JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

MINISTRY OF TRADE AND INDUSTRY (MOTI)
THE REPUBLIC OF KENYA

THE MASTER PLAN STUDY FOR KENYAN INDUSTRIAL DEVELOPMENT (MAPSKID) IN THE REPUBLIC OF KENYA

FINAL REPORT

ANNEX

JANUARY 2008

SANYU CONSULTANTS INC., JAPAN KRI INTERNATIONAL CORP., JAPAN

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Note		Statutory law: Industrial Licensing Act	Statutory law: Weights and Measures Act	Statutory law: Industrial Registratio Act		Registered: Company limited by guarantee (Company's Act) Supervised by MOTI, founded by EU support in 1998,	Parastatal Statutory law: Investment Promotion Act	Statutory law: Standard Act	Statutory law: Industrial Property Act, Trade Marks Act, established originally as Kenya Industrial Property Office, re- established in 2002	Statutory law: Science and Technology Act	Registered: Company limited by share (Company's Act) Share holders: University of Nairobi and Kenya Railway	Organisation under MOTI	Statutory law: EPZ Act				Statutory law: Land Lord and Tenant Act, established in 1965, a part of MOTI
	Naoribi and 20 District offices					Nairobi	Nairobi and Eldoret	Nairobi, Kisumu, Mombasa, Eldoret, Nakuru, Garissa and	Nairobi	Nairobi and Kisumu	Nairobi	Nairobi	Athi River (HQ), Mombasa, Nairobi and Nyeri	Nairobi and 32 branches	Nairobi, Kisumu, Mombasa, Eldoret, Nakurı etc		
Description	Trade and industrial development policy development and administration	Policy development and administration on domestic Department of business and trade development, management of Joint Internal Trade, MOTI Loan Board Credit scheme	Administration of legal metrology services (service provided through KEBS)	Industrial development policy formulation and administration, administration of Industrial Legislation, industry-related data and information collection and analysis	Trade policy guidance and promotion	Export market development, product development and daption; taste polyte facilitations. African taste insurance service; taste information and delivery service; development of exporting skills			rights; technical sevices	R&D (laboratory services etc)	R&D (CAD/CAM human resource development, fabrication of machinery parts, tools etc)	Business development training (management, entrepreneurship, marketing)	Support the investment, Provision of business location; provision of business licences, and support the operation of the firms in EPZ	Financing SMEs; Provide the land and premises for SMEs; technical services and training	Venture capital; corporate financing		
Name of Organisation	Ministry of Trade and Industry (MOTI)	Department of Internal Trade, MOTI	Department of Weghts and Measures, MOTI	Department of Industry, MOTI	Department of External Trade, MOTI	notion re for rmation BIK)	Kenya Investment Authority (KenInvest)	Kenya Bureau of Standards (KEBS)		Kenya Industrial Research and Development Insutite (KIRDI)	Numerical Maching Complex	Kenya Institute of Business Training (KIBT)	Export Promotion Zone Authority (EPZA)	Kenya Industrial Estate (KIE)	Industrial and Commercial Development Corporation (ICDC)	Industrial Development Bank (IDB)	Business Premises Rent Tribunal
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Note	Statutory laws: Trade Disputes Act, Regulation of Wages, Conditions of Employment Act, Industrial Training Act		Statutory law: Industrial Training Act	Tripartite organisation with MLHRD, FKE, COTU		nder MOST	Jnder MOST	Inder MOST	Statutory law: Science and Technology Act								Statutory law: Energy Act	Statutory law: Energy Act	Statutory law: Water Act	Statutory law: Environmental Management and Co-ordination Act,
Location	N W H	Nairobi, Provincial Enterprise Development Offices in 7 towns and District Enterprise Development Offices in 12 towns	S	Vairobi T		20 locations U	20 locations U	Nairobi (Kenya Polytech Und KTTC), Mombasa, Kisumu and Eldoret	Vairobi				Nairobi, and District Planning Officer				S	S	S	S
Description	Policy for mulation and administration of employment, proport insection and workeds relately, industrial relations, vocational training, promotion of self employment in micro and small enterprises, NSSF	Policy formulation for NSE sector development. Policy formulation for NSE sector development. Benedictured to NSE organisations fund kail for associations), provision of NSE operation sites, assist MSEs marketing of their products (e.g., holding MSE Eshibision)	Administration of National Industrial Training Council and Industrial Training Levy, certification of Trade Test	Trainings and information dissemination to promote productivity movement	Policy formulation and administration of the area of science and technology, policy formulation/administration of technical and vocational training	C	CM .	- d 36	Policy guidance for R&D and science and techology Policy	National budget coordination, policy guidance and administration on banking, insurance and capital market policies, public procurement, PPP, Monopolies and Price Commission			National development planning, M&E of ERS and butter economic development policies	Collection and management of statistical data		Roads, public buildings	Energy policy development and administration	Electricity distribution/retailer	Water resource management policy development and administration	Environment policy, mining policy, forestry development policy
Name of Organisation	Ministry of Labour and Human Resource Develoment (MLHRD)	Department of Micro and Small Enterprises Development, MLHRD	Directorate of Industrial Training.	Productivity Centre of Kenya	Ministry of Science and Technology (MOST)	Technical Training Institutes (TTIs)	Institutes of Technology (ITs)	National Polytechnics	National Council of Science and Technology (NCST)	Ministry of Finance (MOF)	Capital Market Authority (CMA)	Kenya Revenue Authority (KRA)	Ministry of Planning and National Development	Central Bureau of Statistics (CBS)	Kenya Institute of Policy Research and Analysis(KIPPRA)	Ministry of Roads and Public Works	Ministry of Energy	Kenya Power & Lighting Company Ltd. (KPLC)	Ministry of Water and Irrigation	Ministry of Environment and Natural Resources
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Note	Statutory law and regulations. Environmental Management and Co- ordination Act, Water Act, Legal Notice No. 101 The Environemntal Impact Assessment and Audit Regulations 2003	Statutory law: Local Government Act	Statutory law: Land Acquisition Act				Under Ministry of Agriculture	Statutory law: Science and Technology Act	Under Ministry of Health	Under Ministry of Agriculture	Key universities: University of Nairolis, Mol University, Egerton University, MLUAT, Maseno University, Western University College of Science and Technology, Kenyatta University	To be established as a trust under MOTI	Project hosted by KAM, financed by DANIDA, to be established as the National institute under MOTI	Established in 2003. Composed of Institutional members, association members and corporate members	Established in 1959, 525 members are registered at present	Registered: Company limited by guarantee (Company's Act), 68 branches, 1500 members	Registered: Trade Unions Act, founded in 1959	Hired full-time secretariat recently. Currently based in FKE	270 foreign investors (who has substantial operational base in outside of the country.)	
Location							Nairobi, Mombasa, Eldoret and border points					Nairobi		Nairobi	Nairobi, Nakuru, Mombasa and Kisumu		Nairobi, Kisumu, Mombasa and Nakuru	Nairobi	Nairobi (offices and focal points in other East African countries such as Uganda and Tanzania)	11 citiies in nation-wide
Description	General supervision and co-ordination over all the matters related to environment	Policy guidance and administration on local Ministry of Local Government authorities, administration of LATF	Policy development and administration of land policies and physical planning, land transaction and registration	Agriculture policies	Livestock and fisheries Policies		Quality assurance of seeds, phytosanitary testing and analysis	Health science research (carrying out the research, dissemination of findings), recently established manufacturing plants in order to produce the medical products based on the research findings	Onality assurance of medicine		R&D, traini	Provision of technical support for manufacturing sector for more environmentally friendly production methods, NEMA's Authorised Environment Auditor		Umbrella body for private sector organisations, policy advocacy	Provision of services to serve for the common interst of manufacturers	Provision of services to serve for the common interst of Nairobi manufacturers, issueing the certificate of origine	Provision of services in the area of industrial relations, consultancy, training and advocacy	Member based organisation for business sector. Acts as advocacy and undertakes lobbying. Established in 2002.	Providing business information and policy advocacy on behalf of foreign investors	Provision of consultancy for management issues, trainings on the various managerial subjects, information provision on the good management practices
Name of Organisation	National Environment Management Authority (NEMA)	Ministry of Local Government	Ministry of Lands and Housing	Ministry of Agriculture	Ministry of Livestock and Fisheries Development	Kenya Agriculture Research Institute (KARI)	Kenya Plant Health Inspectrate Service	Kenya Medical Research Institute (KEMRI)	Pharmaceutical and Poison	Pest Cotrol Board	Universities	National Cleaner Production Centre	Center for Energy Efficiency and Conservation	Kenya Private Sector Alliance (KEPSA)	Kenya Association of Manufacturers (KAM)	Kenya Chamber of Commerce and Industries	Federation of Kenyan Employers (FKE)	Kenya Business Council	Eastern Africa Association	Kenya Institute of Management (KIM)

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Note	Statutory law: Accoutants Act. It is mandatory to be a member of ICPAK for practicing CPAs (2700 members)				The members include assemblers, suppliers of parts, and importers/retailers. The organisation is not registered formally.	MOU with the Ministry of Livestcok and Fishery	KEPSA affiliate								
Location															
Description	Member organisation of practicing CPAs, semi- Institute of Certified statutory body for accounting, custodian of the Code of Public Accountant of Ethic, trainings and policy advisory relevant to Kenya (ICPAK)	Marketing Society of practicioners, both individuals and corporate members Kenya (MSK)			Lobbying and harmonisation of issues relevant for the members	Quality control and harmonisation, training for quality Nairobi and Kisumu control, policy advocacy, researches and information sharing, infrastructure development for fishing					Group of companies in petroleum and petro-related industry for promotion of petro-related enterprises in Kenya				
Name of Organisation		Marketing Society of Kenya (MSK)	Kenya Bankers' Association	Association of Kenya Insurers	Kenya Motor Industry Association (KMI)	Kenya Fish Exporters and Processors Association	Kenya ICT	Computer Society of Kenya	Pharmaceutical Society of Kenya	Agrochemicals Association of Kenya (KENYA)	Petroleum Institute of East Africa (PIEA)	Commercial Banks	Microfinance	Nairobi Stock Exchange	Accounting firms
Nam	ector	Private S SainsgrO				rganisations	0 1	Secto	Private				JC	Privat Secto Servio	



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Note	Statutory law: Industrial Licensing Act	Registered: Company limited by guarantee (Companys Act) Supervised by: MOTI, Gomded by EU support in 1998	Parastatal Statutory law: Investment Promotion Act	Statutory law: Standard Act	Statutory law: Industrial Property Act, established originally as Kenya Industrial Property Office, re-established in 2002	Statutory law: Science and Technology Act	Registered: Company limited by share (Company's Act) Share holders: University of Nairobi and Kenya Railway	Organisation under MOTI	Statutory law: EPZ Act	
Location		Nairobi	Nairobi and Eldoret	Nairobi, Kisumu, Mobasa, Eldred, Nakuru, Garissa and Nyeri	Nairobi	Nairobi and Kisumu	Nairobi	Nairobi	Athi River (HQ), Mombasa, Nairobi and Nyeri,	Nairobi and 32 branches
Services	Policy development and administration on domestic business and trade development, management of Joint Loan Board Credit scheme	Export market development; product development and adoption; trade policy dicilation; African trade insurance service; trade information and delivery service; development of exporting skills	Business Info; match-making; event facilitation; administrative assistance for investors	Laboratory testing, standard development and implementation; product certification; training	Administer industrial property rights; technical sevices relevant to IPR	R&D (laboratory services etc)	R&D (CAD/CAM human resource development, fabrication of machinery parts, tools etc)	Business development training (management, entrepreneurship, marketing)	Support the investme, Provision of business location; provision of business licences; and support the operation of the firms in EPZ	Financing SMEs; Provide the land and premises for SMEs; technical services and training
Name of Supporting Institution	Policy d domestic Department of manage Internal Trade,MOTI scheme	Export Promotion Board/Centre for Business Information in Kenya (CBIK)	Kenya Investment Authority (KIA)	Kenya Bureau of Standards (KEBS)	Kenya Industrial Property Institute (KIPI)	Kenya Industrial Research and Development Insutite (KIRDI)	Numerical Maching Complex	Kenya Institute of Business Training (KIBT)	Export Promotion Zone Authority (EPZA)	Kenya Industrial Estate (KIE)
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Note			Statutory law: Land Lord and Tenant Act, established in 1965, a part of MOTI	Tripartite organisation with MoLHRD, FKE, COTU	Statutory law: Industrial Training Levy Act		Under the Science and Technology Act		National Universities:Nairobi Maseno, Egerton		Under Ministry of Health	Under Ministry of Agriculture	Multinational ISO certification agentISO90001:2000, ISO14001:2004 (e.g., BVQI Kenya, SGS Kenya).	Under Ministry of Science and Technology	
Location	Nairobi, Kisumu, Mombasa, Eldoret, Nakuru etc			Nairobi		Nairobi, outreach: Provincial Enterprise Development Offices in Enterprise Development Offices in 12 towns	Nairobi			Nairobi, Mombasa, Eldoret and border points				20 locations	20 locations
Services	Venture capital; corporate financing			Trainings and information dissemination to promote productivity movement	Administration of National Industrial Training Council and Industrial Training Levy, certification of Trade Test	Policy formulation for MSE sector development, capacity building of MSE development, capacity building of MSE and Small provision of MSE operation sites, assist Eriterprises MSEs' marketing of their products (e.g., Development, holding MSE Exhibision)	National Council of Science piloting research findings and Technology (NCST)		R&D, human resource development	Quality assurance of seeds; phytosanitary testing and analysis	Pharmaceutical and Poison Quality assurance of medicine Board	Quality assurance of pesticide	ISO Certification	TIVET	TIVET
Name of Supporting Institution	Industrial and Commercial Development Corporation (ICDC)		Business Premises Rent Tribunal	Productivity Centre of Kenya	Directorate of Industrial Training MLHRD		ational Council of Science and Technology (NCST)	Kenya Textile Training Institute (KTTI)	Universitites	Kenya Plant Health Inspectrate Service	naceutical and Poison Board	Pest Cotrol Board	ISO Certification Assessors	Technical Training Institutes	<u>.</u>
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Annex 2 List of Supporting Organisations

Sacrices Orthos Services		7			7	Advocacy	Advocacy, despute resolution		Labour dispute resolution, advocacy	Policy advocay and	Policy advocacy and lobbying	Policy advocacy, research
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Note			To be established as a trust inder MOTI	Project hosted by KAM, inanced by DANIDA, to be established as the National nstitute under MOTI	Registered at NEMA	Established in 2003		Registered: Company limited yy guarantee (Company's Act), 68 branches, 1500 nembers	Registered: Trade Unions Act, founded in 1959	Hired full-time secretariat secretariat. Currently based in FKE	The members include assemblers, suppliers of parts, and importers/retailers. The organisation is not registered formally.	MOU with the Ministry of Livestcok and Fishery
Location	Nairobi (Kenya Polytech and KTTC), Mombasa, Kisumu and		Nairobi	Nairobi		Nairobi	Nairobi, Nakuru, Mombasa and Kisumu	Nairobi		Nairobi		Nairobi and Kisumu
Services	TVET	Environment Impact Audit Assessments review and certification	Provision of technical support for manufacturing sector for more manufacturing sector for more methods, NEMA's Authorised Environment Auditor		Undertake EIA	Umbrella body forprivate sector organisations, policy advocacy	Provision of services to serve for the common Nairobi, Nakum, interst of manufacturers Mombasa and Ki	Provision of services to serve for the common Nairob interst of manufacturers, issueing the certificate of origine	Provision of services in the area of industrial Nairobi, Kisumu, relations, consultancy, training and advocacy Mombasa and Nakuru		Lobbying and harmonisation of issues relevant for the members	Quality control and harmonisation, training life quality control, policy advocacy, researches and information sharing, infrastructure development for fishing
Name of Supporting Institution	National Polytechnics	National Environment Management Authrotiy (NEMA)	National Cleaner Production Centre	Center for Energy Efficiency and Conservation (CEEC)	EIA Auditors (private Undertake EIA firms)	Kenya Private Sector Alliance (KEPSA)	Kenya Association of Manufacturers(KAM)	Kenya Chamber of Commerce and Industries	Federation of Kenyan Employers (FKE)	Kenya Business Council	Kenya Motor Industry Association (KMI)	Kenya Fish Exporters and Processors Association
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Superten		,	>									
Note	270 foreign investors (who has substantial operational base in outside of the country.)										Established as a project by IFC	Established by UNDP/IFC project, now operating as a private firm
Location	Nairobi (offices and focal points in other East African countries such as Uganda and Tanzania)									II citiies in nation- wide		
Services	Providing business information and policy advocacy on behalf of foreign investors	Member organisations of marketing and marketing research practictioners. Individual and corportate members						Member organisation of practicing CPAs, Institute of Certified Public semi-statutory body for accounting Accountant of Kenya		Provision of consultancy for management issues, trainings on the various managerial subjects, information provision on the good management practices	Training/support for preparation of business plans, facilitation of access to finance	Attachment of experienced international managerial human resouces to SMEs
Name of Supporting Institution	Eastern Africa Association	Marketing Association of Kenya	Commercial Banks	Nairobi Stock	% Association of Kenya ःख	Capital Market Authority (CMA)	Kenya Bankers Association	Institute of Certified Public Accountant of Kenya	Accounting firms	Kenya Institute of Management (KIM)	SME Solution Centre	AMSCO



Date :	
Consultant : Name	
Company Name _:	
Sub-sector :	
Address :	
FAX :	
E-mail :	·
About the Inte	rviewee (If he is the owner, skip this section.)
) Name	
) Position	
) The year	
joined in the	
company	
Outline of the	company
) Establishment	: Year (
) The owner type	: a. government: (
	b. foreign: country (
	c. Asian-Kenyan: country () d African-Kenyan
) The owner	1) name:
,	2) education background:
	3) career background:
) Latest Annual Sales	: () million Ksh in Year ()
Production Cost	1) parts and material :()million Ksh in Year () 2) outsourcing :()million Ksh in Year ()
Identifying the	Products and Market Position
, ,	
) Top 3 products	

(1) 10p 0 pi	00000				Г
		Production	Sales	Share	Destination
		volume	domestic	exports	of exports
		per month	markets		
1)()	()	()%	()%	()
2)()	()	()%	()%	()
3)()	()	()%	()%	()

(2) Market Position of the Product 1) (the main product)

Domestic	Exported Location
	()
1) Your company No. ()	5) Your company a. growing
Share()%	b. steady
	c . declining
2) No. 1 Company	6) No. 1 Country
	()
Share ()%	Share ()%
3) No. 2 Company	7) No.2 Country
Share ()%	Share ()%
4) No. 3 Company	8) No. 3 Country
Share ()%	Share ()%

4. Conditions of the Final Market

(1) Changes in the domestic market (trend)

1) Price	: a. higher	b. same	c. lower
2) Cost	: a. higher	b. same	c. lower
3) Quality	: a. higher	b. same	c. lower
4) Scale (Volume)	: a. bigger	b. same	c. smaller
5)Market competition	: a. high	b. modest	c. low

(2) Changes in the regional market (Africa)

, 3 3		/	
1) Price	: a. higher	b. same	c. lower
2) Cost	: a. higher	b. same	c. lower
3) Quality	: a. higher	b. same	c. lower
4) Scale (Volume)	: a. bigger	b. same	c. smaller

(3) Effects from the imported goods

1) Trend : a. big b. small c. none
2) if the effect is big,
a. Country of origin : ()

b. the reasons : a. price b. quality c. marketing strategy (multiple selections)

5. Conditions of the forward linkages, or final makers / assemblers

* This question is to be asked only to the companies producing the semi-products.

Products of			Origins	N	o. of	Trer	nd of the Dema	nd
the F	inal Makers	0	f Buyers	bı	ıyers	Price	Quality	Volume
				fo	r this			
				con	npany			
1)()	()	()	a. high	a. high	a. big
						b. middle	b. middle	b. middle
						c. low	c. low	c. small
2)()	()	()	a. high	a. high	a. big
						b. middle	b. middle	b. middle
						c. low	c. low	c. small
3)()	()	()	a. high	a. high	a. big
						b. middle	b. middle	b. middle
						c. low	c. low	c. small

6. Identifying the Backward Linkages

(1) Outsourcers

Proc	cess, Goods	Loca	tions of suppliers	N	o. of	
	ompany name)	Loca	tions of suppliers	Sup for	pliers this	Availability as a whole
1)()	()	()	a. many b. enough c. limited
2)()	()	()	a. manyb. enoughc. limited
3)()	()	()	a. manyb. enoughc. limited
4)()	()	()	a. manyb. enoughc. limited
5)()	()	()	a. many b. enough c. limited

(2) Raw material (including those which are indirectly procured)

Raw Material		Origins		Price	Quality	Volume
(not cor	npany name)	0	f Production			
1)()	()	a. high	a. high	a. big
				b. middle	b. middle	b. middle
				c. low	c. low	c. small
2) ()	()	a. high	a. high	a. big
				b. middle	b. middle	b. middle
				c. low	c. low	c. small
3) ()	()	a. high	a. high	a. big
				b. middle	b. middle	b. middle
				c. low	c. low	c. small
4) ()	()	a. high	a. high	a. big
				b. middle	b. middle	b. middle
				c. low	c. low	c. small
5) ()	()	a. high	a. high	a. big
				b. middle	b. middle	b. middle
				c. low	c. low	c. small

7. Labour conditions

(1) Full-time employees

	Number	Required qualification
	of	
	employee	
	S	
1) Managers	()	
2) Skilled workers	()	
3) Unskilled workers	()	

(2)	Part-time employees								
			umber of	A	verage dur			ent	
		eı	mployees		per p	erson per	•		
	1) Skilled workers	()		() mont			
(2)	2) Unskilled worker	,)		() mont	hs		
(3)	Average salary of full-t	ime empio				D 4	T.		7
	Skilled workers	1)(Full Tin	ne Ksh/mont	th 2)		Time)Ksh/n	aanth	-
	Unskilled workers	3) ()	Ksh/mont		<u>(</u>)Ksh/n		-
0		/ \	<u> </u>						
8.	•	ontrol (Include	cost	manage	ement	and	aen	very
	management)								
(1) [Measurement index of	productivi	ty a.c	Quantity ()			
			b.1	Production	speed ()		
				Production	Cost ()		
				Others()			
(2)	Main method for produ	ctivity con	trol						
(8)	Manual for production	control	: a	ı. yes b. n	10				
• •	Main production facility			-	Facility		Qu	antity	
			-			`		()	
			()	()	
			()	(()	
			()	(()	
			()	(()	
			()	(()	

per month

) kw

) kl

(1) Electricity

(3) Transportation

(2) Water

9.	Qual	lity	Contro	ار

(1) Measurement index of quality	a.Performance () b.Defection rate () c.Others()
(2) Main method for quality control	
(3) Manual for quality control	: a. yes b. no
(4) Standards to be followed	:

10. Investment Strategy: type of investment planned in 5 years (multiple answers)

	Location
a. expansion of domestic sales channels	()
b. expansion of foreign sales channels	()
c. expansion of production facility at existing factories	()
d. establishing new factories in Kenya	()
e. establishing new factories abroad	()

11. Strategy and structure of the Sub-sector

1) road: 2) train:

	penness to new lember of associa		:	a. open b. modest c.	closed		
` '	1) a. yes			b. no			
(n	ame:)		J			
	2) In what way are (multiple answers a policy advocati b information de c joint procureme d joint marketing e technology upg f credit g savings h training i others (ng livery ent	3	3) Why not joining asso	ociations?		
12.	ldentifying infrastructu	-	of	infrastructure	(only	for	relevant
		R	equire	d improvement	U	Jsage vo	olume

	3) air:
	4) ship:
	5) others:
(4)Telecommunication	1) telephone/fax:
	2) Internet:
(5)Others	()

13. BDS Providers

Others (How does your company try to overcome the problems mentioned above? (multiple answers) Information gathering by yourself (Utilising consultants (Obtaining loan (Utilising outside training opportunities (Participating in exhibitions	
Information gathering by yourself () Utilising consultants () Obtaining loan () Utilising outside training opportunities ()	
() Obtaining loan () Utilising outside training opportunities ()	
() Utilising outside training opportunities ()	
() Utilising outside training opportunities ()	
()	
() Participating in exhibitions	
Participating in exhibitions	
Making allies with other enterprises	
()	
Others (
None→	
Reason	
	Utilising the services offered by the public institutions (

Thank you very much



Institute	Export Promotion Council (EPC)
Date of Establishment	1992
Mandate	To develop and promote Kenya's exports of goods and services and harmonise export related activities
Services	 Export market development Product development and adaptation Trade information & delivery services Trade policy facilitation Development of exporting skills African trade insurance services
Main Office	Nairobi
Branches	JKIA (Nairobi), Eldoret, and Mombasa

Institute	Industrial Development Bank Capital Ltd. (IDBC)
Date of Establishment	1973
Mandate	to provide medium and long-term finance and accompanying financial and corporate advisory services to medium and large-scale industrial enterprises; and provision of working capital, machinery and finance
Services	 Short-term working capital financing Bridging finance Export / import financing Letters of credit Management and consultancy services Financial advisory services Guarantees and indemnities Asset finance/ lease Contract financing
Main Office	Nairobi

Institute	Industrial and Commercial Development Corporation (ICDC)
Date of Establishment	1954
Governing Law	Industrial and Commercial Development Act (CAP 445, 1955)
Mandate	to provide finance and equity capital for expansion and development of new and existing medium size private-sector industrial and commercial enterprises in Kenya
Services	 Corporate finance Venture / equity capital Small and medium loans Management support services
Main Office	Nairobi
Branches	Nakuru, Machakos, Eldoret, Nyeri, Meru, Kisii, Kakamega, Kisumu, Mombasa

Institute	Kenya Industrial Estates Limited (KIEL)
Date of Establishment	1967
Governing Law	the Companies Act (CAP 486)
Mandate	to support entrepreneurship and indigenous enterprise development
Services	• Lending
	Property and asset management
	• Business Development Service (BDS)
Main Office	Nairobi
Branches	Voi, Nakuru, Kericho, Kisumu, Mombasa, Eldoret, Meru, Kakamega,
	Kabarnet, Nyeri, Kitui, Embu, Machakos, Kisii, Bungoma, Thika,
	Sultan Hamud, Malindi, Murang'a, Garrisa

Institute	Kenya Bureau of Standards (KEBS)		
Date of Establishment	1974		
Governing Law	the Standards Act (Cap 496, 1974)		
Mandate	to develop and enforce the standards of industrial products		
Services	Standards Development		
	• Testing		
	Metrology		
	Implementation of Standards in commerce and industry		
	Accreditation		
	• Certification		
	Inspection of imports and local products		
Number of Personnel	746 (as of April 2005)		
Main Office	Nairobi		
Branches	Mombasa, Nakuru, Kisumu, Nyeri, Garissa, Eldoret, Namanga,		
	Bussia, Malaba, Isebania,		

Institute	Kenya Industrial Research and Development Institute (KIRDI)
Date of Establishment	1979 (formerly started in 1942 as a central laboratory)
Governing Law	the Science & Technology Act (CAP 250, 1979)
Mandate	to conduct research and development in all industrial and allied technologies, including mechanical, civil, electronics, chemical engineering, energy, environment, and commodity technologies
Services	 Research and development (engineering, food technology, leather and textile, mineral resources, ICT, etc.) Commercial services Business development and planning
Main Office	Nairobi
Branches	Kisumu

Institute	Kenya Investment Authority (KenInvest)		
Date of Establishment	2004 (Transformed from the Investment Promotion Centre,		
	established in 1986)		
Governing Law	the Investment Promotion Act (No. 6 of 2004)		
Mandate	to promote local and foreign investments in Kenya by providing		
	information on opportunities, policies, incentives, and procedures		
Services	Information on investing in Kenya.		
	Assistance in the identification of investment opportunities		
	• Identification of joint venture partners.		
	 Appraisal and approval of investment projects 		
	• Assistance in timely acquisition of necessary licenses, clearances		
	and permits		
Main Office	Nairobi		
Branches	Eldoret		

Institute	Numerical Machining Complex Ltd. (NMC)
Date of Establishment	1994 (formerly started as a project in 1986)
Mandate	to manufacture metallic components and other industrial products
Services	Manufacturing of mould, die, casting
	Manufacturing of metallic components
	Training in CAD
Number of Personnel	57 (as of 2006)
Main Office	Nairobi

Institute	Kenya Industrial Property Institute (KIPI)
Date of Establishment	2002
Governing Law	The Industrial Property Act (Chapter 3 of 2001)
Mandate	to administer Industrial Property Rights (IPR); to provide technological information and training in IPR; and to promote inventiveness and innovativeness
Services	 Administer industrial property rights (i.e. patents, trade marks, utility models, and industrial designs) Providing technological information to the public Provide training on industrial property.
Main Office	Nairobi

Institute	Export Processing Zones Authority (EPZA)
Date of Establishment	1990
Governing Law	Export Processing Zones Act (CAP 517, 1990)
Mandate	to catalyse industrial and economic development through investments in Economic Zones
Services	 (i) Pre-investment services Provision of information and legal advice to investors Granting of appropriate EPZ Enterprise licences, EPZ Developer/operator Licences Liaison with other government agencies for the issuance of additional Licences (ii) Post-investment services Approval of building plans within public zones and liaising with local authorities in approving plans in the case of private zones One stop facilitation of operating investors including customs and immigration requirements Industrial relations and dispute resolution for enterprises Technical services in the area of waste management and maintenance of acceptable environmental standards within public zones Management of public zones Provision and maintenance of zone infrastructure Facilitation of linkages between EPZ investors and providers of goods and services in the domestic territory
Main Office	Athi River
Branches	Mombasa

Institute	Kenya Wine Agencies Ltd. (KWAL)
Mandate	to produce and distribute wines and spirits in Kenya and beyond
Services	Manufacturing of wines and spirits
Main Office	Nairobi

Institute	East Africa Portland Cement Company (EAPCC)
Date of Establishment	1933
Mandate	To manufacture and market quality cement and cement products to the satisfaction of our customers
Services	Manufacturing of cements
Main Office	Athi River

Institute	Kenya National Trading Corporation Ltd. (KNTC)
Date of Establishment	1965
Governing Law	The State Corporations Act (CAP 466 in 1986)
Mandate	to distribute essential goods across the country
Services	Distribution of sugar, rice, wheat, maize, etc.
Main Office	Nairobi

Institute	Kenya Institute of Business Training (KIBT)
Mandate	to provide entrepreneurial development services to MSMEs
Services	Training for the craft and diploma courses
	Training in short-term technical courses
Number of Personnel	32
Main Office	Nairobi

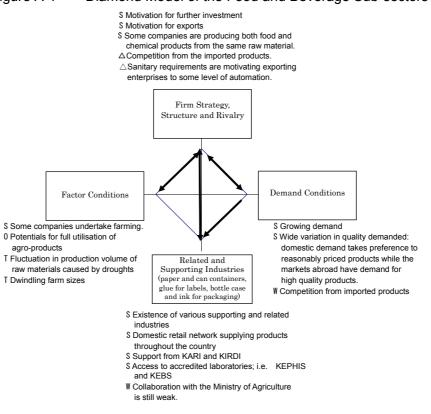
Institute	Kenya Industrial Training Institute (KITI)
Date of Establishment	1965
Mandate	To provide industrial and entrepreneurship skill training for investment and employment creation
Services	 Training for the craft and diploma courses Training in short-term technical courses
Number of Personnel	55
Main Office	Nakuru



1) Food and beverage

This sub-sector is showing the strongest potential in the diamond model analysis because of the favourable status of demand and factor conditions. The domestic demand for food and beverages is steadily growing, and products developed for the domestic market are also exportable to the neighbouring countries. While the domestic market prefers reasonably priced products, some export markets demand high quality products. Some companies undertake production of food and chemical by-products from the same agro-product. A popular example is cooking oil and soap. For such a large size and product diversification in demand, various types of manufacturers can enjoy operating in this sub-sector. Moreover, this sub-sector is most active across the country, utilising local resources. Although not all the visited companies rely on domestic materials, there is much more potential for exploiting domestic agro products. Backed by the growing market, enterprises show positive stance towards investment. Although competition from the imported products is getting severe for canned and bottled foods, which last longer, local enterprises are working in an effort to compete against them in price and quality. Potentialities of this sub-sector can also be observed through the width of supporting industries. Supporting industries among the sample enterprises include paper and plastic containers, bottle case, glue for paper labelling and ink for packaging. These supporting industries are enjoying growing demand conditions of the food processing sub-sector. On the other hand, the weakness of this sub-sector is low institutional collaboration between the farmers and the manufacturers. Supply volumes of raw products are not stable because farmers are switching into more productive income activities. Collaboration between the Ministry of Agriculture and the Ministry of Trade and Industry needs to be strengthened. Moreover, enterprises targeting at the export markets have to follow sanitary requirement such as "Good Manufacturing Practice", which motivates the enterprises to go into some level of automation.

Figure A-1 Diamond Model of the Food and Beverage Sub-sectors



Legend: S (strength), W (weakness), O (opportunity), T (threat), △ (neutral, but influential) Source: The JICA Study Team and Workshop Presentation Paper of Group 3 on 28 June, 2006

2) Textile (Sisal)

Sisal textile sub-sector utilises local agro-products. This sub-sector has vertical integration from agro products, then to production of fibre and finished products such as sisal strings, sisal bags for grain packaging and sisal designed bags. Such vertical integration should be taken as important in terms of income generation across farmers, artisans, unskilled workers and labourers in the remote areas. Sisal products are targeting both domestic and export markets, and designed bags are popular souvenir products. Although the demand conditions are good, supply of sisal is low. The sisal plants have become old, but farmers do not have funds to replant. Enterprises targeting export markets of fashion bags are aggressive in design improvement. However, enterprises producing low value-addition products such as strings and grain containers suffer from underproduction and shortages of working capital.

Figure A-2 Diamond Model of the Sisal Textile Sub-sectors S Fashion bags producers have become conscious of design improvement. W Companies producing low value-addition products such as fibres and grain containers suffer from shortages in operation funds Firms Strategies, Structures and Rivalry Demand Conditions **Factor Conditions** S Sisal is a popular crop in Kenya. S Steady demand It is a drought resistant crop. S Sisal handbags are popular W Shortage of supply caused by souvenir products and are aged sisal, which has to be Related and exported abroad. replanted. Supporting Industries W Factories located near sisal farms do not have telephone lines nor all weather roads, at S Sisal Policy Paper has been produced by the least Ministry of Agriculture. W No financial assistance to farmers to replant sisal plants.

Legend: S (strength), W (weakness) Source: The JICA Study Team

5-2

Clothes

This sub-sector is characteristically labour intensive, and labour cost is one important factor for foreign investment. However, the continuous increase of the minimum labour wage without increase in labour productivity is giving disincentives to foreign direct investment in Kenya. Although export of garments from EPZs increased by 39% (real) between 2000 and 2005, the enterprises targeted the US market utilising AGOA are taking the "foot-loose" view: i.e. they are ready to move out of Kenya if the advantages enjoyed from AGOA disappear because they do not see any other comparative advantages of operating in Kenya. Although Kenya can produce cotton, and there are some spinning companies, there are no large-scale fabric manufactures. Thus, there is no vertical integration. Because the third country importation of fabric shall not be allowed after 2012 under AGOA, the Government is seriously seeking a way to integrate the vertical integration of textiles and garments sub-sectors. As for the domestic market, imported and second-hand products have made the market size smaller, but there are some enterprises producing traditional clothes targeted at the regional markets. Moreover, there are a number of micro-small-scale enterprises undertaking manual spinning, weaving on the one hand, and many doing tailoring and dressmaking by themselves even in the country side. Strategies to adding values such as made to order clothes and African taste fashionable clothes need to be sought to differentiate them from the imported and used clothes.

Figure A-3 Diamond Model for Textile and Garments Sub-sectors

There are some firms producing traditional clothes targeting at regional market Un-established brand Large textile enterprises are operating targeting at US markets utilising AGOA. They do not have linkages with the domestic nor regional markets. W Productivity is much lower than parent companies. T Many firms operating for AGOA do not have long-term operation strategies in Kenya once benefits from AGOA expire. Firm Strategy. Structure and Rivalry Factor Conditions Demand Conditions S Availability of labour force \$ Growing regional markets W Increase in labour cost is W Competition from both expensive surpassing increase in labour imported garments and cheap productivity. second hand clothes Related and W The quality of cotton is T It is likely that companies cannot Supporting Industries relatively poor compared to have preferencial access to the (spinning, fabric cotton produced in US market unless they use maker) fabrics from USA or African neighbouring countries W Fragmented vertical linkages

Legend: S (strength), W (weakness), O (opportunity), T (threat), \triangle (neutral, but influential) Source: The JICA Study Team and Workshop Presentation Paper of Group 1 on 28 June, 2006

especially in fabric production

0 Availability of spinning factories

0 Awareness of the Government to

strengthen vertical integration

AGOA treaty countries after

△Rapid changes in Customer's

2007.

preferences

0 Potentials for improving

T Farmers may prefer to

production

than cotton.

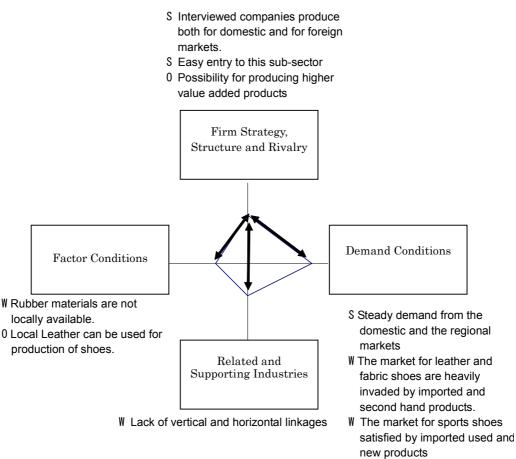
capacity and quality of cotton

produce other cash income

4) Footwear (Rubber Sandal)

Footwear manufacturing is usually popular among micro-small and medium enterprises (MSMEs) because it is based on local demand. It is also characterised by easy entry due to low investment requirements. But the situation in Kenya is different. Footwear markets are flooded by used shoes and imported shoes. Although Kenya has strength in leather, leather shoes are hardly produced in Kenya. The interviewed large scale enterprises also used to produce sports shoes, but they now produce only rubber sandals because the markets for the sports shoes are now satisfied by the imported and used products. Rubber sandals do not have strengths in factor conditions because the materials used are from plastics. However, regional demand conditions look positive as discussed in Chapter 9.3.2 (3). Due to low price and the hot weather, rubber sandals seem to have steady demand regionally.

Figure A-4 Diamond Model of the Rubber-Sandal Footwear Sub-sector S Interviewed companies produce



Legend: S (strength), W (weakness), O (opportunity), T (threat)

5) Wood products and furniture

The factor conditions suddenly changed in 1999 when the Government banned logging of hardwoods. The sector was forced to move into the use of softwoods afterwards, but the poor drying process causes cracks. In spite of scarcity for industrial use, large portion of woods are still consumed for fuel¹. It is suspected that the raw material availability shall remain scarce for at least another decade until the newly planted trees grow [KAM (2006) p.175]. The main products from the sub-sector are used for construction and furniture. Although demand for wooden materials for construction is growing, the lack of raw materials is forcing them to go into under production. On the other hand, the furniture sub-sector is supported by local demand and popular among MSMEs. Along the road side, many *jua-kali* enterprises are producing furniture. Many of them demonstrate skills in designing and curving. Local furniture should have comparative advantages against imported finished products because of high transportation cost for the latter which are heavy in nature. Yet, the high quality markets now show preference to imported products and material. Because of scarcity of woods, many firms are moving into the plastic and steel furniture. The notable supporting industry in this sub-sector is the manufacturers of cushion material. Otherwise, variation of supporting industries is not wide.

Figure A-5 Diamond Model of the Furniture Sub-sector W Weak horizontal collaboration 0 Because of scarcity of the woods, some companies are moving into furniture utilising plastics and steel. Firm Strategy, Structure and Rivalry Demand Conditions **Factor Conditions** S Steady demand from the S Availability of human resources domestic markets S Improvement in curving W Preference for the imported techniques furniture and wood material in W Fabric materials for sheet rely the high quality markets on importation Related and Supporting Industries W Diminishing availability of timber due to scarce forests and environmental protection W There are some firms producing cushion 0 Improving quality of domestic woods by adopting proper inner material. drying process 0 Development of textile sub-sector would enable supply of cushion fabrics.

¹ It is estimated that 75% of domestic energy is obtained from wood and charcoal [EPZA (2005b)].

Legend: S (strength), W (weakness), O (opportunity), T (threat)

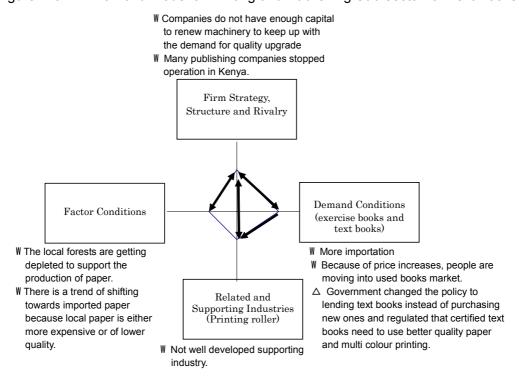
Source: The JICA Study Team

6) Paper, printing and publishing

There are 13 large enterprises producing paper and pulp, but it is only Panafric Paper Mill in Webuye that has a licence to manufacture paper from local forest. The main interest of Panpaper Mill is to increase productivity so that its products can compete against imported paper, which more and more companies are relying on. Efficiency improvement of paper producers is important; otherwise domestic vertical chain will collapse as was the case in textile and garment.

As for printing and publishing sub-sector, analysis is restricted to printing and publishing industry serving educational sector, which is one of the main markets in this sub-sector. Demand conditions of the text books are affected by policies of Ministry of Education, Science and Technology. There have been some changes in textbooks procurement policies. In early 1980's, the cost sharing policy was introduced with most of the burden being gradually transferred to the parents. With the introduction of the Kenya National Textbook Policy in 1998, emphasis was made on the durability of text books so that the schools can lend to the students instead of having them purchase every year. The required technical specifications included quality of paper and multi-colour printing, which were not possible to be met by the local source paper and local printing companies. This regulation has caused more use of imported paper and off-shore printing. The local prints often have problems in binding, cutting pages and printing in the right positions. Technological assistance is needed so that the quality meets market needs and demand. The links with supporting industries of publishing sector do not look strong, either. Among the samples, a rubber roller manufacturer for printing machines was identified, but this is mostly for maintenance work. As more and more books are published off-shore, prices of such books go up, and this has caused people to move into used book markets.

Figure A-6 Diamond Model of Printing and Publishing Sub-sector for Text Books



 $Legend: S \ (strength), \ W \ (weakness), \ O \ (opportunity), \ T \ (threat), \ \triangle \ (neutral, \ but \ influential)$

7) Pharmaceuticals

Figure A-7

Kenya has an established concentration of pharmaceutical manufacturers. 50% of the production values are manufactured in Kenya with presence of 30 out of 50 leading companies within COMESA [EPZ (2005c) p.2]. The strategic location of Kenya, linking it to 46 cities, is the main reason for creating the concentration. Kenya's political stability, regulations on property right protection and human resource are other reasons for her popularity. However, importation of the pharmaceutical products surpasses exports by 3.6 times. Imported value of pharmaceuticals was \$128 million, and export value was \$28 million while production output was \$53 million in 2004 [UN Comtrade; KAM (2006) p.182]. This makes Revealed International Competitiveness (RIC)² at minus 1.9. Weakness of the sub-sector is its heavy reliance on imported products. Over 95% of the raw materials are imported while the local supplies include packaging, maize starch, refined sugar, glucose syrup, rectified spirit and ethanol and sodium chloride [EPZ (2005c) p.8]. Production activities carried out in Kenya are basically mixing of material, packaging, testing and delivering. There are hardly any R&D activities carried out inside the companies. Although Kenya has some active R&D institutions such as Kenya Medical Research Institute (KEMRI) and African Medical Research Foundation (AMREF), their activities are hardly linked to the industry. Moreover, the universities are not supplying enough graduates to pharmaceutical sector to serve the needs of the industry since most graduates in medicine find their employment in hospitals and pharmacy shops. Because of the strong requirements of sanitary standards, production process is inevitably automated, and the required number of labour force is relatively small. The average employment size was 90 people in 2002 [KAM (2006) p.179]. Kenya could pursue more benefits from this sub-sector through providing more local material and carrying out more value added production. Moreover, some companies practice high level of production management techniques, which are still rare in Kenya. Spill over effect is expected from the working experience under the best management practice.

S Highest concentration of manufacturers in COMESA S Exporting strategy to COMESA S Good production management W Low value-addition production process W Lack of R&D activities Firm Strategy, Structure and Rivalry Factor Conditions Demand Conditions S International hub-airport in Nairobi S Growing demand for generic W Lack of human resource who are medicine both domestically knowledgeable in pharmaceutical and regionally science ∧ Government is the major. W 95% of the raw materials are imported. Related and institutional buyer Supporting Industries \$ Collaboration through KAPI (Kenya Association of Pharmaceutical Industries) W Lack of linkages with R&D sector W Universities are not supplying enough graduates in pharmacy Legend: S (strength), W (weakness), O (opportunity), T (threat) Source: The JICA Study Team

Diamond Model of the Pharmaceutical Sub-sector

² Revealed International Competitiveness (RIC): (Export i – Import i) / Production i

8) Petroleum and chemical products

Petroleum and chemical products contain a broad range of products serving various sectors. Characteristics of this sub-sector are discussed in the following three categories.

Products utilising local material

While most of enterprises in this sub-sector rely on importation of raw material, there are some raw materials locally available such as vegetable oil for soap, wattle for tanning, oleo for resins and pyrethrum for pesticides. Issues associated to with this category are improvement in quality and steady supply of the raw material and exploring opportunities for further exploitation of the raw material. With the growing concern for environmental protection, some new investment is coming in for bio-diesel utilising molasses. At present, pyrethrum is the most important product in this category because Kenya controls over 65% of the world market share. Its global standards originate d in the R&D results from Pyrethrum Board of Kenya. Although pyrethrum has global comparative advantage, its vertical chain is not strong. The Pyrethrum industry supports income s of approx. 200,000 farming households mainly in Lake Victoria, Northern Rift Valley, Southern Rift Valley and Mount Kenya area; however, the farmers cannot secure stable income because of payment delays by the Pyrethrum Board. Pesticides makers also do not find comparative advantages in processing in Kenya because production costs are too high. Therefore, refined pale extract, the high value added product of the pyrethrum, is exported and processed abroad. Demand conditions of pyrethrum are positive because of increased demand for organically grown foods/products in developed countries. This will see natural pyrethrum preferred to synthetic and chemical substitute products. However, China is now moving into production of pyrethrum and is on the way of accreditation. This will see her pyrethrum become a threat to Kenya's. Improving efficiency is a must for Kenya to sustain its comparative advantage in the pyrethrum markets.

S Pyrethrum Board has strong linkages with the major processors abroad. W Pyrethrum Board is a monopoly in processing the raw material W Inefficient management in Pyrethrum W Many pesticide makers have moved out of Kenya Firm Strategy Structure and Rivalry Factor Conditions Demand Conditions S Pyrethrum is a popular agro S Kenya has dominant position in product, supplied by approx. the world market (over 65%). 200,000 farming households 0 Organic products boom in the T Due to the payment delay from developed countries can the Pyrethrum Board, the increase the use of pyrethrum. Related and farmers may move into other Supporting Industries T Other countries have started to cash crops plant pyrethrum. Among them, China can be a big 0 Much research activities are carri@mpetitor out on pyrethrum S Pyrethrum Board developed new products with ICIPE and KEMRI. S Pyrethrum Board has heen collaborating with universities in joint development and equipment sharing.

Figure A-8 Diamond Model of the Pyrethrum Sub-sector

Legend: S (strength), W (weakness), O (opportunity), T (threat)

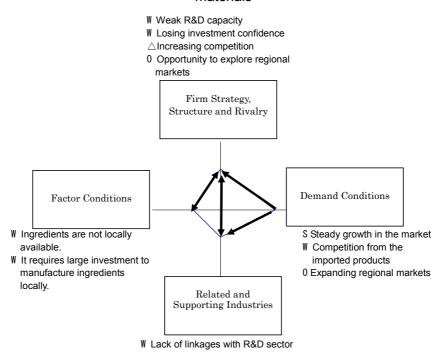
Products serving as suppliers to the major domestic sub-sector

There are many chemical enterprises working as supporting industries of other major sub-sectors such as glue and ink for food packaging, leather dye, paints for cars and construction. The demand conditions of such enterprises rely on the sub-sector they are serving. The raw materials are mainly imported. If this is to be replaced by domestic production, large investment and marketing strategy which would cover the investment cost shall be required. Deterioration in fundamental conditions does not motivate most of the investors to take such a risk.

Consumer products manufactured from imported materials

Enterprises producing consumer products from imported material have a relatively weak position in terms of factor conditions. Yet, market size is presumed to be steadily increasing in spite of the presence of imported products. This sub-sector can enjoy expanding markets targeting regional markets and can explore growth opportunities. Shoe cream and polish as discussed in 5.3.2 (3) are a good example where their export grew by 160% annually between 2002 and 2004. The notable supporting industry of this sub-sector, at this moment, is only packaging. Because of increasing competition from imported products, fundamental conditions in Kenya have to improve so that Kenya can demonstrate comparative advantages as the regional production hub.

Figure A-9 Diamond Model of Chemical Consumer Products manufactured from imported materials

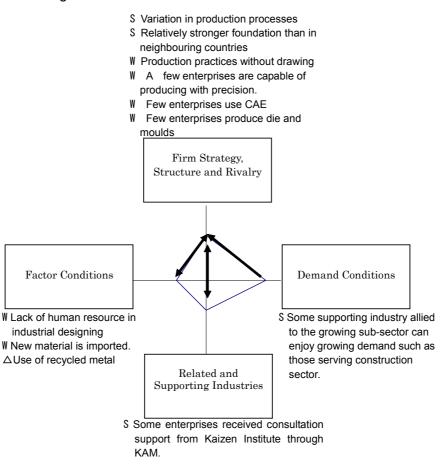


Legend: S (strength), W (weakness), O (opportunity), T (threat)

9) Metal and metalwork

Metalwork is one of the dominant sub-sectors as it is the 6th largest contributor to the total value-addition and 3rd largest contributor to employment within large enterprises (See Table 9-2). Kenya has a capacity to manufacture a range of metal products including construction pipes, automotive parts, home utensils, containers, cables and handicrafts, but companies undertaking moulding and casting are few. The components supplied for construction and telecommunication network are the ones enjoying growing markets. This sub-sector is also popular among the *jua-kali* sector because of easy entry with simple machinery. Majority of companies lack technology for precision processing. Most companies utilise second hand machinery and scrap metal while a few companies are equipped with modern machinery. Some components are supplied to the automotive sub-sector, but hardly any to the electrical sub-sector. Electrical assemblers are generally unaware of the existence of a few good companies and are relying on imported components. Use of computer aided engineering (CAE) is still rare. Even variation in CAD is small. The companies adopting CAD use mostly AutoCAD, mainly two dimensions while majority of micro, small and medium enterprises do not have the capacity of designing. In spite of the variations in production processes, there is much room for technological upgrade.

Figure A-10 Diamond Model of Metal and Metalwork



Legend: S (strength), W (weakness), O (opportunity), T (threat) , \triangle (neutral, but influential) Source: The JICA Study Team

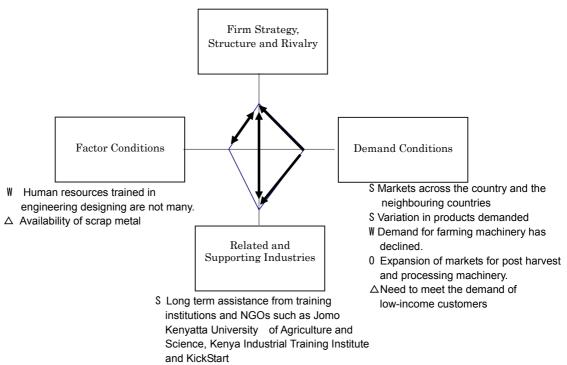
10) Agro-processing Machinery

Agro-processing machinery includes those for farming, post harvest, and processing. The demand for farming machinery is declining, but the demand for post harvest and processing is expected to grow as it is necessary to expand processing activities in the rural area in stead of trading in raw form. Agro-processing machinery manufactures, comprised mostly of small or medium scale enterprises that can be found across the country. They operate close to the markets and make products on order. Most products are made from scrap metal with simple electric motors. There are also tractor assemblers, but due to the decline in farming, local sourcing of components was stopped and now use knock down kits. Designing capacity is a prerequisite in this sub-sector, but the labourers trained in engineering designing are not many. Although the size of the sub-sector is small, creativity and innovativeness are demonstrated in this sub-sector. Many companies are also find markets in the neighbouring countries. The development of agro machinery has been assisted for a long time through institutions and NGOs such as the Jomo Kenyatta University of Agriculture and Technology (JKUAT) and KickStart (formerly called Approtec). Because of the decline in demand in automobile sub-sector, some automotive component manufacturers plan to shift to this sub-sector.

Figure A-11 Diamond Model of Agro-processing Machinery

- S Small and medium enterprises are operating across the country with some designing capacity.
- S Some level of innovation is demonstrated in this sub-sector
- S The companies find markets in neighbouring countries.
- 0 Component suppliers in automotive sub-sector may join in this sub-sector.

 △Use of scrap metal with simple electric motors



Legend: S (strength), W (weakness), O (opportunity), T (threat)

Source: The JICA Study Team

11) Electrics and electronics

The capacity of electrics and electronics sub-sector is low. The market is flooded by imported products, even simple equipment such as radios. In addition, the latest census shows that only 13.5% households used electricity in 1999. There are only 69 formal enterprises operating in this sub-sector with contribution of 2% value addition of the manufacturing sector. The main reasons for such small contributions include i) availability of competitive imported products; ii) small market size; iii) underdeveloped component markets and iv) insufficient training in universities and polytechnics. The main players in this sub-sector are switch board, voltage stabilisers and car battery makers. These existing manufacturers utilise unique market conditions in Kenya such as voltage upsurge. Former assemblers stopped assembling and moved into importation and maintenance work in the early 1990s. Yet, the electrical and electronics sub-sector has received the third largest FDI since 2001 (See Table 9-5). New assembling has started for computers, TVs and audio players. These investors are from South Africa, China, Korea, Malaysia, and Turkey. The assemblers now procure only packaging material locally while all others are imported. Yet, Kenya has a well developed plastic and metalwork sub-sectors, which could potentially supply the assemblers. Although the size of this sub-sector is still small, its performance is not bad in terms of growth rate (7%), input productivity (56%) and labour productivity (994,000 Ksh/labourer) (See Table 9-2). Because Kenya is now putting an effort on universal access to the Internet, the demand for electronic equipment for the use of ICT is expected to expand rapidly. Currently, the dominant supporting industry for ICT within the manufacturing sector is only metallic cable makers. Market opportunity for ICT should be exploited by more manufacturers, and there is also a need for expansion of maintenance work, which can provide market opportunities for micro and small enterprises.

Figure A-12 Diamond Model of Electrical and Electronics S New investment is coming for computer, TV and audio assembling

\$ The sub-sector demonstrates higher growth rate and higher input and labour productivity than average W A small number of enterprises are operating in this sub-sector W Former assemblers stopped assembling in the early 1990s △Potential for small and micro enterprises in maintenance work Firm Strategy. Structure and Rivalry Demand Conditions Factor Conditions \$ Growing demand for ICT S There is demand for unique design to fit W A few well trained electrical and Kenyan markets such as electric electronics engineers. stabilisers. (Consumers are required to W Majority of components are imported purchase stabilisers if they want thei W Cost of production is high electric appliances to be insured.) W Heavily dependence on imported Related and products Supporting Industries W Only 14% of households use electricity. 0 Demand expansion with the electrification W Existing supplier is only packaging W Poor curriculum and equipment at the universities and polytechnics 0 Well developed foundation of metalwork and plastic sub-sector, which can potentially become suppliers.

5-12

Source: The JICA Study Team and Workshop Presentation Paper of Group 2 on 28 June, 2006

Legend: S (strength), W (weakness), O (opportunity), T (threat)

12) Automotive

The demand conditions of the automotive sub-sector are not favourable due to the domination by imported sedans. Because sedans have wide variations with short life cycle, the market size of each model is too small to sustain profitability. The global car manufactures recently gave up production of sedans in Kenya and decided to concentrate on African production centres in Egypt and South-Africa. Accordingly, domestic assemblers shifted their production to commercial cars such as mini buses, trucks, buses and commercial vehicles. The assemblers mostly utilise imported knocked-down kits, but they also have some local suppliers for tyres, harness, frame, seat, exhaust pipes, glasses, batteries, and springs. Simple assembling leads to very little value addition, so some companies engage in elongation of chassis and armoured body building to increase value addition. However, as the three assemblers compete in the small Kenyan market, production for each company is from 2,000 to 4,000 units per annum and is running under capacity. Due to the sudden decline of the production volumes caused by the ceasing of sedan production, the suppliers are also suffering and are forced to shift to aftermarket services. There is concern that the developed supply chain network may collapse or dwindle.

Figure A-13 Diamond Model of Automotive S Assemblers have shifted into commercial vehicles, trucks and S Exporting strategies to the neighbouring countries. W Assemblers gave up production of sedans. Firm Strategy, Structure and Rivalry (assemblers) Demand Conditions **Factor Conditions** S Steady demand in the aftermarket W Major components are § Some customised demand such imported O locational advantage as a as bullet proofing cars W Market for sedans is dominated gateway of East Africa Related and Supporting by imported cars. Industries W Demand for sedans has a varied (tyre, harness, frames, short-life cycle, and the market seats, exhaust pipes, glass, batteries and springs) for each type is too small in this region. S Existence of varied suppliers S Existence of sales and maintenance channels T The orders from the assemblers suddenly decreased, and suppliers are shifting to the aftermarket.

5-13

Legend: S (strength), W (weakness), O (opportunity), T (threat), \triangle (neutral, but influential)

Source: The JICA Study Team

13) Construction Material

Construction materials include cement, tiles, pipes, glass and timber. The demand conditions for construction materials look stable. Value addition of the construction sector grew by 1.6% between 2000 and 2004 [Central Bureau of Statistics (2005) p.27]. Apart from the wooden sub-sector, metallic products grew by 1%, and non-metallic mineral products grew by 8% between 2001 and 2005 (See Table 9-2). Processing requires simple technologies, thus many companies operate in the sub-sector. Competition is getting stronger although competition itself is not a weak condition as long as it operates in the fair market. Input productivity is high for the locally sourced cement and timber. Deposits of limestone for cement are estimated as at least 35 years [KAM (2006) p.221]. The usage of the mineral reserves has to be balanced with environmental protection like the case of timber. This sub-sector can also enjoy more value-adding products such as designed tiles, stained glass and ornamented light fixtures.

Figure A-14 Diamond Model of Construction Material

- 0 Expanding business in the neighbouring countries
- 0 Opportunities to explore higher value-addition products (eg. decorated tiles, stained glass, ornamented light fixture)
- △ Various types of sub-sector supply to the construction.

△Strong competition among the firms

- Firm Strategy, Structure and Rivalry (cement, tiles, pipes, glass, timer) **Demand Conditions Factor Conditions** S Construction market is steadily growing. S This sub-sector is not much affected by imported Related and Supporting products.
- \$ Some raw material sources such as lime stone and timber are locally available.
- W Good wooden materials have become hard to get because of environmental protection.
- T Availability of lime stone may become small because of environmental protection.

Industries

Existence of nationwide distribution

Legend: S (strength), W (weakness), O (opportunity), T (threat), \triangle (neutral, but influential)

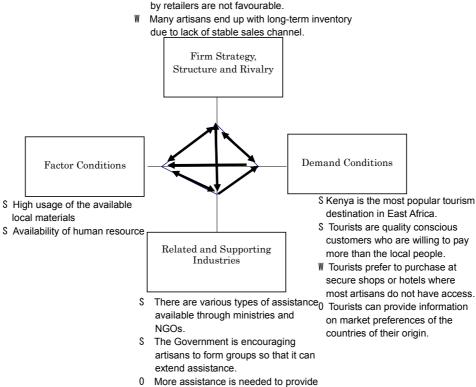
Source: The JICA Study Team

14) Handicrafts

This sub-sector is categorised as manufacturing products for tourists. Handicrafts utilise available local resources such as wood, leather, limestone, clay, wool, banana fibre and sisal. Most manufacturing is undertaken by micro, small and medium enterprises. Product variety has been widened, and production skills have been upgraded. Tourists are likely to pay more than what the locals may pay. Tourists are also quality conscious customers. If the manufacturers and retailers can take customers' preferences seriously, they can get the information on the market preference of their countries and gets a hint for exporting. There are a few successful enterprises which are successfully exporting their products to the developed countries. Exporting products include ceramic necklaces and sisal handbags. These companies have utilised exhibitions and homepages for marketing abroad. Customers abroad prefer to purchase those goods due to their uniqueness. Although this is a niche market abroad, contribution to job employment in Kenya is considerable. However, majority of micro enterprises or artisans do not have stable outlet chains. Most manufactures prefer to make direct selling than using retailers because the terms of payment from the retailers are not favourable. Yet, the tourists prefer to purchase at secure shops, and artisans end up with a long-term inventory. The Government is encouraging the artisans to form groups so that assistance can be extended. Linking to the market shall open opportunities not only for expansion of sales to tourists but also exporting.

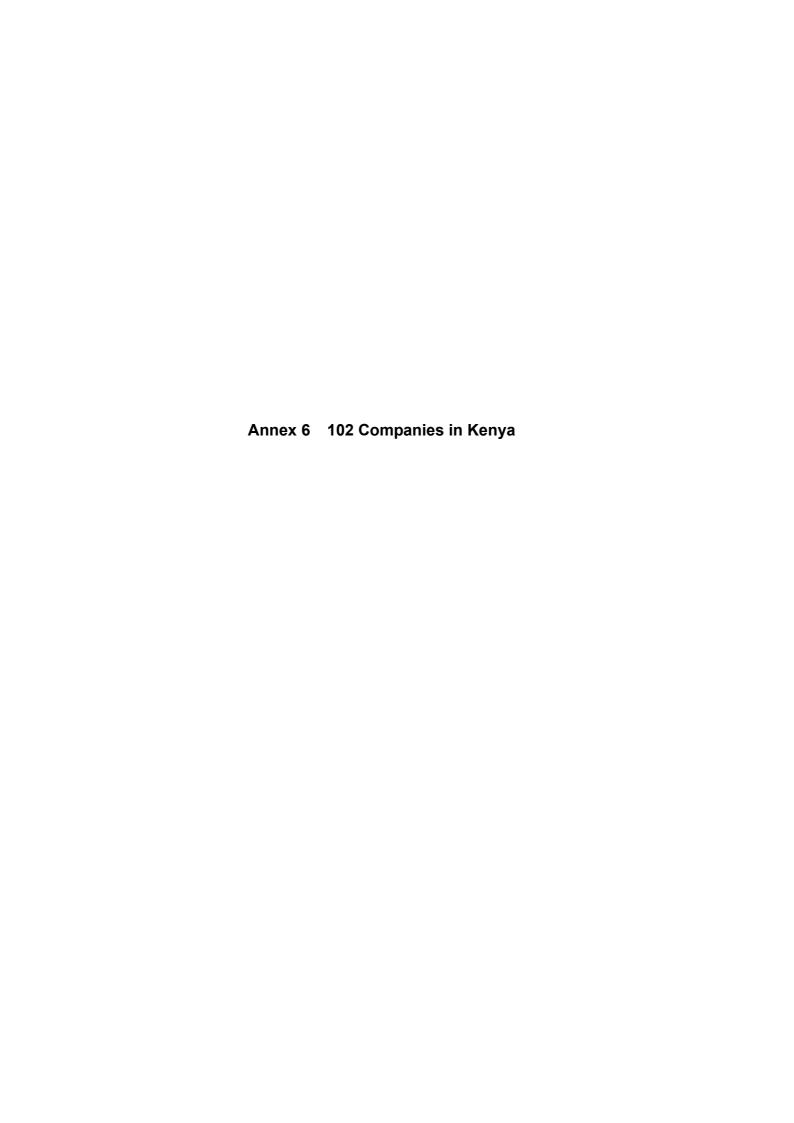
Figure A-15 Diamond Model of Handicraft

- S Growing skills in product designing and development
- S A few enterprises successfully ventured into export markets in developed countries.
- W Most manufactures prefer direct selling than utilising outlets because terms of payment set by retailers are not favourable.



Legend: S (strength), W (weakness), O (opportunity), T (threat), \triangle (neutral, but influential) Source: The JICA Study Team

stable outlets.



102 companies in Kenya

For developing Kenyan industries

1. Collaboration with other companies

Many companies need the following support.

Power up of marketing capability
 Power up of technical capability

Horiguchi has visited 102 companies in Kenya to survey on industrial productivity under MOTI (Ministry of Trade and Industry Kenya) from Jun/06 and now continues.

T. Horiguchi/MAP SKID

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T. Horiguchi/MAP SKID

4. Power up of management capability

V

1. Collaboration with other companies

The present condition in Kenya

The collaboration between Kenyan SMEs is not enough. Therefore, **high-value added products** cannot be developed.

For example, the plastic molding companies, sheet metal pressing companies and Kenya government do not know that Kenya has many die companies. Therefore, almost all dies are imported from India etc, and business chance is flowing out to overseas.

with other companies

1. Collaboration



T.Horiguchi/MAPSKID



Plastic molding company in Kenya

T.Horiguchi/MAPSKID

6-1

1. Collaboration with other companies

The present condition in SE Asia **(**

staff have researched SE Asian SMEs which may become their supplier. Therefore, Thailand has made many SME's network From 1990 in Thailand, many Japanese private company's



Japanes e pri vat e co mpan y's s tuff (Center is Horiguchi)

T.Horiguchi/MAP SKID

1. Collaboration with other companies

What Kenya should do from now on? **@**

From this cause, Kenyan supporting organizations must perform a **Field survey** for Kenyan SMEs to make the Kenya has not many Japanese (Foreign) companies yet. Therefore, it is impossible that the Japanese private company's staff make the Kenyan SME's network. SME's network by themselves.



T.Horiguchi/MAPSKID

2. Power up of marketing capabilities

The present condition in Kenya Θ

companies are relocating to another countries which has dealing companies. The trend now is that, many foreign Main purpose of marketing is researching the needs of many SMEs.

of marketing capability

2. Power up

T. Horiguchi/MAP SKID

T. Horiguchi/MAP SKID

2. Power up of marketing capabilities

② The present condition in SE Asia (1)

In SE Asia and China, "Buyer's trade fairs" are opened by Japanese companies in many cities every year. In the fair, Japanese company disassembles own products, and search SMEs which can produce their parts. Therefore SE Asian SMEs have many opportunities for doing marketing research.



Buyer's trade fair

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2. Power up of marketing capabilities

② The present condition in SE Asia (2)

In SE Asia and china, SE Asian SMEs are performing "Teardown" (disassemble dealing company's goods). By the Teardown analysis, they can find parts which they can produce. Therefore they can start dealing with Japanese companies easily.



eardownworkshop in Japa by Horiguchi

T. Horiguchi/MAP SKID

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2. Power up of marketing capabilities

③ What Kenya should do from now on?

Kenyan supporting organizations should hold a "Buyer's trade fair" and "Teardown study mission". By using these methods Kenyan SMEs can perform marketing research and can start to deal with Japanese companies quickly.

of technical capability

3. Power up



Teardown work shop in Mombasa by MOTI and Horiguchi

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Teardownwork shop in Nairobi by MOTI and Horiguchi

T. Horiguchi/MAP SKID

12

3. Power up of technical capabilities

3. Power up of technical capabilities

companies. They then study practical technology by OJT (On The Job Training). After which, they can Switch

lobs to local companies. Consequently, the technical capabilities of SE Asian SMEs can go up abruptly.

In SE Asia, many graduates are employed by Japanese

The present condition in SE Asia

(3)

The present condition in Kenya Θ

Kenyan graduate's technical capabilities are the same as that of SE Asia. However, "After graduation" there are capabilities by OJT (On The Job Training) hence our few companies which can improve the graduates current problems.



educ atio nal equipments

T. Horiguchi/MAP SKID



educational equipments

T.Horiguchi/MAPSKID

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3. Power up of technical capabilities

What Kenya should do from now on? <u>ල</u>

Kenya should utilize **EPZ** and should welcome a company In Kenya, good companies which can improve graduate's enhancing our SME's technical capabilities is difficult. capability by OJT are not enough in number, therefore more to employ or train gradates.

of management capability 4. Power up

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6-4

15

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4. Power up of management capabilities

(1) The present condition in Kenya

Over 90% of the company which I visited has manager who is not African people. The reason will be lack of business education system in Kenya.

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17

4. Power up of management capabilities

② The present condition SE Asia

From 2000, Ministry of Industry in Thailand has introduced Japanese **SMEC** (**SME management consultant**) **system**. Now Ministry has 400 Thai SMECs. They have instructed on business management for 1,000 Thai SMEs from 2000.



Horiguo

Horiguchi and Thai SMECs



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Horiguchi and Thai SMECs

4. Power up of management capabilities

3 What Kenya should do from now on?

Kenya should introduce Japanese **SMEC** system the way Thailand did. From here Kenyan SMEC will instruct on Management methods for the Kenyan SMEs. Therefore, the management capability of Kenyan SMEs will go up abruptly.

of field survey

Result



Instruct for SME by Thai SMECs



Instruct for SME by Thai SMECs

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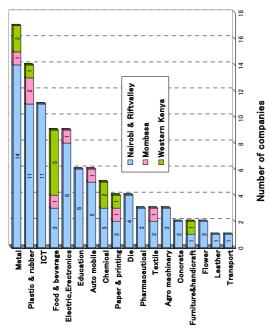
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9-5

Details of the visited 102 companies



2

Metal and Mechanical machines (17 companies)

binding sheet or powder coating to prevent The company is bending and welding a oxidization by water. But all steal are steal plate for produce steel pipe. And imported from SA etc.



Filter and brake pad (Sunny)

The company produce filter and brake sue for vehicles. But still they are using as bestos for produce brake pad. The asbestos are imported from Kazakhstan and Zimbabwe.



Binding steel pipe

Metal and Mechanical machines (17 companies)

The company collects scrap metal and melts costs incurred in the operation of its electric manufactures a gricultural ploughs and steel possibility of scrap-metal running out of furnaces, and also it's worried about the rods. It's main worry is huge electricity it in electric furnaces. From this, it supply in 2-3 years.



Aluminum Press (Crystal)

oil fired furnaces. And press aluminum pots Uganda and Tanzanian households still use The company melts scrap aluminum using firewood to cook, so the demand for for the United Nations. Many Kenya,

Factory for Melting iron

aluminum pots is remain high.

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Metal and Mechanical machines (17 companies)

Wheel chair (Undugu)

the company by the selves. They produce they have not sufficient capital for mass All workers (5) are handicapped persons They can't get job therefore they found market in Sudan and Somalia, but now wheel chair for outdoor. They found production.



Kitchen instrument (CES)

instrument. And they produce similar instrument for Kenyan restaurants. The company teardown Italy





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2. Plastic and Rubber (14 companies)

PVC pipes(Shiv)

produces a variety of pipes used for i.e. water, By Extrusion molding the company sewer, and electric piping etc.

In western area they have no competito therefore they van get big profit.



Tire (Sameer)

The company manufactures tires basically suited for the Kenyan market and roads



Binding rubber for tire

Bucket (NPL)

The company produce bucket by injection molding and blow molding but dies are imported from India. molding and blow molding



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3. ICT (11 companies)

25

With raw materials imported from Zambia, Cable wire maker (East African Cable) market. The company is high profitable

metal cables are produced for the local

company.

Winding machine for metal cable

Call centre (Ken Call)

office services." Since the people of Kenya accent, it will be a strong selling point over companies. They have also started "Backspeak English fluently and without much market by Kenyan low speed network. Delay of plan for optical cable from The company offers services to U.S India. But they have not taken big



2. Plastic and Rubber (14 companies)

Plastic bag (PIL)

molding and printing. Now Quality control The company produce plastic bag by blow (thickness) is difficult by voltage limit



Sandal (Umoia Rubber)

The company manufactures sandal. And exporting to Japan (Takashimaya).



Molding sandal

Shoe (Umoja Rubber))

The company manufactures shoe of a rubber sole, but clothes are imported from china



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4. Food and Beverages (9 companies)

Soda and Drinking water

(Softa Bottling)

This company manufactures soda products. capp ed on an automated production line. Branded bottles are washed, filled and

Fish Processing (Peche)

The company buys fish(nile perch) directly from Lake Victoria, and exports to Japan and USA. The remaining fish is sold cheaply to the locals.

producing high value added goods e.g. Fish sausages, Fish oil and Cosmetics. The company also wishes to start



Remaining fish



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Mombasa to Nairobi have bad effect.

4. Food and Beverages (9 companies)

Oil and soap (Pwani)

But palm-oil is imported from Malaysia. This company refining palm-oil and producing soap from bottom oil.



Flour and bread (United Miller)

get technical education for new equipment. animal, and produce bread from flour. Their The company produce flour for human and equipments become old, but they can not





5. Electric & Electronics (9 companies)

PC company (Mecer)

computers locally. It's production capacity is The company produces its own brand of 300 pieces per month.

But all parts (include container box) are imported now.





Wind generator

Wind generator (Craft Skill)

by using used-cars gearbox and exporting They design by themselves and produce to Tanzania, Uganda etc.



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6. Education (6 companies)

The machine for education become very

Mechanical engineering education

(KPLC)

machine, but teacher has no knowledge

of new machine.

old (1985). They want to buy new

Q;

Electric engineering education (KPLC) All electric machine for education have

been donated at same time (1990).

5. Electric & Electronics (9 companies)

Home electric goods (SANYO)

Since the company (Sanyo) had a small market assembling parts has stopped. Now the company is performing only





Panel have produced to counter electric

Electric Switch control Panel (IET)

technical training from Siemens. They export control panel to Uganda and

Fanzania.

Electric Switch control Panel



Therefore all machine become old

together.

Machine in education

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8-9

3

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7. Automobile (6 companies)

Automobile (Kenya Vehicle)

line are automated. Vehicle body's fabrication units in the same year 2005. Low production in Kenya has led to "Manual operation line" The three companies have to compete for But, Toy of a South Africa produced 124,000 the small Kenyan market. Production for unlike in the develop ed counties where the in Kenya is done by using old machinery. each company is 2,000-4,000 units/Year.





Manufacture line for bus

Production involves Spring steel imported Automobile LeafSpring (AutoSpring)

from South Africa. The Leaf Spring manufactured are mainly meant for Trucks.

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Book manufacture (Kitabu)

Donors fund the production of school books by this company, therefore its purchases and production depends entirely on donor's founding.



Paper milling (Pan Paper)

renewed every year with uncertainty of 2003. Since then, the contract has been forest. But 31-year agreement ended in the future.



Stripped woods



8. Chemical (5 companies)

Coils and mosquito chips (Kapi)

due to low profits to the pyrethrum farmers, This company manufactures mosquito coils cheap imports from India and Malaysia. and mos-chips using pyrethrum. However the production of pyrethrum in Kenya products face stiff competition from has gone down. And, now a days coil





Manufacture line for mosquito coils

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8

10. Die maker (4 companies)

They design dies using CAD technology, Die for plastic moulding (Hard Tech) injection molding and blow molding. and they produce dies using electric eroding machine and metalworking The company produces dies for machines.





Die for plastic molding

They design dies using CAD technology,

then translate to CAM-data by

Die for plastic molding (Plas Kit)



MC (machining center) automatically.

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11. Pharmaceutical (3 companies)

Generic medicine (Universal)

Materials imported from America and China Kenya. Therefore all manager are from export COMESA. But Almost no person are used to manufacture low cost generic who have business administration is in medicines for Malaria etc. the company



Manufacture line for bus

12. Textile (3 companies)

Sisal bags company (Black Gold)

Sisal bags are sourced from Machakos and Kitui in Kenya. Then Straps are attached to the bags according to buyers' requirements.

Japan for sale's by the help of a Japanese 2-3 times in a year, the company visited organization called "JETRO".



Factory for Sisal bags

The company has opened a factory in a Trousers company (EMKE)

Mombassa EPZ. This company might opt to relocate from Kenya, after its AGOA agreement expire.



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And all clothes are imported from

14. Concrete Products (2 companies)

13. Agro machinery (3 companies)

The company only assembles 4 tractors

in 1 month,

Fractor (Farm Engineering)

imported from German and England. using knock-down tractor parts

Because the sizes of farms are becoming smaller,

Concrete Products

(Bhimji Ramji & Sons)

The company continued unearthing ballast The company in Nairobi produce concrete for 60 years from the inside of its site. **But** now dispute has occurred cause by products by using Ballast.





apartment in near.

the market for agricultural machinery

has become small.

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6-10

33

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15. Furniture/Handicraft (2 companies)

Furniture (Furniture International)

With raw material import's from Congo, the company manufacture's furniture by using machinery from German and Italy penetrated our market and are 30% Nowadays mass produced plastic furniture from china has slowly cheaper in price.



Handicraft (Kapi)

The company's owner graduated from the goods are designed by her. The Home school of designing in Britain. And all Page is put on server in the USA to avoid Kenyan low speed network.



4



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17. Leather (1 company)

16. Flower (2 company)

Rose (Zena)

One company hope to export rose to Japan, Therefore they are looking for Japanese breeder and dry-flower engineer. The companies produce rose.



The company produce 1.5million roses/day

Rose (Sher)

and Ethiopia factory is better than Kenya have another same size factory in Ethiopia, in Tax, Road, Support. Therefore they and export to Netherlands. The company have plan of factory relocation.

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18. Transport (1 company)

Transport (Siginon Freight)

transport flower by track. And hold own cold room. And transfer EU by charter From Naivasha and riftvalley they



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4

6-11

43

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processing companies reduced from 23

Due to this, number of leather

has gone up.

from our country, local market prices

Since China buys raw hides directly

of the products is done at the factory.

Washing, drying and dyeing

purchased locally.

from raw hides

The comp any produced leather

Leather processing factory

(Leather Industry)

100% of products are exported

to India and S.A..