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Seminar on the development of facturers manufacturing is developing countries.

Madras, India, 4 - 13 Pabruary 1914

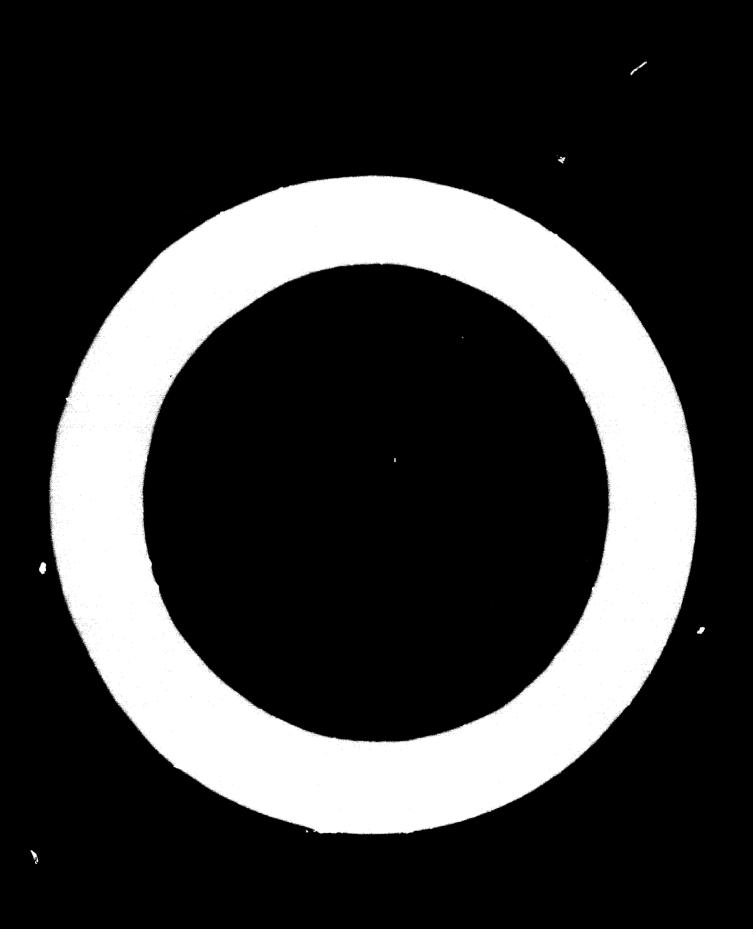
# AND DISADVANTAGES IN DEVELOPING COUNTRIES

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		PAGE
	INTRODUCTION	ii
1.	World Footwear Industry and the place of Developing countries	1
	The Structure of Postwear Industry in India	guerger aufsten.
	Leather Footnear Industry in the organised mechanised sector of India and the selected advanced countries	
	Advantages of Mechanisation of Footwear Industry in the developing countries	
	Problems of Mechanisation of Pootwear Industry in India	<b>9</b>
	RECOMMENDATIONS	•
APPRINCES		
	Indian Leather Footwear Industry General particulars and capital structure	
	Pattern of employment and wage structure	
	Cost of production	<b></b>
	Output pattern (footwear)	50
	Wages and outjut pattern per -	<b>J</b>
	Labour cost per pair of hand made * footwear	
	Labour cost per pair for mechanised units producing 100 pairs per day	
	Labour cont per pair for units producing 300 pairs per day	
	Estimated demand of footwear machinery for small scale mecha- nised units by 70-71 in India	
	REFERENCES	

### JATE TO A SERVE

# Davider on Greater of the Romanst Sackground

humanity are obviving hard for the leas three decider to make better use of their natural resources. I enther footwar production is regarded as a 'first generation' manufacturing activity and the developing countries are seriously planning to develop this industry as they have available natural resources in the form of hides and skins. Privatania the tanning Endustry is being developed to ensure the amply of reventorials for the feature Tudustry. The repeat today of the Government of India to restrict the experts of cemistantal leathers to feature the great of fixthed leather industry is an instance in point.

## CHAPTER - I

- World Postweet Industry and the Place of Deve-
- 1.1 Postwear Industry in the developing countries accounts for 1.6% of the total value added in the corresponding figures for the socialist and developed countries are 1.2% and 0.9% respectively.
- led The share of various regions in the total value added in the feetveer Lodnetry in the world is indicated in the while;

#### TANKE = 1

# The second is the total value offer as

8. Developed marks t scenary
countries 55%
b. Secialist countries of Basters
Barope 33%
6. Developing countries 18%

# America & and table Is

World supply and demand prespects for increased experts from developing countries. Leather and Leather products. A study by the UNCTAD Secretariat, year 1970.

1.3 The World annual production of leather footwear at the end of sixties was estimated at around 2700 million pairs. The details of production, imports and exports in respect of developed and centrally planned countries are given in the table 2.

TAPLE - 2

Production - Imports, exports data on Postweer (Million

	gast count	25-57	61-63	1968	(mos-
		983.8	1134.3	1462.9	I.A.
<b>S</b> ayor		22.0 28.8	70.9 81.8	215.0	P.A.
	ont consum				
<b>View</b>	Control of the Contro	977.0	1123.4	1448.4	1783.4
II. Centr	cally place	ed countrie	<b>L</b>		
92-046	etion	387.9	620.0	820.5	F.A.
lapo:	rte	10.0	31.7	56.4	N.A.
200		10.7	31.7	51.5	N.A.
elo:	rent consum h	299.6	620.5	772.0	923.5

No definite information is available regarding production of Leather footwear is the developing countries and based on the data on world production it may be deduced that is would be excued 500 million pairs. The estimated India's manual production would be around 200 million pairs.

- 1.4 The one discernable feature common to the developed and centrally planned countries is that the eventli import and export figures remained the same, there-by eignifying that the production meets the demand for the regions as a whole.
- 1.5 The world trade in featwear with leather uppers is indicated in table 3.

TABLE - 1
Yerld Trade in Footweer (Million U.S. Rellare)

			تطاعف عباركما بالماكم بالمامية بالمامية
	61-63	1248	7865
A. Developed countries	256.6 (70.0)	742.0 (78.0)	(82.0)
i. Italy ii. Spain iii. Prance	116.1 4.9 30.6	418.1 60.5 70.3	535.8 88.8 74.3
B. Centrally planned equatries	117.2 (30.8)	194.4 (20.5)	200.0
1. Csecheslovakia		114.6	116.0
C. Developing coun- tries		12.0	13.0
andragon (1995) grafia en la regalesca de la regalesca (1995) Maries, como esperante de la regalesca (1995)	(1.3)	(1.3)	(1.3)

# Seurce Table 2 and 1

UNCTAD report TD/B/C1/Syn, 4t. 29.3.71 - 119.

Problems confronting developing experters of hides,
skine and leather due to competition from synthenics.

- The world trade in leather Tootwear has been inwere slat at an annual catholic attack of 40%. Italy,
  France and Spain have been experting increasing
  wheatsties of immion shoes to the 7.3. and North
  Eastern Europe and in Eastern Europe, Czechoslovakia
  has raided its experts to the U.S.S.R.
- 1.7 Though the developing countries have trobled the experts in the period of aix years ending 1968, their percentage where continues to be constant with 1.36 of the total world trade.
- The varied economic and geographical factors which determine the supply and demand led to a large quantum of inter-regional and international trade in feetwar. In the last decade the trade has grown rapidly with the change in the manufacturing centres from North America and North Western Europe to Nediterranean Europe, Japan, Centrally Planned countries and to a smull extent developing regions.
- 1.9 The production and trade figures narrated earlier reveal the followings
  - import annually about 300 million pairs valued at nearly 1180 million U.S. dollars.
  - b. The developed and Centrally planned countries trade among each segment more than on intereregional basis.

- e. The share of the developing countries was a meagre 1.3% of the world trade.
- 1.10 The share of verious regions in the world in the three important segments of Loather expert trade is indicated in table 4.

TABLE - 1

Days of the verious regions in the trade of leather and

		loped trice	plan	rally nod trice	Perel count	eping gios
<b>1000</b> 1	1983	THE	And the second s	गंम	TEUS	गुर्ख
a. Bides and Skins	64.1	74.8	1.5	0.6	34.4	24.6
Se Seatter	78.8	67.3	0.6	0.7	20.6	39.0
e. Postvear with ionther uppers	67.9	82.0	30.8	16.7	1.3	1.3

- 1.11 A welcome change is the dviadling of the chare of developing countries in the expert trade of raw hides and skins and increase in the chare of leathers which include a sixuable portion of squi-tanned lea-there from India.
- till The most disappointing feature is that though the share of the developing countries has increased in the case of leathers, the share in the case of featwear remained come taut with a poor 1.3%. The developed

# Bern for Julie !

Problems confronting developed experters of Mides, this and Leather due to competition from synthetics.

UNCTAD report TD/B/C-1/Syn/49, Narch - 1971.

countries imported additional quantity of leathers procumably to meet the growing demand for footwear.

1.13 the per capita demand for leather footwear in the world has increased from 0.1 pair in 1910 to 0.68 pair in 1955 and one pair at present. The projected world demand for footwear is given in table 5.

TABLE - 5

# Projected demand for footwear

		Silver Aure		ال المحمد ال		ر اعدا تفت																	_			 -				_
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		T.	C.																<b>)</b> 6				١.	7				111	•	
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	7	700	erri																									1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r Magazina	
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						61	110											11	90				2.	U				12	5	

1.14 the world demand is expected to grow annually by

## and this is substantial for the developing coun
trice whose chare in the world trade is now loca

than ##. However the limitations provided by the

UNOTAD study (referred as source for table #0.5)

are worth mentioning:

#### Laidet serred

World supply and demand prospects for increased experts from developing countries. Leather products.

A. study by the UNCTAD Secretariat TD/B/c-2/101, Jan. 1970

a. "Income elacticity of demand for footwear declines as real income increases, possibly to the extent that per capita expenditures cease to grow any further when income reaches a high enough level". Under such conditions, footwear consumption would tend to rise with population growth only. Share of the consumer expenditure on footwear consumption in certain developed countries is shown in table 6.

TABLE 6

Mars of sensumer expends ture on Postwood

•	••	-			-				***			-			÷ •	•								-		-		-		
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	10								: ::T			****		yu		7								-						

Segrec: • Hides and skine problems confronting developing experters of hides, skine and leather due to competition from synthetics UNCTAB TD/15/C.1/49, Narch 171.

- b. There is likely to be an upper limit to the number of shoes purchased per person each year because of the simple fact that only one pair of shoes can be worn at a time.
- tions, the overall demand for sophisticated natural products will be growing in the affluent countries. The demand for footwear would grow substantially in the populous less developed countries also even when the economic growth is only marginal. The developing countries should modernise footwear production and increase the experts to meet the growing global demand.

#### CHAPTER - XI

### The structure of Fostvent

#### ledustry in India

- in the Indo-Pacific region barring China.

  This country with 44.57% of the rural and 51.34% of the Urban population living below the powerty line, i.e. the menthly per capita expenditure was less than 8.20 (2.70 US dellars) in the rural areas and less than 8.30 (4.05 US dellars).

  The Urban ureas truly represents the developing countries in vastness and depth.
- 2.1.2 The Endian Postwer Inchestry presents a spectrum
  of varying since and techniques which include the
  few modern mechanised large scale units, a medicate
  augher of small scale units that adopt mixed techalques of samimochanisation and a large number of
  household units which follow traditional techniques.

  Ques. The exact statistics on Indian Postwers
  Endustry are scanty. However the available information is indicated in the tables 7 and 8.

Source: 6 Financial express, dt. 14.8.73

# TABLE - 7

industry in 1961

Manufac .ure and repair of leather Footweez

Large scale factory sector	No. of units.	No. of persons employed.
Medium scale factory sector	65	1739
mail scale factory sentor	N.A.	162930
Household industry cottage	245925	465413
All sectors	N.A.	631324

# TABLE - S

# selerment in Postmenr and other leather

	Value of output at 62-63 (Prices Million rupees).	We. of parsons employed	Output per en- pleyee
e. Pootmer Industry	218.809	20516	10665
b. Other leather goods industry ASI census and sample sectors	14.000	1408	9994
c. Postwear Industry ou toids DOTD Sector	818.680		
d. Other leather goods industry outside ASI Census and emple sectors	64.975	65917 <b>9</b>	1300
TOTAL	1116.464	681097	1639

Source: Tables 7 & 8 from survey of India's export petential of leather and leather products Vol. II.A. Gokale Inst. of Politics and Boonomics and CLRI

2.1.3 The pattern of production from various vectors in terms of pairage, is estimated and shown in table 9.

TABLE - 9

Quantum and production of various sectors (Million pairs)

****	65-66	29-71
Large Unite		<b>25</b>
Smell seale u		56
Cottage waite	and the state of the modification of the second to the second second to the second second second second second	121
		*****

2.1.6 These estimates reveal that about 10% to 15% of the production is accounted by the large scale mechanised units. The small scale units which represent semi-mechanised, or non-mechanised but organised units account for the production of about 25% of the production. The disorganised estage household units which are mostly one man or family establishments contribute for the production of more than 50% of the total output in India. The value of subput per employee is seven times higher in the organised sector compared to that of the Household sector.

# Bearson Table 21

Report of committee on mechanisation of small scale leather footwear industry, Development Commissioner (Small Scale Industries) Govt. of India, New Bolhi, Narch 1968,

- 2.1.5 The structure of the mechanised large scale footwear industry is India is analysed in the ensuing pages.
- 8.8 Greatised Toriver Lauristry In Alles
- 8.2.1 General Pertioulars

The number of units in the organised large scale sector which employ 100 or more persons without using power or 50 or more persons using power has increased from 5 in 1959 to 14 in 1968. The number of employees has also increased from 1221 to 6834 in the corresponding period.

Significant increase in the capital employed i.e. from b. 19 million in 1959 to 41.6 million in 1968 was reported. Appreciable rice in the value of machinery used was acticed between 1960-1966 i.e. from a mare 0.17 million rapecs worth to b.2.90 millions worth in 1966.

2.2.2 The total capital employed par employee has inereased ten field between 1959 and 68, though the
number of employees availed by only 6 times in the
corresponding pariets.

# Laput-output atudias

The ratio of total investment to output has deereased between 1959 and 1963 but showed increases in the subsequent years and the details are previded in the appended table No.1.

2.2.3 The overall input-output ratios have been showing continuous increases i.e. 160:105 in 1959 to 100:113 in 1968. This implies better organisation of the production in the organised sector.

#### 2.2.4 Pattern of amployment

In the appended table No.2 the pattern of employment and wage structure are given. A noteworthy feature is that the porcentage of supervisory staff has increased from 7% in 1960 to 18% 1969, which also symbolised better organisational pattern and increased medernisation of the Industry.

## 2.2.5 Gest of production

In the appended table No.3, the cost structure in the arganised Ladian Foctwear Industry is given. The same of fuels, an indicator of mechanisation has increased fourfold between 1960 and 1966.

2.2.6 The materials consumed formed 74% to 85% of the total cost and 68% to 80% of the total value of cutyut between 1960 and 1969. In the total cost leather constitutes between 40% to 53% over the period. The share of the non-leather materials has been dwindling over the period. Salaries and wages constitute 19% to 23% of the cost of production.

#### 2.2.7 Output pattern

The output pattern of leather and part leather footwear produced in the organised sector is indicated in the appended table No.4. The production of western type footwear has increased from 0:127 million pairs to 1.327 pairs between 1961 and 1966.
i.e. a tenfold increase. The production of indicates type has also grown i.e. from 3.5 million pairs in 1961 to 6 million pairs in 1966.

# 2,2.6 Output pattern per employee

The annual output per employee as shown in the appended table No.5 was 2545 pairs of mostly indigenous type of chappals in 1960 and based on 294 working days in a year the per day output works
out to 8.6 pairs. This is almost 3 to 4 times of
the normal output expected in the non-mechanical
cettage sector. The value of output per employee
has increased from h.9218 in 1960 to h.11062 in 1966.
The wages per manhour have increased by 20% in the
six years ending 1968 but the output per man hour
has increased by about 7%.

#### 2.2.9 Concluding remarks

- a. In the erganised leather feetweer production higher investment both by way of fixed and recurring capitals, with the resultant higher output was noticed.
- b. The increase in the percentage of staff other than verters is yet another indicator of the mederalection and mechanisation of the industry.
- e. The value of imports of boot and shee making machinery is Isdia has increased from h.O.84 million in 59-60 to h.2.78 million in 67-68, h.5.10 million in 68-69 and 4.28 million in 70-71. Between 61-62 to 70-71, h.24.28 millions worth machinery wer imported with an animal everage of h.2.4 millions. The organized maite are the main consumers of the imported machinery and the increased level of mechanisation is evident from these figures.

#### TOO STREET

Houthly Statistics of Poreign Trade of India, Cort. of India, Year 1959, 61-62, 67-68, 68-69, 70-71

#### CHAPTER . III

# Leather Foctweer industry in the ergenised sector of India and selected advanced countries. A comparative study

3.1 It has been repeated almost an nameous that the developing countries are having certain distinct advantages such as inexpensive labour, i.e. called a 'hidden plus', abundant supply of raw materials and availability of skilled labour etc. for leather industry. An attempt is made here to study the comparative position with the available data.

## 3.2.1 Cost composition

The imput-output accounts of the Indian Pootwear Industry in the organised sector are given in table 10.

# Input-output accounts of Indian Footwear industry (organised Sector) Percentages

I. Input	1965	1966	1967	1968	1969
Perchase of materials service, transport, etc	72,4	69.3	73.80	73.20	71.20
II. Value added	23.8	21.4	20.50	16.00	11.50
b. Depreciation	2.7	0.9	1.06	1.30	1.32
e. Profits, etc.		8.4	4.64	9.50	15.98
d. Total value added	27.6	30.7	26.20	26.50	28.80
LATOT	100.00	100.00	100.00	100.00	100.00

#### Source

Annual survey of Industries, Gevt. of India, Vol. IV of 1965, 1966, 1967, 1968 and 1969.

The data reveal that the materials formed 69% to 74% of the total cutput. The next bigger element is vages which constituted 11.40% to 23.8% of the cost. One interesting feature is that the proportion of labour in the cost has been declining and in 1969 proved to be only half of the figure for 1965. With the increased mechanisation and introduction of labour saving devices, the labour element in the cost got reduced. Profits etc. are showing increases in 1968 and 1969. However the total value added remained constant with only marginal variations.

# 3.3.1 Inmit-entons accounts

The imput-output accounts of the Leather footwear industry in the selected European countries and India are given in table 11.

Leather Postmoan - Lapat-output accounts 190

			Perce tree			
Intermediaries	City Cod	Gernen	Yr 6.	Italy	I	Lacia (1966)
I. Imput Purchase of materiable services, transport, etc	8.3	•	Š	¢		69.3
Tr. Value added						~
b. Espieyers' sectail	%			6	N .	2.2
TOTAL (a+b)	37.0	28.0	26.0	3°6%		
MONNEY COLDED	* * *	•	2	ç	Ů.	Ö
	0	12.0	× .	0.4	•	*.
		3	0.5	2.0	•	*
f. Total value added	£6.3	49.0	ŝ	\$5.0	27:3	7.7
III. Total	100.0	100.0	8	0.00		5
t) The Shoe	and Leather			29. 1971 of Lection		7. 35.

The share of materials in the total value of output is much higher in India i.e. about 70% whereas it is in the range of 52% to 54% in most of the developed countries barring France which reported 63%.

- 3.3.2 The wages and salaries formed 26% to 37% in the total value of the products in the selected European countries. Italy was reported to peaces the advantage ': cheap labour but her share remained 29.0% compared to 23.8% for India. The share of labour in the total value ranged from 21.4% to 23.8% in 1965 and 1966 in India and it was further reduced in the subsequent years.
- 3.3.4 Depreciation was high in Germany which signified large scale use of machinery.
- 3.3.5 Profits etc. are reported to be the highest in

  Italy with 14% of the value of production followed
  by figures for Vest Germany. In India profit share
  was 1.1% in 1965 but it jumped to 8.4% in 1966 and
  similar trends were visible in the subsequent years.
- 3.3.6 The total value added to the materials ranged from 37% to 49% in the European countries whereas for India it ranged from 28% to 31%. High west of labour, increased mechanisation, better standard of processing might have led to the appreciation of the value-added-element to the materials in the European countries.

#### 3.4 Hourly wages

3.4.1 The hourly wages in Indian Pootwear Industry compared to all manufacturing industries are given in table 12.

#### TAPILE - 12

## Hourly wages for Lesther and all industries in India

Hourly wages in the organised Pootweer Industry. Tenning Industry and the total manufacturing sector in India

Year	All manufacturing Industries	Leather Footwear	Tenning
1963	1,10	0.95	0.69
1968	1.58	1.03	1.08
1969	1.64	1.55	1.13

3.4.2 In the course of six years ending 1968, the wages per hour in the footwear industry remained rather constant with only marginal fluctuations. The everage hourly wages in all the organised manufacturing industries has grown by 50% over a period of six years and a similar increase in the Pootwear Industry was noticed. However it is to be noted that the labour in the Indian Leather Footwear Industry is still unexpensive compared to the figures for all manufacturing industries.

#### Source

(Annual Survey of Industries, Govt. of India, 1963 1968 and 1969, Vol. IV.)

#### 3.4.3 Value of output

The value of output per employee is given in table 13.

#### 1'ABLE - 12

# Value of Output per employee in India

# Output per employee and man hour - All manufacturing. Tookwear and tanning industries

-	Ou spy	it per on	loyee			a hour
Year	All in- dustries	Foot-	Tanning	All in- dustries	Poot- wear	Tenning
1963	12130	11582	20372	7.02	5.13	9.42
1968	21765	13886	40075	11.10	6.54	19.31
1969	24058	24345	42386	12.31	13.66	20.18

The output per employee has almost doubled in the case of all manufacturing Industries and sice tanning industry between 1963 and 1968, whereas for feetween a substantial increase was noticed only between 1968 and 1969. It is comparable with the all Industries average in 1969, Higher output per employee in the tanning industry is attributable to the large scale production of semi-tanned leathers.

# 3.5 Weggs-comparative position

3.5.1 The comparative wage rates in Britain and India are given in Table 14.

#### Source:

Annual Survey of Industries, Govt. of India, Vol.IV of 1963, 1968 and 1969.

Hourly carnings of workers in Postveer Industry - Britain and India

Lear		Britaia	India	
1964 1969	eres	7.13 12.08	1.08	

The total hourly earnings of the British Footwear worker is 7 to 8 times mere compared to the earnings of his Indian counterpart.

- 3.5.2 The wage rate has increased by 69% in Britain in the source of 6 years ending 1969 against the increase of 44% in India.
- 3.6 Comparative wage position of India and Burepean Countries is indicated in Table 15.

#### Ecurco:

- 1. Annual Burvey of Industries, Govt. of India, Vol. V of 1964 and 1969.
- 2. Pootvour Laduetry Statistical review 1970 British Pootvoor Manufacturers Pederation, London, 1971.

TABLE - 15

L. Between Ladus try hourly wages comparative position 1967

Teaco 2.37 4.03 Supres 4.03 Supres 4.03 Supres 3.59 Supres 3.50 Supres 3.50				Minimum	Maximum
8.79 3.58 Suposo 8.79 3.58	Page 5:	e de la companya del companya de la companya del companya de la co	*		h aa
3.50 3.50 3.60		<b>France</b>		2.37	4.03
2.79 3.52 Supoco 10.00		Supres		4.38	7.46
2.79 3.52 Supoco 10.00		•			
				그 그 아이를 가져가 주셨다는 살이 이 그 얼마?	
		Repose		9.60	10.00
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eller in de la companya de la compa La companya de la co		- <u> </u>			
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		<b>Dances</b> (1)			

- 22. India value of output per man hour (1968) b. 6.55
- 3.6.1 With the exception of Italy which was paying 3 to 4 times the average Indian vages, other European countries report a substantial multiple of 7 to 8 times of Indian vages. It may be interesting to make that the value of output per make hour in India is lesser than the maximum hourly vages in the selected European countries
- 3.7 The comparative unit labour cost is shown in table 16.

#### اودعستا

- a. Tripartite Technical meeting for the leather and feetwear industry Report II, ILO, 1969
- b. Annual Survey of Industries-Cabinet Secretariat, Govt. of India, Vol.IV, 1968.

#### TABLE - 16

# Unit labour costs for making footwear in the Selected soustries 1969 (in dealers).

Sweden 3.10		
U.S.A. 3.00		
Canade 1.90		
Yes's Germany		
Premes to the state of the stat		
그렇게 [[[] [] [] [] [] [] [] [ [ [ [ [ [ [ [		
U.X.		ing Parit 4
Italy 1.00		
Spain 0.70	and the second s	
		A THE STATE OF THE
		y magazi wa ya gapagi a sa
0.29	*	
b. Hand made 0.60 to 0.81		
o. Footweer factory		
sede indigenous		
type 1960 0.11		la propinsi belia propinsi Belia propinsi belia
d. Factory made )	and to do so was a second	er Property of the control of the con-
1966 80% indi- 0.22	All the second of the second o	reservation of the second
genous type )		

#### feares.

- a. Postweer 1980
  - British Postweer Namefacturers Pederation 1971
  - b. Report of the Committee on Mechanication of small scale feetwear industry. Development Commissioner Small Scale Industries, Govt. of India, 1968.
  - e. Annual Burvey of Industries, Govt. of India, 1960 and 1966, Vol. IV.

3.7.1 In India for making a pair of shoes in the mechanised factory sector, the labour cost is about 0.30 cents compared to 3 Collars in U.S.i., and 1.80 deliars in U.K. Spain is nearest to india in paying less for labour.

Comparative output per person in India and Britain is shown in table 17.

TABLE - 17
Protect output per person - Britain and Yadia

		Britain	2	Ma
		(1970)	(1966)	(1969)
s. No. of	pairs per	1962	1501	J.A.
b. Milus (Supess	of productio	a 44031	11068	24000

# <u> Letet</u>

India: The production is 20% western type and 80% indigenous type (1966)

The value of production per person was about double that of India in 1969. The pairage produced per person is also more in Britain though the data are not strictly comparable because the figures are not for the same year and the types of products are different

- British Manufacturers Federation, 1971
  - b. Annual survey of Industries, Govt. of India, 1966, Vol.1

J.8 Gemparative cost of Investment in Europe and India Comparative study for Nems' shoes on a daily production capacity of 300 pairs is given in table 18. (sement lasted or cemented or McKay construction)

TABLE - 18
Comparative cost of Investment (in supece)

· · · · · · · · · · · · · · · · · · ·	India	Rivere	
Dailding cost	100000	100000	
Machinery, care, furniture, etc.	880000	550000	
Total fixed investment	980000	690000	
Recurring investment	253000	360000	
Total investment 1	. 333000	1.010000	
Total	.33 million	1.01 mills	 .ea

3.8.1 The imvestment required for making 300 pairs of shoes per day (1966) in India was b.1.33 million compared to h.1.01 million in Burepe. The high cost of indigenous and imported machinery was the main reason for the 30% increased investment required in India. The dependence on the imported machines adds to the cost of initial investment in the developing countries. The imported machines attract out tom duties in India.

### **TOWNEY**

Report of the Fourth Plan footvear expert committee 1966 (patel committee) Ministry of commerce, Govt. of India

3.9 In table No. 19 the comparative costs of production per pair of shoes are given:

TABLE - 19

# Average Unit cost - On a daily capacity of 300 pairs of cement lasted or cemented or NcKay construction

		estern eropo	Indian machine	Indian band
	8	<b>5.</b>	made(h.)	made(b.)
Depreciation (10% for machinery and 5% for				- · · · · - · · · · · · · · · · · · · ·
building)	0.175	0.860	1.030	
Interest (10% in India		***		
and 30% in Europe)	0.586	2.930	1.480	
Salaries	0.860	4.300	0.830	6.000
Office staff	0.320	1.600	1.220	
Other charges	0.145	0.730	0.688	1,225
	******	*********	- 450	**********
and the second of the second o	2.086	10.420	5.148	7.225
Material .			, , , , , , , , , , , , , , , , , , , ,	*****
Leather upper				
lining and others	1.410	7-050	5. <b>6</b> 00	7.000
Sele leather	0.940	4.700	5.300	6.300
Grinderi es	0.100	0.500	0.750	1.000
Packing	0.121	0.600	1.500	1.500
Takes	0.150	0.750	1.200	1.500
	2.720	13.600	**********	***********
	**/AV	1,7000	13.150	21.8004124
8004	4.806	24.020	18.298	24.525

Note: \* Reproduced-totals not correct.

#### Source:

(Report of the Fourth Plan footwear Export Committee)
1966 (Patel Committee) Ministry of Commerce, Govt. of India.

- 3.9.1 The costs towards depreciation, interest on borrowings and salaries are much higher in Europe. The labour cost was almost four times and interest charges were double those for India.
- 3.9.2 India is having a definite advantage over marepe in the inexpensive cost of labour and capital though the latter is scarce.
- 3.9.3 The material costs are more or less the same with the exception of sole leather which costs high in India eving to the high incidence of imported processing materials. The costs of grinderies, packing and taxes are also high in India. The levy of 10% excise duty on mechanised units adds considerably to the costs in India.
- 3.9.4 In the total cost of production for making a pair of shoes India incurred only 3/4th of the costs expended by Europe.

•

81

2

- 3.9.5 The Indian hand made footwear cost is equivalent to the machine made footwear of Europe. The hand made shoes are made by the self exployed cobblers and small scale units largely by making use of hand tools.
- 3.10 Comparative study of hand made and machine made footwear production in India.
- 3.10.1 The data shown in table 20 reveal the comparative position with regard to labour and wages in the Indian mechanised and non-mechanised sectors of the footwear industry.

TABLE - 20 1/

# Busher of persons employed 'n mechanised and non-mechanised

		No. of	Labour	Other char	7600
	 gory & city	persons employed	Direct	Machine opera- tion	Total
			h.	R.	No.
S,	paire a day,	66	3.90		3.90
	 Daily wages Average per employee				<b>6.50</b>
11.	100 pairs semi- mechanised	<b>*</b>	8.07	0.09	2.96
	Daily average wage per em- ployen				7.17
XX	300 pairs semi- sechanised		1,97	0.16	2.13
	 Daily everage wage per om- ployee				7.67

3.10.2 Labour constitutes generally 20% to 45% of the cost in the footwear industry. Any reduction in the labour cost will have sixeable influence on the price, competitive position of the product and the prefit margin. For instance, the switch over from hand operation will result in the reduction of the cost of labour by 25%. This 25% of the labour cost will cause the reduction

#### Serves :

Adapted from the data available in the report of committee on mechanisation of small scale leather footwear industry. Development Commissioner, March '68. Small Scale Industry, Govt. of India, New Delhi ...4.

of the total cost by 6% which will add to the value added for the enterprise. Higher mechanication (300 pairs) causes the cost reduction by about 50% towards labour and the overall cost by 10 to 12%. However the limitation of this analysis is that though the cost of depreciation of machinery is taken care of, the element of interest an capital invested towards mechanisation is not included. Nore detailed information is provided in the appended table Nos.7, 8 and 9.

3.10.3 The other effects of mechanisation are enumerated below:

# 143LB . 21

## Mark Marks Andrews

Capacity	No. of persons	He. of persons	********
(daily)	required (Mand made)	Nachine made	Labour dis- placed
100 pairs	60	40	20
300 pairs	180	77	103

3.10.4 The displacement of labour is a major limiting factor for mechanication in view of the availability of the large number of un and underemployed labour in India. Unless production is increased considerably creation of more employment would be a problem. It is estimated that at present annually about 200 million pairs of feetwear are produced in India. If the entire production is mechanical (with units of a capacity of 100 pairs per day) the labour requirement would be

# Intron!

same as for table No. 20.

0.27 million. The labour force available is estimated be more than 0.6 million in India. The present production of 200 millions should be at least trebled to employ effectively the available labour. However it is to be conceded that the establishment of new mechanised footwear units may attract partly the idle and under employed labour from both urban and rural areas. As such much displacement of present labour employed is not envisaged.

# 3.10.5 Labour earnings

Another feature discernable is that with mechanisation the per employee earning increases and this will attract the heriditary labourers from other occupations also.

3.10.6 The production per man day has also increased with mechanisation as shown in table 22.

TABLE - 22

# Production per man day

	Drag and size of unit	Production per man day
	Mand made 100 pairs capacity	1.67 pairs
b.	Nade in semi-mechanised us	2.50
۰.	Nade in semi-mechanised us	

# Leures!

Same as for tuble No. 20.

#### 

the developing ocurries.

- the details and date provided in threatler chapter conclusively prove that India is having definite advantages in absolute wage and unit labour costs, cost of capital and other over heads besides abundant availability of both men and reterials. Being an internationally traded fashion and essential commodity the emphasy hungry developing nations can step up fortunar exports to meet their import requirements of capital items.
- The world situation as quite conductive to increase the exports/ The dignizional suppliers of footweer to the Wostern Benepa and U.S.A., much as Italy, Spain, France, W.K., and Japan and Osechoslavakia to USSP are parpulsal dependents for raw materials from the externel sources. The recent pelicies of the developing countries restricting the export of magazinin in the new and memi-tanned forms to facility to the development of their national tenning and ferturar Amendates would tell upon the supply of such materials to the above countries. The direct injust of almashed leathers from the growing countries would add to their cost of procestion besides adjusting their production techniques to suit the quality and structure of the imported materials. Moreover the labour and manufacturing costs are increasing in line with the substantial growth of other manufacturing Industries. national policy of nome Governments also discourages investment in consumer grade industries. The

availability of labour itself is a major problem and the employment of women labour in the footwear industry to the entent of more than 50% in many countries is a pointer in this direction (In India women-labour is meagre, rather nil in the organized footwear industry). It is estimated that the present World per capita consumption of one pair of footwear would double by the end of this century, due to increased standard of living and population growth. The world production of footwear should increase from the present 3000 million pairs to 14000 million pairs by the end of the century to meet the additions meeds. "Even assuming that 50% of the requirements will be met by synthetics, the additional demand for leather footwear would be more than 5500 million pairs. All these developments are definitely in favour of the developing countries programme for premotion of exports, to the "World's most discriminating, prosperous and sociologically advanced people".

- India are drawn from the depressed classes. Any development in their economic position would tend to be a socially ameliarative measure. The modernisation of footwear production would offer them better working conditions, additional wages and a welcome change in their social standing.
- Nochanisation has the effect of reducing both the number of operations and the time required for .. each operation. The cost reduction expected per unit of output is substantial too in the developing countries where the wages form around 20%

#### \* Source:

Leather London. Oct. 1971, Vol. 173, No. 4356, Leather Science & Technology Section. The increase in productivity is indicated in table 24 for a group of factories in U.K. after increased mechanisation.

TABLE - 24

#### Number of pairs per operational hour

			1950	1964	Increase
Making a	nd finishi	ng.	2.21	4.04	(83%)
Maki ag.f	inishing a	md			
shor ro	0		1.74	2.82	(62%)

In the developed countries the object of mechanisation is to increase the productivity, so that the output per unit labour cost equals that of other preducts. It means that labour should contribute significantly towards output value comparable to other industries. The drift of labour to other industries can be checked only by paying comparable wages. In the developing countries, such a problem does not exist in the absence of competitive employment opportunities. However to increase the quality of the product and achieve standardisation to cater to the cophisticated internal and external markets, mechanisation is necessary.

#### ourcel

Effects of Technological developments in the strucure and level of employment in the leather and footwear industry. I.L.O. 1969, Vol. II.

- Introduction of flow lines, prefinishing, and injection moulding are some of the innovations that have changed the structure of the industry and rendered many skilled operations superfluous. For instance glue and cements have reduced the need for hand stitching. The rate of material cutting has increased rapidly due to the use of poremerics.
- The growth of Italy and Spain as a substantial producer and exporter of footwear was based on semi-mechanisation, differential wage benefits compared to affluent Europe, coupled with never designs. A survey of the markets for footwear in various countries made by the Patel Committee (Govt. of India) revealed that the demand for hand made shoes is limited because of its high price and non uniform quality.
- The Govt. of India is offering many incentives such as certain percentage of exemption from income tax for exported products, tax holiday special development relate etc., for small scale units. The mechanised footwear units will largely fall under the category of small scale units and can avail the benefits.
- 4.9 It is also gathered that mechanised footwear units do mot require high investment nor intricate technology.

#### CHUPTER - V

Problems of mechanisation of Footwear Industry in India.

#### 5.1 General problem

The constraints on the development of footwear machinery are the non-homogeneity of the main raw material for footwear viz. leather which is available in different sizes and thickness and the complex non-standardised shoe shapes and sizes. In U.K. it is reported that the style changes four times in a year and about 20000 styles are in offer to the customers. The intricate problem is said to be of obtaining a three dimensional shape from a two dimensional material.

#### 5.2.1 Labour probleme

The cobbler profession is a hereditary occupation of the depressed classes/and it is rated low in the economic avocations. The hereditary character though it offers continuance of hereditary skill and craftsmanship has virtually shut out effective competition from other communities. The labour supply is influenced by the regional distribution of the people of this cases. The labour is not highly mobile also. The other problems with the labour are illiteracy, absenteeism, etc.

#### 5.2.2 Lack of entrepreneurship

The major part of production of rootwear in India

#### \* Source:

Journal of the British Boot and Shoe Institutions, London, (Nov.-Dec., '72, Page 196) persons household establishments with small or nil overheads. The capital investment of such units is confined to a few tools costing %.80 to 100 per unit (10 to 15 U.S. Dollars). The household footwear industry in India is reported to be more profitable than most of the other household industries. The large number of household units do not pessess the necessary capital, market knowledge nor enterprise to venture on mechanised footwear production.

- 5.2.3 i. Problems of availability of machinery
  Suitable machines for semi-mechanisation of units
  machine operators and maintenance machanics are
  not available in adequate measure.
  - ii. On the other hand limited demand for footwear machinery deters the machinery manufacturers from taking up production with necessary economies of scale. Moreover specific purpose machines of varying types are required more than general purpose machines.
  - iii. There are fast changes in the products and production techniques leading to a high rate of obsolascence.
  - iv. Facilities are not available for evolving newer designs and models and information is also lacking on standard specifications on footwear machinery. The estimated requirement of machinery in 1970-71, for small scale units is given in the appended table No.10. More detailed survey is necessary to evaluate the needs of the industry.
- 5.3 Constraints through State Policy

#### 5.3.1 Levy of excise duty

Covernment is levying to excise duty of 10% ad valorem on footwear making units which employ 50 or more workers or employ power exceeding 2 H.P. The component parts of footwear command a levy of 15% ad valorem. This levy is a major constraint for modernisation and mechanisation of footwear industry.

5.3.2 The mechanised footwear units are subject to sales tax, factory and labour laws. The labour law would warrant payment of leave benefits, provident fund etc. This would add to the labour cost by about 25%.

#### 5.4 Employment

The rising production is likely to be accompanied \*
by rising employment only if traditional methods
continue to be used. Much labour will be saved by
introduction of machinery for a given output. Unless production is increased more idle labour cannot
be absorbed.

#### 5.5 Marketing

The Indian market for footwear is conditioned by the economic and social condition of the people and seasonality of demand due to varying climates and religious customs. The poor economic condition of the major populace restricts the demand to the inexpensive durable footwear such as those made with motor car tyre stc. in sizeable quantity in rural areas. Absence of sophisticated sustained internal market is a major hurdle for the modernisation of the footwear units.

- 5.5.2 Mechanisation would result in cost reduction previded continuous production is assured at a optimum level. The internal seasons! marketability creates the problem of stocking the products in the offseasons.
- 5.5.3 The non-mechanised small scale units now depend on middlemen or large scale footwear manufacturers who offer only small margin to market the products. Imadequate profit deters further investment in the mechanisation of the industry by the small scale operators.
- 5.5.4 The leather prices are fluctuating widely and this inhibits the planning of long term increased production.
- 3.5.5 In India, two large scale footwear production units are functioning with a distribution net work of more than 1000 branches, competition from these firms is formidable to the new units. However the retail markup of these large firms is about 30% to 35% and the small scale units can reduce this mark-up to gain competitive edge.
- 5.5.6 In the footwear production, product mix is more important to make the products saleable to maintain the profit margin them the economies of scale. The market intelligence for the range of products required is not available in the developing countries.
- 5.5.7 The competitive position of the products of developing countries should not be judged in relation

to the retail prices in the advanced countries. For instance a pair of canvas shoes with the exfactory sale price of 50 U.S.\* cents from a developing country is soldet 1.64 dollars i.e. more than 230% in West Germany. The details are given in the table - 23.

TABLE - 23

Marketing and other costs for a pair of exported footwear

	Dollars	Index
	0.50	100
	0.03	
F.O.B.	0.53	105
(10.5%)	0.06	
	0.59	118
	0.01	
	0.12	
	0.72	146
	0.72	208
	0.20	
		0.50 0.03 F.C.R. 0.53 (10.5%) 0.06 0.59 0.01 0.12 0.72 0.72 0.72 0.20

#### Sources

Selected markets for canvas sports footwear International trade centre ITC/MR/2/267, December 1970

#### CHAPTER - VI

### Recommendations - Measures suggested for the Mechanisation of Footvear Industry in the developing countries

#### Part I. - General Institutional arrangements:

- tion among developing countries on many important areas of common interest. It is suggested that a footwear design, development and marketing institute may be started in one of the developing countries with the following functions:
  - a) Designs and styles for Footwear may be developed to suit the world markets. Fashion becomes a dominant factor in the affluent countries, and hence it is necessary to keep up with the changing trends of fashion.
  - b) Development of suitable footwear machinery to meet the growing needs of the developing countries is imperative. The machines developed should be inexpensive, small, simple and easy to operate. The existing production techniques should be re-examined and simple improvements should be suggested.
  - c) Extensive foot measurement research programmes should be launched in the developing countries to find the basis of new shoe shapes and fittings. The research results are expected to lead to greater economies in the last production, improved shoe fit and increased comfort. The data would facilitate the production planning of the mechanised units.

- and technical of leather and footwear industry in the developing countries. The proposed that tute in collaboration with Asian Institute of Economic development and planning ECARE and CLRI can apparent detailed banch-mark studies on leather group of industries. The data would be such use-ful in planning the progress of the industry.
- e) The institute can serve as a sort of consortium for export marketing of footwear and undertaking joint advertising etc., for developing countries besides suggesting regionalisation of the production of certain varieties.
- f) The institute can organist a leather and footwear fair restricting the participation to the developing countries in France or Germany to boost the sale of their products. The present international leather and footwear fairs are deminated by the developed countries.
- g) A full line forcing method of linking the sale of semi-tanned leathers and finished leathers with a portion of foctwear may be evolved for the uniform adoption by all developing countries.
- h) In France a bureau is set up to promote through a synthesis of mutual ideas, colours, silhouettes, and leather structure in order to establish a general French trends. The proposed institute can arrange for the development of regional trends (such as Asian, Latin, American, African, etc.) or national trends for the growing nations.

#### Sources

Journal of British Boot and Shoe Institution, January-February, 173, Vol. 20

- 6.1.2 The problem of mechanisation of footwear industry in the developing countries is so marsive that the present entrepreneurs with inadequate capital and knowledge cannot even touch the fringe of the problems It requires organised attempts by the Covernments and international agencies such as world bank, UNIDO, UNDP to prepare a blue print for the development and implement the same with substantial financial assistance.
- 6.2 Recommendations Developing countries with particular reference to ladia
- 6.2.1 A clear cut plan and decision regarding the size of the units and choice of techniques is necessary. Since the factor endowments are marked by plentiful supplies of labour and shortage of capital, the development strategies should follow the use of labour intensive technology to the extent possible.

Mechanisation of footwear does not mean complete automation which is reported to be impossible even in the advanced western countries. In the developing countries, mechanisation may be effected depending on the capacity of adoption by different sectors.

Marginal improvements, without such involvement of fixed capital, such as improved tools, equipments and methods of fabrication may be suggested for the household and cottage units. The small scale units can go in for power operated machines and this sector may be treated as core sector for intensive development. The large scale units can expand and modernise only to cater to the export markets.

- In India, the rural cobblers generally combine 6.2.2 agriculture and tanding. In the urban areas also the labour is not effectively employed. footwear industry, where supply of labour and raw material is dispersed geographically and the minimum optimum scale of operation is low, it is quite feasible to evolve a sector with an intermediate technology which will be viable and competitive over a large area. These units should not be loose knit organisations and should be co-ordinated by am apex body called "Footwear Industry Development Corporations which would look into three important functions viz. supply of machinery on hire purchase basis, raw materials and arranging for marketing initially abroad and at latter stages in the internal markets by establishing a net work of retail units. The corporation can also regulate the production of the various units by suggesting particular designs and styles to suit the buyors both internal and abroad. A mode of fabrication of footwear in which a judicious combination of old and new methods can be suggested to have distinct appeal. The developing countries can certainly do a good job if marketing is assured.
- 6.2.3 As regards the size of the units, the units with the employment around 50 persons may be encouraged. As may be seen in table 25 more than 80% of the units are employing less than 100 persons in the advanced EEC countries. The small units with 10 workers and below accounted for more than 50%.

6.2.4 As an immediate measure, prior to the setting up of Footwear Development Corporation, the Governments of developing countries can arrange for the establishment of mechanised small scale Footwear units in the viable centres and the same may be hired out to Individual entrepreneurs or co-operative societies.

· .....

- 6.2.5 The Footwear making machines may be made available by the manufacturers to the footwear units on hire purchase basis. The charges can be collected on piece rate basis or a minimum rent may be fixed. The machinery may be replaced with a better one in line with new developments.
- 6.2.6 As the tanning industry is also to be geared to make finished leathers needed for footwear industry in the developing countries, it is suggested that to the extent possible integrated tanning cum footwear units may be encouraged.

#### 6.2.7 Training

- i. In making footwear numerous operations and dexterity of the workers are involved and greater flexibility can be facilitated in planning the flow of work, if the operators are trained to do more than one job.
- ii. The Governments should take steps to organise apprenticeship training for footwear mechanics in the organised footweer units.
- iii. The training programmes should synchronise with the job requirements of the industry.

TABLE - 25

Distribution of undertakings and of imployment in the Foot-west Sector of LAC Countries by size of undertaking, 1958-67

Size of under-	19	561	19	67
taking (Labour Force)	No. of under- teking	Employ- ment	No. of under- taking	Employ- ment
Workers	ं उसे पत्र आर्थी केला उस्तर क्रम्स, इस्तर स्कूबा ,	19 Mer ver 1695 Staft volk Spek va var gegrege vage vage v	ை இரு இருந்தை அடிய வடிய அடிய நடிய நடிய நடிய நடிய நடிய நடிய நடிய ந	THE IN THE SEAS THE SEAS THE SEAS THE SEAS SEAS THE SEAS SEAS THE SEAS SEAS THE SEAS SEAS SEAS SEAS SEAS SEAS SEAS SE
1-10	2977	20260	2301	13315
11-50	2394	50955	2184	46532
51-100	1940	61518	1093	61953
101-200	404	59489	426	60944
201-500	173	49238	194	58323
501-1000	42	29507	44	29078
Over 1000	19	28632	17	25158
TOTAL	7049	296582	6259	281426
****	Political residence			-

#### Source

EEC: Comité de liaison et d'étude de 1' industrie de la chucussure de la CEE: "L" industries de la communaute economique europeenne; bilan de dix années de Marche commun; inventaire des problems et prooccupations majeurs, 1958-1967\*. (Brussels, 1968) simeographed, pp. 5 and 9

Tripartite Technical meeting for theleather footweer industry-General Examination of Social problems in the Leather and Footweer Industry Report 1, Table No. VIII.

#### 6.2.8 State patronage

In the purchase programmes of Governments of the developing countries preference should be given to the newly established mechanised small scale footwear units. In India the data of the Government purchases of footwear for the last three years are given in table - 26.

#### TABLE - 26

#### Government purchase of Leather Footwear in India

(Value in million rupees)

68-69		36.46
		JU 1 10
PA		
70-71		20.08
	<ul> <li>A transfer of the section of the secti</li></ul>	39.95
71-72		0 K MM
4		25.77

The value of purchases is substantial and the Government patronage will be much beneficial to to market the productsof the new units.

#### Source 1

Director of Govt. purchases 68-69, 70-71 and 71-72, Department of Supply - Director General of Supplies and Disposels, Govt. of India, New Delhi.

INDIAN LEATHER FOOTVEAR INDUSTRY ORGANISED SECTOR (B. millions)

APPENDIX -1

Years

General particulars and capital structure

		<b>3531</b>	1960	1963	1966	1968
	1. Number of unite		•	**************************************	•	*
ď	2. Number of employees	1221	1184	5232	6340	6834
	Capt tal employed		1.16	30.8	32.4	41.6
	a) Fixed capital total	<b>M</b>	0.33	3.80	5.2	8.6
	Wachinery of the state of the s	<b>4</b>	0.17	H.A.	2.80	M.A.
	o) Vorking capital		0.83	26.9	27.2	33.0
*	Per employee fixed capital(actual)h.		•	663	820	1258
'n	" ,working capital (actual)	B. 1146		\$636	4290	4828
6.	" ,total capital (actual)	B.1 555		\$299	5110	5086
2:	Fixed capital to total output ratio				1 2 4	
œ	Vorking capital to total			2	11236	1:2.9
6	Capital to output ratio	1:506		N	1,202	1,2,3
10.	Input output ratio	100,105	***************************************	100:108	100,109	1001113
-	Total output	10.7	12.80	9.09	72.0	6.46
12.	Total imput	10.01	12.70	56.1	65.98	83.6

Annual Survey of Industries Volume IV of 1959, 60,63,1966,1968 and 1969 provisional figures). (Source:

# APPENDIX - 2

2. Patern of Employment and vage structure (Vages and man hours in Million)

	1960	Per-	196	Per-	1969	Per-
	2	8	2500	<b>%</b>	2374	88
September 1	8		9	2	489	18
	<b>5</b>		6340	8	2863	100
	8		į.	F	5.1	99
b. Other than workers	0.313		88	8	8	ま
	2		5.53	8	7.9	100
III. Anguel men bovre verked						•
	*		3		2148	
Daily all employee average working hours						
No. of working days in a year	8				1 4 2 4	

Ambusi Survey Industries, Govt. of India, Velume IV of 1960, (Personal)

	1. Cost o	1. Cost of production	Organised (8-a1111	Organised sector Indian Footwear Industry (8-millions)	1 Footve	ar Indus	Ħ	(), () () () () () () () () () () () () ()
		b.Materials		if.Non-leather			Total	Total
	a. Mels	COMBRE	1.leather	materials	Others	19603	cost	outout
1960	0.067	10.204	5.112	4.624	0.468	2.428	12.699	12.804
s to cost	0.53	80.35	40.25	36.41	3.69	19.12	100.00	
s to output	0.52	69.62	39.92	36.11	3,66	18.96		
2961	0.649	33.044	22.298	8.176	2.570	10.179	43.873	44.269
s to cost	87.	75.32	50.82	20.00	5.86	23.20	100.00	
6 output	1.46	74.61	50,35	18.46	5.30	22,98		
9961 6	1.431	149.126	35.28	11.488	2.357	15.387	65.944	75.00°
to cost	2.17	かず	53.50	17.42	3.57	23.34	100.00	
\$ to output	1.96	68.19	18.07	15.95	3.27	21.56		
1969	*.0	48.6				Ø. 1.	56.9	2.60
s to cost	0.70	85.40				13.90	100.00	ζ,
s to output	0.57	69.69				11.33		<i>⋾</i>

<sup>.</sup> No own production of leather.

Covt. of India, New Delhi.

<sup>@</sup> Factories producing tanged leather for feetwear manufacture and also for sales (Source: Annual Survey of Industries) Year 1960, 1962, 1966, and 1969

5.61

					3	Tana.	4	APPENDIX-4	
			8	TAN TOUR	Alue mi	OUTPUT PATTERN POOTWEAR - ASI CENSUS SECTOR (Value million rupees)	CENSUS S	ECTOR	
		1961		Value	1964	3	Unit	1966	Value
a. Vestern type wholly leather 000' pairs	pe wholly 00' pairs	127	2.055	16.18	1084	19.029	17.55	1327	21,382
% total			(12.61)			(30.83)			
b. Western type mixed material 000 (% to total)	be mixed	**	0.168	15.27		1.00.1	<b>2</b> 8		5.500
c. Indigenous type wholly leather 000* pairs (% total	type ather 000 total	2	(0.98)	<b>Ş</b>	4918	24.925 (40.38)		8	33.703
d. Indigenous type leather mixed material 000' pairs (% total) 3521	type lear material (% total)		2.3.3.4 4.9.4	8					
e. Leather cuttings (tonnes) 0.3	tings (tor		0.001		213	3		***************************************	0.742
f. Leather cut compo- nents(000 pairs)	compo-				8	8			

12.27

Value

Uni t

16.11

Source: Annual Survey of Industries Census Sector, Gort. of India, Volume No.4 of 1961, 1964 and 1966.

4.589

5.429

7.57

215

tanned 000 Sq.meters -

1. Others (Value only)

TOTAL

h. Upper leather chross g. Sole leather (tonnes)

0.176

2.853

644

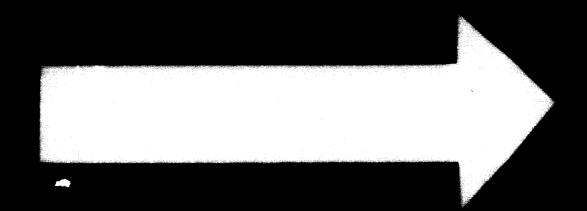
7:12

1592

Organised Footwear Industry in Indis. Hages and output pattern per amployee

(Source: Aunual Survey of Industries, Volume IV of 1960, 1962, and 1966)

so to of India.



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## 2 OF 2

## 0519



#### APPENDIX -6

### 100 Pairs Hand Operation: Co. of Labour per pair of Hand made footwear

S1.	Hand Operation	Men	Labour charges	•
1.	Clicking	3	19	
2.	Closing	4	44	
3.	Clicking Sole, Insole comp.	3	19	
4.	Splitting	2	15	
5.	Lasting	12	81	
6.	Welt stitching			
7.	Sole stitching			
8.	Hand Assembly			
9.	Heel Attaching		19	
٥.	<b>Drinning</b>			
	Pantohing			
			m. J.90 per p	air 

Source: Report of committee on mechanisation of Smell Scale Leather Footwear Industry, Govt. of India, New Delhi - March 1968. Cost of Inbour per pair of scales expensive and the Ladia (2011) and the

		<b>.</b>	daily capecity	scity)			Labour	Per Jaconett
. c		H. P.	K S	C08 +	Dep.	Power con-	charges	Matotenence/ Lubrication
-		×			6.		۵.	.6
-	Clicking by hand or Machine						61	
8	Upper skiving Machine	ņ	e e	3500/-	. 57	ě		
ค้า	Assemuly by hand		^			•	0.19	•
4	Beading Machine		•		•	*	o de la companya de l	ŕ
κ,	Purviehing Machine		•		•	*	4	ž
٠.	Zigzag Machine		•			. •	•	•
	Post Bed Seving		<b>A</b>	× × × × × × × × × × × × × × × × × × ×	ş	°.0	*	50.
80	Double Meedle Machine				•	•	•	*
ø,	Flat Bed Machine	r.	N	1/1/09		9.0.	S	8
ું	Roller Type Left Arm Machine	ř.		- 186 - 186	9	900.	6.0	•
9 049	Strap Cutting Hand or Power (Ind)			250/-	Ş	> §.	0.0	9
2.	Strap Folding Mand or Pover			3	8		0.05	Ğ
	Eyeleting.	*			5.		\$0.0	
*	Bottom Clicking Hand		•		•	•	0.10	·
35.	Splitting Hand or Power	•	•	·/88	ä		0.15	1000
<b>*</b> 6.	Welt Catting Mand or power		•	/2005	ĸ.		Ċ.	€0000•
17.	Lasting Jack		•	ż	8	21	ı	(000e
¢				•			0.5	•

				•	•	0	0
19. Full Over Machine	•	•					• `
20. Seat Lasting Machine					•	•	•
of. Side Lasting Machine		•			•	;	ŧ
22. Younding Machael		1				•	•
23. Welt Sewing Head of backines		*				i i	i
24. Cutsole Stitching Machine					• 3	o	1
25. Rough Rounding Channel Cutting Nachine						o •	<b>?</b> •
26. Sole Levelling Machine						<b>ĕ</b> (	1
27. Neel Attaching (Hand or rower)			70071			• 0	\$ 5 2
28. Combd. Finishing		•	\ \ \ \ \				
29. Trimming Machine						2	(49) · 9
30. Finishin Mand or Machine						51.0	ŧ ,
31. Separing Machine					• •	` . •	<b>4</b> 4
12. Sprny colouring Machine					•	4	i 1
33. Edge Setting Machine						•	•
34. Buffing Mochine				•	1	•	• •
35. Bottom Edge					e <b>∳</b>	1	) 1
36. Polishing Machine							•
37. Past Removing					*	•	•
38. Socks & Lace fixing		•			*	•	•
39. Stamping					0.05		
		0.4	27.907			0.10	40.6

## APPENDIX-8

Cost of Labour per pair of Seat mechanised units (for 300 cairs capacity) daily

		. 1		1			· (	,
NO.				<b>9</b>	e de de	consumed	Labour charges	Replacement/ Maintenance/
		3	4.	*	.0	7.	œ	9.
	Clicking by hand or Machine(s)	ž.		6500/-	1.90	90900	0.06	\$600.
,CA	Upper skiving machine	0.5	-	3500/-	0.97	400.0	0.05	6:00.
ë	Assembly by hand		144 1 <b>1</b> 1	***************************************		1	ı	ı
\$	Beading sachine	0.25	***	-/0005	1.60	, 002	0.05	.0023
*	Burnishing machine		•		•	•	•	•
•	Zigeog machine		•			•	ı	•
	Post Bed Sewing machine	0.0	•	3375/-	5.	\$00°	5.0	.0023
8	Double Reedle machine		1		1	•	1	,
6	Flat Bed machine	0.5	N	1691/-	0.47	300.	0; °0	6000
10.	Roller type left arm		**	-/0921	0.00	\$CO.	20.0	9600.
6 6	Strap cutting hand connections (Inc.)	i,	€**	10001	0.30	.* (° ()	£0 <b>*</b> 0	9000.
12.	Strap folding hand c. power	n č	•	10001	0.50	.3 00.	٠ ر	4.50
13.	Byelot cing	6	\$r*	*coo/-	3.	ं	5	4,00
14.	Bottom clicking hand or power	0		-/0004		č. O	€0 <b>*</b> 0	€500

						•	<b>.</b>
	6			8	60 6		
Velt outting hand or		•		``	5	0.05	.001
	0.5	•	1,000	0.47	400.	0,05	000
Lasting Jack	•		ż	0.00	•	<b>1</b>	
Lasting hand or machine	•	*			į	•	•
		1		ı	•	0.50	
	•	•		•	•	ì	•
Pullover machine	•				ŧ	ŧ	•
Side Lastias machine							•
		•		•	•	•	•
FOUNDING MACDING	•	•		,	,	•	1
Welt Sewing hand or						·	•
Bachine	•	S			1		
Outsole stateban				)	ı	3	•
machine	5.5			8	619	4	4
Rough Founding channel						\$	Š
cutting nachine	•	· **		1			
					•	)	,
DITTELLE SKITTEN ST DICH	*	ı			*	i	*
Change 10	•	*		9.	0.00	0.0	2000
Comb Pinishing mechine		•		•	1	<b>)</b>	
				\$		í	•
				?		· 05	. 0022
	*	•		•	•	•	•
		•				0.0	
						:	
・							

			•	•	Ň
			•	•	•
			•	•	•
			•	•	•
Setting often setting				1	•
Polishing mechine			•	i	•
			٠	•	٠
Sooks & Lace firster				•	٠
	3	\$	•	0.03	•
	53.50	8	0.8	8.1.5	8

2.1. per pair.

Deport of committee on mechanisation of small scale leather footwear . Industry, Cort. of India, March; 1968

### Estimated demand of Footwerr machinery for Small Scale mechanised units by 1970-71 (India)

#### Indigenous Machanery

S.No.	Name of the Muchines	Quanti ty
1.	Heavy Luty Factorn Shear	
2.	Pattern Vice	144
3.	Grading Pantograph	144
4.	Strap cutting michine	144 144
5.	Strap folding machine	144
6.	Upper Spray cementing unit	10
7.	Flat Bed sewing machine	20
8.	Cylinder Bed sewing machine	20
9.	Punching and Hivett setting machine	87
10.	Manually operated punching and	• •
	eyeletting machine	
10.	Gimping and pinking machine	26
11.	Seam rubbing tool	73
12.	Socks and lining stamping machine	<i>1</i> 3
13.	Heavy strap cutting apparatus	20
15.	Sock printing machine	<b>.</b>
	Flat 3ed sewing machine for perferating	81
16.	Punching machine	
17.	Emboasing presser	
18.	Spray cabin for upper cementing	16
	withlatex and gun	
19.	Sole splitting machine M.O. and	116
<u>1</u>	component splitting machine	
20.	Cementing press	109
21.	Brushing and padi g machine	125
22.	Combined finishing machine	27
23.	Trade mark embossing machine	109
24. 25.	Insole slashing machine	69
26.	Roughing up machine	57
27.	Heel scouring and buffing machine	109
213	Lasted upper adge roughting machine Rubber Mixing mill	84
25	Sock pasting apparatus	21
30.	Granulator	101
31	Air compressor 5 H.P.	
32.	Hand press	
	Edge setting machine	*
33. 34.	Weighing machine	
35.	Fore part paring machine	35 60
36.	Insole cover stamping machine	2

#### APPENDIX-9 (Contd.)

#### Imported machines

S.No.	Name of the mochings	Quantity
1.	Upper skiving machine	
2.	Flat sowing machine	128
	see a montrie morning	461+500m Trendle
		operated for repla
3.	Culindan had souled an arrange	ment purpose.
4.	Cylinder bed sewing machine	
5.	Insole covering machine	
2.	Safety cutting press & also rapid	
6.	safety cutting press	145+9= <b>154</b>
	Padded insole roughing machine	16
7•	Insole slotting machine	1.6
8.	Valet reducing machine H.O.	30
9.	H.O. outside heel attaching machine	20
10.	Edge trimming machine	62
11.	Industrial binding machine	26
12.	Vulcanising press manually	
	operated	90
13.	Electro-hydraulic sewing	
	clicking press	- 1 <b>70</b> - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
14.	Upper & Lining, size & Brand	
	stamping machine and also	113+85=136
•	component size tamping machine	
15.	Upper folding machine and also	
	upper folding machine with	
	tapping device	84+75=159
16.	Compotent cementing machine	117
17.	Seam rubbing machine	46
18,	Zig-mag stitching machine	
19.	Post Bed sewing mac ine with	
	timming attachment	156
20.	Automatic punching & eyeletting	
	machine	3.1 <b>56</b>
21.	Console Lasting machine	11 <b>50</b> 11 1 2 4 2 1 1 2 1 1 1
22.	Upper trimming machine	
2).	Fully automatic Vulcanising	
	presses	
24.	Double Station upper cleaning	Politic National Control (1997) - National Control (1998) - National Control (1998) - 기계 (1998) - 기계 (1998) - 
Adding the second	machine	
25.	Het air circulating machine	
26.	Sole and insole cementing	
	Apparatus	
27.	Automatic plastic injection	
	machine 10 station	공연 선택 시민국 대통령 기계 :
28.	Over flow trimming machine	
29.	Swing arm budments attend	
-/-	Swing arm hydraulic clicking press (Italian)	
30.	Hanry duty atmos and A	46
31.	Heavy duty strap outting machine Toe lasting machine	24
	*** reservic maculus	24

	At 1 to 11/1X-9	Con	<u>(d.)</u>	
3.0				
32.	Sent autem ite coment angt	41.1	otity	
	· · · · · · · · · · · · · · · · · · ·			
33.	Cement wide lasting and harm	24		
34.		24		
35.	THE STATE OF THE PROPERTY OF T	24		
36.	- 经基础基本基础的经验的基础的 "我,我不会说	48		
37.	Special purpose a sure services	59		
38.	TARREST OF MALINISTON CONTRACTOR	25		
39.		25		
40.	Sole and inecle constants	25		
	The state of the s			
6.0	MACHICE			
41.	Heel building machine	38		
42.	APP L COmbines in a bid.	58		
43.	LOOM 1001 Broadting commission	28		
45.	TAME: ARE DISCRIPTA	25	*	
72.	Pulling over toe and side coment	28		
46.	多种植物类科技 网络拉拉斯 网络拉拉斯	50		
47.	Tack lasting machine for seat	41		
48.		30		
49.	TOUR COMMONTAINS TO A SECOND	25		
50.	THE STATE OF THE S	35		
51.	TO THE WELL ADVAILED TO THE ALL THE	35		
52.	Heel parting machine	23		
	Oscillating bottom scouring			
53.		35		
	Electro-hydraulic edge setting machine & Magnetic type			
外.	Upper cleaning machine	25+1	0- 3	
55.	Het Air apparatus	35		
56.	Direct vulcenising muchine	76		
57.	TOTAL CHANGE TIME WARE A	5		
58.	Lock stitching sole seving machine	50		
59.		10		
fo.	MATO ROLE TOP Anna madel.	10		
<b>L</b> ,	THE THE DESIGNATION OF THE PARTY OF THE PART	10		
6d.	一一一一一一一	10		
63.	Inter-Clangeable PVP Inter-	10		
64.	Skiving machine heavy duty	50 pa	utro	
65.	WWW 7400er's amaza	3		
66.	Bann knife splitting washing			asy angan Kerimi. Tanàngan madi
67.	The state of the s	. •		
		26		
	Annrayimata anna 14			
	Approximate cost of 1 digenous machine	<b>N</b> .	70	lakha
	Approximate cost of imported machine	Pa.	302	*
			***	· · · · · · · · · · · · · · · · · · ·
	Total	73	372	*
				****

Source: Report of Committee on mechanisation of small scale footwear industry, Government of India, March, 68.

#### Marine Cas

1. 1

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