152.75	209.30	0.00	0.00	362.93	69.87	264.72	0.00	0.00	354.59	
104 soda ash		161.17	24.56	0.00	0.00	285.73	0.00	1.46	0.00	0.00	1.46	
105 carbon black		183.91	715.37	0.00	0.00	819.28	0.33	11.80	0.00	0.00	12.21	
106 spirit		0.00	29.93	0.00	0.00	29.93	0.00	39.54	0.00	0.00	39.59	
107 gas		0.02	23.41	0.00	0.00	23.43	0.00	2057.85	0.00	0.00	2069.86	
108 sulphur		0.00	58.41	2294.68	0.00	2345.81	0.00	51.47	0.00	0.00	51.67	
109 titanium dioxide		0.00	1.41	0.00	0.00	1.41	0.00	1426.70	0.00	0.00	1426.70	
110 chemicals		0.18	1478.98	1891.82	0.00	2512.82	15.47	1800.83	66.77	0.12	1961.21	
111 insecticides		0.00	132.16	0.00	0.00	132.16	0.00	238.39	0.00	0.00	238.39	
112 colours & dyes		1.55	1.59	0.00	0.00	3.14	0.00	0.00	0.00	0.00	0.00	
113 tanning extracts		0.52	0.68	0.00	0.00	0.52	16.26	0.66	0.00	0.00	16.26	
Total 15		941.74	2758.66	3536.42	0.00	6537.82	184.56	6823.81	96.79	0.12	8215.28	

Group 16 : Fertiliser												
114 bone meal		327.34	10.81	0.00	0.00	377.35	0.00	0.00	25.72	0.00	23.72	
115 fish meal		0.00	0.00	0.00	0.00	0.00	1.90	0.00	0.00	0.00	1.90	
116 organic manure chemical fertilisers		0.00	35.88	0.00	0.00	41.94	0.00	43.08	0.00	0.00	43.11	
Total 16		1354.84	355.75	3921.12	0.00	5633.71	2277.08	2276.63	0.00	1.54	7515.25	
		1699.34	481.64	3921.12	0.00	6813.83	5275.56	2268.81	23.72	1.54	7584.63	

Group 17 : Clay products												
118 cement		2278.29	6097.86	827.88	2.57	7285.71	198.83	254.44	0.00	16.52	469.81	
119 asbestos		416.79	543.41	20.48	0.00	1180.68	3.00	0.48	0.00	0.00	11.41	
120 cement products		48.87	0.00	0.00	0.00	48.87	0.00	0.00	0.00	0.00	0.00	
121 bricks		0.00	32.74	0.00	0.00	32.74	0.00	24.29	0.00	0.00	24.3	
122 refractory bricks		0.43	0.00	0.00	0.00	0.43	0.60	0.00	0.00	0.00	0.60	
123 tiles roofing		0.00	64.95	0.00	0.00	64.95	31.61	618.04	0.00	0.00	684.56	
124 other tiles		4.71	0.00	0.00	0.00	4.71	0.00	0.00	0.00	0.00	0.00	
125 stoneware		9.55	0.00	0.00	0.00	9.55	0.50	0.00	0.00	0.00	0.50	
126 sanitary goods		0.00	275.87	0.00	0.00	275.87	0.00	7.34	0.00	0.00	7.34	
127 other constr material		3.94	196.50	0.00	0.00	201.72	0.00	0.00	0.00	0.00	0.00	
Total 17		2768.58	7327.63	848.36	2.57	18942.37	254.83	916.57	0.00	23.38	1184.2	

	2	3	4	5	6	7	8	9	10	11	12
Group 18 : Machinery & Equipment											
25 agricultural											
machinery	21.81	16.45	8.88	8.88	31.65	14.59	9.12	8.88	8.88	8.88	23.71
29 hospital &											
scientific goods	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88
30 office equipment	8.88	286.77	169.51	8.88	456.28	2.88	121.61	274.26	26.58	422.45	
31 telephone goods	8.88	52.33	8.88	8.88	52.33	8.88	3.19	8.88	8.88	8.88	3.19
32 other light											
machinery	8.88	61.39	8.88	8.88	61.39	8.88	28.88	8.88	8.88	8.88	28.88
33 other machinery	766.38	2584.36	1491.21	8.75	4762.62	575.97	1222.41	964.86	26.59	2789.83	
34 cables & wires	8.88	238.91	8.88	8.88	238.91	8.88	771.44	8.88	8.88	8.88	771.44
35 power equipment	8.88	478.45	8.88	8.88	478.45	8.88	338.58	8.88	8.88	8.88	338.58
36 motor supports	44.17	53.34	8.88	8.88	97.51	5.77	8.96	8.88	8.88	8.88	6.73
Total 18	831.48	3678.28	1668.72	8.75	6171.15	596.32	2495.39	1239.12	53.17	4384.88	
Group 19 : Metal Wares											
137 brassware	7.54	1.53	8.88	8.88	9.67	8.88	1.83	8.88	8.88	8.88	1.83
138 tinware	2.83	8.88	8.88	8.88	2.83	32.28	8.88	8.88	8.88	8.88	32.28
139 copperware	27.99	165.84	8.88	8.88	192.94	35.83	85.18	8.88	8.88	8.88	128.13
140 leadware	13.44	8.88	8.88	8.88	13.44	8.88	8.88	8.88	8.88	8.88	8.88
141 aluminiumware	33.26	961.27	8.88	8.88	994.53	382.68	7626.25	8.88	8.88	8.88	7928.83
142 hardware	8.88	41.88	8.88	8.88	41.88	8.88	3.66	8.88	8.88	8.88	3.66
143 containers	8.88	197.36	8.88	8.88	197.36	8.88	177.89	8.88	8.88	8.88	177.89
144 wirenetscreens	8.88	1.88	8.88	8.88	1.88	8.88	3.12	8.88	8.88	8.88	3.12
145 pipefittings	8.88	386.49	8.88	8.88	386.49	8.88	48.69	8.88	8.88	8.88	48.69
146 other metal products	8.88	7.56	8.88	1.44	9.88	9.88	8.88	8.88	8.88	5.87	5.93
Total 19	84.96	1765.92	8.88	1.44	1852.33	369.92	7946.88	8.88	5.87	8322.59	
Group 20 : Foodgrains											
147 paddy	482.89	396.96	8.88	8.88	879.85	8.88	518.97	8.88	8.88	8.88	518.97
148 rice	25798.31	18623.64	8.88	8.88	37421.95	348.87	898.33	8.88	69.93	1328.85	
149 wheat	2385.58	88.27	8.88	8.35	2486.12	11.83	27.86	8.88	1.18	43.79	
150 other grains	11.69	4.93	48.59	8.88	65.21	11.41	8.88	8.88	8.88	8.88	11.41
151 grains	451.15	8.88	8.88	8.88	451.15	7.57	8.88	8.88	8.88	8.88	7.57
152 pulses other											
than gram	1382.24	1168.85	8.88	8.88	2550.31	1.22	57.31	8.88	8.88	8.88	38.53
153 rice flour & others	2.44	259.84	8.88	8.88	261.48	8.88	8.34	8.88	8.88	8.88	8.34
154 wheat flour & others	74.48	1281.98	8.88	8.88	1356.46	8.88	3.27	8.88	8.88	8.88	3.27
155 gram flour	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88
156 other flours	8.88	8.88	8.88	8.88	8.88	8.88	14.47	8.88	8.88	2.89	
157 starch	2.78	28.88	8.88	8.88	38.78	384.28	47.74	8.88	8.88	8.88	351.94
Total 20	31591.48	18242.87	48.59	8.37	45483.31	696.98	1547.99	8.88	75.92	2318.29	
Group 21 : Spices											
158 pepper	8.88	23.88	8.88	8.88	23.88	48.13	2893.41	3848.52	8.88	8.88	5998.86
159 turmeric	8.88	28.79	8.88	8.88	28.68	1.12	1.31	114.99	8.88	8.88	117.92
160 chillis	7.53	1615.44	8.88	8.88	1622.97	8.43	8.88	182.46	8.88	8.88	111.71
161 cardamom	4.98	345.82	8.88	8.88	358.68	3.73	2721.17	357.86	8.88	8.88	3292.76
162 ginger dry	8.17	3.98	8.88	8.88	4.15	42.35	435.36	225.78	8.88	8.88	783.42
163 cumin	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88	8.88
164 coriander	8.88	278.41	8.88	8.88	278.41	8.88	12.42	8.88	8.88	8.88	12.42
165 garlic	8.88	23.55	8.88	8.88	23.53	8.88	8.88	8.88	8.88	8.88	8.88
166 otherspices	8.88	2.88	8.88	8.33	3.18	8.26	5.63	12.86	8.88	8.88	18.75
Total 21	14.18	1534.55	8.88	8.32	2349.42	96.83	6878.62	4862.47	8.88	8.88	18237.12

	1	2	3	4	5	6	7	8	9	10	11	12
Group 22 : Other primary goods												
167 mangoes	0.00		1.50	0.00	0.00	1.50	1.20	25.36	0.00	0.00	0.00	26.56
168 plantains	0.00		708.88	0.00	0.00	708.88	0.00	24.39	0.00	0.00	0.00	24.39
169 other fruits	0.00		454.68	2.23	0.54	457.37	0.00	09.67	247.43	0.00	0.00	337.98
170 dried fruits	4.18		0.00	0.00	0.00	4.18	1.24	0.00	0.00	0.00	0.00	1.24
171 vegetables	0.00		1609.73	0.00	0.00	1609.73	0.00	124.92	0.00	0.00	0.00	124.92
172 coconuts fresh	0.00		51.79	0.00	0.45	52.24	0.00	1398.10	0.00	0.00	0.00	1398.10
173 potato	0.25		98.82	0.00	0.00	99.07	0.00	3.27	0.00	0.00	0.00	3.27
174 onion		13.75	529.59	0.00	0.00	543.34	0.00	3.25	0.00	0.00	0.00	3.25
175 tapioca	0.00		18.83	0.00	0.00	18.83	0.00	441.74	0.00	0.00	0.00	441.74
176 other fruits & vegetables	0.00		17.81	0.00	0.00	17.81	0.00	38.78	0.00	0.00	0.00	38.78
177 milk & egg	0.00		461.27	0.00	0.00	461.27	0.00	3.79	0.00	0.00	0.00	3.79
178 fresh fish	2.38		0.00	0.00	0.00	2.38	0.00	8.60	0.00	0.00	0.00	8.60
179 dry fish	0.00		4.92	0.00	0.00	4.92	0.04	4.17	0.00	0.00	0.00	4.21
180 meat	3.84		23.44	0.00	0.00	27.28	0.00	172.90	0.00	0.00	0.00	172.90
181 tamarind	0.00		89.27	0.00	0.00	89.27	0.00	18.68	16.39	0.00	0.00	27.07
182 groceries	0.04		3436.37	0.00	0.00	3436.41	0.77	24.31	0.00	0.00	0.00	25.08
183 provisions	29.00		129.82	732.38	0.00	891.98	143.00	8.17	412.80	9.53	565.50	
184 salt	29.17		428.41	0.00	0.00	457.58	18.00	8.66	0.00	0.22	18.96	
185 tooth powder	47.56		0.87	0.00	0.00	48.43	0.00	0.00	0.00	0.00	0.00	
186 ghee	0.02		72.43	0.00	0.00	72.43	0.00	2.22	0.00	0.00	0.00	2.22
187 other milk products	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total 22		138.85	8318.35	734.51	0.99	9884.78	164.32	2352.38	676.62	10.55	3203.87	
Group 23 : Marine products												
188 frozen fish	0.00		2823.72	0.00	1.87	2825.59	0.00	111.96	9663.65	0.00	0.00	9775.61
189 frog legs	0.00		292.22	0.00	0.00	292.22	0.00	0.00	742.36	0.00	0.00	742.36
Total 23		0.00	3115.94	0.00	1.87	3117.81	0.00	111.96	10406.01	0.00	0.00	10517.97
Group 24 : Tea & Coffee												
190 tea		37.00	5264.21	0.00	0.00	5301.21	142.14	2566.49	8777.56	0.14	11486.33	
191 coffee		5.28	3492.32	0.00	0.00	3497.60	42.38	2837.31	4224.49	0.00	7184.38	
192 others		0.00	4.38	0.00	0.00	4.38	0.00	0.00	0.00	0.00	0.00	
Total 24		42.28	8760.91	0.00	0.00	8803.11	184.44	5404.80	13002.05	0.14	18590.63	
Group 25 : Cashew												
193 cashew kernels	0.00		4225.66	0.00	0.00	4225.66	0.00	1788.54	13221.00	0.00	15010.34	
Total 25		0.00	4225.66	0.00	0.00	4225.66	0.00	1788.54	13221.00	0.00	15010.34	
Group 26 : Edible oil												
194 hydrogenated oil	1.52		586.36	0.00	0.00	587.88	4.86	3.68	0.00	0.00	0.00	8.54
195 groundnut oil	0.00		282.04	0.00	0.00	282.04	1.86	38.10	0.00	0.00	0.00	39.96
196 mustard oil	1.82		0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00
197 coconut oil	3.88		126.33	0.00	0.00	130.11	1381.65	7939.11	0.00	0.25	9241.81	
198 gingelly oil	0.00		277.95	0.00	0.00	277.95	0.00	5.84	0.00	0.00	0.00	5.84
199 other oils	1451.87		763.15	279.06	0.00	2495.28	22.83	16.97	26.00	6.85	72.45	
Total 26		1457.58	1955.73	279.06	0.00	3672.29	1331.00	8002.90	26.00	7.10	9367.81	

	2	3	4	5	6	7	8	9	10	11	12
Group 27 : Sugar											
200 sugar	261.81	5665.50	0.00	1.41	9825.93	0.00	25.98	0.00	21.53	47.50	
201 sugar cane	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	
202 khandsari sugar	19.00	0.00	0.00	0.00	69.20	9.40	0.00	0.00	0.00	9.40	
203 gur sorghum	41.30	2493.33	0.00	0.00	2534.72	14.97	13.97	0.00	0.00	20.94	
204 glucose	0.00	292.89	0.00	0.00	292.89	110.40	200.11	0.00	0.00	320.51	
Total 27	422.36	11449.72	0.00	1.41	11923.74	142.77	240.06	0.00	21.53	412.35	
Group 28 : Rubber products											
205 tyres & tubes	185.84	2070.70	0.00	0.00	2305.43	1165.49	5456.05	0.00	0.00	6621.54	
206 other rubber products	0.00	1763.45	14.59	0.00	1010.41	20.30	1453.04	105.00	0.00	1577.17	
Total 28	185.84	4834.15	14.59	0.00	4315.84	1185.79	6909.09	105.00	0.00	8198.71	
Group 29 : Paper products											
207 cover board	554.22	1130.10	1060.50	0.00	3952.06	245.06	2235.23	0.00	0.00	2490.77	
208 paperware	19.10	0.00	0.00	0.00	19.10	42.17	0.00	0.00	0.00	42.17	
209 newsprint	350.64	0.00	0.00	0.00	350.64	105.77	33.75	0.00	0.00	139.73	
210 other paper products	0.00	9.74	0.00	0.00	9.74	0.00	0.00	0.00	2.05	2.05	
Total 29	1304.56	1139.84	1060.50	0.00	4332.54	393.03	2269.23	0.00	2.05	2675.32	
Group 30 :											
211 wooden piece goods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
212 artificial silk goods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
213 cotton goods	20.94	11.00	0.00	0.00	31.97	620.54	105.40	1650.25	0.00	2507.32	
214 cotton piece goods	20.94	5075.49	1.12	0.00	5100.43	0.70	2700.00	2000.00	0.11	4714.72	
215 other cotton goods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
216 junnies	20.50	142.54	0.00	0.00	171.07	24.49	572.00	0.00	0.00	597.35	
217 hosiery & other goods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
218 other jute manufactures	1.10	334.00	0.00	0.00	335.10	0.01	3.00	1.70	0.00	5.31	
219 silk products	0.00	36.31	0.00	0.00	36.31	6.45	0.40	0.00	0.00	7.10	
220 other textile goods	0.00	25.43	0.00	0.00	25.43	0.00	0.00	0.00	0.00	0.00	
Total 30	47.54	5420.87	1.12	0.00	5767.84	690.56	3467.70	4749.65	0.11	9005.00	
Group 31 : Tobacco Products											
221 beedi	0.00	575.11	0.00	0.00	575.11	0.00	477.01	0.00	0.00	477.01	
222 cigarettes	0.00	4007.33	0.00	0.00	4007.33	17.02	9.33	0.00	0.00	26.35	
223 other tobacco products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total 31	0.00	4582.44	0.00	0.00	4582.44	17.02	486.34	0.00	0.00	503.36	
Group 32 : Consumer Durables											
224 fan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
225 bulbs	213.01	0.00	0.00	0.00	213.01	42.07	0.00	0.00	0.00	42.07	
226 batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
227 refrigerators	1007.00	111.25	0.00	0.00	1118.25	7.25	1.25	0.00	0.00	8.50	
228 radio, tv	0.00	74.75	0.00	0.00	74.75	0.00	40.51	0.00	0.00	40.51	
229 bicycle & parts	211.70	0.00	0.00	0.00	211.70	21.35	129.01	0.00	0.00	158.06	
230 motor vehicle & parts	0.00	0.00	0.00	0.00	0.00	0.00	196.77	516.02	0.00	712.79	
231 three & two wheeler parts	0.00	0.00	0.00	0.00	0.00	0.00	27.35	0.00	0.00	27.35	

1	2	3	4	5	6	7	8	9	10	11	12
232	other vehicle goods	0.00	0.00	0.00	21.60	21.60	0.00	0.00	0.00	39.13	39.13
233	other electrical goods	1410.72	2149.02	0.00	0.00	3559.75	3467.15	1390.46	0.00	0.00	4857.63
234	chinaware	2.53	18.42	0.00	0.00	20.95	0.00	19.12	0.00	0.00	19.12
235	leather manufacture	31.16	65.41	0.00	0.00	96.57	7.20	19.69	33.44	0.00	62.33
Total 32		3000.60	5419.32	74.09	21.60	8604.58	3569.99	2231.16	549.46	41.19	6391.00
Group 33 : Other Consumer Products											
236	salt extract	42.83	148.60	0.00	0.00	191.43	0.00	0.00	0.00	0.00	0.00
237	bakery products	0.00	862.49	0.00	0.00	862.49	0.00	43.13	0.00	0.00	43.13
238	confectioneries	0.00	298.42	0.00	0.00	298.42	0.00	1.74	0.00	0.00	1.74
239	other food products	0.00	1117.64	0.00	0.00	1117.64	0.00	1.48	0.00	0.00	1.48
240	alcohol	2.77	1898.60	4.17	0.00	1905.54	0.00	654.79	0.00	0.00	654.79
241	other beverage	0.00	6.65	0.00	0.00	6.65	0.00	3.48	0.00	0.00	3.48
242	drugs	84.43	16.79	0.00	0.00	101.42	112.79	84.38	0.00	0.00	197.17
243	medicines	47.13	2473.11	0.45	0.00	2528.69	0.22	144.63	77.95	3.00	225.00
244	soap	185.72	1754.12	0.00	0.00	1939.04	23.30	3851.24	9.60	0.00	3884.14
245	matches	0.94	316.92	0.00	0.00	317.86	11.60	60.56	0.00	0.00	72.24
246	firewoods	12.47	20.92	0.00	0.00	33.39	0.00	0.38	0.00	0.00	0.38
247	cosmetics	0.00	507.04	0.00	0.00	507.04	0.00	0.22	0.00	0.00	0.22
248	other chemical products	0.00	61.05	0.00	0.00	61.05	0.00	6.72	0.00	0.30	9.10
Total 33		376.30	9476.55	12.62	0.00	9865.47	147.99	4854.67	87.55	3.30	5093.59
Group 34 :											
249	hardboard	0.92	2.36	0.00	0.00	3.28	152.79	0.76	1.24	0.00	162.79
250	plywood	0.00	199.06	0.00	0.00	199.06	0.00	1187.91	55.22	0.00	1243.13
251	other wood products	0.00	434.12	0.00	0.00	434.12	0.00	1617.33	140.93	0.00	1758.26
252	glass & glassware	241.50	329.06	2.16	0.00	572.71	0.62	31.15	0.00	0.00	39.97
253	paints & varnishes	18.09	830.95	0.00	0.00	649.04	14.26	13.62	0.00	2.35	30.43
254	polyester fibre	0.00	350.57	33.22	0.00	383.79	0.00	56.40	0.00	0.00	56.40
255	photo goods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	pvc goods	0.00	167.83	0.00	0.00	167.83	0.00	3.52	0.00	0.00	3.52
257	other plastic goods	0.00	382.48	0.00	0.00	382.48	0.00	73.90	0.00	0.00	73.90
258	stationery	0.00	147.36	0.00	0.00	147.36	0.00	1.77	0.00	14.30	16.07
259	essential oil & perfume	0.00	0.00	0.00	0.00	0.00	0.00	0.00	239.47	0.00	239.47
260	other manufactures	0.15	240.75	0.00	0.00	240.90	0.30	456.81	0.00	0.00	456.39
Total 34		261.45	3004.54	35.38	0.00	3301.37	176.25	3450.57	436.86	16.65	4000.33
Group 35 : Parcel											
261	parcel	0.00	58363.71	0.00	0.00	58363.71	0.00	13432.76	0.00	0.00	13432.76
Total 35		0.00	58363.71	0.00	0.00	58363.71	0.00	13432.76	0.00	0.00	13432.76
Group 36 : Others											
262	other commodities	1165.00	20636.41	76.09	7.96	21007.14	2062.54	11664.12	294.50	53.05	14075.02
Total 36		1165.00	20636.41	76.09	7.96	21007.14	2062.54	11664.12	294.50	53.05	14075.02

Appendix C - Estimates of Prices of Commodities Transported
Through Railways

Sl. No.	Name of the Commodity	Price per tonne (Rs.)			
		1975-76		1980-81	
		Inward	Outward	Inward	Outward
1	2	3	4	5	6
1.	Paddy	1333		1507	
2.	Rice	1952	1952	2245	2245
3.	Rice flour			2245	2245
4.	Rice branched	2978	2978	3425	3425
5.	gram	2027	2027	3609	3609
6.	Pulses other than gram	2027	2027	3609	3609
7.	Gram flour	2676	2676	4764	4764
8.	wheat	1702	1702	1880	1880
9.	wheat flour	2021	2021	1925	1925
10.	Wheat bulgar			1925	1925
11.	Jowar	1252	1252	1385	1385
12.	Bajra	971	971	1341	1341
13.	Bajra flour	1205	1205	1662	1662
14.	Maize	1347	1347	1603	1603
15.	Ragi	1312	1312	1334	1334
16.	Other grains	1422	1422	1631	1631
17.	Other flours	2133	2133		
18.	Groundnut with shell	1749	1749	3045	3045
19.	Groundnut without shell	2363	2363	4115	4115
20.	Other oil seeds	2578	2578	3251	3251
21.	Castor seeds	1762	1762	3026	3026
22.	Cotton seeds	1707	1707	2446	2446
23.	Rape seeds	2609	2609	5872	5872
24.	Singally seeds	3266	3266	5323	5323
25.	Copra	4590	5764	9389	11630
26.	Cotton raw	11832	11806	15210	14147
27.	Waste cotton	2027	2027	2606	2606
28.	Jute raw	1549	1549	1771	1771
29.	langues	986	986	1501	1501
30.	Other fruits fresh	2777	572	4226	872
31.	Vegetable fresh	500	345	597	526
32.	Coconuts fresh		2910		5951
33.	Potato	873		1410	
34.	Onions	1210	1210	851	851
35.	Sugarcane	115	115	175	175
36.	Bran	443	687	560	868
37.	Husk of grain & pulses	222	343	260	434
38.	Grass green & dry	191	191	241	241
39.	Other fodder including cake	1003	1003	1359	1359
40.	Coconut oil cake	1205	1520	2284	2882
41.	Groundnut oil cake	1166	1168	2111	2111
42.	Cotton seed oil cake	875	875	1450	1450
43.	Singally oil cake	1309	1309	2001	2001
44.	Mustard oil cake	600	600	1450	1450
45.	Castor oil cake	500	500	725	725
46.	Other oil cake	906	1001	1625	1711
47.	Tobacco manufactured	17050	17050	13893	13893
48.	Horned cattle	6913	6913	10678	10678

1	2	3	4	5	6
49.	Skins or pelts wet	2897	2897	5553	5553
50.	Bone meal sterilised	957	957	1517	1517
51.	Bones raw	497	497	759	759
52.	Coal	293	293	540	540
53.	Leco	411	411	576	576
54.	Marble tiles			7105	7105
55.	Marble powder			7105	7105
56.	Marble chips			7105	7105
57.	Marble blocks			7105	7105
58.	Dolomite	98	98	115	115
59.	Linestone	98	98	115	115
60.	Gypsum	61	61	70	70
61.	Ballast	37	37	63	63
62.	Grindstone	292	292	359	359
63.	Other stones	117	117	144	144
64.	Stoneware pipes	1120	1120	1337	1337
65.	Other stoneware	1120	1120	1337	1337
66.	Manganese ore	126	126	214	214
67.	Iron ore	77	77	98	98
68.	Magnesite & Magnesite oxide	150	150	275	275
69.	Ferro manganese	557	557	1056	1056
70.	Manganese calcined	557	557	1056	1056
71.	Other ores	260	2106	315	2543
72.	Sand	12	12	24	24
73.	Diesel oil	1010	1010	2099	2099
74.	Kerosene	1422	1422	1682	1682
75.	Petrol	3622	3622	5505	5505
76.	Other fuel oil	836	836	1946	1946
77.	Crude oil	743	743	2061	2061
78.	Lubricating oil	8350	8350	11250	11250
79.	Other mineral oil dangerous	2988	2988	4497	4497
80.	Other mineral oil non-dangerous	2988	2988	4497	4497
81.	Liquid petroleum gas	1551	1551	2052	2052
82.	Coal tar	1060	1060	2595	2595
83.	Petroleum coke	1060	1060	2595	2595
84.	Bitumen	1060	1060	2595	2595
85.	Mineral turpentine	3597	3597	5352	5352
86.	Naptha solvent	1769	1769	2845	2845
87.	Charcoal fuel	135	135	369	369
88.	Firewood	90	90	246	246
89.	Bamboo	269	269	665	665
90.	Teak wood	616	616	1525	1525
91.	Timber NDC	347	347	859	859
92.	Lac	7640	7640	16000	16000
93.	Bidi leaves	2467	2467	4886	4886
94.	Sugar	3841	3841	4614	4614
95.	Sugar candy	7682	7682	9228	9228
96.	Khandasari sugar	3200	3200	5125	5125
97.	Gur, jagari, sarkara	2183	2183	4090	4090
98.	Molasses	2334	2334	4374	4374
99.	Glucose	4410	4410	6590	6590
100.	Salt	63	63	120	120
101.	Tea	884	10404	10928	14654

1	2	3	4	5	6
102.	Soap	7659	7659	9780	9780
103.	Matches	6426	6426	8585	8585
104.	Tobacco indigenous	26069	26069	36036	36036
105.	Seedies	25226	25226	31040	31040
106.	Hydrogenated oil	9574	9574	12649	12649
107.	Groundnut oil	5864	5864	8989	8989
108.	Mustard oil			5392	5392
109.	Coconut oil	7711	7711	15538	15538
110.	Linseed oil	5278	5278	8063	8063
111.	Caster oil	5229	5229	7085	7085
112.	Other edible oils	6931	6931	9614	9614
113.	Cotton twist & yarn	11244	17522	18847	28176
114.	Cotton piece goods	42157	15759	61503	22991
115.	Other cotton mfg.	63235	23639	92256	34987
116.	Gunnies sack	1980	1980	2957	2957
117.	Hessian cloth	4640	4640	6930	6930
118.	Other gunnies	4640	4640	6930	6930
119.	Other jute mfg.	4640	7769	6930	11603
120.	Hides & skin tanned	19475	19475	38521	38521
121.	Other leather mfg.	32823	32823	60010	60010
122.	Leather scrap	19475	19475	38521	38521
123.	Rubber tube & tyres	19879	19879	33028	33028
124.	Rubber & synthetic rubber manufactures	13615	13615	19202	19202
125.	Rubber goods unserviceable	6808	6808	8468	8468
126.	Woolen piece goods	113007	113007	137600	137600
127.	Artificial silk goods	21752	23097	22783	36000
128.	Cair rope/yarn	3488	3488	5179	5179
129.	Other cair	3836	5836	9049	9049
130.	Cement	358	358	544	544
131.	Asbestos	2328	2328	3611	3611
132.	Cement tiles	1859	1859	2540	2540
133.	Other cement mfg.	1859	1859	2540	2540
134.	Common bricks	132	132	232	232
135.	Bricks refractory	1075	1075	2285	2285
136.	Tiles flooring	196	196	428	428
137.	Tiles roofing	196	196	428	428
138.	Ornamented tiles	2894	2894	4856	4856
139.	China ware	5789	5789	9712	9712
140.	Iron & steel	2659	3800	4007	5637
141.	Agri. implements	6908	6908	10115	10115
142.	Bicycles	12245	12245	15350	15350
143.	Motor cars	37643	37643	67754	67754
144.	Iron & steel scrap	1625	1625	2411	2411
145.	Machinery non electrical	18251	18251	25315	25315
146.	Electrical fan	45472	45472	52794	52794
147.	Electrical motors	18731	18731	22445	22445
148.	Bulbs	54375	54375	72040	72040
149.	Batteries	15867	15867	23971	23971
150.	Electrical goods	14463	14463	17816	17816
151.	Glassware	3823	3823	5443	5443
152.	Glass tiles	3823	3823	5443	5443
153.	Brass sheets	26330	26330	36950	36950
154.	Brass ingots	26330	26330	36950	36950
155.	Brassware	38529	38529	50252	50252

1	2	3	4	5	6
156.	Brass scrap	20964	20964	27343	37343
157.	Tin pellets, rod, plates	5148	5148	9848	9848
158.	Tinware	5148	5148	9848	9848
159	Tin scrap	2013	2013	2013	2013
160	Copper pellets, rods, plates	33408	33408	49146	49146
161	Copperware	44099	44099	64873	63873
162	Copper scrap	22049	22049	32436	32436
163	Zinc ingots & slabs	12538	12538	11923	11923
164	Zinc ware	12538	12538	11923	11923
165	Lead ingots/slabs	6530	6530	13915	13915
166	Leadware	11942	11942	19481	19481
167	Lead scrap	6372	6372	10436	10436
168	Other non ferrous metal	34539	34539	55828	55828
169	Aluminium ingots	10688	10688	16411	16411
170	Aluminium ware	21425	21425	31643	31643
171	Aluminium scrap	8294	8294	12151	12151
172	Aluminium sheets	17279	17279	25315	25315
173	Paper NDC rolls or reels	4937	4937	6942	6942
174	Paper ware (other than stationery)	5349	5349	7530	7530
175	Paper waste & cuttings	569	569	612	612
176	Pulp & pulp sheets	4769	4769	6895	6895
177	Pulp board in bales	4769	4769	6895	6895
178	Paper board	2736	2736	4172	4172
179	Paper cases, spools, tubes etc.	5349	5349	7630	7630
180	Newsprint	3500	3500	5095	5095
181	Other paper and stationery	6801	6801	9701	9701
182	Paints & varnishes	10068	10068	13979	13979
183	Colours & dyes	39794	39794	51623	51623
184	Tanning extracts of all kinds	39794	39794	51623	51623
185	Tan stuff NDC	39794	39794	51623	51623
186	Fireworks	10166	10166	16448	16448
187	Soda caustic	2164	2164	4945	4945
188	Soda ash	1203	1203	2243	2243
189	Medicines	30989	17537	35897	20318
190	Acid chromic, cresylic, sulphurous, perchloric	9116	9116	14545	14545
191	Acid citric	13264	13264	18255	18255
192	Acid acetic	4992	4992	6860	6860
193	Acid boric	6757	6757	10781	10781
194	Acid hydrochloric	152	152	463	463
195	Acid sludge				
196	Acid phosphoric	8628	2808	14054	14054
197	Acid sulphuric	665	665	1061	1061
198	Fertiliser	1657	1703	1873	1962
199	Fresh meal	494	494	670	670
200	Other organic manure	331	189	374	214
201	Coffee	10580	10580	11665	11665
202	Fruits dried	4647	4647	7073	7073
203	Ghee	20992	20992	25272	25272
204	Eggs	633	633	916	916
205	Dry fish	624	875	1452	1543

1	2	3	4	5	6
206	Pepper	11415	12404	13258	14182
207	Turmeric	3285	3365	3540	3540
208	Chillies	10174	10174	5435	5435
209	Cardamom	51957	67712	71185	120439
210	Ginger dry	5221	6221	5235	5833
211	Other spices	4107	6168	2636	3954
212	Coconut dry		2910		5951
213	Betelnut	5885	5885	10689	10889
214	Other seeds	3043	3043	5251	5251
215	Groceries NDC	2235	2235	3202	3202
216	Other provisions	2232	2232	3198	3198
217	Nest products	6915	6913	10673	10676
218	Fish fresh	16328	16338	20790	28790
219	Wool	11000	11020	17253	17258
220	Rubber scrap	6688	6688	6468	6465
221	Silk waste	4485	4485	6073	6076
222	Hemp & Fibres	1378	1378	1194	1194
223	Rubber crude	7472	9112	9351	12472
224	Grass other than fodder	101	191	241	241
225	Myrabolan	988	988	1100	1100
226	Drugs	30909	17957	35897	20318
227	Lime	262	262	417	417
228	China clay	516	516	500	500
229	Timber NDC	347	347	659	659
230	Milk powder	22727	22727	25460	25460
231	Chemicals	7353	8265	10100	11357
232	Hard board	4851	4851	7019	7019
233	Malt extract			25159	25159
234	Refrigerator	113963	113963	120840	120840
235	Resin			22686	22686
236	Carbon black	8435	8435	11741	11741
237	Jeans	10905	10905	10850	10850
238	Silk piece goods	126364	126364	182567	182567
239	Cigarettes	44537	44537	69749	69749
240	Cycle parts	6465	6465	8184	8184
241	Silk raw	126364	126364	182567	182567
242	Cashew kernel	9732	12578	31288	39719