#### PAKISTAN INSTITUTE OF DEVELOPMENT ECONOMICS

Biweekly Seminar Paper No. 9

February 1977

TRENDS AND LABOUR CONTENT OF PAKISTAN'S EXPORTS

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by:

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#### INTRODUCTION

Exports play a major role in the development of a country as they not only help in earning foreign exchange but also provide employment opportunities in those sectors, which boom due to exports growth.

For an economy like Pakistan, which has a civilian labour force of 2 crores and an addition of approximately 6 lakh labourers yearly, there is an urgent need to follow such strategies which could generate a high rate of employment growth.

In Pakistan, a number of studies have been done on export promotion versus import substitution, but it is surprising to know that so far no attempt has been made to determine the employment generating effects of the alternate trade strategies.

Thus the aim of the present paper is to analyse and investigate the employment implications of export promotion \( \subseteq i.e. \) how much employment is generated by an additional Rs. one million worth of exports \( \subseteq \subseteq \). Here one point must be made clear, that in the present paper we are not going to compare the employment generating effects of export promotion versus import substitution, rather, our task is to determine, that within the range of export promotion, which exports should be promoted, so as to increase employment growth.

The paper consist of four sections. The first section explains the changing structure and commodity composition of our exports over a 15 year period. The core of the paper lies in section II, where the methodology to determine labour intensities and the major findings are described. A comparison of our results with earlier findings has been made in section III. While section IV is based on policy implications and conclusions.

#### SECTION 1

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#### STRUCTURE OF PAKISTAN'S EXPORT

To determine the structure, we have compiled data on commodity composition and direction of our export. In case of commodity composition the period covered is 15 years i.e. 1960-61 to 1974-75.

All the exports figures are in value term (Rs.000), which are grouped in 6 major sectors i.e. consumer goods, intermediate goods, investment goods, other miscellaneous, agriculture fishery and forestry, and mining <sup>1</sup>. Export to East Pakistan was also classified according to these 6 groups and is shown in table III (here the period covered is

#### from 1960-61 to 1970-71).

<sup>&</sup>lt;sup>1</sup>Time Series data at a very disaggregate level of these 6 sectors was also compiled which is obtainable from the author. All the concerned data was obtained from various issues of Foreign Trade Statistics, C.S.O.

Table 1 shows now the share of six major groups in total exports to Rest of the World (R.O.W.) has been changing over time. It is seen that for every year, major shares were held by consumer goods and Agriculture fishery and forestry. More over the share of consumer goods in total export has been increasing over time whereas Agriculture's share shows a declining trend. It is a good sign showing that manufactured goods are getting a stronger hold in over all exports.

In table II we have considered only manufacturing sector(excluding Agriculture and Mining from the 6 major groups) and their share in total manufactured export. Here also, on average, 75% of the share was held by consumer goods, which has been constant over time i.e. it shows no significant increasing or declining trend.

To find out the direction of our exports, we have grouped the Rest of the World into three major categories; Developed, Developing and Centrally planned economies. This exercise was done for two years 1960-61 and 1969-70; to see the change in direction of exports over time.

Direction of exports to three country groups is given in table IV and  $\overline{V}$  which shows that in 1960-61 for each country group the major exports were primary goods where as in 1969-70, the major proportion of exports were held by consumer goods.

Table VI shows the proportion, out of total exports of manufactured and primary goods, that is sent to the three country groups. It is apparent in table VI that out of total exports, 18% of manufactured and 36% of primary goods in 1960-61 and 27% manufactured and 13% primary goods were been exported to developed economies. Similarly 17% manufactured

and 22% primary goods in 1960-61 and 27% and 12% respectively in 1969-70 were exported to developing economies. Exports to centrally planned economies were negligible in 1960-61 but in 1969-70 out of total exports, about 14% of manufactured goods were exported to these countries. It shows that we were able to find new markets for our exports.

#### SECTION II

#### LABOUR CONTENT OF PAKISTAN'S EXPORT

In Pakistan no work has been done to determine the factor content of our trade, though a few studies have been carried out to investigate the factor intensity of our industries. Nurul Islam / 11/ has followed Lary's / 10/ approach in ranking industries according to total value added per employee; the higher the total value added per employee, the higher is capital intensity. Based on this criterion, our eomparative advantage lies in those sectors where value - added per employee is very low. Another study in this field was done by A.R. Khan / 6/ who has ranked industries according to their observed capital labour ratios. Following his approach, the comparative advantage for Pakistan would be in those industries where capital labour ratio is very low.

The methodology to estimate the labour content of export in the present paper is taken from A. Kruger's work / 9 / which is further elaborated in V. Corbo and P. Meller's paper / 2 / on Chile.

Derivations of the formulas for direct as well as total labour requirements is given below:

Direct Labour Requirement (Criterion h): It is based on the labour required to produce Rs. one million of domestic value added i.e.

$$L_{\mathbf{j}}^{\mathbf{d}} = E_{\mathbf{j}} /_{(DVA)_{\mathbf{j}}}$$

where  $E_j$  is average number of workers employed, and (DVA) is domestic value added in jth sector for a given year. This information is directly obtained from census of manufacturing industries. Thus the higher is the direct labour requirement for a given Rs. one million of value added, the greater will be the labour intensity for that sector.

Computation of Direct Labour Requirement for Exports; Firstly we have calculated the domestic value added content of 20 groups of export industries by using the share of direct domestic value added in output; i.e.

Then we have taken the overall/group wise weights \( \subseteq \widetilde{w}\_1 \) & \widetilde{w}\_2 \) for this value added content of exports. At last the direct labour coefficient \( \text{L}\_j^d \); s were corrected for these weights which gives us weighted average labour intensity for overall as well as groupwise exports of manufactured goods.

Total Labour Requirement: (Criterion B). The appropriate concept to measure the labour intensity would be to incorporate indirect labour requirement as well. For this we have to take into account the direct labour employed and value added generated in home good sectors. It requires the calculation of employment and value added multipliers.

The value added multiplier to compute direct, plus home goods, indirect value added per unit of output in industry j is given by;

$$s_{j} = 1 + \frac{\hat{v}_{j}}{V_{j}}$$

where V is direct value added generated in  $j^{th}$  sector and  $\hat{V}_j$  in home goods sectors i.e.,

Similarly the employment multiplier of direct plus indirect home goods requirement per unit of value added in ju sector is given as;

$$\mathbf{m}_{\mathbf{j}} = \frac{\mathbf{1}_{\mathbf{j}} + \hat{\mathbf{1}}_{\mathbf{j}}}{\mathbf{V}_{\mathbf{j}} + \hat{\mathbf{V}}_{\mathbf{j}}} / \frac{\mathbf{1}_{\mathbf{j}}}{\mathbf{V}_{\mathbf{j}}}$$

here also  $l_j$  is direct labour employed per unit of output (i.e.  $E_j/O_j$  ) in  $j^{\underline{n}}$  sector and  $\hat{l}_j$  in home goods sectors i.e.,

$$\hat{L}_{j} = L_{H} / I - A_{HH} / I - I_{AHT}$$

where

 ${\rm A_{HH}}$  = a square matrix of direct intermediate input coefficients in the home good sectors.

 ${\rm A_{HT}}$  = a rectangular matrix of home good Co-efficients for the input-output sectors.

 $V_{\rm H}$  = a row vector of direct domestic value added per unit of gross output, corresponding to h home goods sectors.

 $L_{\mbox{\scriptsize H}}$  = a row vector of employment per unit of gross output, corresponding to h home goods sectors.

The procedure to compute total labour intensity of export industries is similar to the one for direct labour intensity except that in present case we get weights as ;

$$\hat{V}_{j} = \frac{s_{j}}{\leq s_{j}} \frac{(V/O)_{j}}{(V/O)_{j}} \frac{E_{j}}{E_{j}}$$

$$i = 1$$

and direct plus indirect labour CO-efficient as;

$$L_{j}^{t} = M_{j} L_{j}^{d}$$

hence multiplication of  $\hat{\mathbb{W}}_j$  +  $L_j^t$  and their addition will give us weighted average labour intensity for over all/group wise exports of manufactured goods.

The manufacturing sector of Pakistan was classified into 20 sub-groups. The four home goods sectors are;

- 1) · Electricity and Gas
- 2) Transport and Communication
- 3) Trade (Whole sale and retail)
- 4) Insurance, Banking and other services.

The data for employment  $E_j$ , output  $O_j$ , and value added  $V_j$  was taken from CMI (1) number of workers in home good sectors  $E_h$  is obtained from labour Force Survey for 1969/70 and for 1960-61 from I. Hussain's //4 study - home goods value added is derived directly from National Accounts i.e. GMP at factor cost for the respective sectors. As National Accounts for 1960/61 does not give the value added in home goods sectors for West Pakistan seperatly, so it was

borrowed from Taufiq's / 11 / work / where figures were in 1959/60 constant prices and were inflated to 1969/70 prices by the author/. For comparison sake, all the value figures for the year 1960/61 (i.e.  $O_j$ ,  $V_j$ ) were also inflated to 1969/70 prices. For input output matrix ( $\Lambda_{H\bar{H}}$  +  $\Lambda_{H\bar{T}}$ ) we have made use of Mazahir's (5) work who has inflated Khan & McEwcan's / 7 / input-output table to 1969/70 prices.

To make the intertemporal comparison of labour intensity, two years chosen were 1960/61 and 1969/70 / as all the data required to calculate labour intensities was available for these two years / .

For comparing the inter industry differential in labour intensity, the 20 export industries were lumped together into 3 major groups i.e. Consumer goods, Intermediate goods and Investment Goods.

Labout intensities based on criteria A and B were calculated for Rest of the World (R.O.W.), Former East Pakistan, Developed, Developing and centrally planned economies. Detailed tables are given in Appendix while concise tables giving the intertemporal and inter industry information on labour intensities are included in the text.

Part A of the tables (VII, XII) is based on direct labour requirement and Part B on total labour requirement.

Table VII Port A shows that if additional goods worth Rs. one million were exported to R.O.W. then on average a potential employment of 267 was generated in over all manufacturing for 1960/61, and 103 for

the year 1969/70. If this additional export was either of consumer goods, or Intermediate goods or Investment goods then employment generated in either of those sectors would have been 268, 217 and 270 (in 1960/61) and 111, 52 and 123 (in 1969/70) respectively. Similarly part B shows that Rs. one million worth of exports to R.O.W. would generate a total of 377 jobs for overall manufacturing (1960/61) and 131 for 1969/70. An for consumer goods, Intermediate goods and Investment goods, new jobs created would be 377, 371, 375 for 1960/61, and 137, 96 and 192 for 1969/70 respectively.

On similar pattern as described above, tables VIII, XII were formulated which show that based on criteria A & B, how much employment could be generated if an additional Rs. one million worth of product of either of the three major groups would be exported to Developed or Developing or centrally planned economies or to Foremer East Pakistan.

Manking of the Major Groups of Industries: Ranking of the three major industrial sector according to their labour requirements based on criteria A & B for both the years 1960/61 and 1969/70, and for most of the country group came out to be same i.e. Investment goods being most labour intensive and Intermediate goods the least.

In case of East Pakistan we get different results i.e. based on criteria A, (for 1960/61 & 1969/70) and B (for 1960/61 only) consumer goods came out to be most labour intensive and intermediate goods the least; though for 1969/70 criteria B, follow the same pattern i.e. Investment goods are most labour intensive.

Another case where ranking is different from the general pattern

is for R.O.W., year 1960/61, based on criteria B, here consumer goods have become more labour intensive as compared to Investment goods, but the difference in labour intensities for these two group is almost marginal, i.e. creation of 37% (for consumer goods) and 375 jobs (for investment goods).

The two main results which we have obtained so far are:

- a) There has been a striking decline in labour intensity over time based on the two criteria and for each country group.
- b) Investment goods came out to be most labour intensive in many of the cases.

Let us consider case (a) first. (Case (b) has been taken care of in Section III of this paper).

Decline in Labour Intensity Overtime: As labour Co-efficients were corrected for export weights, so total change in labour intensity could be decomposed into change:

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- a) due to changing export structure
- b) due to change in labour Co-efficient.

$$\triangle$$
 WL = (  $\triangle$  W )  $\overline{L}$  + (  $\triangle$  L)  $\overline{W}$ 

Where

(WL) = total change in labour intensity.

 $(\bigwedge W)$  L = change in labour intensity due to change in export composition (i.e. export weights) keeping labour Coefficient constant.

( \( \lambda \) L) W= change in labour intensity due to change in labour coefficient keeping composition of export constant.

We have measured total change in labour intensity only for R.O.W.  $\triangle$  WL is shown in column 'C' of table VII. ( $\triangle$  L)  $\overline{W}$  was calculated by applying labour Coefficients of 1969/70 with 1960/61 export weights (see table XII), which gives us percentage decline due to change in labour coefficient shown in Column 'f' table VII. Once total change ( $\triangle$  WL) and partial change in labour coefficients ( $\triangle$  L)  $\overline{W}$  were determined independently; ( $\triangle$  W)  $\overline{L}$  (change in export composition) was calculated as the residual (see table VII column 'g'). Comparison of column 'f' & 'g' of table VII shows that decline in labour intensity over time was mainly due to the fact that there has been a sharp decline in labour Coefficient itself (or in other words the export composition has remained constant over time).

What are the implications of this result ? In increase in labour productivity or an increase in capital intensity.

This result is in fact persuasive, as it has been supported by

I. Hussain's 4\_findings that capital - labour ratios have definately

increased over the period 1959/60 to 1967/68.

#### SECTION III

#### Comparison with Earlier Findings

Our results have shown that a major proportion of our export consist of consumer goods where labour intensity is relatively lower than in investment goods.

The result raises the question, as to why in a labour abundant economy like Pakistan such capital intensive techniques are adopted, and why the investment goods sector is more labour intensive than consumer goods ?

All this is not an unusual phenomenon for Pakistan as earlier studies show parallel results. As in the present study investment goods came out to be most labour intensive similarly Islam / 12 / following Lary's approach / 10 / found that capital goods industries as a group in Pakistan has lower value added per employee than the national average; further more it has less than average non-wage value added per employee and in both cases it is significantly lower than national average -- while consumer good industries when taken separately for West Pakistan have value -- added per employee just below the average, showing a bias towards labour intensity.

The intermediate goods in West Pakistan came out to be the most capital intensive, in Islam's study. Thus, in short, our results are exactly parallel to Islam's, (based on our criteria A & B). Capital goods are not particularly capital intensive; rather they are the most labour intensive, consumer goods have average labour intensity and Intermediate goods are the least labour intensive. While describing inter temporal variation in factor intensities, Islam doesn't mention whether labour intensities have increased or declined over time — he just discusses the changes in ranking of industries whereas our results have further indicated, an overall decline in labour intensities over time.

Sectoral capital intensities obtained by A.R. Khan / 6 / also supports our results. He has measured capital intensities based on the ratio of observed physical capital to labour and concluded that the three sectors which have got unusually high capital intensities are Fertilizer Paper and Petroleum products, / all these three industries belong to the intermediate goods sector; in our findings also, based on criteria A and B, this sector came out to be most capital intensive/.

The other sectors which are second highest in capital intensity ordering are Sugar, Cigarettes and Edible oils / they belong to consumer goods sector -- in our case too, this sector has the second highest capital intensity/.

Khan's study shows that the least capital intensive sectors are leather and its products, metal products and wood cork & furniture. Concerning the capital intensity of investment good sector, Khan also concludes "It may be noted that capital intensity of capital supplying sector is not particularly high--"-- This view supports our result too. The reason underlying this finding could be that our investment goods sector mainly consists of those industries \( \subseteq \text{e.g.} \) metal and metal products, non electrical machinery/ which are quite highly labour intensive.

The reasons underlying that consumer goods are relatively more capital intensive than the socially desirable could be due to the fact that most of the industries belonging to this sector e.g. sugar, cigarettes, food manufacturing and edible oils etc. are the products of

the era of import substitution, when capital was under priced, which led to the selection of a degree of capital intensity higher than xocially desirable. It also created the incentive to build up greater capatity than can be used at any given time period to insure against the difficulties of getting Licences for expanding the capacity in future. G. Winston / 13 / and A.R. Kemal / 8 / have shown in their study that for the year 1965 only 33% / Winston/ and for 1967/68 only 55% / Kemal / of the industrial capacity was being utilized—hence underutilization of capital stock in large scale manufacturing reduced the potential level of employment and increased the observed capital intensities in the underutilized sectors.

Moreover the existence of demand of consumer goods, resulting in high profitability rates in these sectors, gives incentives to foreign investors to invest in consumer goods. They adopt the capital intensive technologies prevailing in their own countries. This fact is applicable to our consumer good sector also, and explains the cause of high capital intensities adopted for this sector.

A. R. Khan / 6 / has extensively argued, that in Pakistan's economy, capital has been heavily underpriced (due to different government policies e.g. over valuation of exchange rate, low interest rates and other different incentives for import of capital) while price of labour has been higher than it's efficiency value.

Another element causing the adoption of capital intensity more than socially desirable, is the tied foreign aid; e.g. if a factory is being set up in Pakistan against a U.S. tied credit, Pakistan will necessarily be limited to the plants available in U.S., which would be appropriate to the factor endowment of U.S., and would be highly capital intensive.

#### SECTION IV

#### Conclusion

As mentioned in the introduction of the paper our task was to determine the employment generating effect of alternate export sectors.

A country like ours, where the needs are endless and means are limited, appropriate choice of one instrument (i.e. export policies) •an help in meeting two ends (i.e. earning foreign exchange and employment generation).

From the time series analysis of our export structure we found out that consumer goods constitute a major part of our export, and its share in total export has been increasing over time. Are we in a position to believe from this result that consumer goods are most labour abundant economy, should export labour intensive goods. The answer is negative. As in Part II of the paper we have shown that consumer goods are relatively less labour intensive as compared to investment goods.

Based on the two criteria, we attempted to explore how much employment should be generated in consumer, intermediate and investment good sectors if an additional Rs. one million worth of products of either of these sectors were exported to developed or developing or

centrally planned economies or to former East Pakistan. For most of the cases we found that Investment goods are most labour intensive.

Does this imply that we should start concentrating more on the promotion of Investment goods export!

This would not be a correct choice of policies as the structure of export shows that consumer goods have always been a major part of our manufactured exports, showing that world demand for our exports is concentrated in consumer goods. In fact less labour intensity as compared to investment goods could be attributed to domestic factor market distortions and under-utilization of industrial capacity; hence for obtaining a true labour intensity of this sector, we must increase the capacity utilization by removing the deficiency of demand through promoting exports.

Our next exercise was to determine the labour requirements based on direction of export, or in other words to which country group these exports should be diverted to get a high growth of total labour employed. We saw that if an additional Rs. one million worth of products (irrespective of industrial group) were exported to developed or developing or centrally planned economies or to former East Pakistan, then total employment generated (based on criteria B for all industries in general) for 1969/70 would have been 132, 149, 150 and 146 respectively. It shows that exports promoted to centrally planned and developing countries would be most favourable for employment creation.

It is interesting to note that our results for determining the labour intensities for different sectors follow the same pattern as obtained in the studies done earlier.

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TABLE (I)

(in 000 Rs.) Structure of Pakistan's Export (Total)

	C. P.S.T.C. mmodity	1960-61	1961-6	2 <b>196</b> 2 <b>-</b> 63	1963 <b>-6</b> 4	<b>19</b> 64 <b>-</b> 65	1965-66	1966-67	<u>1967-68</u>	1968-69	1969-70	1980-71	1971-72	<u> 1972<b>-</b>73</u>	1973-74	1974-75
(A)	Grand Total	523825	529586	972015	1035684	1111916	1156268	1262534	1536676	1576422	1521242	1948212	3550624	8409858	9324581	9348105
(B)	Consumer Goods.	146101	83580	150027	296887	392073	382838	441809	582448	665757	758272	1041762	1371695	4133556	4583067	3775452
(B)	as percentage(A)	27.89	15.78	15.43	28.67	35.26	33.11	34.99	37.90	42.23	49.85	53.47	42.20	19.16	49.15	39.13
(C)	Intermediate Goods.	٩205	16156	21.25	51698	85423	109146	101642	139173	183698	174171	161869	252393	833176	714062	57059°
(C)	as percentage(A)	1.57	3.05	2.16	4.99	7.68	9.44	8.05	9.07	11.65	11.45	8.31	7.76	9.91	7.66	5.91
(D)	Investment Goods,	19071	30790	33827	38951	33424	46506	83890	42892	39031	66061	7035	94650	324427	461334	548938
(D)	as percentage of (A)	3.64	5.81	3.48	3 <b>.</b> 76	3.01	4.02	6.64	2.79	2.48	4.34	3.59	2.91	3 <b>.</b> 86	4.95	5.69
(E)	Other as perce- ntage	15095	18039	22781	7913	10004	9578	9911	18297	22036	25035	39003	45956	134658	167799	13569 <sup>8</sup>
(E)	as percemtage of (A)	2.88	3.41	2.34	0.75	0.99	0.83	0.79	1.19	1.40	1.65	2.00	1.41	1.07	1.80	1.4
(F)	Agriculture & : Fisheries	334615	375 <sup>4</sup> ;04	742865	634116	580011	599012	614956	745795	658643	473157	616049	1427603	2934702	3306550	4495483
	(F) as percenta of (A)	ge 63•88	70.89	76.43	61.23	52.16	51.81	48.71	48.53	41.78	31.10	31.6	2 43.92	34.89	35.46	46.59
(G)	Mining	738	5€ 17	1490	6119	10981	9188	10326	7870	7357	24546	1949	58427	488 <b>3</b> 4	91769	21193F
(G)	as percentage o	f 0.14	1.06	0.15	0.59	0.99	0.79	0.84	0.51	0.47	1.61	1.00	0 1.80	0.58	0.98	- 1,26

Structure of Pakistan's Export (Manufactured)

	1960-6	1 1361-6	2 1962-6	3 1963-6	4 1964-6	5 1965-6	6 1966-6	7 1967-68	8 1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75
(A) Grand Total	188472	148465	227660	395449	520924	548068	637252	783011	910422	1023539	1312669	1764594	542617	5926262	5030686
(B) Consumer Goods,	146101	83580	150027	296887	302073	382838	441809	852448	665657	758272	1041762	1371995	4124556	4583067	3775452
(B) as % age of (A)	77.52	56.26	65.90	75.08	75.26	69.85	69.33	74.39	73.12	74.08	79.36	77.73	76.19	77.33	75.05
(C) Intermediate Goods,	8205	1615€	21025	51698	85423	109146	101642	139374	183698	174171	161869	252393	833176	714062	570598
(D) Investment Goods,	19071	30790	33827	38951	33424	46506	83890	42892	39031	66061	70035	94650	324427	461334	548938
(D) as % age of (A)	12.12	20.72	14.86	9.85	6.42	8.49	13.16	5.48	0.04	6.45	5.34	5.36	5.98	7.78	
(E) Other Miscell	1- 15095	19039	22782	7913	10004	9578	9911	18297	22036	25035	39003	45856	13658	167799	135698
(E) as % age of	8.01	12.14	10.01	2.00	1.92	1.75	1.56	2.34	2.42	2,45	2.97	2.60	2.48	2.83	

ort to East Pakistan (Value in thousand Rupees.) 1960-61 1961-62 1963-64 1962-63 64-65 1967-68 1968-69 1969-70 1965-66 1966-67 1970-71 844167 (A) Grand Total 797553 829356 975733 7201 1185573 1304617 1206429 1250542 1155316 1372247 (B) Consumer Goods. 506121 462200 376410 366660 9658 480894 469825 434016 468499 550193 535595 63.46 38.58 (B) as percentage of (A) 55.73 43.43 5.85 39.63 41.05 35.98 37.46 47.62 35.04 (C) Intermediate Goods. 23524 39996 18464 24282 6757 47219 68702 100378 204402 189294 70690 (C) as percentage of (F) 4.82 2.95 1.89 2.88 4.67 3.98 5.42 5.69 8.03 17.69 13.79 (D) Investment Goods. 19318 48131 49829 61992 1156 77577 114961 133869 143166 120043 96881 (D) as percentage of 2.42 5.80 5.10 7.34 6.50 6.54 8.81 11.09 11.45 10.39 7.06 (E) Other miscellenous. 71720 43594 171817 80689 150836 103844 9702 56328 124361 115098 135289 (E) as percentage of(A) 8.99 5.26 17.61 9.56 0.12 4.75 9.54 10.82 13.05 7.57 9.53 (F) Agriculture of fisheries. 308463 169237 216711 341900 7822 455752 448888 400437 621087 497969 506734 (F) as percentage of(A) 21.22 26.13 35.04 36.54 53.76 36.29 2.58 42.74 34.93 37.21 32.02 (G) Mining. 7633 18724 2081 3365 17259 2106 27890 3258 5856 2773 3929 0.24 (G) as percentage of A 0.95 0,48 0.34 2.26 1.77 0.25 0.22 0.26 2.35 0.25

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#### TABLE IV

DIRECTION OF EXPORTS: 1960/61 Value

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Value (000' Rs.)

#### COUNTRIES

	v Maridiski i skrigor rođ	Developed	Developing	Centrally Planned
(A)	Total Exports:	278562	79733	101
(B)	As page of (A)	27	39	0.2
	are the free		district	(I) tamemany one
(c)	Intermediate Goods	5465	2742	-
(C)	as percentage of:(A)	) 2	1.3	something a second of
(D)	Investment Goods:	9652	6302	24
(D)	as percentage of (A)	3	3.1	0.05
(E)	Agriculture Fishery and Forestry:	184477	1115439	41228
	TELEST	11.00	days	
(E)	as percentage of (A)	66	56.5	99.7
				treatmenting ar (ii)
(F)	Minning	2305	_	-
(F)	as percentage of (A)	88	OC F	a es ell more (i) more fion back (i)

# TABLE V

## DIRECTION OF EXPORTS: (1969-70) Value in (000' Rs.)

# COUNTRIES

	fd.	ding Centrally	De	veloped	griber i	Developing	Centrally Plan	ned
(	A)	Total Exports		594993		575497	319295	
(	В)	Consumer Goods.		277737		315201	185607	
(	в)	as percentage of	(A)	47		55	58	
(	C)	Intermediate Good	s <sub>o</sub>	104903		40481	27489	
(	C)	as percentage of	(A)	18		7	9.	
		Still						
(	D)	Investment Goods.	3.30	15144		42131	1701	
(	D)	as percentage of	(A)	25		7	5 1,70 th 1	
(	E)	Agriculture Fishe	ry	180024		173691	101062	
(	E)	as percentage of	(A)	30		30	32	
(	(F)	Minning		17185		3993	3436	
(	(F)	as percentage of	(A)	29		00.7	1 ·	

-:23:-TABLE VI

## Proportion of manufactured/non-manufactured exports in total exports for three country groups.

Total Exports	0 .:5	Countries				
1489785 0 D	eveloped	Ø De	veloping	Q Centra	ally Pla	anned
A B O O N	19	969 - 70	/ 9/			
Manufactured Export:	397784		397813	2	14797	
Percentage of manufactured exports in total exports:	.27		27		14	
Agriculture, fishry and forestory:	197209		177684	1	04498	
1 6 5 EV	5 : 8		16			
Percentage of Agricultural exports in total exports	13		12		7	
8 . 6 . 6 . 8 . V	196	60 - 61	,			
Manufactured Exports	91780		88777		125	
Percentage of manufactured exports in total exports	18		17		•02	
Agriculture, fishry and	4		7			
forestory:	186782		115439		41228	
Percentage of Agricultured exports in total exports:	36		22		8	

-:24:
<u>Table VII</u>

Labour intensities for Exports to the Rest of the World

	1960 - 61	1969 - 75			
	Labcur Ranking intensity (a) (b)	Labour Ranking intensity (a) (b)	Percentage declive(Total)	declive due	Percentage declive due to change in Composition
(A)	Direct Labour requiremen	t per million Rs. of value ac	dded:	Coefficient (f)	of Export
All industries	267 2	103	C1	56	5
(a) Consumer Goods	268 2	111 2	59	58	1
(b) Intermediate Goods	217 3	52 3	76	74	2
(c) Investment Goods	270 1	123 1	54	33	21
(B)	Direct & Indirect Labour	requirements per million Rs.	of value added:		
All industries	377	131	65	57	8
(a) Consumer Goods	377 1	137 \ 2	64	60	4
(b) Intermediate Goods	371 3	96 3	74	74	0
(c) Investment Goods	375 2	192 1	49	36	13

-:25:--

## TABLE XII

#### Decline in Labour Intensities due to Change in Labour Coefficient over 1960 - 61 to 1969-70

	ba Eg	abour intensity ased on 1960-61 xports weights nd 1960-61 labour o-efficient.	Labour based export and 19 coeffi	on 1960 s weigl 69-70 :	0 <b>–</b> 61 nts	Percentage decline in labour intensity.
Crit	eria (A)	5. 14.2	. Logicie	Sright.		
	All industries	267	, it	118		56
	Consumer goods	268		113		. 58
	Intermediate Goods	217	. 15	56		74
	Investment goods	270		181		33
Crit	eria (B)	erte in Tanzille Ligita			in in	122
	All industries	377		164		57
	Consumer goods	377		151	* ! - :	60
	Intermediate goods	371	18	98		74
	Investment goods	<b>37</b> 5		241		36
			1. 4.		estra di la	

Table XI

Labour Intensities for Exports to Farmer East Pakistan

		1960 -	61 .		1969 - 70	-
	Lie	abour Int	ensity R	anking L	abour Intens	sity Ranking
	(A) <u>D</u>	irect Lab	our requi	rement pe	r million Ra	s. of value added:
	All industries	249		April 1	91	25
a.	Consumer goods	257		1	101	10.00
b.	Intermediate good	s 162		3	54	3
c.	Investment goods	174		2	96	2
		irect and			equirement p	per million
	All industries	367			146	- 
a.	Consumer goods	374		1	150	- 2
b.	Intermediate goods	343		2	116	3
c.	Investment goods	306	V.	3	172	1

Table X

# Labour Intensities for Exports to Centrally, Planned Economics

	n	FA = 0700	• • •	
	19	960 – 61	<u> 1969 – 70</u>	
n kali	Labour	· Intensity Ranking	Labour Intensity Ranking	
	(A) <u>Direct</u>	Labour requirement	per million Rs. of Value added:	<u>:</u>
	All industries	u eultV io .3E	115	
		885	reinfeboni IIA	
a. S	Consumer goods		120 roman 5 h (n) 2	
Ъ.	Intermediate goods	E 100	shoof at the around 3	
C.	Investment goods		221 ***********************************	
		and indirect labour	requirement per million	r)
	All industries	49 . SM TOTTICE	150	
	140		adinjeral IJA	
a.	Consumer goods	-	154 2	
	OFF	3773	tibang tampeaulis, (d)	
b.	Intermediate goods	<u>-</u>	88 3	
	107		obrod striberismi (1)	
c.	Investment goods	- 2	269 - 1	

TABLE IX

## Labour Intensities for Exports to Developing Economics

		1960 -	61	1969 -	70
Ron	And Labour Intensity	Labour Intensity	Ranking	Labour Intensit	Ranking y
	(A)		bour requi	rement per mill	ion
	-1.1 P			a infadbeti	CSH
	All industries	266		106	
	_ Car			design receipt	105) . E
(a)	Consumer Goods	266	2	112	2
·	. ap				
(b)	Intermediate Goods	207	3	48	3
				the transfer	viil .o
(c)	Investment Goods	283	1	119	1
	(B)		nd Indirect Rs. of Valu	Labour require	ment per
				industries	
	All Industries	378		149	
				ahoo's ruitu.	as Com
(a)	Consumer goods	377	2	150	2
	8.8			about a believed	ant .d
(b)	Intermediate Goods	371	3	107	3
r			2.5	-arole da aru	V. I. v.
(c)	Investment Goods	<del>.</del> 380	1	185	1

Table VIII

Labour intensities for Exports to the Developed Economics

	1960 - (	61	1969 <b>_</b> _	70
	Labour intensity	Ranking.	Labour intensity	Ranking
(A)	Direct La	bour requirement	per rillion	Rs. of value added:
All industries	274	V 9 5	89	
(a)Consumer goods	274	2	99	2
(b)Intermediate goods	223	3	53	3-
(c)Investment goods	287	1	177	1
(B)	Direct and	indirect Labour le added:	requirement	per million
All industries	377		132	
(a)Consumer goods	382	2	143	2
(b)Intermediate goods	360	3	90	3
(c)Investment goods	392	1	232	1

Appendix Tables

: 1

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