

INDUSTRIAL POTENTIAL SURVEY REPORT - 2017

**District Industries Centre
Thrissur**

Introduction

Thrissur is a district situated in the central part of Kerala state. Thrissur district was formed in July 1, 1949. The head quarters of the district has the same name, Thrissur City. It is an important cultural centre, and is known as the "**Cultural Capital of Kerala**". It is famous for the Thrissur Pooram festival, the most colourful and spectacular temple festival of Kerala. The festival is held near the Vadakkumnathan temple in April or May. It has a large number of well known temples around, including the temple town of Guruvayur, Kodungallur, Thriprayar, Irinjalakuda.

The name **Thrissur** is derived from 'Tri-Shiva-Perur' , which means the place with three famous Siva temples which are said to be the Vadakkunnathan, Kottappuram siva temple and Poonkunnam temple.

Geography and climate

Thrissur is situated in south western India. Thrissur is at sea level and spans an area of about 66.15 Sq.Km. It is bounded on the north by Palakkad district, on the east by Palakkad district and Coimbatore district of Tamil Nadu, on the south by Ernakulam and Idukki districts, and on the west by the Arabian Sea(54.Km). Descending from the heights of the Western Ghats in the east, the land slopes towards the west forming three distinct natural divisions - the highlands, the plains and the sea board.

The Periyar, the Chalakudy, the Karuvannur, and the Bharathapuzha are the main river systems in the district. They take their origin from the mountains on the east, and flow westward and discharge into the Arabian Sea. There are a number of tributaries also joining these main rivers. There are waterfalls such as Athirappilly falls. The district has a tropical humid climate with an oppressive hot season and plentiful and seasonal rainfall. The hot season from March to May is followed by the South West Monsoon season from June to September. The period from December to February is the North East monsoon season, although the rain stop by the end of December and the rest of the period is generally dry.

Location and extent

- Located in the Central part of Kerala
- Extends over an area 3032 Sq. Km
- Constituting nearly 8 percent of the total area of the State
- Located at North latitude between 8° 18' and 12° 48' and East longitude 74° 52' and 77° 22'.
- Malappuram and Palakkad district in the north,
- Palakkad and the Coimbatore district of Tamilnadu in the east,
- Ernakulam and Idukki districts in the south the Arabian Sea in the west.

- The elevation increases from west to east.
- The lowest elevation below MSL is in the kole lands towards the west
- Highest elevation of 1430 m at Karimalagopuram lying on the east boundary.
- The District has an area of 302919 Ha, which constitute 7.8% of the total area of the State.

THRISSUR AT A GLANCE

Date of formation	01.07.1949
i) Latitude	1031N 7613E
ii) Longitude	10.52N 76.21E
iii) Geographical Area	3032 Sq.Km
Demography	
Total population (2011)census	3121200
Male	1480763
Female	1640437
Sex Ratio(female per 1000 males)	1109
Population Density	1026/sq.km
Decadal Growth Rate	
Child population(0-6years)	303950
PerCapita income(2015-16) Constant price	136 675
Total literacy rate(2011)	95.08
Male literacy rate	96.78
Female	93.56
Administrative setup	
Taluks	6
Villages	255
Gramapanchyat	86
Block panchyat	16
Corporation	1
Municipalities	7
District panchyat	1
Loksabha seats	3
Niyamasabha seats	14
Educational district	3
Agricultural scenario	
Total cropped area	174275 Ha
Major agricultural items	Paddy, Coconut, Tapioca, Banana, Jack, Plantain, Nutmeg etc.
Land put to non agri uses	38313 Ha
Forest cover	103619

Gross irrigated area	81501 Ha
Net irrigated area (2015-16)	71333 Ha
Production of rice(2015-16)	78886 Tonne
Productivity of rice(2015-16)	3203 Kg/Ha
Gross Area under paddy cultivation	24625 Ha
Production of milk(2016-17)	150626180
Production of egg (2015-16)	
Production of Meat (2015-16)	55.80 MT
Total annual rainfall as on 2015-16	2512
Industrial status (as on 31.3.2017)	
Micro Manufacturing	10856
Micro Service	2164
Small Manufacturing	559
Small Service	108
Medium manufacturing	12
Medium service	7
No of development plot/area	6
No of Mini Industrial Area	11
Industrial Area developed by : (a) District Panchayath (b) Block Panchayath (c) GramaPanchayath	
Handloom societies (working)	12
Power loom societies (working)	2
Coir societies(working)	15
General Industrial societies(working)	22
Handicrafts societies(working)	8

2. Resource analysis

1). Agriculture

Land use pattern in Hectares 2015-16

i) Total Area	In Hectre
ii) Forest Land	103619
iii) Non Agriculture Land	38313
iv) Cultivable Waste land	9734
(v) Current fallow	8081
(vi)Other Fallow	6024
(vii) Net Sown Area	129942
(viii) Land Under Misc.tree crops	187
(ix) Permanent Pasture and Grazing land	0
(x) Gross Cropped Area	174275
(xi) Area Cultivated more than once	44333

(Dist wise from Eco&Stat)

(i) Area, Production & Productivity of Agriculturecrops 2015-16

Crop	Area(Ha)	Production(Ton)	Productivity(Kg/Ha)
Rice	24625	78886	3203
Tapiocca	1290	54613	42336
Banana	2165	19803	9147
Sugarcane	0.09	0.086	956
Plantain	5259	33229	6319
Pineapple	61	371	6082
Coconut	81602	489 Million Nuts	5993 Nos/Ha
Areacanut	6271	6098	972
Nutmug	6796	4171	614
Ginger (Cured)	50	130	2600
Turmeric	77	164	2130
Jack	4757	15 million nos.	3153 Nos/Ha
Mango	7021	38762	5521
Cashew (raw)	1661	462	278
Pepper	1790	479	268
Cocoa	86	46	535
Tamarind	1347	4162	3090
Pappaya	1473	5217	3542

ii) Area& Production of Plantation crops

Crops	Area(In Ha)	Production(Tonn)
Rubber	15660	12900
Tea	530	1691

(District wise from Eco&Stat.)

2)Water Resources

There are 5 Completed Irrigation Projects in Thrissur district. The details readily available are furnished here. The details regarding no of tube wells etc. you may please contact ground water department and other district offices.

Completed Medium and Major Irrigation Projects THRISSUR DISTRICT

Sl. No	Projects	District	Year of Starting	Year of Completion	Ayacut	
					Potential created	Potential Achieved
1	Peechi	Thrissur	1949	1957	18615	14830
2	Chalakkudy	Thrissur	1949	1966	14142	11283
3	Vazhani	Thrissur	1951	1962	5182	4313
4	Cheerakuzhy	Thrissur	1957	1973	1620	987
5	Chimoni	Thrissur	1975	1996	13000	11796

Sl. No	Projects	District	STORAGE CAPACITY	CATCHMENT AREA		
			Mm3	Sq Km		
1	Peechi	Thrissur	110.435Mm3	107.09 sq km		
2	Chalakkudy	Thrissur	River diversion scheme	1178		
3	Vazhani	Thrissur	18.121	20.72		
4	Cheerakuzhy	Thrissur	River diversion scheme	91		
5	Chimoni	Thrissur	172.64	72.13		

3) .Animal Husbandry

i) Live-stock population:

Category	Numbers
Cattle	102747
Buffalo	18650
Goat	128130
Sheep	94
Pig	7137
Poultry	1050860
Rabbits	19844
Dogs	81344
Elephants	175
Horse	61

(Dist wise from Animal Husbandry Dept)

ii) Milk Production in the District

Year	District	Kerala	% w r t Kerala
2014-15	124991015		
2015-16	135499380		
2016-17	150626180		

(Dist wise from Eco&Stat or Dairy Dev. dept)

iii) Society Milk Procurement

Year	Total milk procurement	Society milk procurement	% w r t total milk production
2014-15	124991015	24998203	20%
2015-16	135499380	27099876	20%
2016-17	150626180	30125236	20%

(Dist wise from Eco&Stat)

iv) Dairy Production (Per capita per day availability of milk in the block available from BDEO)

Block Wise Milk Procurement for the year 2016-17 in Thrissur District						
Sl No	Block	No. of Milk Societies	Milk Procurement through milk societies	Daily Milk Procurement of Milk Societies	Total Milk Procurement of the District	Daily Milk Procurement of the district
1	Anthikkad	10	973157	2666	4865785	13331
2	Chalakkudy	21	3374127	9244	16870635	46221
3	Chavakkad	5	133531	366	667655	1829
4	Cherpu	14	1728707	4736	8643535	23681
5	Chovvannur	15	1127800	3090	5639000	15449
6	Irinjalakkuda	10	1184127	3244	5920635	16221
7	Kodakara	13	2282777	6254	11413885	31271
8	Kodungallur	8	908187	2488	4540935	12441
9	Mala	22	2347824	6432	11739120	32162
10	Mathilakam	13	1263697	3462	6318485	17311
11	Mullassery	5	268342	735	1341710	3676
12	Ollukkara	26	5265749	14427	26328745	72134
13	Pazhayannur	19	3123289	8557	15616445	42785
14	Puzhakkal	16	1534738	4205	7673690	21024
15	Thalikkulam	7	527927	1446	2639635	7232
16	Vellangallur	12	2045892	5605	10229460	28026
17	Wadakkanchery	21	2035365	5576	10176825	27882
	Total	237	30125236	82535	150626180	412674

v) Meat Production – MT

Item	2015-16	2016-17
Total meat production excluding poultry	36.90	30.74
Total Poultry Meat	18.90	23.32

(Dist wise from Animal Husbandry Dept)

4). Fisheries

Fish Production–(MT)

Year	Marine	Inland
2014-15	31164	26251
2015-16	21057	26781
2016-17 *	6105	26220

* Provisional

5) Major mineral resources available in the Block

Category	Area covered (in cents)
Granite (Building stone)	30615
Laterite (Building stone)	1136
Clay (Bricks)	6290

(Block wise from Eco&StatorVikasanaRekha or Mining & Geology Dept)

6) Forest Resources

(Division wise from Forest Dept)

<i>a) Forest Plantations</i>						
Item	Area (in Ha)					
	Thrissur	Chalakydy	Vazhachal	Malayattur	Total	Remarks
<i>Hard Wood</i>	2255.57	4538.93	3974.07	4903.26	15671.83	
<i>Soft Wood</i>	4587.97	392.33	665.7	323.4	5969.4	
<i>Bamboo/Cane</i>		38.6	330.94	74.7	444.24	
<i>Others</i>	38.25	869.98	2645.39	2659.31	6212.93	<i>In this some mixed plantations include hardwood & Soft wood</i>
Total	6881.79	5839.84	7616.10	7960.67	28298.4	

*Area of under plantations are not included in this statement.

b) Spacious wise distribution of plantation area						
Item	Area (in Ha)					
	Thrissur	Chalakydy	Vazhachal	Malayattur	Total	Remarks
Teak	2237.16	4538.93	3885.79	4903.26	15565.14	
Acacia & Mangium	2371.29	122.66	10	208.73	2712.68	
Eucalyptus	181.92	-	211.56	28.25	421.73	
Cane	-	-	163.66	-	163.66	
Bamboo	-	38.6	167.28	74.7	280.58	
Rosewood	18.41	-	-	-	18.41	
Mahagony	-	-	-	-	0	
Pepper	-	-	-	-	0	
Others	2073.01	1139.65	3177.81	2745.73	9136.2	
Total	6881.79	5839.84	7616.1	7960.67	28298.4	

- *In Thrissur & Vazhachal Divisions some species are planted as under planting, which are shown below*
- *Thrissur (Cane—59.9 ha, Bamboo-422.2 Ha, Medicinal Plants-339.27 Ha, Sandal Wood-22.5 Ha & Miscellaneous Species-4795.78 Ha)*
- *Vazhachal-(Cane-23 Ha Ha & Medicinal Plants-87 Ha)*

b) Availability of Industrial Wood

Distribution/Species wise distribution of plantation area

Plantation	Area (in Hectres)
Teak	15565
Accacia&Mangium	2713
Eucalyptus	422
Cane	164
Bamboo	281
Rose wood	18
Mahagoni	0
Pepper	0
Others	9136
TOTAL	28298

(Division wise from Forest Dept)

8) Human Resources- 2011 Census(Block wise ;Census of India,2011 From Eco&Stat)

(A)	Population Total	3121200
	SC	324350
	ST	9430
	Others	2787420
(B)	Sex-wise	
	i) Male	1480763
	ii) Female	1640437
	Population Density/Sq.Km	1026
	Sex ratio (No.of females/1000 males)	1109
(C)	Rural Population	1024794
	i)Male	488303
	ii)Female	536491
(D)	Urban Population	2096406
	i)Male	992460
	ii)Female	1103946
(E)	Population in age group 0-6	303950
	i)Male	155862
	ii)Female	148088
	Sex Ratio	948
(F)	Worforce availability	1095727
	i)Male	789511
	ii)Female	306216
	Sex ratio	
(G)	No of Literates(Total)	2678548
	i) Male	1282261
	ii) Female	1396287
(H)	Main workers Total	929506
	Cultivators	34791
	Agrilabourers	54538
	Household Industry workers	21883
	Other workers	818294
(I)	Marginal workers Total	166221
	Cultivators	6995
	Agrilabourers	19403
	Household Industry workers	6000
	Other workers	133823
(k)	Work participation rate	

9) Education

Education Institutions	Govt.	Aided	Unaided	Total
(a) Lower Primary school	119	376	38	533
(b) Upper Primary schools	58	164	5	227
(c) High Schools	87	150	33	270
(d) Higher Secondary schools	70	95	53	218
(e) VHSE	26	10		36
(f) Technical Schools	2			2
(g) Polytechnics	6	1		7
(h) Kendriya Vidyalaya	2			2
(i) Jawahar Navodaya Vidyalaya	1			1
(j) CBSE Schools			68	68
(k) ICSE Schools			10	10
Colleges				
(a) Arts & Science	5	17		22
(b) Engineering College	1		16	17
(c).Medical College	1		2	3
(d).Veterinary College	1			1
(e) Dairy Science College	1			1
(f) Kerala Agricultural College	1			1
(g)College of Agriculture & Banking Management				
(i) Nursing College	1		8	9
(j) Pharmacy College			4	4
(k) Training College	1	4	12	17
(l) Ayurvedic College		1	1	2
(m) Dental College	1		1	2
(o).Law College	1			1
(p) College of Food Technology	1			1
(q) College of Horticulture	1			
® College of Forestry	1			1
Research and Development institutions				
(r) Agricultural University	1			1
(s) Kerala University of Health Sciences	1			1
(t) Food Craft institute	1			1
(u) Kerala Kalamandalam Deemed University for Art and Culture	1			1

Kerala Institute of Local Administration (KILA)	1			1
(Kerala Forest Research Institute)	1			1

(Block wise from Eco&Stat)

10)Health(Dist wise from Eco&Stat)

a) Medical facilities

Public Health	2016-17
Allopathic hospitals	85
Beds in allopathic hospitals	3435
Govt. Ayurveda hospitals	17
Ayurveda dispensaries	85
Beds in Ayurveda hospitals	270
Homeo hospitals	1
Homeo dispensaries	95
Beds in Homeo hospitals	25
Community health centers	24
Primary health center	79
Leprosy hospital	1
Mental health care	1
Sub health center	472
District T.B centers	1
ESI Hospital	1

11) Unemployed persons registered under Employment Exchange as 30.06.2017

	General	Scheduled Caste	Scheduled Tribe	Total
Male	19621	7971	60	27563
Female	41795	8828	160	50783

Below X	X	+2	Graduate	P G	Technically Qualified		
					Graduate	Diploma	Certificate course
5348	55202	13053	4793	1544	1893	11445	257

(Dist wise; From Employment Exchange Dist office)

12) Tourist Centers

Name & location	Name of tourist facilities (Boating/Trucking/Landscape/Museum/Art Gallery/Historical/Pilgrimage)	average no. of tourists visited during in a year
Thumboormoozhi; on Chalakkudi – Athirappilly – Vazhachal Road;	Park, Hanging Bridge, Riverside picnic spot	3,91,171
Peechi; Near Pattikkad	Dam, Garden	2,52,101
Vazhani; Near Wadakkancheri	Dam, Garden, Adventure sports	2,10,000
Poomala; Near Mulankunnathukavu	Dam, Boating, Horse rides	50,000
Vilangankunnu; near Adatt	Hilltop picnic spot, view points	1,59,348
Chavakkad; near town	Beach	2,00,000
Snehatheeram; near Thalikkulam	Beach	1,54,035
Azheekkode munakkal Muziris Beach; near Kodungallur	Beach	1,50,000

3. Infrastructural facilities

I. Transportation (*Block wise from Local body DE&S*)

a) Roads

3. Infrastructural facilities

Transportation - Roads

Sl. No.	Name of Road	Starting point	Finishing point	Length (in Km.)	Whether MDR/S.H.
State Highways					
1	Thrissur - Mannuthy Road	District hospital Junction, Thrissur Round Ch.0/000	Mannuthy Bye pass at NH 47 Ch.5/020	5.020	Old N.H.
2	Thrissur - Kuttippuram Road (S.H. 69)	Paramekkavu Temple - Thrissur Round Ch.0/000	Kadavallur (Thrissur - Malappuram District Boundary) Ch.34/315	34.315	S.H.
3	Thrissur - Thalore Road	Thrissur Round - District Hospital South Corner Ch.0/000	Manaly Bridge at NH 47 - Ch.10/583	10.583	Old N.H.
4	Kodungallur Shornur Road (SH-22)	Kodungallur Ch.0/000 Devamatha School, Patturaikkal Ch.38.163	Koorkanchery - Elite Mission Hospital Ch.33/963 Kochin Bridge - Cheruthuruthy (Thrissur - Palakkad District Boundary) Ch.67.512	63.312	S.H.
5	Thrissur - Kanjani - Vatanappilly Road	Chungam - West Fort Ch.0/580	NH-17 at Vatanappilly Ch.16.120	15.540	S.H.
6	Potta - Moonnupeedika Road (S.H.-61)	Potta at old NH-47 Ch.0/000	Moonnupeedika at NH-17 Ch.22/058	22.058	S.H.
7	Kodakara Bazar Road	NH-47 at Santhi Hospital Ch.0/000	NH-47 at Kodakara Ch.1/100	1.100	Old N.H.
8	Kodakara - Kodungallur Road (SH-51)	Kodakara Junction at old NH-47 Ch.0/000	Keetholy at NH-17 Ch.25/956	25.956	S.H.
9	Chavakkad - Wadakkanchery Road (S.H. - 50)	Chavakkad Junction Ch.0/000	Ottupara Junction in Thrissur shornur road Ch.31/015	31.015	S.H.
10	Kuranchery - Velur Road (S.H. -76)	Kuranchery Railway Over Bridge in Kuranchery Bye pass Road Ch.0/000	Kechery Junction in Thrissur - Kuttippuram road Ch.13/228	13.228	S.H.
11	Perumbilavu - Nilambur Road (S.H. 39)	Perumbilavu Ch.0/000	Thanathara bridge (Thrissur - Palakkad District Boundary) Ch.3/372	3.372	S.H.

12	Vazhkode -Alathur Road (S.H. 74)	Vazhakode Junction in Thrissur - Shornur Road Ch.0/000.	Plazhy Bridge (Thrissur - Palakkad boundary) Ch.22.642	22.642	S.H.
13	Chalaky - Anamala Road (S.H. 21)	Chalaky (Anamala Junction)	Malakkappara Check Post (Kerala - Tamil Nadu State Boundary) Ch.88/403	88.403	S.H.
14	Guruvayur - Choondal Road (S.H. 49)	Manjulal - Guruvayur Ch.0/000	Choondal Junction in Thrissur - Kuttippuram Road Ch.7/288	7.288	S.H.
15	Guruvayur - Althara - Ponnani Road (S.H. 62)	Guruvayur at Km.0/050 of Guruvayur-Choondal Road Ch.0/000.	Vanneri (Thrissur- Palakkad District Boundary) Ch.14/858.	14.858	S.H.
16	Portion of Old Kodungallur - Shornur Road	Athani Ch.0/000 Arafa School Junction Ch.0/000	Vyasa College Junction Ch.3/000 Attoor Over Bridge Ch.1.122	3.000 1.122	Old S.H.
17	Pattikkad Bazar Road	NH-47 at Peechi Jn. Ch.0/000	NH-47 at Kallidukku Ch.3/621	3.621	Old N.H.
18	Mannuthy Bazar Road	NH-47 at Mannuthy Junction Ch.0/000	NH-47 at Mannuthy Church Ch.0/520	0.520	Old N.H.
19	Old NH Chalaky	NH-47 at P.M.G. Junction Ch.0/000	NH-47 at South Junction, Chalaky Ch.4/430	4.430	Old N.H.
20	Old NH Koratty	NH-47 at Koratty Junction Ch.0/000	NH-47 at Chirangara Junction Ch.2/650	2.650	Old N.H.
Total				374.033	
Major District Roads					
1	Kannara - Moorkanikkara Road	Kannara Junction Ch.0/000	Moorkanikkara Junction Ch.9/428.	9.428	MDR
2	Pattikkad - Peechi Road	Pattikkad Junction Ch.0/000	Peechi Dam Ch.6/622	6.622	MDR
3	Edakkuni Road	Mannuthy Junction Ch.0/000	Poochunnipadam Ch.12/860	12.860	MDR
4	Kuriachira - Anchery Road	Kuriachira junction Ch.0/000	Anchery Chira Ch.2/414	2.414	MDR
5	Veembu Road	Nellikunnu Church Ch.0/000	Veembu Temple Ch.5/289	5.289	MDR
6	Kozhukkully - Moorkanikkara Road	Kozhukkully Church Ch.0/000	Moorkanikkara Texan Tyres Ch.0/750	0.750	MDR
7	Mullakkara - Mulayam Road	Mullakkara Junction Ch.0/000	Mulayam Water Tank Ch.2/352	2.352	MDR

8	Chirakkakode - Vellanikkara Road	Mannuthy Church Ch.0/000	Chirakkekcode junction Ch.3/600	3.600	MDR
9	Perumvamkulam Road	Companyadi Stop Ch.0/000	Padavarad Junction Ch.1/580	1.580	MDR
10	South - Anchery Road	Christopher stop Ch.0/000	Thottapadi Junction Ch.2/080	2.080	MDR
11	Museum - Mukkattukara Road	Pension moola - Ch.0/050	Nellankara Church Junction Ch.1/000	0.950	MDR
12	Mukkattukara Road	Kizhakkumpattukara Junction Ch.0/000	Mannuthy Bazar Road Ch.3/505	3.505	MDR
13	Puthur - Ponnukkara Road	Payyappilly Moola Ch.0/000	Sarvodaya Corner Ch.3/200	3.200	MDR
14	Kozhukkully Road	Poochatty Junction Ch.0/000	Mulayam Road Ch.3/420	3.420	MDR
15	Mannamangalam - Marottichal - Vallur - Chimmini Dam Road	Mannamangalam junction Ch.0/000	Kallai Ch.8/120	8.120	MDR
16	Ponnukkara - Chembamkandam Road	Ponnukkara junction Ch.0/000	Chemban Kandam Junction Ch.4/959	4.959	MDR
17	Mullakkara - Thottapadi Road	NH-47 11th Km. Ch.0/000	11/400 of NH-47 Ch.0/511	0.511	MDR
18	Thrikkur Road	Kesavapadi Junction Ch.0/000	Thrikkur Temple Ch.3/850	3.850	MDR
19	Ayyanthole Road	Chungam Ch.0/580	Puzhakkal Ch.3/900	3.900	MDR
20	Toll Gate - Chettupuzha Road	Aranattukara Ch.0/000	Chettupuzha Ch.2/825	2.825	MDR
21	Olari - Elthuruth Road	Olari Ch.0/000	St. Allosious College Ch.1/800	1.800	MDR
22	Adat Road	Muthuvara Ch.0/000	Ambalamkavu, Chittilappally Ch.5/841	5.841	MDR
23	Amala - Choorakkattukara Road	Amala Ch.0/000	Choorakkatukara Ch.2/720	2.720	MDR
24	Attore Road	Thiroom Ch.0/000	Attore Ch.3/900	3.900	MDR
25	Avanur Road	Mulamkunnathukavu Ch.0/000	Mundur Ch.7/845	7.845	MDR
26	Kottekkad - Mundur road	Viyur Bridge Ch.0/000	Mundur Ch. 9/906	9.906	MDR
27	Kaiparambu - Parapur Road	Kaiparambu Ch.0/000	Parappur Ch.5/650	5.650	MDR
28	Avanur - Thangallur Road	Avanur Ch.0/000	Thangallur Ch.3/720	3.720	MDR
29	Chirakkekcode - Pullanikkad Road	Mudikode Ch.0/000	Vanaja Mill Ch.7/556	7.556	MDR
30	Kundukkad - Kattilapoovam - Pandiparambu Road	Kundukkad Ch.0/000	Pandiparambu Ch.7/365	7.365	MDR
31	Cheroor Road	Chembukkavu 0/100	Akasavani Ch.3/700	3.600	MDR

32	K.N.R. Road	Maryadamoola Ch.0/000	Therambam Ch.4/959	4.959	MDR
33	Thanikkudam Road	Viyyur Power House Ch.0/000	Karumthara Ch.15/671	15.671	MDR
34	Pallissery - Church Road	Oorakam Junction Ch.0/000	Arattupuzha Temple Ch.2/095	2.095	MDR
35	Palakkakadavu Road	Kandeswaram Ch.0/000	Palakadavu Bridge Ch.3/892	3.892	MDR
36	Poochunnipadam-Chathakudam road	Poochunnipadam Ch.0/000	Chathakudam Ch.2/370	2.370	MDR
37	Arattupuzha Temple road	Near Raja Company Ch.0/000	Arattupuzha temple Ch.7/780	7.780	MDR
38	Thevar road	Raja company Ch.0/000	Herbert Bridge of Cherpu - Thriprayar Road Ch.3/470	3.470	MDR
39	Amala Nagar - Pavaratty Road	Amala Junction Ch.0/000	Poovathur Ch.11/453	11.453	MDR
40	Thaikkattussery Road	Vallachira Shap Junction Ch.0/000	Thalore Ch.4/170	4.170	MDR
41	Cherussery - Thaikkattussery Road	Thaikkattussery Junction Ch.0/000	Ollur Railway Gate Ch.1/890	1.890	MDR
42	Mulangu road	Arattupuzha Bridge Ch.0/000	Mulangu Junction Ch.1/890	1.890	MDR
43	Cherpu - Triprayar Road	Perumbillissery Ch.0/000	Triprayar Ch.14/215	14.215	MDR
44	Karanchira - Bund Road	Pazhuvil Junction Ch.0/000	Karanchira Bridge ch.1/580	1.580	MDR
45	Jayanthi - Bund Road	Pazhuvil Kappela Junction Ch.0/000	Alappad Junction Ch.5/905	5.905	MDR
46	Vennakkal - Kuzhikkal Road	Triprayar Temple Kizhakkenada Junction Ch.0/000	Kuzhikkadu Ferry Ch.1/600	1.600	MDR
47	Anakkallu - Ammadam - Peringottukara Road	Anakkallu Junction Ch.0/000	Peringottukara Junction Ch.13/245	13.245	MDR
48	Alappadu - Pullu Road	Kundolikkadavu Ch.0/000	Pullu Ch.1/525	1.525	MDR
49	Chazhour - Kovilakam Road	Chazhour Junction Ch.0/000	A.A.P Road Thekke Alu Junction Ch.2/061	2.061	MDR
50	A.T.C. Road	A.A.P. Road Ch.0/000	Kanjani (Puthenpeedika junction) Ch.2/345	2.345	MDR
51	Koorkanchery - Chiyaram Road	Koorkanchery Ch.0/000	Chiyaram Ch.2/210	2.210	MDR
52	Pazhamukku Road	Ollur Town Road Church Junction Ch.0/000	Pazhamukku Ch.1/100	1.100	MDR
53	Ollur Town Road	Cheerachi Ch.0/000	Akkara Talkies Road in Thrissur - Thalore Road Ch.3/725	3.725	MDR

54	Chiyaram Convent Road	Ollur Town Road Church Junction Ch.0/000	F.C. Godown at Kuriachira Ch.2/415	2.415	MDR
55	Kodannur - Kundolikadavu Road	Kodannur Junction Ch.0/000	Venginissery Junction Ch.3/143	3.143	MDR
56	Kanimangalam - Nedupuzha Road	Valiyalukkal Ch.0/000	Nedupuzha Junction Ch.3/251	3.251	MDR
57	Thrissur - Mannamangalam Road	Chelakkottukara Ch.1/650	Mannamangalam Junction Ch.15/200	13.550	MDR
58	Cherpu - Perumbillissery Road	Cherpu School Ch.0/000	Ammadam Ch.3/309	3.309	MDR
59	Kakkathuruthy - Mathilakam	Kakkathuruthy Ch.0/000	Padiyoor Ch.3/870	3.870	MDR
60	Cheloor - Areepalam Road	Edakulam Bridges Ch.0/000	Areepalam Ch.4/945	4.945	MDR
61	Vellangallur - Mathilakam Road	Vellangallur Ch.0/00	Mathilakam - Pallivalavu ch.6/020	6.020	MDR
62	Azhikkode - Chamakala Road	Azhikkode Ch.0/000	Chamakkala Ch.20/026	20.026	MDR
63	Kodungallur - Eriyad Road	Chandapura, Kodungallur Ch.0/000	Eriyad Junction 4/426	4.426	MDR
64	S.N. Puram - P. Vemballur Road	S.N. Puram Ch.0/000	P. Vemballur Ch.4/150	4.150	MDR
65	Arakkulam - Azhikkode	Cheraman Mosque Ch.0/000	Puthenpally Ch. 4/426	4.426	MDR
66	Padakulam - Azhikkode Road	Padakulam	Pay Bazar Ch.4/426	4.426	MDR
67	Park Road	Sringapuram Junction Ch.0/000	TKS Puram Ch.1/462	1.462	MDR
68	Hospital Road	Govt. Hospital Ch.0/000	South side, Boys H.S. School Ch.1/685	1.685	MDR
69	Mathilakam - Koolimuttom Road	Mathilakam Centre Ch.0/000	Koolimuttom - Poclai Junction Ch.4/090.	4.090	MDR
70	V.K. Gopalan Road	Perinjanam Centre Ch.0/000	Arattukadavu, Perinjanam West Ch.3/277	3.277	MDR
71	Keetholy - Chalakulam Road	Anapuzha Junction Ch.0/000	Chalakulam Ch.1/814	1.814	MDR
72	Chettiparambu road	Poyya ch.0/000	Valiyaparambu Ch.8/150	8.150	MDR
73	Valiyaparambu - Kuzhur Road	Valiyaparambu Ch.0/000	Eravathur Temple Ch.5/500	5.500	MDR
74	Kuzhur - Kundur Road	Kuzhur Ch.0/000	Kundur Ch.3/800	3.800	MDR
75	Eravathur - Kochukadavu Road	Eravathur Ch.0/000	Kochukadavu Ch.2/475	2.475	MDR
76	Annamanada - Moozhikulam Road	Annamanada South Junction Ch.0/000	Poovathussery Jayanthi Junction Ch.4/400	4.400	MDR

77	Mala-Annamanada Road	Mala Ch.0/000	Annamanada North Jn. Ch.8/540	8.540	MDR
78	Ashtamichira - Annamanada Road	Ashtamichira (Vynthala Route) Ch.0/000	Annamanada North Junction Ch.7/580	7.580	MDR
79	Mala - Puthenchira Road	Mala Ch.0/000	Puthenchira (Manakodi Junction) Ch.4/310	4.310	MDR
80	Kombathukadavu Road	Kundai junction Ch.0/000	Kombathukadavu junction Ch.9/218	9.218	MDR
81	Andnikulam - Puthenchira Road	Andanikulam Ch.0/000	Mankidi Junction Ch.6/523	6.523	MDR
82	Kombodinjamakkal Road	Vellangallur Ch.0/000	Kombodinjamakkal Junction Ch.7/248.	7.248	MDR
83	Thumbur-Thommana-Puthenchira Road	Thommana Ch.0/000	Santhinagar, Puthenchira Ch.7/939	7.939	MDR
84	Avittathur Road	Pullur Ch.0/000	Kottanallur Ch.3/420	3.420	MDR
85	Ongichira Road	Avittathur Ch.0/000	Anakuthy Junction Ch.1/600	1.600	MDR
86	Kalletumkara Railway Station Road	Kacheripady junction Ch.0/000	Railyway Station, Kallettumkara Ch.3/230	3.230	MDR
87	Chalaky - Karor Road	Ambalanada at Railway Over Bridge, Chalaky	Kombodinjamakkal Junction Ch.5/600.	5.600	MDR
88	Kallur - Alathur - Kottamury Road	Kallur Km.0/000	Kottamuri Ch.4/937	4.937	MDR
89	Mala - Elanthikkara Road	Police Station, Mala Ch.0/000	Murathode Bridge, Madathumpady Ch.6/900	6.900	MDR
90	Ezhunnullathupatha Road	NH 47 at Potta Ashramam Ch.0/000	Anakuthy Junction Ch.9/090	9.090	MDR
91	Annallur - Karor - Kuhikkattussery Road	Annallur Ch.0/000	Kuzhikkattussery Ch.3/000	3.000	MDR
92	Chalaky - Mala Road	Chalaky North Junction Ch.0/000	Ashtamichira Ch.9/940	9.940	MDR
93	Kettuchira Branch Road	Valavanangadi 0/000	Kettuchira Bund Ch.0/720	0.720	MDR
94	Eriyad Fishing Centre Road	Eriyad North junction Ch.0/000	Sea Wall, Vakadapuram, Eriyad Ch.0/830	0.830	MDR
95	Vazhani Road	Ottupara Ch.0/00	Vazhani Dam Ch.7/920	7.920	MDR
96	Mullurkara - Varavoor Road	Mullurkara Ch.0/000	Varavoor Ch.6/900	6.900	MDR
97	Athani - Puthuruthy road	Athani Ch.0/000	Mangad Ch.8/442	8.442	MDR

98	Cheruthuruthy - Ponnani Road	Cheruthuruthy Chungam Ch.0/000	Arangottukara (Thrissur - Palakkad District Boundary) Ch.9/352	9.352	MDR
99	Pullanikad - Mangalam - Panangattukara Road	Pullanikkad Ch.0/000	Punnamparambu Ch.5/260	5.260	MDR
100	Nelluvai - Thichur - Ittonam Road	Nelluvai Ch.0/000	Ittonam centre Ch.5/879	5.879	MDR
101	Kondayur Road	Desamangalam - Chungam Ch.0/000	Kondayoor Temple Ch.5/000	5.000	MDR
102	Chittanda - Thalassery Road	Kundannur Centre Ch.0/000	Thalassery junction Ch.8/770	8.770	MDR
103	Kechery - Akkikavu Road	Kechery Ch.0/000	Akkikavu Ch.9/880	9.880	MDR
104	Pazhanji - Chalissery road	Pazhanji High School Ch.0/000	Chalissery (District Boundary) Ch.5/497	5.497	MDR
105	Pazhanji Road	Akkikavu Ch.0/000	Pazhanji Ch.5/202	5.202	MDR
106	Connecting Road of Thrissur - kuttippuram Road and Perumbilavu road	Perumbilavu Ch.0/000	Perumbilavu Ch.0/251	0.251	MDR
107	Kattakambal Road	Parempadam Ch.0/000	Kattakambal Kadavu Ch.7/528	7.528	MDR
108	Link Road connecting Pazhanji Road and Kattakambal Road	Pazhanji School Ch.0/000	Jerusalem Junction Ch.0/230	0.230	MDR
109	Pathramangalam Road	Pazhiyottumuri Ch.0/000	Thandalam Ch.5/350	5.350	MDR
110	Cheruvallikadavu Road	Chirakkal Ch.0/000	Cheruvallikadavu Bridge Ch.2/646	2.646	MDR
111	Cheruthuruthy - Killimangalam Road	Cheruthuruthy Ch.0/000	Uduvadi Centre Ch.9/137	9.137	MDR
112	Kondazhi - Mayannur Road	Kayampoovam Ch.0/000	Mayannur Ch.10/914	10.914	MDR
113	Chelakkara - Elanadu Road	Meppadam Ch.0/000	Elanadu Ch.11/594	11.594	MDR
114	Pazhayannur - Elanadu Road	Pazhayannur Temple Ch.0/000	Elanadu Ch.10/360	10.360	MDR
115	Maleswamangalam Road	Thiruvilwamala Ch.0/000	Maleswamangalam Ch.5/670	5.670	MDR
116	Lakkidi Road	Pazhayannur Ch.0/000	Choolanur Road Junction Ch.8/505	8.505	MDR
117	Pazhambalakode Road	Koottupatha Ch.0/000	Pazhambalakode Ch.3/106	3.106	MDR
118	Pampady Road	Pampady Ch.0/000	Thottumukku Ch.4/416	4.416	MDR
119	Chelakkara - Karukakadavu Road	Chelakkara Ch.0/000	Parakkad Junction Ch.3/729	3.729	MDR
120	Karukakadavu - Muthirod Road	Parakkad Ch.0/000	Muthirod Ch.3/542	3.542	MDR

121	Kechery - Mattom Road	Kechery Junction Ch.0/000	Mattom centre Ch.5/300	5.300	MDR
122	Kunnamkulam - Kizhur (Vettikadavu Road) - Chirakkal Road	Kunnamkulam Ch.0/000	Padinjare Mangadu Ch.9/050	9.050	MDR
123	Porathissery Road	Koothuparambu Ch.0/000	Mapranam Ch.3/220	3.220	MDR
124	Mapranam - Nandikkara Road	Mapranam Ch.0/000	Nandikkara Ch.8/449	8.449	MDR
125	Nedumpal - Pazhai Road	Nedumpal Junction Ch.0/000	Cheruval Ch.3/312	3.312	MDR
126	Karuvannur - Kattoor Road	Puthenthodu Ch.0/000	Kattoor Bazar Ch.11/750	11.750	MDR
127	Kizhuthani - Karalam Road	Kizhuthani Ch.0/000	Karalam Ch.4/565	4.565	MDR
128	Thanissery - Karanchira Road	Thanissery Ch.0/000	Karanchira Bridge Ch.6/000	6.000	MDR
129	Edathirinji - Kattoor Road	Chettiyal Ch.0/000	Kattoor River Ch.6/497	6.497	MDR
130	Chathan Master Road	NH-47 at Perambra Church Ch.0/000	Madayikonam Ch.11/521	11.521	MDR
131	Anandapuram - Nellai Road	Vallakunnu Ch.0/000	Nellai at (N.H.-47) Ch.8/611	8.611	MDR
132	Irinjalakuda - Kattoor Road	Irinjalakuda Bus Stand Ch.0/000	Parayankadavu Ch.7/712	7.712	MDR
133	Porathissery - Chemmanda - Karalam Road	Porathissery Ch.0/000	Karalam Ch.4/500	4.500	MDR
134	Amballur - Palappilly Road	Amballur Ch.0/000	Mysore Gate Ch.15/400	15.400	MDR
135	Palappilly - Echippara Road	Palappilly Junction Ch.0/000	Echippara junction Ch.8/604	8.604	MDR
136	Amballur - Kallai Road	Amballur Ch.0/000	Vellanikode Ch.3/600	10.100	MDR
137	Pudukad -Bazar Road	NH-47 at Pudukad Ch.0/000	NH-47 at Pudukad Ch.1/040	1.040	MDR
138	Pudukad - Cheruval Road	Pudukad Ch.0/000	Cheruval Ch.3/063	3.063	MDR
139	Pudukad - Mupliyam Road	Pudukad Ch.0/000	Mupliyam Ch.8/489	8.489	MDR
140	Kodakara - Vellikulangara Road	Kodakara Junction Ch.0/000	Vellikulangara Junction Ch.12/326	12.326	MDR
141	Thrikkur - Manaly Road	Thrikkur Ch.0/000	Manaly old NH Ch.3/020	3.020	MDR
142	Thrikkur - Kallur Road	Muttan's Corner at Trikkur Ch.0/000	Kallur at Palackaparambu Ch.3/100	3.100	MDR
143	Pudukad - Mannampetta	NH-47 at Pudukad Ch.0/000	Chungam at Vendoor Ch.2/273	2.273	MDR
144	Chengallur-Mattumala	Chengallur Ch.0/000	Kalakallu Ch.3/295.	3.295	MDR

145	Chengallur-Mannampetta-Mavinchodu	Chengallur - Santhi Nagar Ch.0/000	Mavinchodu Junction Ch.7/100	7.100	MDR
146	Chalakydy-Vellikulangara Road	Vallikulam at old NH Chalakydy Ch.0/000	Vellikulangara Ch.13/075	13.075	MDR
147	Marancode - Kuttichira Road	Marancode Ch.0/000	Kuttichira Ch.2/400	2.400	MDR
148	Kuttikad - Mothirakkanny Road	Poovathingal Ch.0/000	Mothirakkanny Ch.5/000	5.000	MDR
149	Potta - Kanjirappilly Road	Panampilly College Junction Ch.0/000	Elanjipra Ch.5/000	5.000	MDR
150	Mothirakkanny Panchayath Road	Velookkara Ch.0/000	Mothirakkanny Ch.4/150	4.150	MDR
151	Jeevandhara Hospital Road	Kuttikkad Ch.0/000	Jeevandhara Ch.2/000	2.000	MDR
152	Leprasyalam Road	Chirangara Ch.0/000	Leprasy Hospital Ch.2/000	2.000	MDR
153	Mambra - Koottalapadam Road	Old NH, Koratty Ch.0/000	Mambrakadavu Ch.4/950	4.950	MDR
154	Erayamkudy Road	Erayamkudy Ch.0/000	Palupuzha Ch.3/150	3.150	MDR
155	Valoor - Koratty Road	Vazhachal Ch.0/000	Valoor Ch.4/500	4.500	MDR
156	Koratty - Pulikkakadavu Road	Koratty Ch.0/000	Annamanada Ch.5/000	5.000	MDR
157	Muringoor - Kadukutty Road	Divine Junction NH47 Ch.0/000	Njaralakadavu Ch.5/900	5.900	MDR
158	Kakkad-Kathikudam Road	Kakkad Ch.0/000	Kadukutty Ch.5/400	5.400	MDR
159	J.T.S. Road	J.T.S. Junction NH Ch.0/000	J.T.S. Ch.1/000	1.000	MDR
160	Koratty - Nalukettu Road	Koratty Ch.0/000	Nalukettu Ch.6/600	6.600	MDR
161	Muringoor - Ezhattumugham Road	Muringoor Ch.0/000	Ezhattumugham Ch.17/205	17.205	MDR
162	Meloor-Pushpagiri-Adichilli Road	Meloor Ch.0/000	Adichilly Ch.5/600	5.600	MDR
163	Independent Road	Chalakydy South Jn. Ch.0/000	Chalakydy Railway Bridge Ch.1/000	1.000	MDR
164	Plywood Factory Road	Southern College Ch.0/000	Ambalanada Ch.1/825	1.825	MDR
165	Chalakydy Market Road	Chalakydy North Junction Ch.0/000	Police Station, Chalakydy Ch.0/872	0.872	MDR
166	Chalakydy Hospital Road	Chalakydy Police Station Ch.0/000	Vettukadavu Ch.1/215	1.215	MDR
167	Approach Road of T.B.	Tramway Junction Ch.0/000	Municipal Junction Ch.0/483	0.483	MDR
168	Thiruthiparambu Road	Kottattu Ch.0/000	Thiruthiparambu Ch.1/982	1.982	MDR

169	Muthuvattoor - Guruvayur	Km.1/750 of Chavakkad - Wadakkanchery State Highway at Muthuvattoor Ch.0/000	West Nada Guruvayur Ch.1/051	1.051	MDR
170	Guruvayur - Karakkad	Km.0/845 of Guruvayur - Althara - Ponnani State Highway at Karakkad Junction Ch.0/000	1/960 of Chavakkad Mullurkayal Road at Pancharamukku Junction Ch.1/050	1.050	MDR
171	Northern Link Road Guruvayur	Km.0/050 of Guruvayur-Choondal S.H. at Manjulal Junction. Ch.0/000	Km.1/835 of Guruvayur-Althara-ponnani road at Thahani Junction Ch.1/070.	1.070	MDR
172	Koonammoochi - Kadavallur Road	Km. 5/341 of Guruvayur-Choondal S.H. at Koonammuchi Junction Ch.0/000.	Km.1/280 of Cochin Frontier Road at Kadavallur Ch.4/445	4.445	MDR
173	Chavakkad - Bye pass Road	Km.0/360 of Chavakkad - Wadakkanchery Road Ch.0/000	NH-17 Ch.0/724	0.724	MDR
174	Anjoor Road	Km.8/200 of Chavakkad-Wadakkanchery Road at Girls High School Junction Ch.0/000	Km.7/010 of Guruvayur - Althara - Ponnani S.H. - Mukammoodimukku Ch.4/785.	4.785	MDR
175	Thampuranpadi -Mallad - Ovungalpally Road	Thampuranpadi Ch.0/000	Ovungalpally Ch.4/700	4.700	MDR
176	Kottapady - Thampuranpadi Road	Kottappady Junction at S.H. Chavakkad - Wadakkanchery Ch.0/000	Thampuranpady Ch.2/200	2.200	MDR
177	Edakkazhiyur-Veliyamkodu Road	Edakkazhiyoor Ch.0/000	Veliyamkode Ch.10/117	10.117	MDR
178	Kochannur-Mannalamkunnu road	0/800 of Vaduthala - Attupuram Road at Kochannur Ch.0/000	Kuzhingara Junction Ch.5/018	5.018	MDR
179	Vaduthala - Attupuram road	Km.11/695 of Guruvayur - Althara Ponnani S.H. at Vattappadam Ch.0/000	Km.3/450 of Kunnamkulam - Cheruvathani Road at Vaduthala Ch.05/210	5.210	MDR
180	Paluvai - Pavaratty Road	Mama Bazar Ch.0/000	Pavaratty Ch.2/830	2.830	MDR

181	Chittattukara - Kundukadavu Road	Km.3/260 of Thamarappilly - Chowallurpady road at Chittattukara Ch.0/000	Kudukadavu Bridge Ch.3/530	3.530	MDR
182	Mattom - Chelur - Peruvallur Road	Mattom Centre Ch.0/000	Peruvallur Ch.6/700	6.700	MDR
183	Thamarappilly - Chowallurpadi Road	Thamarappilly Ch.0/000	Chowallurpadi Ch.6/155	6.155	MDR
184	Chavakkad - Blangad - Chettuvai road	NH-17 at Mullathara Ch.0/000	N.H. - 17 at Munamkallu - Chettuvai Ch.8/315	8.315	MDR
185	Tripayar - Kanjani - Chavakkad Road	Peringottukara 3 way Junction Ch.0/000.	Chavakkad Ch.24/000	24.000	MDR
186	Kandassankadavu - Tripayar Road	Kandassankadavu Ch.0/000	Tripayar - Kizhakkenada Ch.7/660	7.660	MDR
187	Kothakulam Beach Road	Kothakulam NH-17 Ch.0/000	Kothakulam Beach Ch.2/347	2.347	MDR
188	Muttichurkadavu Road	Puthanpeedika Ch.0/000	Muttichurkadavu Ch.2/628	2.628	MDR
189	Muttichurkadavu Road	Valamukku Ch.0/000	Nayarangadi Ch.1/486	1.486	MDR
190	Valappad Beach Road	Valapad - Chanthapadi Ch.0/000	Valapad beach Ch.2/500	2.500	MDR
191	Kuzhikkal Ferry Road	Valapad - Kurisupally Ch.0/000	Kuzhikkal Ferry Ch.1/055	1.055	MDR
192	Chemmapilly Ferry Road	Peringottukara 4 way Junction Ch.0/000.	Chemmapilly Ferry Ch.2/083	2.083	MDR
193	Kaipamangalam - Pulinchodu Road	Kakkathuruthy Pally Valavu Ch.0/000	Edamuttam - Pulinchodu Ch.6/824	6.824	MDR
194	Edamuttam - Edathiruthy Road	Edamuttam Ch.0/000	Edathiruthy Bridge Ch.3/673	3.673	MDR
195	Kandassankadavu - Mampilly Road	Kandassankadavu Road Ch.0/000	Mampilly - Canoli Canal Ch.2/650	2.650	MDR
196	Karamuck - Palazhy Road	Karamuck - Vilakkumkal Ch.0/000	Palazhy Kadavu Ch.3/897	3.897	MDR
197	Karamuck - Enamavu Road	Kanjany 3 way Junction Ch.0/000	Enamavu Bund Companyadi Ch.3/740	3.740	MDR
198	Anchamkallu - Mullassery Road	NH-17 at Anchamkallu Ch.0/000	Mullassery Ch.4/378	4.378	MDR
199	East Tippu Sulthan Road	Edamuttam - Pulinchodu Ch.0/000	NH-17 at M.E.S Centre Ch.19/180	19.180	MDR

200	Indira Gandhi Road	Canal Junction - Annamanada Ch.0/000	Ambalanada - Poovathussery Ch.2/780	2.780	MDR
Total				1058.969	
M.D.R. as per G.O.(MS) NO.52/2009/PWD. dt 14.8.2009					
1	Alamattam - Kundoor Kochukadavu Road	Alamattam	Kochukadavu	6.000	MDR
2	AEO office - Nakkola - Andathodu Road	AEO Office	Andathodu	2.500	MDR
3	Akkikavu Kadangode Road	Akkikkavu	Erumapetty	9.000	MDR
4	Ala - Gothuruthu Road	Ala	Gothuruth	4.000	MDR
5	Ambazhakkad - Chakkamparambu - Challipady Road	Ambazhakkad	Challipady	2.850	MDR
6	Anakkallu - Changalagate - Boat Jetty Road	Cherusserikkavu temple Junction	Shappu Junction in Edakkunni Road	3.100	MDR
7	Anjoor - Pilakkad - Kottappadi Road	Km.3/800 of Kottappady - Thampurampady Road	Anjoor Centre	3.000	MDR
8	Arangottukara - Thali - Thichoor Road	Arangottukara	Ittonam Centre	6.200	MDR
9	Aswini Junction to Peringavu Junction (Kovilakathumpadam Road)	Aswini Junction at Thrissur - Kuttippuram S.H.	Peringavu junction in Thrissur - Shornur S.H.	0.980	MDR
10	Ayyanthole Road - West Fort to Chungam (Model Road)	West Fort junction	Chungam Junction of PWD. Road	0.600	MDR
11	Chalaky - Pariyaram Road	Km.2/500 of Chalaky - Anamala Road (Pipe Company Stop)	Pariyaram Church Road	2.000	MDR
12	Chazhoor - Thiruthekkadu - Karanchira Road	Chazhoor Junction in C.T. Road	Kizhpillikkara Junction	3.000	MDR
13	Chembukkavu - Museum - Bishop Palace - East Fort - Jubilee Hospital - Chelakkottukara Road	Chembukavu Junction	Chelakkottukara	3.900	MDR
14	Cheroor Junction to Engineering College Road	Km.1/000 of Thrissur - Kuttippuram PWD. Road (Bala Bhavan Junction)	Km.0/000 of Cheroor PWD. Road	0.100	MDR
15	Cherpu - Chitturmana Road	Thayamkulangara Junction in C.T. Road	Cherpu Padinjattumuri	1.680	MDR
16	Cheruvathani Road	Vaissery	Cheruvallikadavu	3.460	MDR
17	Choondal - Aloor - Guruvayur Road	Choondal	Aloor	4.000	MDR

18	Choondal - Pazhunnana - Marathamcode Road	Choondal	Marathamcode	5.300	MDR
19	Desamangalam - Varavattur Road	Desamangalam	Varavattur	2.760	MDR
20	East Panjappilly - Parekkattukara Road	Kallettumkara Church	Parekkattukara	2.220	MDR
21	Hynarky Memorial Road	Leprasyalayam road	Koratty - Nalukettu Road	2.000	MDR
22	Kacheripady - Mallad - Alappalam Road	Kacheripady	Alappalam	1.950	MDR
23	Kallettumkara - Parekkattukara Road	Kallettumkara Junction	Parekkattukara	2.550	MDR
24	Kalluthi - Kalavarakkadavu Road	Muringoor - Ezhattumugham Road	Kalavarakkadavu	4.000	MDR
25	Kanippayyur - Iringapuram Road	Kanippayyur	Iringapuram	2.850	MDR
26	Kaveedu - Muthuvattur Road	Kaveedu Church	Raja Hall	2.500	MDR
27	Koonammoochi - Inchakunnu - Arthat Road	Koonammoochi	Anayikkal	2.650	MDR
28	Koratty - Kulayidam - Devamatha - West Koratty Road.	Old NH Koratty	Koratty West	2.750	MDR
29	Koratty - Parakkoottam Road	Koratty - Nalukettu Road	Meloor Junction	1.500	MDR
30	Kuthampully Road	Thiruvillwamala	Kuthampully	4.520	MDR
31	Kuttikad - Mothirakanny Road	Poovathingal Junction	Mothirakanny	5.000	MDR
32	Mambra - Theeradesa Road	Kakkad - Kathikudam Road	Mambra - Koottalappadam Road.	4.100	MDR
33	Mar Aprem Church Junction to Nellikkunnu (Veembu Road) Old Municipal Limit	Mar Aprem Church Junction	Starting point of Nellikkunnu PWD. Road	0.450	MDR
34	Meloor - Nalukettu Road	Melloor Pallinada Junction	Koratty - Nalukettu Road	4.000	MDR
35	Mothirakkanni - Kuttichira Road	Mothirakkanny	Kuttichira Junction	2.000	MDR
36	Muringoor - Palamuri - Meloor Pallinada road	NH 47 at Muringoor	Meloor Pallinada Junction	5.000	MDR
37	Muriyad - Parekkattukara - Kappela - Karoor - Kodakara Road	Poorasserikavu Temple	Koprakalam at Kodakara -Kodungallur Road	4.550	MDR
38	Muttichurkadavu - Thalikulam Centre Road	Muttichurkadavu Bridge	Thalikulam	1.000	MDR
39	Nayarangadi - chakkithara - Kochannur Road	Nayarangadi	Kochannur	3.350	MDR
40	Nedumpara - Pallam Panniyadi Road	Cheruthuruthy High School	Pallam Centre	7.400	MDR

41	Njaralakkadavu - Chembaloor - Palayamparambu Road	Njaralakkadavu	Palayamparambu Junction	1.650	MDR
42	Palakkal - Viyyattupadam - Kodannur road	Karuvanmoola in A.A.P. Road	Thanikkamunayam in Kodannur - Nedupuzha Road	3.510	MDR
43	Parlikkadu - Kumblangadu Road	Parlikadu Gate	Kumblangad Junction	4.900	MDR
44	Paliyekkara - Eravakkad Road	Paliyekkara	Eravakkad	2.660	MDR
45	Panangadu H.S. - Ullasabalavu Road	Panangadu H.S.	Ullasabalavu	1.400	MDR
46	Panjal - manaladi - Vettikkattiri Road	Vettikkattiri	Manaladi	3.650	MDR
47	Pazhanji - Kadavallur Road	Pazhanji	Old Kadavallur Road	2.720	MDR
48	Peringottukara Mosque - Post Office - Valammukku Road	Peringottukara Mosque	Valammukku Junction	3.500	MDR
49	Perumbi - Konoor Road	Perumbi Kappela Junction	Konoor Junction	2.000	MDR
50	Ponur - Edakkalathoor - Aloor Road	Ponur	Aloor	4.000	MDR
51	Poovathussery - Kuzhoorchira - Nadavarambu Road	Poovathussery Temple	Eravathur	2.500	MDR
52	Poyya - Manalikkadavu- Poyyakkandan Road	Poyya	Manalikkadu Bridge	2.600	MDR
53	Pullani - Pushpagiri Road	Pullani Junction	Pushpagiri	2.000	MDR
54	Puthanpalli - Munakkal Beach Road	Puthanpalli	Munakkal Beach	2.000	MDR
55	Putharithara - Kondazhi Road	Pazhayannur	Kondazhi	3.670	MDR
56	Seminari - Parambai Road	Thiroom Junction	Parambai Junction	3.200	MDR
57	Sringapuram - Undekadavu Road	Sringapuram	Undekadavu Bridge	3.000	MDR
58	T.B. Road (Wadakkanchery)	Ottupara	Old T.B. Wadakkanchery	0.320	MDR
59	Thottaveedhi - Standard Furniture Road	Plywood Factory	Parayanthodu	3.891	MDR
60	Thrissur - Kanjani Road	West Fort junction	Chungam Junction of Kanjani - Vatanappilly S.H.	0.600	MDR
61	Valakkavu - Thonippara - Ambilikunnu - Nalukettu Road	Valakkavu Junction	Nalukettu	6.000	MDR
62	Varandarappalli - Nandipulam Road	Varandarappalli	Nandipulam	2.800	MDR
63	Varavoor - Pilakkad Road	Palakkal Junction	Thali (Manappadi)	4.370	MDR
64	Velur - Chungam-Thayoor - Kottappuram - Kumblangadu Road	Velur Chungam	Kumblangad Junction	9.200	MDR

65	West Tippu Sulthan Road	Chamakkala Centre	Thalikulam Beach	10.700	MDR
66	West Tippusulthan Road Vatanappilly to Chettuva	Thalikulam	Chettuva	6.000	MDR
67	Ambazhakkad - Kottamuri Road	Ambazhakkad Junction	Kottamuri Junction	2.500	MDR
68	Palayamparambu - Kuruthipala Road	Palayamparambu	Kurithipala	2.000	MDR
69	Thrissur Medical College - Athani Road	Athani	Mundathikode	4.500	MDR
TOTAL :				232.611	
G.O.(MS)No.05/2012/PWD dated 07.01.2012.					
1	Adat Chittilappilly Road			1.326	
2	Althara – Panathara road			2.140	
3	Ambazhakkad – Kottavathil Vadama road			4.500	
4	Ammadam – Mulloorkara – Chenam road			3.000	
5	Anjoor – Juthankulam road			1.210	
6	Areepalam – Panakkachira road			1.060	
7	Areepalam – Vallivattam road			2.650	
8	Astamachira – Marekkad – Kunnathei road			3.800	
9	Avannur – Varadium road			3.730	
10	Ayyal – Adhoor Pathramangalam road			3.900	
11	Baby Beach road			5.980	
12	Blangad – Munnakkadavyu road			3.900	
13	Canning industries road			0.950	
14	Chattukulam – Thycaud road			3.500	
15	Chavakkad – Mullurkayal road (18500 Balance portion)			11.500	
16	Chelloor vaka road			2.410	
17	Chenam road (Chenam – Mullarkkara road)			2.500	
18	East Onjapalli – Parekkattukara Sahrada ya Engineerin college – Kodakara Koprakkalam road			5.000	
19	East Tippu Sulthan road			4.945	
20	Edakkazhiyoor – Aiyoor road			6.000	
21	J.T.S road			0.980	
22	Kadavalloor road to boundary			9.700	

23	Kaippamangalam – Vazhayambalam – Airoor Compony – Kadavu Beach road		4.500	
24	Kallur road		3.600	
25	Kanipayur – Iringapuram road		2.850	
26	Karingachira – Vellur – Narayamangalam road		4.000	
27	Karuakaran – Nambiar road thrissooor		0.950	
28	Karuvanthala – Ediyanchira – Kavala – Angadithazham road		4.000	
29	Kavanad road		2.000	
30	Keechery – Velloor road		12.840	
31	Kodannur – Nedupuzha West fort road		7.400	
32	Konathukunnu – Poovathumkadavu road		4.030	
33	Koncheri – Parambayi road		5.000	
34	Kothaparamba – Kara road		4.200	
35	Kottappady – Anjoor road		2.540	
36	Kottappuram – Kotta road		0.580	
37	Kumbalangad road		3.230	
38	Kurumali – Thottippal Mulungu road		5.730	
39	Kuttoor – Govt. Hospital road		1.780	
40	Kuttumukku road		3.230	
41	Kuttur – Chamakkad road		1.810	
42	Kuttur – Poonkunnam – Medical College road		9.700	
43	Mala – Chukam – Kombathukadavu road		3.850	
44	Mala – Pallippuram – Plavummuri – Kottamuri road		2.500	
45	Mallad – Thekkiniyadathupadi road		6.130	
46	Manalur- Palazhi road		2.540	
47	Maniyamkavu – Konathukunnu road		5.000	
48	Mathilakam – Kakkathiruthi road		3.800	
49	Mavinchodu – Thiruvenkidam – Kottappadi road		2.500	
50	Moolayam Water tank Koottala road		3.000	
51	Moonnamkallu – Kannikuthi road		7.000	

52	Muthuvattoor- Palayur road		1.320	
53	Nadathara – Eravimangala – Padinjattumoozhi – Puthur Kaladi road		7.000	
54	Nambikkadavu road		2.518	
55	Nasathara – Vimpin – Bhagavathy road – Eravimangalam Padinjattumoozhi road		7.000	
56	Nattika Beach post office to thalikkulam Nambikkadavu road (West Tippu Sulthan road)		4.500	
57	Nellikunnu road		0.920	
58	North Angadikadavu road		0.942	
59	Olari – Pulla road		1.500	
60	Ottapilavu – Kothachira road		3.000	
61	Palakkal – Palissery – Parakovil – Avinissery ring road		2.700	
62	Palappetty beach road		2.230	
63	Pambur – Padinjattinmuri road		3.500	
64	Panchikkachira road		3.450	
65	Pathamkallu – Mangalam – Kallampara – Thachankuzhi road		4.000	
66	Pathramangalam road		5.300	
67	Patturakkal junction to North Old Municipal boundary road		0.300	
68	Pavaratty – Cochin frontier road		1.280	
69	Pavaratty – Enamakkal road		7.700	
70	Peringavu road		0.880	
71	Peringottukara – Bpdananda Vayanasala road		2.100	
72	Peringottukara – Kizhupilliathaara – Karanchira – Azhimay road		5.000	
73	Ponnukara Chembamkandam road		4.950	
74	Poochatti – Eravimangalam – Puthur – Puzhambalam – Bethasda – Marathakara Junction road		4.000	
75	Porathisseri – Chemmunda – Karalam road		4.402	

76	Post Office – Valamukku road		7.000	
77	Pulinchide – Chelude road		3.650	
78	Pulloottu Puthenchira road		3.800	
79	Pullumanakkodi road		3.500	
80	Pullur Urakam road		3.340	
81	Punnayoorkulam – Chengaramkulam (Inter District)		8.140	
82	Puthoor Mannamangalam road		11.000	
83	S.N Puram Poovathumkadavu road		0.470	
84	Sasthamkadavu – Kodannur – Chakyar kadavu road		5.000	
85	Scot road		0.500	
86	Seminari – Parambayi road		4.100	
87	South West Boys High School road		0.840	
88	Thalikulam – Nambikkadavu – Vadanappalli beach road		6.500	
89	Thathamath road		2.400	
90	Thekkiniyedathpadi – Puzhukkala road		3.000	
91	Ullusserupaili – Vaduthala Govt. U.P School road		1.000	
92	Unginchodu – Vallachira – Kadalassery road		5.400	
93	Urakam Police Station road		1.000	
94	Vadakkenada		3.000	
95	Valakkavu – Thalikundu – Asarikkadu road		6.000	
96	Vattampadam – Erachikada – Erukulam road in Kunnamkulam Municipality		2.000	
97	Vellanikkode – Kallayi – Bepore – Varantharapalli road		7.050	
98	Veloor – Post Office Thayyoor – Erumappetti road		5.000	
99	Vendoor – Vattanathara – Pookkode Varakkara palli road		7.000	
100	Vlangad – Maad – Karukamad road		4.000	
			390.153	

LIST OF ROADS IN P.W.D. ROADS DIVISION, THRISSUR

ABSTRACT			
A	State High ways	374.033	
B	MDR (Old Road)	1058.969	
C	MDR (New Road As per G.O No.52/09/PWD/TVM. dt.14.08.2009	232.611	
D	MDR (New Road As per G.O No.05/12/PWD/TVM. dt.07.01.2012	390.153	
	TOTAL	2055.766	

Railways

The major railway stations in Thrissur District are Thrissur, Guruvayur, Wadakkanchery, Irinjalakuda and Chalakkudy where the express trains stop. Apart from these, there are 8 minor stations. They are Vallathol Nagar, Mulamgunnathukavu, Poonkunnam, Ollur, Pudukkad, Nellore, Muringoor and Koratty where the passenger trains stop. The Thrissur railway station lies in the heart of the City and is busiest railway station in Southern India handling over 20,000 passengers daily.

Airport

There are no airports in Thrissur City and the nearest airport is Cochin International Airport at Nedumbassery which is located 50 kms. Direct domestic flights are available to major Indian cities like Chennai, New Delhi, Mumbai, Bangalore and Kolkatta. International flights to Middle East cities and to Southeast Asian cities Singapore and Kuala Lumpur are available here. It has a dedicated heli-taxi service and chartered flights. Calicut International Airport at Karipur in the Malappuram district, which is 80 km from City and Coimbatore Airport, which is 114 kilometers from the city also can be used by passengers. There are two functional helipads in Thrissur City, one at Kuttanellur and another one at Lulu International Convention centre.

VI.

d)Waterways

The District coastal line of 54 Kms is extending from Azhikode to Puthenkadappuram which is about 9.2% of the total coastal area of the state.

Inland water transport has also its role for the development of the district backwater in the coastal areas. Canoli Canal, Shanmugan Canal, Puthenthode and Herbert canals are

the important navigation canals. Agri and Industrial products including fish, coir etc find their way to the markets through these waterways.

II. Communication

The District possesses a good network of post offices, Telephone Exchanges compared to the other Districts. There are 3 head post offices in Thrissur Division. Similarly, 63 sub post offices and 17 EDSO in Irinjalakuda division. There are 83 Telephone exchanges in the district and all part fall under a system of direct dialing. A number of STD, ISD booths have been sanctioned which are lying spread all over the District. All India Radio has its station in Thrissur. Dooradarsan studio is functioning at Ramavarmapuram, Thrissur. The Malayalam Newspapers Mathrubhumi, Malayala Maorama, Desabhimani and Deepika are being published from Thrissur. Some evening dailies are also being published from Thrissur Town.

III. Electric power:

Non conventional Energy:

Consumption pattern (solar energy)

Category	Capacity
Domestic	2313 KW
Commercial	220KW
Agriculture	0
Industry	0

(Dist wise from ANERT)

Conventional Energy: Thrissur Circle

Consumption pattern (Conventional)

Category	No of connections	Percentage to total
Domestic	48562	
Commercial	110847	
Agriculture	63654	
Industry	12006	
Others	2700	

(Circle wise from KSEB)

Power transmission network:

Description	Nos	Reserve Power Available in MW/MVA
400 Kv Sub-station		
220 kv “		
110 kv “		
66 kv “		
33 kv “		

(Dist wise from KSEB)

Distribution (as on 31.3.2017)

Sl No	Particulars	KSEB	Others
1	Number of distribution transformer	4975	
2	Number of consumers		
3	Length of HT line (km)	3085.57	
4	Length of LT line (km)	13046.53	
5	Number of street lights	7717	

(Dist wise from KSEB)

Conventional Energy: Irinjalakuda Circle

Consumption pattern (Conventional)

Category	No of connections	Percentage to total
Domestic	398407	70.37
Commercial	53448	7.02
Agriculture	77358	3.92
Industry	14990	7.44
Others	38264	11.23

(Circle wise from KSEB)

Power transmission network:

Description	Nos	Reserve Power Available in MW/MVA
400 Kv Sub-station		
220 kv “		
110 kv “		
66 kv “		
33 kv “		

(Dist wise from KSEB)

Distribution (as on 31.3.2017)

Sl No	Particulars	KSEB	Others
1	Number of distribution transformer	3805	
2	Number of consumers	566779	
3	Length of HT line (km)	2492.04	
4	Length of LT line (km)	11457.67	
5	Number of street lights	1884	

(Dist wise from KSEB)

Conventional Energy: Thrissur Corporation**Consumption pattern (Conventional)**

Category	No of connections	Percentage to total
Domestic	20922	54.17
Commercial	16972	43.95
Agriculture	200	0.52
Industry	526	1.36
Others	0	0

Power transmission network:

Description	Nos	Reserve Power Available in MW/MVA
400 Kv Sub-station		
220 kv “		
110 kv “	1	41 MVA
66 kv “	1	30 MVA
33 kv “	1	10 MVA

Distribution (as on 31.3.2017)

Sl No	Particulars	KSEB	Others
1	Number of distribution transformer		472
2	Number of consumers		38620
3	Length of HT line (km)		88.12
4	Length of LT line (km)		2648
5	Number of street lights		6388

v) Banking

Lead Bank of District is...Canara Bank.....

Nationalized Banks at Block/Taluk / District level

Sl No	Name of Bank	Urban	Rural	Total
1	Allahabad Bank	1		1
2	Andhra Bank	2		2
3	Bank of Baroda	13	2	15
4	Bank of India	8	4	12
5	Bank of Maharashtra	1		1
6	Canara Bank	41	8	49
7	Central Bank of India	7	3	10
8	Corporation Bank	8		8
9	Dena Bank	2		2
10	IDBI	4		4
11	Indian Bank	11		11
12	Indian Overseas Bank	12	2	14
13	Oriental Bank of Commerce	2		2

14	Punjab National Bank	18	1	19
15	State Bank of India	111	17	128
16	United Bank of India	1		1
17	Syndicate Bank	13	2	15
18	UCO Bank	3		3
19	Union Bank of India	11	4	15
20	Vijaya Bank	7	1	8
	Total	276	44	320
	RRB-Kerala Gramin Bank	31	12	43
	Total	307	56	363

Private Sector Banks

Sl No	Name of Bank	Urban	Rural	Total
1	AXIS Bank	9		9
2	Catholic Syrian Bank	57	43	100
3	City Union Bank	3		3
4	Dhanalakshmi Bank	20	12	32
5	Federal Bank	52	11	63
6	HDFC	30		30
7	KarurVysya Bank	2		2
8	Lakshmi Vilas Bank	3		3
9	South Indian Bank	76	19	95
10	ING Vysya Bank			
11	Indus Ind Bank	2		2
12	ICICI	13	1	14
13	Kotak Mahindra	2		2
14	Yes Bank	1		1
	Total	274	86	360

Co-operative Sector Banks

Sl.No.	Bank	No. of Branches
1.	State Co-operative Bank	0
2.	District Co-operative Bank	56
3.	Service Co-operative Bank	157
	Total	213
	Grand Total	936

District level Banking Statistics(Rs. in Crores)(From Dist wise Credit Plan)(Including Coop Societies)

SL No	Description	March 2015	March 2016	March 2017
1	No. of branches	907	933	962
2	Deposits	47625	54205	66278
3	Advances	32541	33451	40385
4	P.S. Advances	13865	15065	22807
5	C.D. Ratio	68	62	61

Credit flow to MSME & Rural Industries Sector(Rs in Crores)(From Dist wise Credit Plan)(Disbursement)

Schemes	2014-15	2015-16	2016-17
Handloom and Power loom			
Tiny Industries			
Village Industries			
Rural Artisans			
SSI			
Miscellaneous			
Total	2619	3012	2627

4. Industrial scenario

Industry at a Glance

SL.NO	HEAD	PARTICULARS
1.	NO OF EXISTING INDUSTRIAL UNITS	13720
2.	TOTAL INVESTMENT(In Lakhs)	127009
3.	TOTAL EMPLOYMENT(No.s)	81434
4.	EMPLOYMENT IN LARGE AND MEDIUM INDUSTRIES(Nos.)	5417
5	NO. OF INDUSTRIAL AREA(DA/DP)	6
6	NO.OF MINI INDUSTRIAL AREA	11

a) Category wise MSMEs

	Micro	Small	Medium	Total
Number	13023	667	30	13720
Investment (in lakhs):	72104	36303	18602	127009
Employment	68993	11878	563	81434

b) DETAILS OF EXISTING MICRO & SMALL ENTERPRISES AND ARTISAN UNITS IN THE BLOCK/ DISTRICT (As on 31.03.2017)

Sl. No.	TYPE OF INDUSTRY	NUMBER OF UNITS	INVESTMENT (Lakh Rs.)	EMPLOYMENT
1	Agro & Food based	2248	16458	13883
2	Soda water/Packaged drinking water	35	268	84
3	Cotton textile	19	29	228
4	Ready-made garments & embroidery	1255	5955	7168
5	Wood/wooden based furniture	988	8579	6384
6	Paper & Paper products	770	7677	4921
7	Leather based	29	257	212
8	Chemical/Chemical based	201	2146	909
9	Rubber, Plastic & petrol based	668	15930	4140
10	Mineral based	2	28	16
11	Metal based (Steel Fab.)	242	2791	1108
12	Engineering units	1527	11402	8617
13	Electrical machinery and transport equipment	501	1977	3824
14	Repairing & servicing	1265	7788	6744
15	Gem designing	461	6712	3100
16	Artisan Units	195	1196	971
17	Others	3314	37816	19125
	Total	13720	127009	81434

c) Yearwise growth of MSMEs (last5 years)

No of units		2012-13	2013-14	2014-15	2015-16	2016-17
Micro	Manufacturing	1266	1349	1318	1212	1426
	Service	248	359	423	451	523
Small	Manufacturing	51	81	4	121	189
	Service	7	20	28	89	110
Medium	Manufacturing	0	0	0	3	9
	Service	2	2	0	2	5

(2015-16,the data from part II and UAM and 2016-17 from UAM and Unit started)

d) Sectorwise growth of MSMEs (last 5years)

(Sectors as mentioned in Performa- II of progress report including handicraft units)

e) Employment growth of MSMEs (last 5 years)

Employment		2012-13	2013-14	2014-15	2015-16	2016-17
Micro	Manufacturing	6795	6795	6478	6132	6935
	Service	1042	1488	1451	1595	2369
Small	Manufacturing	896	924	1249	1573	3527
	Service	132	424	686	1015	1198
Medium	Manufacturing	0	0	0	23	274
	Service	33	94	0	22	35

II. List of PSUs/ Large Industries working in the District.

Name and address of the entrepreneur with phone no and email id	Name and address of of the unit	Products manufactur ed/services rendered	Investment (in Rs lakhs)	Employment	Export details	TIN number
	KCPL (Nita Jelatin India Ltd.), Karukutty, Thrissur	Jelatin	2000	430		
	Kerala Solvent Extraction LTD., Irinjalakuda & Koratty	Cattle feed, Solvent Extract & Diary Products	2075	435		
General Manager	Thrissur Cooperative Spinning Mill, Wadakkanchery	Polyster Cotton Yarn	1290	265		
	Kerala Feeds, Kallettumkara	Cattle Feeds	2500	238		
Kerala Lakshmi Mills, klm-ntc@ymail.com,0487-2360334	Kerala Lakshmi Mills, Pullazhy	Yarn	2022	150		
	Alagappa Textiles, Alagappa Nagar, Thrissur	Textiles	2017	602		
M.K.SASIKUMAR, Managing Director	Steel & Industies Forgings (SIFL), Athani, Thrissur	Manufactur e of forgings	3914.17	251	Indus Marketing USA	32080212652
	Appolo Tyres, Perambra, Thrissur	Tyres	2320	2100		
	Carborandum Universal, Koratty, Thrissur	Tools	1800	43		
	The Pharmaceutical Corporation of Kerala (OUSHADHI), Kuttanellur, Thrissur	Ayurvedic Medicines				
Sitaram Textiles LTD, sitaramtextiles@ymail.com	Sitaram Textiles LTD. Thrissur	Textiles	1600	200		3208025414
A.ABID, Managing Director	Steel Industries Kerala LTD., Athani, Thrissur	Fabricated hospital furnitutre, casting steel.fibre boats	1100	140	No	

II. List of Major Industries (working) in the District.

Name and address of the entrepreneur with phone no and email id	Name and address of the unit	Products manufactur ed/services rendered	Investment (in Rs lakhs)	Employment	Export details	TIN number
Naduthattil Sureshbabu sureshbabu999@gmail.com	Southern Pet Plast India Pvt Ltd, Kurumal Velur Ph: 04885287271	House hold Plastic goods	597 Lakhs	20		
Bijoy Devassy Managing Director 9447164655	M/s Winplast Polymer Products Pvt Ltd Aattur	Plastic woven sacks	600 Lakhs			
P.K. MOHAMMED BASHEER, MANAGING DIRECT AREEKARA HOUSE, ELITE GARDENIA, PUZHAKKAL. P.O, THRISSUR-680553 04872309571 , 9746767777	N P M AQUATIC FISH LINKS PVT LTD.	Fish Meal and Fish Oil	125	21	800	
LALU.K.S Kandengath House,Mulassery po.Thrissur Dt.Pin.680509 04872260760 , 9447143800	Shine Flexible Print & Packs private Limited	Printed & laminated Pouches	150	14	500	
K.R.Viswanatha n Mg.Partner Chelakkara Granite Quarry Killimangalam.p.o Chelakkara Mob:9447293773	Chelakkara Granite Quarry Killimangalam.p.o, Email: chelakkara granite@gamil.com	Granite Aggregate	2000	36		
Jacob Mathew	Mangalath	Granites	320	15		

Managing Director Magalath Granites Kerala Pvt.Ltd, Chelakkara Mob:9447588416	Granites Kerala Pvt.Ltd., Chelakkara Email:mangalathgranites@gmail.co,	Aggregate				
Murali Mohan Krishnakrupa arcade,Opp.LFHSS Grmam Road Chelakkara Mob:9447152333	Superplast Poly Products Natyanchira Chelakkara.p.o	PVC flexible hose	115	15		
C.R.Narayanan Padinjaremadam Temple Road Gramam ChelakkaraMob:94 46278894	Narsus Food Products Gramam Chelakkara Email:narsuspickles@gmail.com	Pickles	12	12		
V.Govindankutty Managing Director Divya Metal Industries Natyanchira Chelakkara Mob:9895070765	Divya Metal Industries Natyanchira, Chelakkara	Granite Aggregate	301	26		
V.Govindankutty Managing Director Divya Metal Industries Natyanchira,	Divya Hot Mix Plant Natyanchira Chelakkara	Aggrregate Hot Mix	125	05		

Chelakkara.p.o Mob:9895070765						
M.Nandakumar Mangalath House Elavally,Trisoor Mob:8086936079	Sree Madhava Polymers Thozhupadam Road Chelakkara	Pet bottle	10	06		
Madhavan Managing Director Nila Metals Pvt.Ltd, Vellappara,Pazhayanoor,Mob:9447053547 K.Geethanandan Ultrafil Industries Kollaikkalpadi Pampady.p.o Thiruvilwamala Mob:9444125627	Nila Metals Pvt.Ltd,Vellappara,Pazhayanoor Email:thenilasand@gmail.com Ultrafil Industries Kollaikkalpadi Pampady.p.o Thiruvilwamala Email:ultrafilindustries@gmail.com	Granite Aggregate Soda	83 50	16 6		
Jaseer.K.K Kottampathur House Pallam.p.o Thiruvilwamala Mob:9539600528	Mr.Cool Enterprises Chathanattupadi Painkulam Mr.coolenterprises@gmail.com	Soda and Soft drinks	16	4		
Saju.M.K Managing Director Devika Latex	Devika Latex Pvt.Ltd Appekkaadu	Centrifuge d latex	115	10		

Theruvath house Thiruvilwamala.p.o Mob:9961021755	Kaniyarkode.p.o					
Aji Augin Cheruvathode Manoothy.p.o Trisoor Mob:9446724551	Power Green SIDCO Indl park Pazhayanoor	Earthing compound	43	9		
K.V.Mohan Menon Managing Director SDF Industries Pampady.p.oThiru vilwamala Tel.04884282703 Mob.9605000729	SDF Industries Ltd.,Pampady.p.o Thiruvilwamala Email:sdffactory@gma il.com	Beverages	253	25		
Sabith.B Puthenveedu, Male samangalam.p.o, T hiruvilwamala Mob.9809072072	Hanna Poly Product Naduvathappara Malesamangalam.p.o, Thiruvilwamala	Plastic Can	85	5		
Mathew Abraham Managing Director Southern Rock & Aggregate Mining Company Pallam.p.o, Thiruvilwamala Mob.9995407570	Southern Rock & Aggregate Mining Company Pallam.p.o, Tvmla Tel:04884261563 Email:southernrocks99 9@gmail.com	Granite Aggregate	200			
Aboobecker.H Muttiyammoochik kal	Nila Spices Puthussery Road	Food products (Rice	52	12		

House,Mullurkkara .p.o4884263655 Mob:9946457614	Cheruthuruthy Email:nilaspices@gmail.com	powder,Cu rry powder ect)				
Murali Mohan Aiswarya Convent Gramam Road Chelakkara Mob:08884254	Selfshine Polymers India Pvt.Ltd,Kuttukulam,Thi ruvilwamala,94471523 33 selfshinemurally@gmail.com	PVC Pipe	52	12		
K.S.Kalandhar Kulambilpadinjarethil Cheruthuruthy.p.o 04884263655 Mob.94475263655	Five Star Granites & Building Materials Kulambumukku Cheruthuruthy	Granites Aggregates	49	10		
Santhamani.V Sreeni Nivas Kuthampully.p.o Ph:04884281817 Mob:9400189355	Sree Sowdeswari Enterprises Garuda Stop Kuthampully.p.o Thiruvilwamala	Soft drinks	62	11		
Muhammed Akbar.A.M Arakkal House Chalissery Palakkad	Star Industries Panjal Mob: 9946457616	Nails	30	6		
Rajani.K Lakshmi Nivas Thiruvilwamala.P. O Mob:9496017825	R.D.Associates Sooppippady Chelakkode.p.o Chelakkara	Cattle feed	26	4		

C.P Augin Cheruvathoor House Manoothy.P.O Trisoor Ph:04884261655 Mob;97744662710	Excel Earthings SIDCO Indl Park Kodathur Pazhayanoor excelearthings@gmail.com	Electrical Earthing Material	100	50		
Sabin Purushothaman Managing Director Design edge Concrete Products,Painkulam.p.o,Cheruthuruthy Ph:o4884261655 Email:info@dccp.in	Designedge Concrete Products Pvt.Ltd, Painkulam.p.o Cheruthuruthy Mob:97744662710	Flooring Tiles and Cement bricks	35	32		
Kuruvila Mathew Thoomkuzhy house Vettikkattiri.p.o Cheruthuruthy	Thoomkuzhy Granites Vettikkattiri.p.o Cheruthuruthy Mob.9847127399	Granites Aggregates	45	7		
	Elite agro specialitiespvt. Ltd, Athani					
	Aquastar ,Mundathikode					
	Kelath scaffoldings, Minaloor					
	Modern rice mill ,Athani					
	Suryasobha, Athani					
P.A. Muhammed Nazeer	Pilot Printing And Paper Box	Paper Box, Files	18	6	-	

Maleyakkal, Vadakkekkad, Kunnamkulam 04885226136 9846257257						
Rinu Gary Pulikottil House Pulikottil House Kizhoor P.O. (04885)224429 9446233943	G.V. Polypet	Plastic products	30	6		
Ponnappan. P.J, XI/778 TR Nair Road, Elamthiruthy Email: suptcr55@gmail.com	Southern Union Pharmaceuticals Kerala (P) Ltd., Elamthiruthy	Allopathy Medicines	330	46	-	32080280354
Jose John, Trissur Sand & Gravels (P) Ltd, Pandiparambu Email: office@trissursandsa ndgravels.com	Trissur Sand & Gravels (P) Ltd., Pandiparambu	M. Sand & Granite Metal	1300	65	-	32071196092
George Varghese, Sonata Foods & Creams, Ponganamkad Email: sonatafoodsandcrea ms@gmail.com	Sonata Foods & Creams, Ponganamkad	Ice Cream	145	22		20806587853
V.D. Vincent, Vadakkethala House, Sakthan Nagar, Thrissur Email: keralatubes@gmail.com	Kerala Tubes Ltd., Vellanikkara	Steel Pipes	202	06	-	32080287104
Muraleedharan. P.V, Universal Polymers, Vellanikkara, Email: universalpolymers123@gmail.com	Universal Polymers, Vellanikkara	Water Tank	103	07	-	32081404522
Sony George, Brahmakulam House, Chittilapilly	G M & Sons Granites, Ponganamkad	Granite Metal	210	05	-	32080677322
Laly Ouseph, Kavanakudiyil Huse, Pattikad. P.O	St. Basil Granites, Poovanchira	M. Sand & Granite Metal	256	10	-	-
K. Jacob Thomas, Comfoams Ltd, Vaniyampara. Email:	Comfoams Ltd., Vaniyampara	Rubber Latex	636	18	-	-

vanrubestate@yahoo.co.in						
Kikkily Jose, Cheriath House, Marathakkara	Fathima Tiles, Marathakkara	Clay Products	3126	15	-	-
Rapai. C. A, Cheeran House, Ollur	St. Joseph Tile Works, Padavarad	Clay Products	276	08	-	-
M. C. George, Mechery House, Ollur. Email: blazetiles@gmail.com	Blaze Tiles, Marathakkara	Clay Products	518	07	-	-
Shaju Antony, Neelankavil House, Nettissery	Hypet Plastics, Koottala	PVC Pipe	105	11	-	-
E. T. Parameswaran Mooss, Email: vosp ltd@gmail.com	Thaikattumooss Vaidyaratnam Oushadasala (P) Ltd., Chuvannamannu	Ayurveda Products	925	43	-	-
Wilson Franncis	Ebnezer Print and Pack Pt. Ltd, D.P.Velakode		638	94		
Abdul Kareem	Malabar Granites, D.P.Ayyankunu		600	20		
Reghulal	Yamuna Flour Mill, D.P.Athani		782	180		
Ponnappan. P.J, XI/778 TR Nair Road, Elamthiruthy Email: suptcr55@gmail.com	Southern Union Pharmaceuticals Kerala (P) Ltd., Elamthiruthy	Allopathy Medicines	330	46	-	32080280354
Jose John, Trissur Sand & Gravels (P) Ltd, Pandiparambu Email: office@trissursandsandgravels.com	Trissur Sand & Gravels (P) Ltd., Pandiparambu	M. Sand & Granite Metal	1300	65	-	32071196092

George Varghese, Sonata Foods & Creams, Ponganamkad Email: sonatafoodsandcreams@gmail.com	Sonata Foods & Creams, Ponganamkad	Ice Cream	145	22		20806587853
V.D. Vincent, Vadakkethala House, Sakthan Nagar, Thrissur Email:	Kerala Tubes Ltd., Vellanikkara	Steel Pipes	202	06	-	32080287104

keralatubes@gmail.com						
Muraleedharan. P.V, Universal Polymers, Vellanikkara, Email: universalpolymers123@gmail.com	Universal Polymers, Vellanikkara	Water Tank	103	07	-	32081404522
Sony George, Brahmakulam House, Chittilapilly	G M & Sons Granites, Ponganamkad	Granite Metal	210	05	-	32080677322
Laly Ouseph, Kavanakudiyil Huse, Pattikad. P.O	St. Basil Granites, Poovanchira	M. Sand & Granite Metal	256	10	-	-
K. Jacob Thomas, Comfoams Ltd, Vaniyampara. Email: vanrubestate@yahoo.co.in	Comfoams Ltd., Vaniyampara	Rubber Latex	636	18	-	-
Kikkily Jose, Cheriath House, Marathakkara	Fathima Tiles, Marathakkara	Clay Products	3126	15	-	-
Rapai. C. A, Cheeran House, Ollur	St. Joseph Tile Works, Padavarad	Clay Products	276	08	-	-
M. C. George, Mechery House, Ollur. Email: blazetiles@gmail.com	Blaze Tiles, Marathakkara	Clay Products	518	07	-	-
Shaju Antony, Neelankavil House, Nettissery	Hypet Plastics, Koottala	PVC Pipe	105	11	-	-
E. T. Parameswaran Mooss, Email: vosp ltd@gmail.com	Thaikattumooss Vaidyaratnam Oushadasala (P) Ltd., Chuvannamannu	Ayurveda Products	925	43	-	-
Wilson Franncis	Ebnezer Print and Pack Pt. Ltd, D.P.Velakode		638	94		
Abdul Kareem	Malabar Granites, D.P.Ayyankunu		600	20		
Reghulal	Yamuna Flour Mill, D.P.Athani		782	180		

III) Major industrial activity of the panchayath (special activity if any should specify like Aaranmulakannadi, Nadavaramba bell metal, Parada in Malappuram etc..)

Name of the panchayath	Name of activity	No of households	No of persons involved in Household	Investment (in Rs)	Remarks(<i>specify whether associated with Govt scheme</i>)
Kunnamkulam (M)	Granite Handicrafts	50	50	32	nil

IV) Geographic indication availed/applied for , if any specify and provide details

Name of the panchayath	Area	Products	No of workers involved	Turnover (in Rs)	CFSC if any	Issues related
Wadakkanchery Municipality & Mulloorkkara Panchayath		Chengalikodan Banana				

V) Kudumbasree details

Name of Panchayath	No of Kudubasree units	No of micro enterprises set up	Major activity		No of members involved	Remarks
			Service	Micro manuf		
Elavally		1	1		5	
Mala		2		2	16	
Varantharappilly		2	2		10	
Aloor		1		1	5	
Kaipparambu		1		1	1	
Valappad		2	2		10	

Kattoor		1	1		1	
Karalam		1	1		1	
Kuzhoor		2	2		10	
Kadangode		1		1	6	
Varavoor		1	1		5	
Porkulam		1	1		5	
Total		16	11	5	75	

VI) Artisans' Status

Category	Number of persons	Whether all registered with KADCO
Wood based handicrafts	150	No
Kora Grass	6	No
Bamboo & Reed	20	No
Pottery	600	No
Handloom	800	No
Handicraft Fancy Items (Nettippattam)	500	Yes
Fibre Elephant making & Sculptures	4	No
Khadi	170	No
Gold based	80	No
Metal based	35	No
Others , specify		No

VII) Land under Industries Department

i) DA/DPs and multistoried gala in the block

Name of plot/area	Area in acres	Land for dev .	Allotted area	No of units	No of units working	Not working units	SC/ST units	Women enterprises	Total Investment(in Rs lakhs)	Total Employment
Athani	48.28	-	43.45	86	73	11	-	12	-	650
Kunnamkulam	3.03		2.19	26.00	23.00	1.00		4.00		160.00
Ayyankunnu	29.32		25.57	88.00	80.00	5.00	10.00	2.00		485.00
Velakkode	24.06		22.18	35.00	31.00	2.00		3.00		225.00

Puzhakkal Padam	11.40											
Varavoor	8.55											

ii) Major industrial Estates (SIDCO)

Name of plot/area	Area in acres	Land for Development	Allotted area	No of units	No of units working	Not working units	SC/ST units	Women enterprises	Total Investment(inlacs)	Total Employment	Export in Rupees	Area of Unutilized Land
Ollur	0.27	0.27	0.27	2	2	2	0	2				Nil
Kallettum kara	0.32	0.32	0.32	2	2	1	2	0				Nil
Nadavarambu Shopping Complex	0	0	0	20	8	12	20	5				Nil

iii) Mini industrial Estates (SIDCO)

Name of plot/area	Area in acres	Land for Development	Allotted area	No of units	No of units working	Not working units	SC/ST units	Women enterprises	Total Investment(inlacs)	Total Employment	Export in Rupees	Area of Unutilized Land

iv) Mini industrial Estates (Co-operative series)

Name of plot/area	Area in acres	Land for Development	Allotted area	No of units	No of units working	Not working units	SC/ST units	Women enterprises	Total Investment(inlacs)	Total Employment	Export in Rupees	Area of Unutilized Land
Ollur	1	1	1	10	9	1	0	3				Nil
Chavakkad	0.9	0.9	0.9	11	10	1	1	0				Nil

Pappinivattom	1	1	1	15	13	2	5	1				Nil
Choondal	1	1	1	20	18	2	5	0				Nil
Vallachira	0.9	0.9	0.9	14	13	1	3	1				Nil
Koorkkanchery	0.95	0.95	0.95	15	13	2	3	1				Nil
Ayyanthole	0.82	0.82	0.82	14	13	1	2	3				Nil
DP Athani	1.51	1.51	1.51	27	25	2	11	2				Nil

v) KINFRA/INKEL/KSIDC/other industrial parks (If any specify)

Name of plot/area	Area in acres	Land for Development	Allotted area	No of units	No of units working	Not working units	SC/ST units	Women enterprises	Total Investment(inla)	Total Employment	Export in Rupees	Area of Unutilized Land

vi) DETAILS OF INDUSTRIAL LAND IDENTIFIED FROM LOCAL BODIES

Chavakkad Taluk

Sl. No.	Block	Village	Name of LSGD	Extend of land	Survey No.	Whether already declared as Industrial area	Whether fully allotted	Remarks

1	Guruvayoor Municipality	Pookode	Guruvayoor Municipality	6 Are 88 m ²	119/3	No	Yes	M/s.Peejay Agro Foods - working
2	"	"	"	6 Are 83 m ²	119/4	No	Yes	1. M/s.Kairali Furniture 2) Building allotted for pravasi's group for General Engineering
3	"	"	"	6 Are 88 m ²	143/4	No	Now no activity	There is a shed of 92 m ² 15 years back offset printing press was running there
4	"	Thaikad	"	20 Are 20 m ²	63	No	No	This land is purchased for industrial purpose in 2000 but it is wet land
5	Mullassery Block	Elavally	Elavally Panchayath	2 Acre	192/1	No	No	Shed constructed in .80 acre and allotted to 3 units. 1.2 acre of land is vacant. Application sent to the panchayath for constructing building in PPP model. They agreed to consider the same in the project 2018-19
6	"	Annakara	Mullassery Panchayath	0.432 Acre	76/18	No	Yes	Nutrimix unit is working
7	Chavakkad Block	Andathode	Punnayurkulam Panchayath	10 cent	215/3	No	Yes Unit is not working	1 shed of 100 m ² . Under peoples plan mechanaries for curry powder unit is installed there
8	"	"	"	12 cent	288/3	No	Yes	Vanitha Vyavasaya unit is working

9	"	"	"	40 cent	250/3	No	No building not allotted	Panchayath have a proposal to build a health complex
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MUKUNDAPURAM TALUK									
Sl. No.	Taluk	Block	Village	Name of LSGD	Extend of land	Survey No.	Whether already declared as Industrial area	Whether fully allotted	Remarks
1	Mukundapuram	Kodakara	Kodakara	Kodakara	.35acre	180/8		No	
2	Mukundapuram	mala	Aloor	Thazhekka	.64acre	601/3, 602/3	SC shed	Will be allotted soon	
3	Chalaky	Municipality	Potta	Chalaky Municipality	2 acre			Land allotted to 21 persons	

Talappilly Taluk:

Name of block/municipality	Name of panchayath /village	Survey no	Extend of land	Type of land	No. of sheds	Vacancy / availability of land	Fair value of land
Wadakkanchery	Erumapetty/ Nelluvai	697,698,699,700	3acre	Dry land			
Wadakkanchery	Nellikunnu Industrial Estate		1.6	Dry land	6	2 sheds working	
Wadakkanchery	Mundathikode	337	1.9	"	15	Fully allotted	
Chowannur	Velur	189/1	1 acre	Court case pending	nil	nil	

vii) FUTURE LAND AVAILABILITY IN THE BLOCK/TALUK/DISTRICT

Agency	Name of Block ,GramaPanchayath/ Municipality	Name of Village	Survey No	Extent of Land	Type of Land (wet/dry)	Fair value of Land	Present status of Land
DIC							
KINFRA							
INKEL							
SIDCO							
KSIDC							
Private party							
Other Agencies							

viii) Co-operative societies

a) .Industrial Co-operative Societies

Sl.No	Name of Society	Activity	Extend of Land	Survey No. & Village/ Taluk	Present Status
					Working/ Dormant/ Liquidation
1	2	3	4	5	6
1	Gramashree Printing ICS Ltd. No.364	Printing			Working
2	Ampic Pharmacy Ltd. No.204, Chalakudy	Mfg. of Ayurvedic Medicines	3 Cents 2 Cents 4.536	1657/83, East Chalakudy 1701/83 ,, 2784/85 ,,	Working

			Cents 4.446	283/85	„
			Cents 7.161	1243/86	„
			Cents 13.095	403/87	„
			Cents 0.95	257/90	„
			Cents 4	4659/86	„
			4.024	3872/86	„
			Cents 4	4439/86	„
3	Deepthi Handicrafts Ltd. No.258, Kattungachira, Irinjalakuda	Handicrafts	12 Cents	394/13, Irinjalakuda	Working
4	Seraphic Handicrafts, Vellikulangara	Handicrafts	25 Cents	355, 382/1, Kuttichira	Working
5	Nadavarambu Krishna Bellmetal Workers ICS, Nadavarambu	Handicrafts	20 Cents 30 Cents	331/1, Velookkara 249/192, Velookkara	Working
6	Aloor Panchayat Granite Workers ICS, Aloor		5 Cents 35 Cents 17 Cents	85, Aloor 321/12, 46/3, 46/4, 47/5, Aloor 154/14, Kallettumkara	Not Working
7	Mala Block Vanitha ICS, Kuzhur	Mfg. of Food items	5 Cents	336/1, Kakkulassery	Working
8	Karuvannur Pattikajathi Vanitha ICS, Karuvannur		7 Cents	295/4, Porathussery	Not Working
9	Manjula ICS, Kodaly		5.5 Cents	274/3, Mattathur	Not Working
10	Kodungallur Thazhappaya Thozhilali ICS, Kodungallur		4 Cents	260/2, Edavilangu	Not Working
11	Mukundapuram Multi-purpose ICS, Irinjalakuda		7.75 Cents	406, Vellikulangara	Not Working
12	Vellangallur Multi Workers ICS No.310, Vellangallur		15 Cents	348/2, Vadakkumkara	Not Working
13	Vennur Vanitha ICS Ltd. No.325, Vennur, Meladoor		1.5 Acres	350/2, 357	Not Working

14	Vanitha Industrial Workers ICS Ltd. No.223, Mannampetta		6.5 Cents	254/1, Amballur	Not Working
15	Kairali Bakery ICS Ltd. No.354, Kuttichira, Kodassery		5 Cents	1063/1, Kuttichira	Not Working
16	Kizhuthani RIDMICS No.214, Thanissery		20 Cents	1277/3, Karalam	Not Working
17	Maveli ICS Ltd. No.327, Pattikkara	Hollow Bricks	29 Cents	1012/2, Chirancellur, Talappilly	Working
18	Chavakkad Taluk Bamboo Handicraft Workers ICS Ltd. No.296, Manathala	Handicrafts	15 Cents	269/7, Manathala, Chavakkad	Working
19	Pazhayannur Pattikajathi ICS Ltd. No.S IND (R) 306, Pazhayannur	Handicrafts	30 Cents	102/1, Pazhayannur, Talappilly	Working
20	Neethi ICS Ltd. No.285, Enkakkad	Wood works	25 Cents	481, Wadakkanchery, Talappilly	Working
21	Killimangalam Pulpaya Naithu ICS Ltd. No.3312, Killimangalam	Pulpaya Naithu	8 Cents	477/2, Killimangalam, Talappilly	Working
22	Malabar Detergent & Chemicals ICS Ltd. No.362, Valappad		Rent		Dorment
23	Wadakkanchery Block House Construction & Materials ICS Ltd. No.205, Vellattanjoor		71 Cents	365, Vellattanjoor, Talappilly	Working not started
24	Crystal Pattikajathi Vanitha Book Binding ICS Ltd. No.S IND (R) 344, Kunnamkulam		6.5 Cents	16111, Kunnamkulam, DP No.4	Working not started
25	Erumapetti Panchayath Vanitha ICS Ltd. No.S IND (R) 350, Mangad, Kottapuram. P.O.		9 Cents (Panchayat h Plot & Building)	513, Kottapuram, Talappilly	Working

26	Thalakkottukara Harijan Workers Multi-purpose ICS Ltd. No.S IND (R) 299, Thalakkottukara		20 Cents	Records Not available	Dorment
27	Central Vanitha ICS Ltd. No.251, Ayyanthole	Catering Service	6.5 Cents		Working
28	Palissery Vanitha ICS Ltd. No.254, Palissery		12 Cents		Not Working
29	Anthikad Vanitha ICS No.231	Mfg. of Rice Powder, Curry Powder, Pickle Powder	4.75 Cents 4.5 Cents	2038/11, Anthikad	Working
30	Cherpu Vanitha ICS Ltd. No.291, Perumbillissery	Catering Service	20 Cents		Working
31	Thrissur Dist. Imitation Diamond Manufacturing ICS Ltd. No.219, Chembukkavu		5.5 Cents	421	Not Working
32	Cherpu Carpenters ICS Ltd. No.409, Cherpu	Carpentry Work			Working
33	India Coffee Board Workers ICS Ltd. No.4227, M.G. Road, Thrissur	Hotel	7.5 Cents		Working
34	Thrissur Mini Industrial Estate ICS Ltd. No.240, Thrissur	Industrial Estate			Working
35	Deepa Vanitha ICS Ltd. No.243, Alapad	Mfg. of Rice Powder, Curry Powder, etc.	10 Cents		Working
36	Mangala ICS Ltd. No.246, Peramangalam	Mfg. of Rice Powder, Curry Powder, etc.	5 Cents		Working
37	Viyyur RIDMICS, Viyyur		10 Cents	316/2, Viyyur	Working
38	Koorkkanchery RIDMICS, Kanimangalam		20 Cents	57/I 59/II	Not Working
39	Thrissur Town Vanitha ICS Ltd. No.228, Thrissur		3.5 Cents		Not Working

40	Cherpu Panchayath Harijan Bricks No.313, Karuvannur		10 Cents		Not Working
41	Ollur RIDIMICS Ltd. No.216, Anchery		10 Cents		Not Working
42	Mulayam Granite Workers ICS, Mannuthy		40 Cents		Not Working
43	Adat RIDIMICS Ltd. No.209		10 Cents	409	Liquidation
44	Nadathara RIDIMICS Ltd. No.215		20 Cents	107	Not Working
45	Athani Vanitha Canteen	Catering	10 Cents		Working
46	Koorkkanchery Vanitha ICS		15 Cents		Not Working
47	Rose Printing Workers ICS Ltd. No.197, Kalathode	Book Binding & Printing	10 Cents	642/3, Ollukkara, Thrissur	Liquidation
48	Koorkkanchery Harijan Weavers ICS Ltd. No.280, Koorkkanchery	Handloom Cloth Weaving	20.23 Cents	356/3, Koorkkanchery, Thrissur	Liquidation
49	Erumapetti Vanitha ICS Ltd. No.277, Kottapuram, Mangad	Garment Making, Candle Making	31 Cents	524/1, Kottappuram, Talappilly	Liquidation
50	Kodungallur Powerloom ICS Ltd. No.260, P.O. Kandamkulam	Powerloom	5 Cents	683/1, 2, Methala, Kodungallur	Liquidation
51	Parappukkara RIDMICS Ltd. No.213, P.O. Nandikkara	Imitation Diamond Mfg.	17 Cents 35 Cents	997, Nandikkara 1113, Mattathur	Liquidation
52	Chelakkara Project Social Welfare ICS Ltd. No.78	Pulpaya Naithu	10 Cents 7.25 Cents	666/1, Killimangalam As per possession certificate	Liquidation
53	Mala Vanitha ICS Ltd. No.232, P.O. Mala	Mfg. of Match Box	20.25 Cents	314/1, Vadama	Liquidation
54	Sree Sastha Tile Factory WICS Ltd. No.302, P.O. Annamanada	Mfg. of Tiles & Bricks	164.679 Cents	321/1, 326, Alathur, Mukundapuram	Liquidation
55	Kodungallur Harijan Vanitha Handloom Weavers ICS Ltd. No.272, P.O. Pulloot	Handloom Cloth Weaving	50 Cents	681/1, Pulloot, Kodungallur	Liquidation

56	Viswakarma Bell Metal Workers ICS Ltd. No.161, Kadavallur	Sale of Bell Metal Vessels	2.5 Cents	5692/2, Kadavallur, Talappilly	Liquidation
57	Chavakkad RIDMICS Ltd. No.S IND (R) 210, P.O. Thycaud	Imitation Diamond Mfg.	19.5 Cents	219/4, Iringappuram, Chavakkad	Liquidation

b) Handloom Co-operative societies

Category	Name of the society	No of members registered	No of workers	Whether SC/ST	Extent of Land& Area of Building	Extent of Land& Area of Building unutilized	Working Not working or mand Under Liquidation
THRISSUR CIRCLE							
	Thiruvilwamala HWCS Ltd. No	419	68	-	22.5 Cent 2000 sq.ft	-	Working
	Eravathody HWCS Ltd. No	437	90	-	13.75 Cent 2000 sq.ft	-	Working
	Gandhi HWCS Ltd. No	187	9	SC Society	50 Cent 14000 sq.ft	-	Working
	Kondazhy HWCS Ltd. No.	120	20	-	2.26 Acre	-	Working
	Kuthampully HWCS No.	787	122	-	11Cent 3000 sq.ft	-	Working
	Choondal HWCS Ltd.No.	304	10	-	7.75Cent(owned) 1300 sq.ft (rental building)	Building not constructed	Working
MUKUNDAPURAM CIRCLE							
	Anthikad HWCS Ltd. No.	117	12	-	2.25 Cent (600 sq.ft.)	Nil	Working
	Kodungallur HWCS Ltd. No.	332	5	-	1.503 Cent (1000 Sq.ft)	Nil	Working

	Poyya HWCS Ltd. No.	161	5	-	10 Cent (250 Sq.ft)	Nil	Working
	Cherpu HWCS Ltd. No.510	232	22	-	41 Cent (2000 Sq.ft)	Nil	Working
	Thalikulam HWCS Ltd. No.	226	10	SC Society	53 Cent (1500 Sq.ft)	-	Working
	Nadavarambu Hwcs Ltd.No.	244	16	-	10 Cent (800 Sq.ft)	-	Working
Category	Name of the society	No of members registered	No of workers	Whether SC/ST	Extent of Land& Area of Building	Extent of Land& Area of Building unutilized	Working/ Not working/ Dormant/ Under Liquidation
Handicrafts (wood,gold,metal,Clay based and others)							
Category	Name of the society	No of members registered	No of workers	Whether SC/ST	Extent of Land& Area of Building	Extent of Land& Area of Building unutilized	Working/ Not working/ Dormant/ Under Liquidation
Power loom							
Other Industrial Cooperative Societies							

a) Research and Development Centers

1	MSME Development Institute, Thrissur.
2	Agriculture University, Mannuthy, Thrissur.
3	Kerala University of Health Science, Mulamkunnathukavu, Thrissur.
4	Kerala Kalamandalam Deemed University for Art and Culture, Cheruthuruthy, Thrissur.
5	Kerala Institute of Local Administration (KILA), Mulamkunnathukavu, Thrissur.
6	Kerala Forest Research Institute, Peechi, Thrissur.
7	Panchakarma Research Centre, Cheruthuruthy, Thrissur.
8	Banana Research Centre, Kannara, Thrissur.

d) Entrepreneurship Development Clubs

List of ED Clubs

Sl.No	Name of Institution	Members No
1	Govt. ITI, Manalur	36
2	Sree Krishna College, Guruvayur	27
3	PJMS GHSS, Kandassakadavu	32
4	Sahrudaya College of Advanced Studies, Kodakara	26
5	Nehru College of Engg. & Research Centre, Pambady	75
6	Govt.V H S , Puthur	92
7	St. Joseph's College, Irinjalakuda	177
8	RMVHS, Perinjanam	100
9	Little Flower College, Guruvayur	34
10	Govt. Girls Higher Secondary School, Kodungallur	88
11	GHSS, Krupadanna	46
12	GVHSS, Ayyanthole	88

13	Govt. Model Boys VHSS, Irinjalakuda	70
14	GVHSS for Girls, Irinjalakuda	73
15	St. Antony's HSS, Ammadam	25
16	Christ College of Engg., Irinjalakuda	64
17	SKHSS, Anandapuram	150
18	Govt. VHSS, Pazhanji	90
19	Govt. VHSS, Desamangalam	60
20	Sri. C Achutha Menon Government College, Kuttanellur	49
21	Elijah Institute of Management Studies, Kurichikkara	46
22	St. Thomas College, Thrissur	50
23	MES Asmabi College, P. Vemballur	109
24	K Karunakaran Smaraka Govt. ITI, Mala	30
25	Vimala College, Thrissur	115
26	KKTM Govt. College, Pullut	45
27	Kerala varma Memorial Govt. H S S , Eriyad	26
28	Sree Narayana College, Nattika	100
29	Universal Engineering College, Vallivattom	113
30	Christ College, Irinjalakuda	35
31	Govt. VHSS, Ramavarmapuram	24
32	Govt. VHSS, Ollur	26
33	MASMVHSS, Venmanadu	45
34	Govt. VHSS, Thiruvilwamala	40
35	Govt. VHSS, Perumpilavu	34
36	KNMVHSS, Vatanappilly	50
37	GFVHSS, Kaipamangalam	32
38	Sri. Vyasa NSS College, Vyasagiri	25
39	SNVHSS, Aloor	40
40	Royal College of Engg., Akkikavu	170
41	Govt. ITI, Desamangalam	80
42	PMG College, Chalakudy	35

43	Mother Arts & Science College, Peruvallur	28
44	Govt. Engg. College, Thrissur	70
45	Sree Vivekananda College, Kunnamkulam	65
46	Govt. Women's Polytechnic College, Thrissur	20
47	Govt. ITI, Cherpu	65
48	Govt. HSS, Peringottukara	30
49	St. George HSS, Pariyaram	50
50	SRKGMHSS, Puranattukara	31
51	College of Applied Science, Chelakkara	50
52	Secret Heart College, Chalakudy	33
53	St. Mary's College, Thrissur	66
54	Jyothis Skill Development Centre, Thrissur	49
55	Jyothis College for Advanced Studies, Irinjalakuda	84
56	St. Francis HSS, Mattom	66
57	MES HSS, SN Puram, P Vemballur	73
58	Jyothi Engineering Collage, Cheruthuruthy	25
59	St. Antonys H S S Mala	236
60	GOVT Modal G.H.S.S Irinjalakuda	30
61	Sree Sarada G.H.S.S Puranattukara	60
62	GOVT I.T.I Chalakudy	57

f) Cluster activities

Existing Clusters

1. Name of the cluster : Terra Tile Consortium

4 Acres of land at DP velakkode. Half of the land is only used for

industrial purpose and remaining land is lying vacant.

No. of Units : 34 Nos

**CFSC Sanctioned : Terra Tile Consortium Clay
Mixing unit**

Total Project Cost : 499.3
Govt. Of India : 249.65
Govt. Of Kerala : 99.86
Consortium : 149.79
Beneficiaries : 34 Units.

Not functioning due to lack of clay.

CFSC Sanctioned : Terra Tile Consortium Clay Mixing unit

**2. Thrissur Traditional Furniture Cluster Chevoor (P)
Ltd.Vallachira**

Total Project Cost : 14.41 Crores
Govt. Of India : 10.02 (70%)
Govt. Of Kerala : 2.89 (20%)
Consortium : 1.54 (10%)
Members : 27
Beneficiaries : 400 Units

Machinery Details: Wood seasoning Kiln

Thin Kerf Band Saw with Tool grinding, rips saw, Four side Moulder finger jointing machine, CNC master cut, CNC nesting ruter, wide belt sander, multi function, CNC machine, rotary compressor etc.

Building construction under final stage. Global Tender for the purchase of Machinery is under process.

Main facilities of CFC – Design Facility, Wood seasoning facility,. Finger Joint Development, Component Facility.

Expected outcome of CFC:

Employment Generation of 5000 persons in five years, Increase exports from 5 Crore to 50 Crore. Increase in profit by 100%. Import Substitution and consequently saving in shares foreign exchange. Facility of CFC would be available to all existing units in the cluster and also to those to be set up in future.

Area of Building: 21,000 Sq. Ft. , Power – 700 KVA. , Licenses obtained: PCB, Fire Force, Town Planner, Building approval from panchayath.

3. Diamond Cluster Development Society, Mundoor

Total Project Cost	: 300.22
Govt. Of India	: 210.16
Govt. Of Kerala	: 60.05
Consortium	: 30.01
Beneficiaries	: 64 Members

List of of machineries & equipments, consumables and accessories:

As per diagnostic study on Diamond Cluster Industry has conducted by Training Institute and List of of machineries & equipments, consumables and accessories for the cluster are noted below:

1) A Model making Department:

Steam Machine, Electric Picklers, Extra hand holders, Optivisor, Rolling Machine & Wire drawing machine combine one etc. Wax Room. Valcunizing Machine, Air Regulator, Freedom to Machine, Vari-Temperature Heating Tools, Vax injector etc. Polishing Departments:

Lapping Hoods, Lapping dust collector, Grinding dust collector, Table sprue cutting machine, Stamping Machine, Tumling Machine.

Setting Department: Freedom Polishing Motor, Steam Machine, Assorted Tools, etc. Casting Department: Investment Measuring Scale, Table sprrue cutter, Investment and Vacum Mix Machine, Ultra Sonic Cleaner,

Bead Blaster, Memco/Manual Casting Machine. Finishing Department: Handler Grinders, Stamping Machine, Flex Shaft, Assorted tools, etc..

Recovery Department: Bur out oven, Melting Furnace, Aolling Mill, Rodium Plating Machine, Stripng Maching, Ultrasonic Machine etc.

General Items:

Gem Testing Lamps, Metal hand detector with charger (Indian and imported).

Consumables:

Crucibles, Injection Waxes, Silcon Dressings, Rubber Moulds, Eslectroplating salts/solutions, Polishing powder, Polishing fluid, Polishing compound etc.

Revised Project Report submitted to Director of Industries and Commerce, Tvm for final approval.

- **Garment Cluster, Thalikkulam**

The project aims to set up a mother unit at Vikas Trush Thalikulam.

Total Project Cost : 3.67 Crores

Machinery cost : 2.32 Crore

Furniture & other Equipments including vehicle: 70 Lac.

Working Capital Margin: 50 Lakhs.

List of machineries proposed: Single needle sewing machine-50, 12 Head computerised Embroidery Machine- 3 Nos., Collar Fusing Machine- 2 Nos., Trimming and Turning Machine, Button & Button hole machine, 3 Needle Machine, Feed off arm machine, Multi boiler steam ironing machine, Computerised cutting machine, 6 Head over locking machine.

Beneficiaries : JLGs each having 5 members, total units 250 Nos.

Thalikkulam Vikas Trust has developed the infrastructure for apparel development. They wanted to develop Thalikkulam as destination of Apparel Industry. Though there are skilled artisans, they are not using the skills for augmenting their income. This needs a focussed multi faceted interventions (Cluster Mode). They would like to adopt JLGs with the financial assistance from the State Government. They would like to associate with key support institutions like, NIFT, M SMEDI, DIC, EDII, etc. A Cluster has enough growth potentials and could create a positive impact in the society.

DSR and DPR is not yet completed and project cost not finalised.

4. Handicraft Cluster, Cherpu

Total Project Cost :

Govt. Of India :

Govt. Of Kerala :

**Consortium :
Beneficiaries : Units**

In Cherpu area several skilled artisans engaged in the production of wooden handicrafts and furniture. Mainly Cherpu is famous for wooden elephant.

Average 200 families engaged in the manufacturing in the production of wooden elephant and sculptors.

- As per record of society 25 members have Artisan Card.**
- 20 members applied for card.**
- G.O (Rt) No. 672/2016/ID dt.25/07/2016**

As per G.O. approval for Base line survey and formulation of project plan for Development of Handicraft cluster in the state.

Implementing agency is Handicrafts Development Corporation of Kerala Ltd.

one meeting conducted with Handicrafts Development Corporation .Sri . Sajeew participated in the meeting visited Carpenters society, Secretary agreed for survey

A meeting with the representative of Handicrafts Development Corporation has been conducted for the implementation of the Handicrafts Wood Cluster at Cherpu. So far they have not submitted the Project Report. A meeting has been conducted by CDA of the concerned cluster to identify the members.

Upcoming Identified Clusters-4

- 1. Banana fibre cluster,kannara,peechi**

Total Project Cost : 23 lakhs

Govt. Of India :

Govt. Of Kerala :

Consortium :

Beneficiaries : Units

A proposal has already been forwarded to Director of Industries and Commerce, Tvm, for approval. As per the direction of the DI&C, Tvm, the KAU Banana Research Station, Kannara has directed to prepare RPR.

2. Nadathara Apparel Cluster

Total Project Cost : 132.39 lakhs

Machinery, Furniture, Training equipments, Building interior Decoration, Office Equipments and other preliminary expenses: 108.39.

Working Capital Margin: 15 Lakhs.

Cost of Vehicle : 9 .00 lakhs.

Beneficiaries : 24 Units

Machineries used : Stitching Machine (Juki) 20 Nos.
Button Hole (Juki) – 2 Nos.

Inter lock and Embroidery : 3 Nos.

Leggins Switching machine. : 3 Nos.

Over lock machine : 3 nos., U.G. Stitching Machine, U.G. Zig Zag with step

machine, U.G. Double needle machine.

The promoters of the Nadathara Apparel Cluster is considering for the formation of cluster with 24 units working in the geographical area with a size of 2-6 members in each group. These members are contributing, those scattered, in the modest manner of Garment Industry. The members wanted themselves to bring the scattered artisans especially women in a cluster mode by providing backward and forward integration. Total turn over of the cluster is around 40 lakhs and the type of the product share of market is – Ladies Garments 60%, Kids Garments 20%, Gents Garments 20%.

3. Crystal SC Book Binding Co- operative Society Kunnankulam

Activity proposed : Book Binding, Paper bag mfg.,

This society had 120 members previously. Now only 40 active members belonging to the SC Category. They require Skill Development Training. This society having 5 Cents of land with building at DP kunnankulam

- Book Binding Unit
- Stitching machine - 3.5 Lakh
- Cutting machine - 36 “Semi Automatic
4.5 lack
- Folding machine - Double Crown (semi
automatic) 4.5- 5 lakh

- Perfect binding machine - 12 “size 8 Lakh
- Total - 21 Lakh

Identified clusters in the district are...

- Kunnamkulam Note book cluster
- Kurukkanpara Stone sculptures(Kunnamkulam -Guruvayur route)
- Readymade Garments cluster(Koorkkanchery)
- Bell Metal (Nadavarambu)
- Gold Ornaments(Perumbillissery)
- Bamboo/Reed (Pazhayannur)
- Hycinth (Kodungallur)
- Pottery (Kecheri/Aloor/Pathramangalam/Thaloor)
- Light Engineering(TSR/Perinjanam)
- Ayurveda (Thaikkattussery/Ollur)
- Handicraft Clusters

g) Traditional sectors in the District.

The important traditional industries in the district are Handloom Industries, Clay Pottery Units, Note Book and Book binding units, Granite handicrafts, Bamboo crafts, Wooden Handicraft industry, Ornamental units, etc...

h) Major exports in the District:

The major export items from the district are food products, spices, palm products, fish products, plastic products, ayurvedic products, handicraft items etc..

Recommendations and suggestions for industrial development in Thrissur District.

- 1) PPP model by finding out industrial land available in the LSGD.
- 2) Ensure to reserve minimum 10% of plan fund of LSGD for the development

of enterprises.

- 3) For finding out the beneficiaries in the industrial sector, avoid the BPL criteria in the LSGDS.
- 4) Ensure to utilize the land & building developed by using industrial fund under LSGD plan projects only for the industrial development.
- 5) Establish a monitoring system to monitor the enterprises started under LSGD Plan Projects.
- 6) Minimize and simplify the procedures to start micro industries especially in the white and green category enterprises.
- 7) Formation of model industrial village like Thalikkulam Garments Village, Pudukkad Garments Village, etc.
- 8) Find out Nano household enterprises at Panchayath/Block level and develop it as a cluster.
- 9) Promote the value addition in Agro-Food Sector and its marketing.
- 10) Promote the traditional sectors identified in each block.
- 11) Promote marine food processing units nearby the coastal areas.
- 12) Protecting the existing industrial estate by enabling proper waste disposal and treatment. For that purpose waste treatment plants can be established by using LSGD plan funds.

- 13) Impart Skill Development Training to the unemployed and educated youth.
- 14) Establish a new Technology Bank through which modern technologies developed by Universities/ Technical Colleges may be imparted to the young entrepreneurs.
- 15) Formation of employment data bank through which skilled employees may be found out and supplied to industrial units as their requirement.
- 16) Liberalize the banking loan procedures for the start of micro industries.
- 17) Implement cluster based production technology in each cluster.
- 18) Inculcate and promote the industrial policies and awareness among the students through ED Clubs. Impart most modern technologies in cluster.
- 19) Start Technology Innovation Centres, Marketing Centres, Raw-material Bank, Agro food based incubation centres, Quality testing labs for food and electronic items.

XI) Conclusion

According to SWOT analysis it can be observed that different opportunities are available in the District. By careful identification of suitable projects and strategies, the weakness in industrial scenario can be minimized. New industrial policy, which gives priority to Entrepreneurs with involvement of NGO's, will help the rapid rural industrialization.

INDUSTRIAL PROJECT PROFILES 2017-18

DISTRICT INDUSTRIES CENTRE, THRISSUR

Project profile on Curry and Rice Powder

Introduction:

Spices play an important role in enhancing the flavor and taste of the processed foods. India produces almost all the known spices and is the largest exporter of this commodity. Although spices are traded chiefly in an unprocessed form, a small yet significant quantity enters international trade as spice powders. Curry powder is the foremost of those blends or mixes and sometimes consists of 20 or more spices designed to impact the characteristic flavor of an Indian curry which is appreciated all over the world. Apart from the overseas market, processed curry powder is becoming popular in the internal market also. Hence the demand for unadulterated spices and curry powder in attractive handy packages is fast emerging.

Kerala – “The God’s own country” and the “Spices Garden” of the world has seen tremendous growth in spices related consumer industry recently. Although the struggle of poor consumers for getting genuine food items is still at large. To enhance the flavor and aroma of foods spices are used whole or in pieces, as in pulaos and biriyanis, or in powdered or ground form. While freshly ground masalas (mixed curry spices are preferred to powdered masalas), owing to the shortage of domestic labour, there is a definite trend today towards using spices mainly in powdered form in many combinations of curry powders. Curry powder, chilli powder, turmeric powder, spices powder etc are greatly consumed for preparing a variety of vegetable and non-vegetable food items. The quality of these products increases the taste and quality of food products. The consumers around the world have always opted for unadulterated food items irrespective of their cost. Considering the recent trend of change followed by the reasons of fast life of people, paved the way for the emergence of a lot of entrepreneurs in the food processing field. Ready to use rice powder will simplify the job of households. Today’s fast life style of people will increase the demand of ready to use food products.

Coconut oil is an important cooking medium in Southern parts of the country especially in Kerala State. Besides, the oil has varied industrial applications. It is used in the manufacture of toilet soaps, laundry soaps, surface active agents and detergents, hair tonics, cosmetics, etc. It is used throughout the country as hair oil as it helps growth of the hair. As massage oil it has a cooling effect on the body. Owing to these qualities coconut oil has a potential market in the country.

Promoter:

The promoter should have enough knowledge and experience in the proposed field and can manage the whole unit successfully. He/She will get all encouragement for the unit from the native people as such the unit will be a blessing to them.

Location of the unit:

The proposed unit may be set up in a building owned by the promoter in Thrissur Corporation area, where in all infrastructure facilities are available.

Consumable Materials:

The main consumables required for the unit Rice, Chilli and coriander, herbs, copra, etc. is available in the market. The annual requirement of raw materials is assessed and given in the annexure.

Employment:

The Unit can provide employment to 4 persons directly. The annual expenditure on labour is assessed and given in the annexure.

Cost of Service and Profitability:

The estimate of this project is on the basis of the following:

- 1) The unit will function for 300 days in a year.
- 2) The capacity utilization has been assumed at 60% in the first year and 65 % afterwards.
- 3) The price of the raw material and services are taken at the prevailing market rates.
- 4) Wages and salaries have been increased by 5% every year.
- 5) Repairs, insurance, telephone charge, etc., are taken at lump.
- 6) No contingency provision is made since the costs are taken at prevailing market price.
- 7) Depreciation has been calculated on Written down Value Method.
- 8) Income tax has been calculated at the rate applicable to proprietary concern

Project Cost

Sl. No.	Particulars	Amount
1	Land	Free Hold
2	Building	Free Hold
3	Plant & machinery	396400
4	Preliminary expense	47000
5	Working capital	2,22,100.00
	Total	Rs. 665,500.00

MEANS OF FINANCE

Percentage of Own capital under the Scheme = 25

Sl No	Particulars	Amount Rs.
1	Own capital	1,66,375.00
2	Term loan from bank	3,32,550.00
3	Working capital loan	1,66,575.00
	Total	Rs. 6,65,500.00

MACHINERY/ EQUIPMENTS

Sl. No.	Description	Rate	Qty	Amount
A	Multi mill Pulveriser one side double head 12" and other side single head 12"	59500	1	59,500.00
B	10 HP Crompton motor with starter, switch and capacitor	27000	2	54,000.00

C	12" disintegrator with stand	36000	1	36,000.00
D	Uruli Roaster capacity 15 Kg / batch with electric motor	28500	1	28,500.00
e	Parts of flour mill -motor pulley, belt, rail, foundation bolt and belt guard	30000	1	30,000.00
F	Single head pulverisor	26000	1	26,000.00
G	4 Bolt oil expeller	92000	1	92,000.00
H	Electronic weighing balance	14500	1	14,500.00
I	Cubical control panel with all components	29500	1	29,500.00
	VAT 5 % for item no1,3,4,5,6,7,8	14325	1	14,325.00
	VAT 14.5 % for item 2,9	12107.5	1	12,107.50
TOTAL				3,96,433.00

DIRECT MATERIALS

Requirement @ capacity utilisation of 60 %

Sl. No.	Description	Unit	Rate Rs.	Quantity in Kg	Amount/month
1	Rice (kg)	Kg	25	1930	48,250.00
2	Chilly (kg)	Kg	80	605	48,400.00
3	Coriander (kg)	Kg	80	605	48,400.00
4	Turmeric	Kg	85	605	51,425.00
5	Spices	Kg	170	605	1,02,850.00
6	Herbs	Kg	400	605	2,42,000.00
7	Packing Materials (kg)	Kg	80	60	4,800.00
8	Copra	Kg	102	377.5	38,505.00
TOTAL PER MONTH					5,84,630.00
TOTAL PER ANNUM Rs.					70,15,560.00

INDIRECT MATERIALS

Sl. No.	Description	Unit	Rate	Quantity	Amount
1	Coolant, Lubricant etc.	L.S	2000	1	2,000.00
TOTAL PER MONTH					2,000.00
TOTAL PER ANNUM					24,000.00

DIRECT LABOUR

Sl. No.	Description	Nos	Monthly Rate	Amount
	Wages: Skilled Worker	1	8500	8,500.00
	Semiskilled Worker	1	7500	7,500.00
	Unskilled Worker	1	7000	7,000.00
TOTAL				23,000.00
TOTAL PER ANNUM				2,76,000.00

DIRECT EXPENSES

Sl. No.	Description	Expense per Month
1	Power & Fuel	8,600.00
2	Cost of Defective/Rejects	3,000.00
TOTAL PER MONTH		11,600.00
TOTAL PER ANNUM		1,39,200.00

INDIRECT EXPENSES

Sl. No.	Description	Expense per Month
1	Advertising Expenses	5,000.00
2	Insurance	1,200.00
3	Lighting	250.00
4	Rent	500.00
5	Repairs & Maintenance	1,000.00
6	Telephone charges	1,500.00
7	Travelling expense	1,500.00
8	Stationery & Printing	800.00
9	Transporting charges	2,500.00
TOTAL PER MONTH		14,250.00
TOTAL PER ANNUM		171,000.00

WORKING CAPITAL ESTIMATE

Sl. No	Description	Requirement in Days	Amount (Rs.)
1	Raw Material Inventory	6	1,40,,791.00
2	Work in Progress Inventory	1	23,465.00
3	Finished Goods Inventory	1	23,465.00
4	Receivable in Days	1	23,465.00
5	Labour Charges	3	3,780.00
6	Other Expenses/ Overheads	3	3,102.00
TOTAL			2,18,068.00

REPAYMENT SCHEDULE OF BANK LOAN

Amount	499125		Rate of interest	14.00	(%)
Year	Principal	Repayment	Balance	Interest	Total
Year1	499125	71304	427821	71125	142429
Year2	427821	71304	356518	60965	132268
Year3	356518	71304	285214	50804	122107
Year4	285214	71304	213911	40643	111947
Year5	213911	71304	142607	30482	101786
Year6	142607	71304	71304	20322	91625
Year7	71304	71304	0	10161	81464

Depreciation

<i>Year</i>	Machinery	
	Cost	Depn
1	443400	44340
2	399060	39906
3	359154	35915
4	323238	32324
5	290914	29091
6	261823	26182
7	235641	23564

SALES REVENUE AT DIFFERENT LEVELS OF OPERATION

Sl No	Description of Revenue	Volume of Sales at 100% (in Kg)	Volume of Sales at 60% (in Kg)	Average Rate(in Rs)	Value in Rs. at 60%	Value in Rs. in third year
1	Rice Powder	34740	20844	36	750384	875448
2	Chilly Powder	10890	6534	102	666468	777546
3	Coriander Powder	10890	6534	102	666468	777546
4	Turmeric Powder	10890	6534	106	692604	808038
5	Curry powder	10890	6534	205	1339470	1562715
6	Herbal Powder	10890	6534	502	3280068	3826746
7	Coconut oil	5285	3171	153	485163	566024
	Total	89190	53514		7880625	9194063

BREAK EVEN ANALYSIS 3rd year

70 % Cap.

A.	Variable cost	
	Direct Raw materials	8184820
	Direct Labour	304290
	Direct Expenses	162400

	Total	8651510
B.	Fixed & semi-variable cost	
	Consumable Stores & Indirect Material	24000
	Indirect Labour	112455
	Indirect Expenses	171000
	Financial expense	50804
	Total	358259

Selling price (S.P)	-	9194063
Variable cost (V.C)	-	8651510
Difference (Contr.)	-	542553

Break Even Point = $\frac{\text{Fixed \& semi variable cost} \times \text{capacity} \times 100}{\text{Difference in S.P and V.C} \times 100}$

BEP= 46.22 %

COST OF PRODUCTION & PROFITABILITY ESTIMATE

Sl no	Particulars	
		1
	No of working days	300
	No of shifts	1
	Production capacity in No	89190
	Capacity utilisation(%)	60
	Actual production	53514
L	Sales in Lakhs	78.806
II	<u>Cost of production</u>	(all values in Lakh Rupees)
	Raw materials& consumables	70.3956
	Power& fuel	1.032
	Repair& maintenance	0.144
	Salaries& wages	3.780
	Insurance	0.060
	Depreciation	0.443
	Sub total	75.855
III	<u>Selling & Administration Expense</u>	
	Telephone charges	0.180
	Travelling expense	0.300
	Transporting	0.180
	Advertising	0.120
	Sub total	0.780
IV	<u>Financial Expense</u>	
	Interest on bank loan	0.711
	Sub total	0.711
V	Total (II+III+IV)	77.346
VI	<u>Operating profit</u>	1.460

VIII	Pre-expense written off	0.008
IX	Taxation	0.000
X	<u>Net profit</u>	1.452
XI	Withdrawals	0.145
XII	<u>Net cash accruals</u>	1.307
XIII	Cumulative Surplus	1.307

DEBT SERVICE COVERAGE RATIO

Sl no	Particulars	
1	Net profit	1.452
2	Depreciation	0.443
3	Interest on loan	0.711
4	Pre expense written off	0.008
5	Total	2.615
6	Repayment of term loan	0.713
7	Interest on loan	0.711
8	Total (Rs in lakhs)	1.424
9	Debt Service Coverage Ratio	1.836

CONCLUSION:

On examining the technical aspects like availability of raw materials, availability of skills and opportunity of market, it can be stated that the project is technically feasible. The income generated is enough for the repayment of loan and for the better prospects of the unit.

Project Profile of Steel Furniture

Introduction:

The unit is a proposed micro enterprise propose to manufacture steel fabricated furniture which are required both for domestic and commercial establishments. With the growth of industrial, commercial and household activities the demand of office automation, equipments and steel furniture has increased considerably. Wooden furniture after some period is worn out due to defects in wood quality and normal wear and tear. Due to elegant appearance, durability and innovative designs, steel furniture is becoming popular in modern society. Steel furniture is preferred over

other kinds of furniture due to its durability, fold ability (in many cases) and easy transportability. These items find their extensive use in industrial, commercial and household activities. These steel products are the only replacement of wood in terms of cost and durability. These products will be varied in shapes and sizes as per the demand. Fabrications of steel related items are well established business and no sophisticated know-how is required. Though a number of units are carrying out the above activities, still there exists a gap in the demand supply curve.

Location:

The proposed unit is to be set up in a rented building in Thrissur, where in all infrastructure facilities are available.

Process of manufacture:

The main process steps are –

- (A). Cutting or shearing of the materials to size.
- (B). Welding the sized material as per design of product to be made.
- (C). Grinding edges and surfaces to smoothness.
- (D) Finishing process to the article produced.

Raw Materials and Consumable Materials:

The main Raw materials & consumables required for the unit are stainless steel square and round pipes of various sizes, stainless steel sheets, welding electrodes, cutting blades, screws; cutting fluid, cotton waste etc. are available in the market.

Employment:

The Unit can provide employment to 4 persons directly.

Assumptions

The estimate of this project is on the basis of the following:

- 1) The unit will function for 300 days in a year.
- 2) The capacity utilization has been assumed at 60% in the first year and 65 % afterwards.
- 3) The price of the raw material and services are taken at the prevailing market rates.
- 4) Wages and salaries have been increased by 5% every year.
- 5) Repairs, insurance, telephone charge, etc., are taken at lump.
- 6) No contingency provision is made since the costs are taken at prevailing market price.
- 7) Depreciation has been calculated on Written down Value Method.
- 8) Income tax has been calculated at the rate applicable to proprietary concern.

CONCLUSION

On considering the various aspects of the project both financially & technically it can be seen that the above scheme will be a great success. Further it is certified that the project report is technically feasible and economically viable.

MACHINERY AND EQUIPMENT

SI No	Items	Qty	Unit	Rate	Amount
1	Bench drill with motor	1	Nos	18,800.00	18,800.00

2	Welding set 300amp	1	Nos	11,000.00	11,000.00
3	Cut off	1	Nos	10,800.00	10,800.00
4	Hand drill	1	Nos	3,800.00	3,800.00
5	Hand drill 2.20	1	Nos	9,200.00	9,200.00
6	Grinder	2	Nos	2,400.00	4,800.00
7	Welding cable set	2	Nos	2,000.00	4,000.00
8	MMA welding set	1	Nos	15,200.00	15,200.00
9	Ring and spanner set	1	Nos	4,000.00	4,000.00
10	Bench grinder	1	Nos	13,000.00	13,000.00
11	Screwdriver set	1	nos	2,800.00	2,800.00
12	Cut off meter saw	1	Nos	16,000.00	16,000.00
13	Compressor	1	Nos	13,000.00	13,000.00
14	Buffing motor	1	Nos	22,000.00	22,000.00
15	Straight sander	1	Nos	6,000.00	6,000.00
16	Pipe bending machine	1	Nos	94,500.00	94,500.00
17	2Hp Motor	1	Nos	9,200.00	9,200.00
	TOTAL				2,58,100.00

Requirements Of Raw Materials Per Month(60% Capacity Utilisation)

SI No	Items	Qty	Unit	Rate	Amount
1	Stainless steel pipe	350	Kg	210.00	73,500.00
2	SS sheets and strips	150	Kg	150.00	22,500.00
3	Glass sheet	200	Sq ft.	120.00	24,000.00
4	Other essential items				28,400.00
	TOTAL				1,48,400.00

MAN POWER REQUIREMENT

SI No	Designation	No	Monthly Salary	Amount
1	Skilled worker	1	10,000.00	10,000.00
2	Semi Skilled worker	2	9,000.00	18,000.00
3	Un skilled worker	1	8,000.00	8,000.00
	TOTAL			36,000.00

OTHER EXPENCE PER MONTH

SI No	Item	Amount
1	Power	2,000.00
2	Rent	2,000.00

3	Office expenses , etc.	500.00
4	Transportation	3000.00
5	Postage and telephone	500.00
6	Stationary	500.00
7	Miscellaneous	2,000.00
	TOTAL	10,500.00

WORKING CAPITAL

SI No	Item	Period in days	Total Amount	Loan From Bank	Margin
1	Stock of Raw materials	7	41,552.00	39,474.00	2,078.00
2	Work in process	4	23,744.00	22,557.00	1,187.00
3	Stock of finished goods	5	29,680.00	28,196.00	1,484.00
4	Receivables	5	29,680.00	28,196.00	1,484.00
5	Working Expenses	30	46,500.00	44,175.00	2,325.00
	Total		1,71,156.00	1,62,598.00	8,558.00
		Say	1,71,200.00	1,62,600.00	8,600.00

PRODUCTION PER MONTH (Capacity utilization 60%)

SI No	Item	Qty	Unit	Rate	Amount
1	Coat	15	Nos	5,275.00	79,125.00
2	Steel table	12	Nos	4,250.00	51,000.00
3	Teapoy	15	Nos	2500.00	37,500.00
4	Steel chair	30	Nos	2,000.00	60,000.00
	TOTAL				2,27,625.00

PROJECT COST

SI No	Particulars	Amount
1	Building	Rented
2	Machinery & Equipment	2,58,100.00
3	Electrification and Errection	25,000.00
4	Preliminary & Pre-operative expences	6,000.00
6	Working Capital	1,71,200.00
	Total	4,60,300.00

MEANS OF FINANCE

SI No	Particulars	Amount
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1	Term Loan from Bank (75%)	2,16,825.00
2	Working Capital Loan from bank(75%)	1,28,400.00
3	Promoter's Contribution(25%)	1,15,075.00
	Total	4,60,300.00

COST OF PRODUCTION & PROFITABILITY STATEMENT		
	Particulars	1st Year
	No. of working days	300
	No. of shifts	1
	Installed Capacity	4552500
	Capacity Utilisation	60
	Production	2731500
	Receipts	
A	Sales	2622240
B	Cost of Production	
	Raw materials	1780800
	Salaries	216000
	Wages	216000
	Power Charges	24000
	Repairs & Maintenance	5160
	Insurance	2581
	Depreciation	25806
	Total	2270347
C	Gross Operating Profit	351893
D	Administrative & Selling expenses	102000
E	Financial expenses	
	1. Interest on Term loan	27704
	2. Interest on WC loan	17976
	3. Interest on MM loan	0
F	Total of D & E	147680
G	Net Operating Profit	204213
H	Income Tax	421
I	Net Profit	203792
J	Withdrawals	0
K	Add Depreciation	25806
L	Cash Surplus	229598

BREAK - EVEN ANALYSIS	
Particulars	1 Year
FIXED COST	
Salaries	216000
Repairs & Maintenance	5160
Insurance	2581
Administrative expenses	18000
Depreciation	25806
Interest on Term Loan	27704
Total	295251
VARIABLE COST	
Raw materials	1780800
Wages	216000
Power Charges	24000
Selling expenses	60000
Interest on WC loan	17976
Total	2098776
BEP in % of Installed Capacity	56.40
DSCR	3.95

REPAYMENT SCHEDULE OF TERM LOAN @ 13.5%					
Year	Instalment Number	Principal	Inst. Amt	Interest	Balance
1	1	216825	7740	7318	209085
	2	209085	7740	7057	201345
	3	201345	7740	6795	193605
	4	193605	7740	6534	185865
			30960	27704	
2	5	185865	7740	6273	178125
	6	178125	7740	6012	170385
	7	170385	7740	5750	162645
	8	162645	7740	5489	154905
			30960	23524	
3	9	154905	7740	5228	147165
	10	147165	7740	4967	139425
	11	139425	7740	4706	131685
	12	131685	7740	4444	123945
			30960	19345	
4	13	123945	7740	4183	116205
	14	116205	7740	3922	108465
	15	108465	7740	3661	100725
	16	100725	7740	3399	92985
			30960	15165	

5	17	92985	7740	3138	85245
	18	85245	7740	2877	77505
	19	77505	7740	2616	69765
	20	69765	7740	2355	62025
			30960	10986	
6	21	62025	7740	2093	54285
	22	54285	7740	1832	46545
	23	46545	7740	1571	38805
	24	38805	7740	1310	31065
			30960	6806	
7	25	31065	7740	1087	23325
	26	23325	7740	816	15585
	27	15585	7740	545	7845
	28	7845	7845	275	0
			31065	2723	

INTEREST ON WORKING CAPITAL LOAN (@14%)								
	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year
Total Working Capital	171156	188272	207099	207099	207099	207099	207099	207099
Loan Amount	128400	141240	141240	141240	141240	141240	141240	141240
Interest	17976	21186	21186	21186	21186	21186	21186	21186

Project profile on wooden furniture

INTRODUCTION

Wooden furniture's are a symbol of Kerala tradition. They were used in kerala from 100s of years ago. This project is meant to setup a manufacturing unit of wooden furniture such as Chair, Coat, windows and door etc .The unit will undertake the job work also. The unit envisages manufacturing of wooden furniture on different designs out of quality wood like Teak, Anjili, Rose wood etc. But mainly on teak wood.

2.MARKET

As the furniture would not have any fixed brand or company name, therefore, there would be less competition. The demand of wooden furniture and wooden building materials is increasing as construction and housing industry expand. Attractive and genuine wooden furniture have good access in market. The demand for the furniture made up of woods is growing due to the increased standard of living of people and outlook. On occasions like wedding, it has become customary to gift wooden furniture like double bed, sofa, dressing table, dining table to the daughter. The finished products can also be sold through furniture

marts

3. MANUFACTURING PROCESS

The line of process is used for wooden furniture is made as per the measurements; shaping, bending & chiseling as per design; finishing touch with sand paper; finally apply varnish/paint/lamination; and furniture can be laminated using laminated sheet.

BASIS AND PRE ASSUMPTIONS

- 1.0 The production is based on a single shift basis of 8 hours per day and working days in a month
- 1.1 Laborer will be engaged on monthly basis keeping in view the present rate prevailing in the market
- 1.2 Land and buildings are rented.
- 4.The unit will get subsidy for the power requirement as it will get registered under MSME Act

4.FIXED CAPITAL

4.a Land & Building :- Rented building of 700 sq ft of rent @2000 per month.

b Machinery and Equipment

<u>SL No</u>	<u>Particular</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	15''combi max planner	1	75000	75000
2	3 HP Single phaseMotor	1	12000	12000
3	Blade Grinder with motor	1	21000	21000
4	Hand drill machine	1	24000	24000
5	Sander machine	1	28000	28000
6	Stand type drilling machine with motor	1	2000	2000
7	12'' planner	1	40000	40000
	Rixo(mini)	1	85000	85000
8	Leith	1	38000	38000
9	Cutter	1	15000	15000
10	Hand Tools & other small		25000	15000
11	equipments etc			
	TOTAL			355000/

4 c. furniture expenses

10000/

Power requirement for the unit 14.5 HP

5. WORKING CAPITAL

5 a. Raw material required for one month

Sl.No	Items	Qty	Rate	Amount
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1	Woods of different type	5Cum	25000	125000
2	Plane glass	3 No	1200	3600
3	Fevicol	25Kg	250	6250
4	Ply	200 sq ft	35	7000
5	Sun mica	200 sq ft	42	8400
	Total			150250

5 b. wages and salaries

Sl No	Designation	No	Rate	Amount
1	Workers	4	9000	36000
	Total			36000

5 c. Utilities and Contingencies/Month

1. Rent	-	Rs.2000/-
2. Power charges	-	Rs.1500/-
3. Miscellaneous	-	Rs.500/-
Total		- Rs 4000/-

6 Total Working Capital Requirement

1.	Raw materials for one month	- Rs.	150250/-
2.	Wages and salaries for one month	-Rs	36000/-
3.	Utilities and contingencies for one month	-Rs.	4000/-
	Total working capital requirement of the unit	-Rs	190250/-

7. TOTAL CAPITAL

1. Fixed Capital	-	Rs.	365000
2. Working Capital(3 months)	-	Rs.	570750/-
Total capital investment	-	Rs	935750/-

8. SOURCES OF FUNDS

1. Own Capital(20% of project cost)	-Rs	187150
2. composite Loan from bank	-Rs	748600

9. COST OF PRODUCTION PER ANNUM

1. Total recurring expenditure per annum		
a) Raw materials	-	Rs.1803000/-
b) Wages and Salaries	-Rs.	432000/-
c) Utilities and contingencies	-Rs.	48000/-
2. Depreciation of machinery @15%	-Rs	54750/-
3. Interest on bank loan @12%	-Rs	89832/-
Total	-	Rs.2427582/-

10. TURNOVER PER ANNUM

Sl.No	Items	Qty	Rate	Amount
1	Furniture: Coat	100	12000	1200000
2	Building material:1. Windows	70	7000	490000
	2.Doors	90	10000	900000
	3. Chairs	60	7000	420000
	Total			3010000

1.PROFITABILITY

11 a. NET PROFIT (BEFORE TAXATION)

1	TURNOVER	3010000
2	COST OF PRODUCTION	2427582
	Total (1-2)	582418

11.b NET PROFIT RATIO

$$\begin{aligned} \text{NET PROFIT * 100/TURN OVER PER YEAR} &= 582418 * 100 / 3010000 \\ &= \mathbf{19.34\%} \end{aligned}$$

11.c RATE OF RETURN ON TOTAL INVESTMENT

$$\begin{aligned} \text{NET PROFIT * 100 / TOTAL INVESTMENT} &= 582418 * 100 / 935750 \\ &= \mathbf{62.24\%} \end{aligned}$$

12.a FIXED COST

Rent	Rs: 24000/-
Total Depreciation[Machinery & furniture]	Rs: 54750/-
Interest on Total Investment	Rs: 89832/-
40 % of Salary & Wages[432000*12/ 40%]	Rs: 172800
40% of utilities & other contingent expenses[48000*12/ 40%]	Rs: 19200/-
Total:	Rs: 360582

12 b BREAK- EVEN ANALYSIS

$$\frac{\text{Fixed cost} \times 100}{\text{Fixed cost} + \text{Net Profit}} = \mathbf{38.23\%}$$

CAKES AND PASTRIES

INTRODUCTION

Shelf life of cakes & pastries is limited and thus local manufacturers enjoy distinct advantage. In spite of continuous increase in the consumption of these items during last few years, the per capita consumption is still very low compared to the advanced countries. Cakes & pastries are sweet wheat preparations usually made with beaten eggs and yeast as they act as aerating agents. These are, thus, concentrated foods of high caloric value with rich in fat. There are many varieties and flavors of cakes & pastries.

MARKET DEMAND

Changing lifestyles and increase in the standard of living have changed the eating habits of people with liking for instant or ready-to-eat food items. This trend has spread throughout the country in all age groups and now even people from the rural areas have also joined this band-wagon.

PRODUCTION TARGETS

Basis of estimation : 300 working days in a year

single shift

8 hours per shift

Cakes and Pastry

Quantity	60 Tones
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Value	1,02,00,000
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MANUFACTURING PROCESS

It is standardized and simple for all products. To make cakes, wheat flour and baking powder along with cream, sugar and ghee is mixed thoroughly till it becomes fluffy. Then mixture of beaten eggs is added to it along with caramel color and chopped fruits before the mixture is poured into cake pans and baked for around 30-40 minutes. Pastries are made in different shapes like square, rectangular etc. From thick cake sheets. Butter cream, jam etc. are placed between layers of cake. The layered cake is then chilled and cut with sharp knife in the required shape and size. Sides of the pieces are iced with butter cream or fudge and topped with finely ground cake crumbs or pieces of fruits or chocolate strips and decorated with proper design, color and garnish.

There are no standard flavors or varieties and preference of local population has to be kept in mind. There is a very good scope to introduce new varieties palatable to local tastes.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. food safety quality standards is essential.

LAND & BUILDING

Covered area (200 Sq. meters) rented building is @ 5,000/- per month

MACHINERY AND EQUIPMENT

SI. No.	Description	Quantity	Rate	Amount
1	Flour Sifter	1	20,000	20,000
2	Egg Beater	1	10,000	10,000
3	Cake Mixer	1	30,000	30,000
4	Sugar Pulveriser- 10 Kgs Capacity	1	15,000	15,000
5	Electrically-operated Oven with 48 Trays	1	2,00,000	2,00,000
6	Baking Pans and Moulds		25,000	25,000
7	SS utensils, plastic tubs, mixing vessels, weighing scales etc		40,000	40,000
8	Office equipments and furniture		50,000	50,000
9	Electrification and installation of machinery		10,000	10,000
10	Pre operative and installation expenses		50,000	50,000
TOTAL				4,50,000/-

RAW MATERIALS PER MONTH

Raw materials : Rs 5,80,000

STAFF AND LABOUR PER MONTH

Staff and Labour : Rs.1,08,100

OTHER EXPENSES PER MONTH

1	Utilities	10,000
2	Other contingent expenses	14,000

WORKING CAPITAL (PER MONTH)

SI.No.	Descriptions	Amount (Rs.)
1	Raw materials	5,80,000
2	Staff and labour	1,08,100
3	Utilities	10,000
4	Other contingent expenses	14,000
	Total	7,12,100

TOTAL CAPITAL INVESTMENT

SI.No.	Description	Amount
1	Fixed capital	4,50,000
2	Working capital for 1 month	7,12,100

Total : 11,62,100/-

COST OF PRODUCTION (PER YEAR)

SI.No.	Description	Amount
1	Total recurring cost	85,45,200
2	Depreciation on machinery and equipments	67,500
3	Interest on Total capital investment@10%	1,16,210
4		

Total : 87,28,910/-

SALES PROCEEDS (PER YEAR)

SI.No.	Items	Quantity	Rate (Avg)	Amount
1	Cake and Pastry	60 Tones	1,70,000/-	1,02,00,000

PROFITABILITY BEFORE INCOME TAX

SI.No.	Item	Amount
1	Annual Gross Profit	14,71,090
2	Percentage of Profit on Sales	14.42%
3	Break-even analysis	
3.1	Annual Fixed Cost	15,85,200
3.2	Annual Sales	1,02,00,000
3.3	Annual Variable Cost	69,60,000

Break-even point =48.92%

SUPPLIERS OF MACHINERY

- 1 George Engineering, Muringoor, Ernakulam ,Kerala- 680316
- 2 Geetham Agencies17, New Scheme Road, Opposite Kaikadai Bus Stop, P. N. Palayam Coimbatore - 641037, Tamil Nadu
- 3 Shri Chamundi Baking Equipments Door No 252,Perumal Kovil Street, Annalagraharam Post, Sakkottai S.O., Kumbakonam – 612 401,Tamilnadu,
- 4 Arun Rega Bakery Machinerics (Pvt) Limited ,S.F. No. 213, Site No. 4, Sitra Kalapatti Road, Kalapatti Post, Coimbatore - 641048, Tamil Nadu

SUPPLIERS OF RAWMATERIALS

Rawmaterials are locally available.

IMPLEMENTATION PERIOD

Proposed project can commence production within 6 to 8 weeks after sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1	Number of working days in a year	300 days
2	Number of shifts in a day	1 (One)
3	Hours in a shift	8 hours
4	Plant capacity	Consider of average production capacities of plant
5	Raw-material estimates	Based upon product mix
6	Raw-material availability	Locally available
7	Depreciation	Straight line method
8	Manpower	According to project Requirement
9	Rent estimate	On the basis of current market prize of the area
10	Potential area of marketing the products	Domestic buyers
11	If project is funded, term loan would be	60-80% of Total investment
12	Moratorium period	6-12 months
13	Repayment period	5-7 years
14	Project may be established under	PMEGP(GIO)/Self Employment Scheme

BANANA CHIPS

INTRODUCTION

Banana is one of the most important fruits in Kerala. Banana contains about 20% sugar and reasonable amount of Vitamins A, B and C. This is considered to be a rich source of energy producing food. It is consumed in several forms and preparations and amongst which Banana chips is considered to be the most important item.

MARKET DEMAND

The popularity of snack foods is growing fast day-by-day and banana chips have emerged as a potential snack food. Chips prepared out of banana using pure coconut oil is very delicious and people of all age groups love it a lot. A number of organized as well as unorganized groups are already there catering to the needs of tea stalls, restaurants, railway stations, tourist places etc. Still there is a huge demand to be met for these products in interior and remote places in different parts of the country.

MANUFACTURING PROCESS

Firm bananas are washed, peeled and sliced. The bananas thus prepared are then dipped in brine water to avoid oxidation. Turmeric powder is used to improve colour and taste. The banana chips are fried in coconut oil and cooled down to the room temperature. These are then packed in polythene bags of suitable sizes to prevent spoilage.

PRODUCTION TARGETS

Fried chips per annum : 15000 kg/year; Value : Rs. 3000000/-

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND AND BUILDING

100 Sq.feet rented @ Rs.5000/- per month

MACHINERY AND EQUIPMENT

Plant & machinery : Rs.1,17,000

RAW-MATERIAL PER MONTH

Raw-materials : Rs.1,49,900

STAFF & LABOUR PER MONTH

Staff and labour : Rs. 41,400

OTHER EXPENSES

Power & Fuel charges :Rs. 20,000

WORKING CAPITAL FOR 1 MONTH

1.	Raw material	1,49,900
2.	Staff and labour	41,400

3.	Other expenses	20,000
	Total working capital/month	211300

Working capital (for 3 months): $211300 \times 3 = 633900$

TOTAL CAPITAL INVESTMENT

1	Fixed capital	117000
2	Working capital for 3 months	633900
	Total	750900

COST OF PRODUCTION

1	Total recurring cost	2535600
2	Depreciation on machinery, tools and furniture	20000
3	Interest on capital investment	105126
4	Total	2660726

SALES PROCEEDS PER ANNUM

Fried banana chips 15000 kg/year @ Rs.200/kg=Rs.30,00,000/-

PROFITABILITY BEFORE INCOME TAX

1	Annual Gross Profit	339274
	% Profit on Sales	11.3%
2	COST OF PRODUCTION	2660726
	Total (1-2)	339274

BREAK-EVEN ANALYSIS

FIXED COST

Sl. No.	Description	Amount(in Rs.)
1	Rent for one year	60000
2	Total depreciation	20000
3	Interest on total investment	105126
4	40% of salary and wages	198720
5	40% of utilities and other contingency expenses	96000

	Total	479846
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$$\text{BEP} = \frac{\text{FIXED COST} * 100}{(\text{FIXED COST} + \text{NET PROFIT})} = \frac{479846 * 100}{819120} = 58.58\%$$

SUPPLIERS OF MACHINERY AND EQUIPMENT

1. Best Engineering Technologies, Hyderabad
2. Rehan Engineering, Mumbai, Maharashtra

RAW MATERIAL SUPPLIERS

Locally available in the market

IMPLEMENTATION PERIOD

Proposed project can commence production within 6 to 8 weeks after sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1	Number of working days in a year	300 days
2	Number of shifts in a day	1 (One)
3	Hours in a shift	8 hours
4	Plant capacity	Consider of average production capacities of plant
5	Raw-material estimates	Based upon product mix
6	Raw-material availability	Locally available
7	Depreciation	Straight line method
8	Manpower	According to project Requirement
9	Rent estimate	On the basis of current market prize of the area
10	Potential area of marketing the products	Domestic buyers
11	If project is funded, term loan would be	60-80% of Total investment
12	Moratorium period	6-12 months
13	Repayment period	5-7 years
14	Project may be established under	PMEGP(GIO)/Self Employment Scheme

NOODLES

INTRODUCTION

Noodles are long thread ready to eat food item made of Tapioca powder and Maida. Being a convenient food item, noodles are popular in Urban Centers and Metros.

MARKET DEMAND

Noodles a ready to eat food item is very popular in the advanced countries, demand of this product is very much in our nation also. Due to improving standard of living in the cities and the rapid urbanization taking place in the rural areas, consumption of these products is widely expected to go up steadily.

PRODUCTION TARGETS

Bases of estimation : 300 working days
No. of shift : 1 No.
Duration of shift : 8 hours

Quantity	270 MT
Value	Rs. 81,00,000/-

MANUFACTURING PROCESS

Maida, Starch powder and Soda bi-carbonate are blended in a dry mix into dough. Then transferred into a Noodle making machine where the Noodle is extruded. The extruded dough is cut to required length, exposed to steam and dried. Then the finished item may be packed in moisture proof packets.

QUALITY CONTROL STANDARDS:

The Bureau of Indian Standards has laid down the following specifications for Noodles:

Makaroni, Spaghetti , Vermicelli, and Egg Noodles (2nd Revision) - IS 1485 : 1993 .The details of specification can be obtained from the Bureau of Indian Standards, Manak Bhawan, 9, Bahadur Shah Zafar Marg , New Delhi-110 002. The ISO 22000 and HACCP standards promises a team work which may guide the entrepreneurs towards fulfillment of a commitment for quality of products.

LAND & BUILDING

Land and Building (rented)
On Rent @ Rs.50 /-Sq. meter
Covered Area 200 Sq. meter 10,000/- Month

MACHINERY AND EQUIPMENTS

Total Cost of Machinery & Equipments : Rs 15,00,000/-

RAW MATERIAL (PER MONTH)

Wheat flour, maida, sugar etc. : Rs 4,11,500/

STAFF AND LABOUR (PER MONTH)

Skilled, unskilled, office staff : Rs 68,500/-

OTHER EXPENSES PER MONTH

Power charges, postage, stationery etc . : Rs 50,000/-

WORKING CAPITAL FOR ONE MONTH : RS 5,30,000/-

TOTAL CAPITAL INVESTMENT

Land	Rented
Building	Rented
Machinery and equipments	Rs 15,00,000/-
Working Capital for three months	Rs 15,90,000/-
Total	Rs 20,30,000/-

COST OF PRODUCTION PER ANNUM(IN RS.)

Total Recurring Cost per year : 63,60,000/-
Depreciation on Machinery & Equipment @ 10% : 1,38,500/-
Depreciation on Office Equipments & furniture @ 20% : 4,000/-
Interest on Total Capital Investment @ 12 % : 3,70,800/-

TOTAL : RS. 68,73,300/-

SALES PROCEEDS PER ANNUM (IN RS.):

Item	Nos	Rate	Value
Noodles Pouch 200 Gm	1350000	6/-	81,00,000/-

PROFITABILITY (BEFORE INCOME TAX)

Annual Gross Profit : Rs. 12,26,700/-
% of Profit on sales : 15.14%

BREAK EVEN ANALYSIS:

Annual Fixed cost : Rs .14,22,000/-
Annula Sales : Rs. 81,00,000/-
Annual Variable Cost : Rs.49,38,000
Break Even Point : 44.97%

SUPPLIERS OF MACHINERY

- M/s. Jogindra Engg Works Pvt. Ltd. (For Pasta/ Noodle Producing Machine) 70, Rama Road, New Delhi-110 015.
- M/s. Vinod Industries, Lal Kua, Chwadi Bajar, Delhi
- M/s. Modern Packaging System,3A , Garstin Place, 7th Floor, Kolkata-700 001
- M/s. Hyderabad Tulaman Limited, 9-1-87, Sarojini Devi Road, Secunderabad-500 025.Tel: 7701369, Telex & Fax: 7702845.
- M/s. Kalpana Boilers,18, Kailash Park, Chirag Nager, L.B.Shastrri Marg, Chatkopar (W), Mumbai-36.
- M/s. Urjex Industries, S-26, Indl. Estate, Partapur, Meerut-250102(UP).
- M/s.Aroras Box & Cartons Pvt Ltd. 39th K.M. , Delhi-Jaipur Road (N.H.No.8), Gurgaon - 122001(Har)
- M/s.Jain Packaing Products 33,Sarai Pipal Thala, Behind Mangat Ram Dal Mill, Subzi Mandi ,Azadpur, Delhi-110033
- M/s.Ambica Packers & Printers 2687,Kinari Bazar, Dariba Kalan, Delhi-110 006
- M/s.Control Print (India) Ltd., A-27, Swasthya Vihar, Vikas Marg, Delhi-110 092
- M/s.Asian Packaging Machinery, 1/1142, Baba Nagar, Old Faridabad, Haryana.
- Fine Organic Industries, Fine House, Anandji Street, Opp. M. G. Road, Ghatkopar (E), Mumbai-77

SUPPLIERS OF RAW MATERIALS

Available from other states like Tamilnadu, Andra Pradesh, Maharashtra, Punjab etc

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

- | | | |
|-----|--|--|
| 1. | Number of working days in a year | : 300 days |
| 2. | Number of shifts in a day | : 1 (One) |
| 3. | Hours in a shift | : 8 hours |
| 4. | Plant capacity | : Consider average production capacities |
| 5. | Raw-material estimates | : Based upon product mix |
| 6. | Raw-material availability | : Available from States like Tamilnadu, Andra Pradesh, Maharashtra, Punjab etc |
| 7. | Depreciation | : Straight line method |
| 8. | Manpower | : According to project Requirement |
| 9. | Rent estimate | : On the basis of current market prize |
| 10. | Potential area of marketing | : International & Internal Market |
| 11. | If project is funded, term loan would be | : 60-80% of Total investment |
| 12. | Moratorium period | : 6-12 months |
| 13. | Repayment period | : 5-7 years |
| 14. | Project may be established | : under CGTMSE/ Self Employment |

FISH PICKLE

INTRODUCTION

Fish has limited shelf life and they need to be preserved just like many other food commodities. Pickling of fish is one such method for preservation. Like any other pickle, fish pickles are also excellent table enrichers but are limited to non-vegetarians. Fish/Prawn pickle, when carefully prepared under most hygienic conditions with addition of required quantity of salt, preservatives and spices will have generally an average shelf life of one year.

MARKET DEMAND

Like vegetable pickles, fish pickle has also gained popularity in the recent past. The demand for these types of ready-to serve fishery products is increasing day by day among the non-vegetarian population in our country. The Defence Purchase Department of the Government of India also requires a sizeable quantity of processed fish products for supplying to the various Departmental Canteens and Officers Mess Establishments. There is a good demand for fish/prawn pickle in foreign countries also.

PRODUCTION TARGETS

Bases of estimation	:	300 working days
No. of shift	:	1 No.
Duration of shift	:	8 hours

Quantity	19200 kg
Value	Rs. 76.8 lakh

MANUFACTURING PROCESS

Fish is cut into pieces and cleaned with potable water. The cleaned pieces are mixed with small quantities of salt, chilli powder, turmeric and kept for 2 hours. The pieces are fried in oil till these are brown in colour. Onion, garlic and ginger is ground well into paste and fried till it is light brown in colour. Add vinegar and make the mixture soft. Add balance quantity of salt, chilly powder and turmeric powder to the mixture and heat it till the whole vinegar is absorbed in the fish. After removing from the fire add ground spices, cool and add required quantity of preservatives. They are then packed in bottles. More hot oil can be added to cover the pieces. The bottles are then sealed air tight

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. food safety quality standards is essential.

LAND AND BUILDING

Land details	
Land	: Rented
Building details 1000 sq.feet	: Rented

MACHINERY AND EQUIPMENT

Machinery and equipments	:	Rs.464750
Pre operative expense	:	Rs.10000/-
Total	:	Rs.474750/-

RAW MATERIALS PER MONTH

Raw materials	:	Rs. 450000
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STAFF AND LABOUR PER MONTH

Staff and labour : Rs. 46500

OTHER EXPENSES PER MONTH

Electricity 900 units @ Rs. 5 per unit	4500
Others	13500
Total	18000

WORKING CAPITAL PER MONTH

1.	Raw material	4,50,000
2.	Staff and labour	46,500
3.	Other expenses	18,000
	Total working capital/month	5,14,500

TOTAL CAPITAL INVESTMENT

		Amount (In Rs.)
i)	Fixed capital	: 474750
ii)	Working capital	: 514500
	Total	: 989250

COST OF PRODUCTION PER ANNUM

Sl.No.	Items	Rupees
1	Total recurring expenses	6174000
2	Depreciation on machinery @ 15%	69713
3	Interest on Total Investment@10%	98925
	Total	63,42,638

SALES PROCEEDS PER ANNUM

19200 Kg @ Rs 400 per Kg = 76.8 Lakhs

PROFITABILITY BEFORE INCOME TAX

1	Annual Gross Profit	13.38 lakhs
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2	% Profit on Sales	17.42%
3	Break-even analysis	
3.1	Annual fixed cost	7.74 lakhs
3.2	Annual Sales	76.8 lakhs
3.3	Annual Variable cost	54 lakhs

Break-even Point

BEP = 33.94 %

ADDRESSES OF MACHINERY SUPPLIERS

1. M/s. Gardners Corporation 6, Doctors Lane, New Delhi - 110 001.
2. M/s. T. Ali Mohammad and Co.144-146 Sarang Street, Mumbai.
3. M/s. Bhuvaneshwari and Co., No. 36, 28th Cross, 10th Main, 2nd Stage, Bangalore - 10.

ADDRESSES OF RAW MATERIAL SUPPLIERS

Raw materials are locally available

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Locally available
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under CGTMSE/ Self Employment

AMLA NUTRI DRINK

INTRODUCTION

Indian gooseberry (amla) is a fruit which is seen in plenty in India and have huge medicinal and health values. Researches reveal that amla can treat digestive disorders, diabetes, conjunctivitis, skin problems and weight disorders. It also can reduce blood cholesterol and strengthen heart muscles. Amla has antibacterial and antimicrobial capabilities. Amla have high contents of vitamin C and iron making it a highly nutritious drink. In this project envisages putting forward a drink made out of amla, honey, ginger and lemon. The combination makes the drink sweet and tasty.

MARKET DEMAND

The drink has all the potential to be a market success all over India and abroad.

PRODUCTION TARGETS

Bases of estimation	:	300 working days
No. of shift	:	1 No.
Duration of shift	:	8 hours

Quantity	150000 bottles
Value	37,50,000

MANUFACTURING PROCESS

Gooseberries are properly washed and crushed in juice extractor. The juice extracted is bottled with added preservatives.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. food safety quality standards is essential.

LAND AND BUILDING

On Rent : Rs.12000 Rs per month

MACHINERY & EQUIPMENTS

Juice Extracter	1,50,000
Pasturiser machine	3,00,000
Bottling Machine	4,00,000
Bottles (750 bottles at 10 rupees rate)	75000
Motor Vehicle for distribution	1,80,000
Bottle Baskets(50 numbers at 1000 rupees)	50,000
Washing Tank	50,000
Mixer tank	50,000
Total Expenditure	12,55,000

RAW MATERIAL PER MONTH

1	Amla	93750
2	Lime	10,000
3	Honey	12500
4	Ginger	10000
	Total	1,26,250

STAFF AND LABOUR PER MONTH

Unskilled workers	4	6000/month/worker
Sales manager	1	10000/month
Total wages		34000/month

OTHER EXPENSES PER MONTHS

Rent	12000
Advertisement	5000
Telephone	500
Power (3 1hp motors running 8 hours for 25 days)	500
Transport	26000
Storage	5000
Insurance	5000
Miscellaneous	5000
Postage	500
Water	1000
Total	60,500

WORKING CAPITAL PER MONTH

S.No	Description	Amount
1	Raw material	1,26,250
2	Salary	34,000

3	Other expenses	60,500
	Total	2,20,750

TOTAL CAPITAL INVESTMENT

Fixed assets	:	12,55,000
Working Capital (1 month)	:	2,20,750
Total	:	14,75,750

COST OF PRODUCTION

Recurring Cost	:	26,49,000
Interest on total investment@10%	:	1,47,575
Depreciation	:	1,88,250
Total	:	29,84,825

SALES PROCEEDS PER ANNUM

Turnover (500 bottles per day at 25 rupees value)	:	37,50,000
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PROFITABILITY BEFORE INCOME TAX

1	Annual Gross Profit	7,65,175
2	% of profit on sales	20.4%
3	Break-even analysis	
3.1	Annual fixed cost	11,34,000
3.2	Annual Sales	37,50,000
3.3	Annual Variable Cost	15,15,000

BREAK-EVEN POINT = 50.73%

SUPPLIERS OF MACHINERY

- M/s Parekh Machine Tools, 5, Khetra Das Lane, Kolkata –700012.
- M/s Bismillah Machineries Co. Pvt. Ltd., 7A, K.S. Ray Road, P.P.S. Business Centre, 2nd Floor, Kolkata-700001.
- M/s Bharat Industrial Corp., Petit Compound, Mana Chowk, Grant Road, Mumbai-400001.
- M/s Do-Well Oil Plant Pvt. Ltd., 306, Manish Commercial Centre, Dr. Annie Basant Road, Worli, Mumbai-400025.
- M/s Alfa Tamil (India) Ltd., Mumbai-Pune Road, Dapoli, Pune-411012. (Maharashtra)
- M/s Chemi Filter Corporation, Shop No. 3, Aranti Apartments, Laxman Mhatre Road, Navagaon, Dahisar (West), Mumbai-400068.

SUPPLIERS OF RAW MATERIALS

Available locally.

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Available locally
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under CGTMSE/ Self Employment

PAPAD MANUFACTURING

INTRODUCTION:

Papad is delicious snack. It is consumed at homes, restaurants, hotels, etc. Papad is a traditional item consumed in all functions and all places.

MARKET DEMAND:

Papad is a popular and tasty food item in the Indian diet since many centuries. Market for papad is steadily growing across the country. There are not much seasonal fluctuations but demand generally goes up by 10% to 15% during winter season. There are a couple of national brands but the market is predominantly controlled by the local brands. Prospects for a new entrant are bright, provided quality is good and prices are competitive. It can be sold through many outlets of provision and departmental stores.

PRODUCTION CAPACITY:

	PAPAD
Quantity	36 Tones
Value	2,880,000

The production capacity of the plant is 36 Tonnes Per Annum calculated on the basis of 300 working days based on single shift basis in a year.

MANUFACTURING PROCESS:

A Papad can be manufactured from different varieties of pulses or there could be a combination of pulses as well. Generally weighed quantity of flour is taken in a mixer. Adequate quantity of water is added in flour of, common salt, spices and sodium bicarbonate and homogenous mixing is done to obtain dough. After about 30 minutes, small balls weighing around 7-8 grams of dough are made. These balls are then placed in papad making machine or papad press wherein these balls are pressed and circular papads are made as per the size of mould. These papads are then sun-dried or in a drier. Lots of 10, 25 or 50 papads are then packed in polythene bags.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND & BUILDING

4 cent	:	1,20,000
Building (Workshed and office)	:	1,60,000

MACHINERY AND EQUIPMENTS

S.No	Item with brief Description	Price
1	Papad making machine with conveyor and motor	3,25,000
2	Kneeding Machine	75,000
3	Drier with trolley and 48 trays with heating element	50,000
4	Electrification, Installation and other expenses	50,000
Total Cost of Machinery & Equipments		5,00,000

RAW MATERIAL (PER MONTH)

Black Gram Flour/Flour of pulses etc. : Rs 1,85,000/

STAFF AND LABOUR (PER MONTH)

Skilled, unskilled, office staff : Rs 45,000/-

OTHER EXPENSES PER MONTH

Power charges, postage, stationery etc . : Rs 20,000/-

WORKING CAPITAL(IN RS.) :

Particulars	Amount
(a) Raw materials	1,85,000
(b) Staff and Labour	45,000
(d) Utilities and other contingencies	20,000
Total	2,50,000

TOTAL CAPITAL INVESTMENT

Land	Rented
Land & Building	Rs 2,80,000
Machinery and equipments	Rs 5,00,000/-
Working Capital	Rs 2,50,000/-
Total	Rs 10,30,000/-

COST OF PRODUCTION PER YEAR(IN RS.) :

1.	Total recurring expenditure	:	30,00,000
2.	Depreciation on Building at 5%	:	8,000
3.	Depreciation on machinery and equipment 10%	:	5,000
4.	Interest on Total capital Investment @ 10%.....	:	1,03,000
	Total	:	31,16,000

SALES PROCEEDS PER ANNUM (IN RS.):

SI No.	Products	Qty in Kg	Selling Price per Kg	Value
1	Papad	36,000	100	36,00,000
Total				36,00,000

PROFITABILITY BEFORE INCOME TAX

SI.No.	Item	Amount
1	Annual Gross Profit	4,84,000
2	Percentage of Profit on Sales	13.44%
3	Break-even analysis	
3.1	Annual Fixed Cost	4,28,000
3.2	Annual Sales	36,00,000
3.3	Annual Variable Cost	26,88,000

Break-even point = 46.92%

MANUFACTURES/ SUPPLIERS OF MACHINERY:

1. Shreenithi Engineering Works, 32, Nethaji Nagar, Sanganoor, Mattupalayam Road, Coimbatore
2. Real tech Engg, No. 7/53, Balaji Estate, 3A, Kondayampalyam Road Saravanampatti, Coimbatore
3. Heavy Engineering and Fabricators, Opp. Lotus Eye Hospital, 181, Avanashi Road, Coimbatore

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Locally available
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under PMEGP/ Self Employment/CGTMSE

TOMATO SAUCE

INTRODUCTION

Tomato is one of most popular vegetables used for human consumption. Apart from their use in food preparations, tomato products like sauces, ketchups etc are used as table enricher. These products are consumed by people of all age groups and demand is going up.

MARKET DEMAND

Tomatoes are available during the season at cheaper rates and prices start shooting up during off-season. These products are witnessing increase in demand year after year. They have already become popular in urban and semi-urban areas and are now making in-roads in rural markets as well. Thus, there is a good scope for these products especially in semi-urban and rural areas.

MANUFACTURING PROCESS

Ripe and matured tomatoes are washed and graded. The graded tomatoes are then boiled in steam kettles. The boiled tomatoes are then pulped and the juice is filtered out from seeds, fiber and solid waste. Spices and condiments like ginger, garlic, clove, pepper, salt, sugar, vinegar etc are added. Allowed preservatives are added to the sauce pulp. The sauce is quickly cooled and allowed to solidify into a thick pulpy sauce. The sauce is then packed in sterilized bottles and pouches, sealed and stored for sale. The recovery of juice varies depending on the quality and variety of tomato.

PRODUCTION TARGETS

Bases of estimation	:	300 working days
No. of shift	:	1 No.
Duration of shift	:	8 hours

Product	Per Annum (Kg)	Value (Rs)
TOMATO SAUCE	30000	28,50,000

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND AND BUILDING

Land and building has been acquired monthly Rent of Rs 10000.

MACHINERY AND EQUIPMENTS

SI.No	Items	Amount in Rs.
1	Pulper	60,000
2	Stirrers	20,000
3	Steam Jacketed Kettles	40,000

4	Precision Weighing Scale	10,000
5	Containers & vessels	20,000
6	Furnitures	20,000
7	Desktop computer	30,000
Total Fixed Capital		200,000

RAW-MATERIAL PER MONTH

Particulars	Amount Rs.
Tomato and other ingredient	82500
Packing Raw Material	25000

TOTAL = 107500/-

STAFF & LABOUR PER MONTH

Sl. No	Profession	Nos.	Salary In Rs.
1	Manager	1	15000
2	Sales Person	2	24000
3	Skilled workers	1	10000
4	Semi Skilled Workers	1	8000
Total			57,000

UTILITIES AND OTHER EXPENSES (RS.)

Power ,Water ,Telephone Charges and other Miscellaneous expenses	19,500
Rent	10000
Total	29,500

WORKING CAPITAL

Particulars	Amount Rs.
Tomato and other ingredient	82,500
Packing Raw Material	25,000
Salaries	57,000
Utilities and other expenses	29,500
Total Working Capital	1,94,000

TOTAL PROJECT COST (RS.)

1	Fixed Capital	200,000
2	Working Capital (3 month)	582,000
Total Project Cost		7,82,000

COST OF PRODUCTION PER YEAR

Total recurring cost	2328000
Depreciation on machinery @10%	18000
Depreciation on furniture @20%	4000
Interest on Capital investment@11.25%	87975
Total Cost of Production	24,37,975

SALES PROCEEDS PER ANNUM

Item Name	Quantity (kg)	Rate/kg (Rs)	Value (Rs)
Tomato sauce	30,000	95	28,50,000

PROFITABILITY (BEFORE INCOME TAX)

Annual Gross Profit	:	Rs.4, 12,025/-
% of Profit on sales	:	14.45%

BREAK EVEN ANALYSIS:

Annual Fixed cost	:	Rs . 5,95,375/-
Annual Sales	:	Rs. 28,50,000/-
Annual Variable Cost	:	Rs.18,42,600
Break Even Point	:	59.10%

ADDRESSES OF MACHINERY AND EQUIPMENT SUPPLIES

1. M/s Ganesh Engineering works Coimbatore, Tamilnadu.
2. M/s Precision Weighing Technology Pvt Ltd , Coimbatore, Tamilnadu.
3. M/s Patel Industries Bangalore , Karnataka.

RAW MATERIAL SUPPLIERS

1. Local Vegetable Markets
2. M/s Polytech plastic industries , Coimbatore, Tamilnadu.

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Locally available
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under PMEGP/ Self Employment/CGTMSE

CANNED JACKFRUIT

INTRODUCTION:

The jackfruit is a species of tree in the Artocarpus genus of the mulberry family. The flesh of the jackfruit is starchy and fibrous and is a source of dietary fiber. The flavor is comparable to a combination of apple, pineapple, mango and banana. In Kerala, two varieties of jackfruit predominate: varikka and koozha. Varikka has a slightly hard inner flesh when ripe, while the inner flesh of the ripe koozha fruit is very soft and almost dissolving. A sweet preparation called chakkavarattiyathu (jackfruit jam) is made by seasoning pieces of varikka fruit flesh in jaggery, which can be preserved and used for many months. It is also the state fruit of the state of Kerala.

MARKET DEMAND

Jackfruit is grown on 9.5 lakh hectares in the Kerala State. About 350 million jackfruits are produced every year. There is a prospective market for these products in India as well as outside the country. It is also learnt that there is a good export market potential for these items especially in Middle East countries.

PRODUCTION TARGETS

Bases of estimation	:	300 working days
No. of shift	:	1 No.
Duration of shift	:	8 hours

Quantity	1 lakh Canned Jackfruit Bottles (50 Tonnes) per year
Value	Rs. 75, 00,000/-

MANUFACTURING PROCESS

The crisp bulbs of the ripe Jackfruit are used for canning in Sugar syrup. Yield of bulbs varies from 20 to 30 per cent depending on the variety of fruit. After cutting the fruit in several pieces, the bulbs are removed manually. As the fruit contains highly sticky latex, small quantity of vegetable oil is applied on hands and then seeds are removed from bulbs. These bulbs are canned with a small quantity of citric acid as the pH value of this fruit is very high.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND AND BUILDING

Land and Building rented at @Rs.10000 per month

MACHINERY AND EQUIPMENT

Machinery and equipments	:	Rs. 16,28,500
Pre operative expense	:	Rs. 75,000
Total	:	Rs. 17,03,500/-

RAW MATERIALS PER MONTH

Raw materials : Rs. 416000

STAFF AND LABOUR PER MONTH

Staff and labour : Rs. 68500

OTHER EXPENSES PER MONTH

Other expenses including rent and utilities (per month) is 50200

TOTAL WORKING CAPITAL PER MONTH

Raw Material (Per Month)	416000
Staff & Labour (Per Month)	68500
OTHER EXPENSES Including Rent and Utilities (PER MONTH)	50200
Total	534700

TOTAL CAPITAL INVESTMENT(RS.)

Machinery & Equipment	1703500
Working capital for one month	534700
Total	2238200

COST OF PRODUCTION (PER ANNUM) (RS.)

Total recurring cost per year	6416400
Depreciation on Plant, Machinery & Equipment @ 10%	170350
Interest on total investment @ 14%	313348
Total	69,00,098

SALES PROCEEDS (PER ANNUM)

S.No	Item	Qty (No.s)	Value
1	Canned Jackfruit (500 gm @ Rs. 75)	1,00,000	75,00,000

PROFITABILITY BEFORE INCOME TAX

1	Annual Gross Profit	5, 99,902
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2	% Profit on Sales	8%
3	Break-even analysis	
3.1	Annual fixed cost	5,31,178
3.2	Annual Sales	75,00,000
3.3	Annual Variable cost	63,70,000

Break-even Point

BEP = 47 %

MANUFACTURERS/SUPPLIERS OF MACHINERY

- M/s. Bajaj Process pack Maschinen Private Limited 7/27, Jai Lakshmi industrial Estate, Site – IV, Sahibabad Industrial Area, Ghaziabad – 201001, U.P.
- M/s. Batliboi and Company Ltd., P.B. No. 3066, Old Railway Station Road, Kochi – 682 018.
- M/s. B. Sen Barry and Co., 65/11, New Rohtak Road, Karol Bagh, New Delhi-110005.
- M/s. Raylons Metal Works, P.O. Box No. 17426, JB Nagar, Andheri (E), Mumbai - 400059.

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Locally available
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under CGTMSE/ Self Employment

MUSHROOM PRODUCTS

INTRODUCTION

Mushrooms contain some of the most potent natural medicines on the planet About 100 species of mushrooms are being studied for their health-promoting benefits. Mushrooms are known to concentrate heavy metals, as well as air and water pollutants, so healthy growing conditions is a critical factor

MARKET DEMAND

Mushrooms are processed and produced and consumed in many countries on a large scale. The global mushroom market is primarily driven by the increasing demand for the organic products. Mushrooms are highly popular in Asian countries such as china and Japan. As a market in India and Kerala is a replica of global market, processed mushroom products have good market now and future.

PRODUCTION TARGETS

Bases of estimation : 300 working days
No. of shift : 1 No.
Duration of shift : 8 hours

Quantity	16800 kg
Value	Rs. 26.88 lakh

MANUFACTURING PROCESS

White button mushrooms (*Agaricus bisporus*) are preferred over other types of mushrooms.

The process involves the following steps:

Picking: Mushrooms are picked at button stage (cap. diameter 2-2.5 cm) by gentle hand twisting. The soil and portion carrying any microbial flora is then cut off/removed with the help of a sharp edge stainless steel knife/blade. The stalk length should preferably be kept 0.5-1 cm. long

Sorting and Grading: Diseased, damaged/bruised, shrivelled and browned mushrooms are discarded and only the healthy white and tight buttons are selected and separated

Washing: Graded mushrooms are thoroughly washed 3-4 times in cold running water to remove adhering dirt, soil, etc. without damaging or rubbing them excessively

Filling of box: Mushrooms are commercially packed in plastic box.

Cooling: Cooling of these box is done immediately after sterilization in cold running water to room temperature in order to give an abrupt shock to the Micro-organisms to get rid of their adverse activities.

Labelling and Storage: These boxes are labelled and put it in cooling fridge again

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND AND BUILDING

Land Leased and Building constructed. 750 sq.ft. Building constructed with a total cost of 5 Lakh

MACHINERY AND EQUIPMENT

Machinery and equipments : Rs. 4,62,339

RAW MATERIALS PER MONTH

Raw materials : Rs. 1,16,000

STAFF AND LABOUR PER MONTH

Staff and labour : Rs. 46,800

WORKING CAPITAL (FOR ONE MONTH):

SL.NO.	DESCRIPTION	AMOUNT (RS)
1	Raw material	1,16,000
2	Salaries & Wages	46,800
3	Other Expenses	6,000
	Total	1,68,800

Working capital for 3 months $168800 \times 3 = 5,06,400$ /-

TOTAL CAPITAL INVESTMENT(in Rs).

Land& Building	5,00,000
Machinery & Equipment	4,62,339
Working capital for 3 month	5,06,400
Total	14,68,739

COST OF PRODUCTION PER ANNUM(IN RS.)

Total recurring cost per year	20,16,000/-
Depreciation on machinery & Equipment (@ 10%)	46,234/-
Depreciation on Building (@ 5 %)	25,000/-
Interest on total investment (@ 14%)	2,05,623/-

Grand Total:	22,92,857/-
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SALES PROCEEDS (PER ANNUM):

Total sale	Rs 16.00 * 168000 Nos = 26,88,000/-
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PROFITABILITY (BEFORE INCOME TAX)

Annual Gross Profit	:	Rs. 3,95,143/-
% of Profit on sales	:	14.7%

BREAK EVEN ANALYSIS:

Annual Fixed cost	:	Rs . 5,30,297/-
Annula Sales	:	Rs. 26,88,00/-
Annual Variable Cost	:	Rs.17,62,560/-
Break Even Point	:	57.3%

Manufactures/ Suppliers of Machinery:

1	M/s. Sesu Trading Corporation R. No. 2, (4th Flour,) Sai Chambers, 367-369, Narsi Natha Street, Mumbai-400009
2	M/s. sri sidhivinayaka engineering works, kasaragod
3	M/s. Atlas Engg. Works, Diwan Hall, Chandni Chowk, Delhi –11006.

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

- Number of working days in a year : 300 days
- Number of shifts in a day : 1 (One)
- Hours in a shift : 8 hours
- Plant capacity : Consider average production capacities
- Raw-material estimates : Based upon product mix
- Raw-material availability : Locally available

7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under CGTMSE/ Self Employment

ROASTED RICE FLAKES

INTRODUCTION

Generally the beaten rice is a popular food for all kinds of human living in India. Now the people are making different kinds of recipes with this by adding sweetness or spices. Paddy is available in plenty in India (and kerala) and hence the raw material has no shortage.

MARKET DEMAND

This product in the market is relatively new one. Hence it has tremendous scope. A good quality product in attractive pack will give a boost in marketing the product. The main scenario in rice flakes is that it is pure in nature and adding spices or sweets will not contaminate it in any way.

PRODUCTION TARGETS

Basis of estimation : 300 working days in a year
single shift
8 hours per shift

Roasted Rice Flakes

Quantity 80 Tones

Value 28 LAKHS

THE MANUFACTURING PROCESS

The paddy is cleaned and stones are removed. It is soaked in water and boiled in a boiler. When it is lowered its temperature is reduced a little and is pounded or pressed mechanically to form flakes. It is sieved and roasted by adding the required flavors. This product is packed and labeled indifferent weights.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. food safety quality standards is essential.

LAND AND BUILDING

It is estimated that a land of 250sqm is required with 125sqm with buildup area. Cost of land in rural area is calculated as Rs1,25,000/- and the cost of construction is taken as Rs3,25,000/-

PLANT AND MACHINERY

No	ITEM	QUANTITY	Total Amount
1	Avil mill	2	1,50,000
2	Roaster	2	1,00,000
3	Husk fired Furnace	1	25,000
4	Paddy soaking tanks	4	60,000

5	Sieves	4	25,000
6	Sealing machines	1	25,000
		TOTAL	3,85,000

RAW MATERIALS PER MONTH

Raw materials : Rs 1,16,250

STAFF AND LABOUR PER MONTH

Staff and Labour : Rs.24,000

OTHER EXPENSES PER MONTH

1	Utilities	28,000
2	Other contingent expenses	6,750

WORKING CAPITAL (PER MONTH)

Sl.No.	Descriptions	Amount (Rs.)
1	Raw materials	1,16,250
2	Staff and labour	24,000
3	Utilities	28,000
4	Other contingent expenses	6,750
	Total	1,75,000

TOTAL CAPITAL INVESTMENT

Item	Amount(in Rs)
Land and Building	4,50,000
Machinery	3,85,000
Miscellaneous assets	40,000
Preliminary & Preoperative Expenses	50,000
Working Capital for 2 months	3,50,000
Total	12,75,000

COST OF PRODUCTION (PER ANNUM)

A) Recurring expenses	: 21,00,000
b) Depreciation on building @ 10%	: 45,000
c) Depreciation on machinery @ 20%	: 77,000
e) Interest on total capital investment @ 14%	: 1,79,000
Total	: 24,01,000

SALES PROCEEDS (PER YEAR)

Item	Quantity	Rate (Avg)	Amount
Roasted Rice Flakes	80 Tones	35,000/-	28,00,000

PROFITABILITY BEFORE INCOME TAX

Sl.No.	Item	Amount
1	Annual Gross Profit	3,99,000
2	Percentage of Profit on Sales	14.25%
3	Break-even analysis	
3.1	Annual Fixed Cost	3,25,000
3.2	Annual Sales	28,00,000
3.3	Annual Variable Cost	20,76,000

Break-even point =45.44%

SUPPLIERS OF MACHINERIES

- 1) Indopol food processing industry pvt. Ltd Faridabad 121003
- 2) SP Engg.works, Fazal Gunj, Kanpur

IMPLEMENTATION PERIOD

Proposed project can commence production within 6 to 8 weeks after sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1	Number of working days in a year	300 days
2	Number of shifts in a day	1 (One)
3	Hours in a shift	8 hours
4	Plant capacity	Consider of average production capacities of plant
5	Raw-material estimates	Based upon product mix
6	Raw-material availability	Locally available
7	Depreciation	Straight line method
8	Manpower	According to project Requirement
9	Rent estimate	On the basis of current market prize of the area
10	Potential area of marketing the products	Domestic buyers
11	If project is funded, term loan would be	60-80% of Total investment
12	Moratorium period	6-12 months
13	Repayment period	5-7 years
14	Project may be established under	PMEGP(GIO)/Self Employment Scheme

BANANA TOFFEE

INTRODUCTION

Banana is the largest cultivated fruit in Kerala. It is known as the 'common man's fruit'. It is highly nutritive and very delicious.

MARKET DEMAND

Fruits are consumed by human beings since time immemorial and with the advent of technology, fruits can now be preserved for a longer period or their pulp can be processed to make some products with considerable shelf life. These products must be manufactured hygienically and attractively packed.

PRODUCTION TARGETS

Basis of estimation : 300 working days in a year

single shift

8 hours per shift

Banana Toffees

Quantity 28,80,000

Value Rs.25,92,000

MANUFACTURING PROCESS

Banana toffee is made from the pulp extract of banana. Fresh fruits are cleaned and their pulp is extracted. Then this pulp is cooked till the original volume is reduced to around 35-40%. Other ingredients like sugar, glucose, milk powder, hydrogenated fat, essences, colours etc. are thoroughly mixed with fruit pulp and this mixture is cooked. This cooked mass is then transferred to hard but level and smooth surface pre-smearred with fat and flavouring material is added. Finally, the entire mass is spread into a thin sheet of about 1 cm; allowed to cool and set for around 2 hours. This solid sheet is then cut with the help of toffee cutter, dried to bring down the moisture content to 5-6% and individual toffees are packed in either tissue paper or cellophane paper.

LAND AND BUILDING:

land and building has been acquired on a monthly Rent of Rs 10000/-

Machinery And Equipments:-

Sl. No	Items	Amount in Rs.
1	Pulp extractors	45000
2	Mixing cum boiler	40000
3	Toffee cutter	55000

5	tray drier, containers& vessels	30,000
6	furniture	20000
7	Electrification and Installation of machinery	10000
	Total	2,00,000

RAW MATERIALS PER MONTH

Raw materials : Rs 1,18,850

STAFF AND LABOUR PER MONTH

Staff and Labour : Rs.33,250

OTHER EXPENSES PER MONTH

1	Rent	10,000
2	Utilities and Other contingent expenses	14,341

WORKING CAPITAL (PER MONTH)

Particulars	Cost (Rs)
Raw material	1,18,850
Salaries	33,250
Rent,Utilities and Other Expenses	24,341

Total = 1,76,441

TOTAL CAPITAL INVESTMENT

1	Fixed Capital	2,00,000
2	Working Capital	5,29,323
	Total	7,29,323

COST OF PRODUCTION PER YEAR(IN RS).:

Total recurring cost	2117292
Depreciation on machinery @20%	36000

Depreciation on furniture @20%	4000
interest on term loan+working capital loan @15%	82048
Total	22,39,340

SALES PROCEEDS (PER YEAR)

Item Name	Quantity (Nos)	Rate/No (Rs)	Value (Rs)
BANANA TOFFEE	28,80,000	0.9	25,92,000

PROFITABILITY BEFORE INCOME TAX

Sl.No.	Item	Amount
1	Annual Gross Profit	3,52,660
2	Percentage of Profit on Sales	13.61%
3	Break-even analysis	
3.1	Annual Fixed Cost	5,18,485
3.2	Annual Sales	25,92,000
3.3	Annual Variable Cost	17,20,885

Break-even point =59.51%

ADDRESS OF MACHINERY AND EQUIPMENT SUPPLIER

Shree Siddhi Vinayak Engineering, Shrinand Residency, New Maninagar, Ramol , Ahmedabad - 382449, Gujarat

IMPLEMENTATION PERIOD

Proposed project can commence production within 6 to 8 weeks after sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

- 1 Number of working days in a year 300 days
- 2 Number of shifts in a day 1 (One)
- 3 Hours in a shift 8 hours
- 4 Plant capacity Consider of average production capacities of plant

5	Raw-material estimates	Based upon product mix
6	Raw-material availability	Locally available
7	Depreciation	Straight line method
8	Manpower	According to project Requirement
9	Rent estimate	On the basis of current market prize of the area
10	Potential area of marketing the products	Domestic buyers
11	If project is funded, term loan would be	60-80% of Total investment
12	Moratorium period	6-12 months
13	Repayment period	5-7 years
14	Project may be established under	PMEGP(GIO)/Self Employment Scheme

COFFEE FLAVOURED MILK

INTRODUCTION

Coffee beverage imparts refreshing and stimulating effect and is extremely popular throughout the world. Almost entire consumption of coffee is in the form of beverages, with or without milk or cream, chilled or hot.

MARKET DEMAND

The availability of coffee flavoured milk in the market compared to its potential demand, is very small in volume. As the nutritional awareness has caught on among the consumers, the demand for such drinks is increasing. It is equally liked by all irrespective of age. It could register good sale at airports, bus stops, railway stations, restaurants, hotels, picnic spots, college canteens, etc.

PRODUCTION TARGETS

Basis of estimation : 300 working days in a year

single shift

8 hours per shift

coffee flavoured milk

Quantity	4,65,000 crates of 24 bottles (200 ml)
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Value	10,23,00,000
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MANUFACTURING PROCESS

The fresh cow and buffalo milk received is first standardized to its fat content. The milk is then heated to 40°C and filtered through a double muslin cloth. Then again heated to 60°C and stabilizers like TSC and DSHP added @ 0.002%. This milk is then passed to homogeniser for breaking the fat globules and make uniformity in the product. On the other side, the coffee powder of 5% concentration is added to hot water and filtered through a muslin cloth. Finally homogenized milk, hot coffee water and sugar syrup are mixed in proper proportion and heated to 85°C and then sterilized at 115°C for 30 minutes. The sterilized bottles are cooled at room temperature and then stored in wooden crates.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND & BUILDING

Land: 10,000 Sq. Ft. @ Rs40/Sq. Ft.	4, 00,000
Building 4,150 Sq. Ft. @ Rs. 900 Per Sq. Ft.	37, 35,000
Total	41, 35,000

MACHINERY AND EQUIPMENT

Plant & machinery : 21, 10,000

RAW-MATERIAL PER MONTH

Raw-materials : 72, 25,900

STAFF & LABOUR PER MONTH

Salaries and Wages : 1, 00,000

FIXED CAPITAL

Total Fixed Capital	Amount (In Rs.)
Land and Building	41, 35,000
Machinery and Equipments	21, 10,000
Pre-operative Expenses	2, 44,000
Glass bottle 8000 crates	8, 00,000
Total	72, 79,000

WORKING CAPITAL (PER MONTH)

TOTAL RECURRING EXPENSES (PER MONTH)		AMOUNT (IN RS.)
1.	Staff and Labour	1, 00,000
2.	Raw Material	72, 25,900
3.	Utility	28,000
4.	Other Contingent Expenses	40,200
Total		73, 94,100

TOTAL CAPITAL INVESTMENT

Particulars	Amount (In Rs.)
Fixed	72, 79,000
Working Capital for 2 months	1, 47,88,200
Total	2, 20,67,200

COST OF PRODUCTION (PER ANNUM)

Amount (In Rs.)

- a) Recurring expenses : 8,87,29,200
- b) Depreciation on building @ 5% : 1,86,750
- c) Depreciation on machinery @ 10% : 2,11,000
- d) Depreciation on bottles @ 20% : 1,60,000
- e) Interest on total capital investment @ 14% : 30,89,408

Total

9,23,76,358

SALES PROCEEDS PER ANNUM

Item	Qty.	Rate	Total (In Rs.)
Coffee flavoured Milk(24 bottles (200 ml))	4,65,000	220/-	10,23,00,000

PROFITABILITY (BEFORE INCOME TAX)

Annual Gross Profit	: Rs. 99,23,000/-
% of Profit on sales	: Rs. 9.6%

BREAK EVEN ANALYSIS:

Annual Fixed cost	: Rs . 87,74,518/-
Annual Sales	: Rs. 10,23,00,000/-
Annual Variable Cost	: Rs. 8,36,01,840/-
Break Even Point	: 46.92%

ADDRESSES OF MACHINERY SUPPLIERS

1. M/s. Mistri Sant Singh and Sons
3794, Mori Gate,
Delhi-110006.
2. M/s. Mildon and Co.
Plot No. 101, Road No. B-16 MCD
Chakala, Andheri,
Mumbai-93.
3. M/s. Larsen and Toubro Ltd.
Ballard Estate, Douggel Road,
Mumbai-110001
4. M/s. Pioneer Mechanical Works
G.T. Road, Ambala, Punjab.
5. M/s. Rita Agencies
No. 3, 1st Crescent Road,
Park Road, Gandhi Nagar
Chennai-20
6. M/s.SSP Pvt Ltd.
19 DLF, Industrial Area-II
13/4, Mathura road,
Faridabad-121003
7. M/s. B.Sen Barry and Co.
65/11, New Rohtak Road,
New Delhi-110005,
E-mail: senbarry @ vsnl. Com

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Available from States like Tamilnadu, Andhra Pradesh, Maharashtra, Punjab etc
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under CGTMSE/ Self Employment

TAPIOCA CHIPS

INTRODUCTION

Tapioca is a starch extracted from cassava root. It is a rich source of energy as it contains full of carbohydrates. Both raw and dried form of tapioca can be used for preparing different dishes. Chips prepared out of tapioca using pure coconut oil is very delicious and people of all age groups love it a lot. These chips can either be spicy or non spicy and can be stored for one month without using any chemical preservatives.

MARKET DEMAND

Kerala is famous for traditional dishes especially chips using coconut oil. So Kerala chips has a huge market throughout India and abroad.

PRODUCTION TARGETS

Bases of estimation : 300 working days

No. of shift : 1 No.

Duration of shift : 8 hours

Quantity	12000 kg
Value	Rs. 20.4 Lakh

MANUFACTURING PROCESS

After peeling of all the tapioca tubes, it is put into the washing vessel for cleaning. Place them on a table in order to drain. The drained tubes get sliced using the slicer. The slices then put to the boiled oil for frying the slices. The fried chips then put to the vessel and sprinkle salt and chilly powder. After cooling, the chips are packed in different quantities for dispatching.

QUALITY CONTROL STANDARDS

It is based on the satisfaction of consumers. Food safety quality standards is essential.

LAND AND BUILDING

Land and building are rented. Built up area is 500 square feet. The rent is 5000/- per month.

MACHINERY AND EQUIPMENTS(IN RS).

Sl.No.	Item	NUMBER	RATE	AMOUNT
1	Washing dish	1	10000	10000
2	Slicer	1	75000	75000
3	Frying pan	2	5000	10000
4	Utensils	6		15000
5	Weighing machine	1	2000	2000
6	Packing machine	2	1000	2000
7	Others including furniture			12000

8	Electrification			3000
			TOTAL	1,29,000

RAW MATERIALS PER MONTH

Raw materials : Rs. 77,900

STAFF AND LABOUR PER MONTH

Staff and labour : Rs. 35,650

OTHER EXPENSES PER MONTH

1	Utilities	3000
2	Other Contingencies	17,000

WORKING CAPITAL PER MONTH in Rs.

1	Raw Material	77,900
2	Staff & Labour	35,650
3	Utilities	3000
4	Other Contingencies	17,000
	Total Working Capital Per Month	1,33,550

TOTAL CAPITAL INVESTMENT(IN RS).

1	Fixed Capital	1,29,000
2	Working Capital For 1 Month	1,33,550
	Total Capital Investment	2,62,550

COST OF PRODUCTION(IN RS).

1	Total Recurring Cost	16,02,600
2	Depreciation On Machinery, Tools and Furniture	13,000
3	Interest On Total Capital Investment@15%	39,400
	Total	16,55,000

SALES PROCEEDS PER ANNUM (IN RS).

Sl. No.	Item	No of packets	Rate	Amount
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1	Chips packet of 100gm	36000	17	6,12,000
2	Chips packet of 200gm	42000	34	14,28,000
			Total	20,40,000

PROFITABILITY BEFORE INCOME TAX

1	Annual Gross Profit	3,85,000
2	% Profit on Sales	18.87%
3	Break-even analysis	
3.1	Annual fixed cost	3,79,520
3.2	Annual Sales	20,40,000
3.3	Annual Variable cost	12,75,480

Break-even Point

BEP = 49.64 %

ADDRESS OF MACHINERY AND EQUIPMENT SUPPLIERS

Best Engineering Technologies, Hyderabad.

IMPLEMENTATION PERIOD

Proposed Project can commence production within 6 to 8 weeks within sanction and disbursement of loan

ASSUMPTION FOR GENERATING PROJECT PROFITABILITY

1. Number of working days in a year : 300 days
2. Number of shifts in a day : 1 (One)
3. Hours in a shift : 8 hours
4. Plant capacity : Consider average production capacities
5. Raw-material estimates : Based upon product mix
6. Raw-material availability : Locally available
7. Depreciation : Straight line method
8. Manpower : According to project Requirement
9. Rent estimate : On the basis of current market prize
10. Potential area of marketing : International & Internal Market
11. If project is funded, term loan would be : 60-80% of Total investment
12. Moratorium period : 6-12 months
13. Repayment period : 5-7 years
14. Project may be established : under CGTMSE/ Self Employment

