

ACTION PLAN

OF

DISTRICT INDUSTRIES CENTRE

SONIPAT

PERIOD 1983 - 88

NIEPA DC



D03600

Office of :

GENERAL MANAGER

District Industries Centre

SONIPAT - 131001

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PREFACE

In the present era Planning is playing a vital role for speedy and balanced industrial growth at all levels particularly at the district level. It is only at the District level that a realistic study can be undertaken of the available manpower, resources, infrastructural facilities so that the time bound programmes are planned and implemented to achieve the desired results in the shortest possible time.

Small Scale Industries play a key role to promote the industrialisation in the developing economy. In order to create employment opportunities in our country the highest priority is to be accorded to the development of small scale industry in the coming years. The present exercise to up date Action Plan has been undertaken with a view to coincide it with the 7th Plan Frame. The main feature of the present document is that it has been written as per the chapter Plan prescribed by the Development Commissioner, Small Scale Industries, Govt. of India with a view to ensure a uniform pattern over the country. This Action Plan is prepared in the light of the experience gained over the last few years.

The fulfilment of the various targets in this Action Plan is expected to improve the employment potential, economic development of the District. It is expected to achieve phenomenal progress during the planned period.

The District Industries Advisory Committee, Sonipat has desired that a detailed Action Plan may also be got prepared through some industrial consultancy organisation so that it could serve as a reference document in future.

It is hoped that this document would prove to be useful to the planners, administrators and also decision makers concerned with the implementation with this Plan.

I thank the District Authorities and also the Lead Bank Officer, Punjab National Bank who provided information, assistance & advise in formulating this Action Plan. I also acknowledge the services of my Officer Mr. J.R. Yadav, Functional Manager (E.I.) & Mr. Nishi Kant, Field Investigator who have worked very hard for bringing out this volume.

(R. M. MANROA)
General Manager

District Industries Centre,
Sonipat.

SONIPAT
26.11.85

I N D E X

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**DRAFT ACTION PLAN FOR DISTRICT INDUSTRIES CENTRE, SONEPAT.
1983-84 to 1987-88.**

CHAPTER—I

Introduction to the District

SONEPAT DISTRICT TOPOGRAPHY & RESOURCES

Prior to discussing the Action Plan for Sonapat, it is imperative to know the background information about this district. The area survey report for Sonapat District was prepared by the Development Commissioner (SSI) in 1976. District Credit Plan was prepared by the Lead Bank and Action Plan was prepared by S.I.S.I. Okhla, New Delhi for Sonapat District in October, 1977 and December, 1978 respectively.

District Sonapat came on the map of Haryana in December, 1972. Previously it was a part of Rohtak District. The district has 348 villages of which 11 are un-inhabited and 337 are in-habited villages. It is an important district of the State from the Industrial point of view.

LOCATION :

The district is situated in the South East of Haryana and is surrounded by Rohtak District on the West, Karnal district on its north, Jind on its north west and Union Territory of Delhi in the South. The river Yamuna on its east separates the district from the State of Uttar Pradesh.

AREA & POPULATION :

The total area of the district is 2206 sq. kilometers according to 1981 census. The population of the district is 8.44 Lacs, the third lowest being next to Gurgaon and Sirsa. The district shares 6.57 % of the State's total population. The rural populations of the district constitutes 81.89% of the total population against the state average of 78.04%. It is the second most densely populated district of the State with 383 persons per sq. km. first being Faridabad against the state average of 291.

SKILLS :

The traditional skill like black-smiths, carpenters, shoe-makers are scattered throughout the district. However, their main concentrations are in Gohana, Sisana, Butana etc.

There are weavers also in the district, who are located at Gohana and Kharkhoda. There are few potters engaged in the manufacture of traditional items and are located in Ahulana, Butana, Kathura, and Bhainswal. Shoe makers are concentrated at Bega, Ganaur and Purkhas.

LAND UTILISATION :

Sonepat district is mainly dependent on its agricultural economy and 81.89% of its population resides in villages. The total working population is 236695 of which 42.6% are cultivators, 17% agricultural labour, 3.9% mining. During the year 1982-83 1.99 lacs hectares of land was available for cultivation. Out of this, 90% (1.74 lacs hectares) was net-shown area. The percentage of the area shown more than once to net-shown area is 43.7% of the total cropped area of 2.50 lacs hectares foodgrains crops constitute 74.8%, pulses, 2.6% and commercial crops 9.2%.



CHAPTER—II

POSITION OF EDUCATED UNEMPLOYED :

It has been observed from the record available from the Employment Exchange of District Sonapat and Tehsil Gohana that the position of the Educated unemployed is as below :—

	<u>SONEPAT</u>	<u>GOHANA</u>
i) Post Graduates :	82	121
ii) Graduates :	1344	540
iii) Under graduates :	7045	3743
iv) Degree Holders/Diploma Holdiers in Engg. Technical discipline.	159	82

(As on 31st March, 1984)

(Sources : District Employment Exchanges, Sonapat & Gohana)



CHAPTER—III

AREA RESOURCES :

Sonepat district is mainly dependent on its agricultural economy. The followings are the main crops in the District :

i) WHEAT :

Wheat is the major crop of the district and enjoys a maximum coverage of area sown. Its area during 1982-83 was 127042 hectares and the production was 248 thousand tonnes.

ii) PADDY :

Paddy is the second major crop of the district. 17.5 thousand hectares of the area was sown during the 1982-83 and the production was 2,000 tonnes.

iii) GRAMS :

It is the next major rabi crop of the district. The area under sown for gram during the year 1982-83 was 2775 hectares and the production of this was 41,000 tonnes.

iv) SUGARCANE :

Sugarcane is an important cash crop of the Sonepat district. It covered the area of 8012 hectares during the year 1982-83 and production of this period was 60,000 tonnes.

v) CHILLIES :

Chillies are grown mainly in Ganaur and Rai blocks. Though the area under the crop is small as compared to the other crops of the district yet it is significant as compared to the area under this crop in other district. The area covered under the crop in the district during the year 1982-83 was 1741 hectares.

MINERALS :

Mineral resources except Salt peter and sand are no available in the area. Salt peter which is commonly known as Potasium Nitrate is found in 19 villages, presently Potasium Nitrates is being exported to other States for the manufacture of fertilizer and gun-powder. Sand is the other mineral available in 47 villages. It has been estimated that reserves of sand are 40 lacs M. Tonnes and its approximate value is Rs. 20/- lacs. It is being used locally for construction purposes.

FORESTS :

There are no thick forests in the area and only these have been grown by the sides of road and canals. Horticultural resources are also not sufficient for exploitation for indus-

trial uses. However, the area under forest is 78.29 K.M. forming 3.5% of the total area of the district. During the year 1982-83 an income of Rs. 5.17 lacs was released from the sale of trees, grass, seeding and other misc. items.

LIVESTOCKS :

Haryana is famous for its livestock, wealth and its important suppliers of milk, cattles to other states in the country Sonapat District occupies second position in the State of Haryana in respect of livestock wealth. The first being Rohtak District total livestock population as per 1982 census is 6,35,995 out of which 55% were cows i.e. 3,49,597 and buffalos 36% of the total livestock i.e. 2,22,634 sheeps and goats were 20,000 and 12,306 respectively. According to the Animal Husbandry Department livestock products value Rs. 3.5 lacs were produced during the year 1982-83.

FISHERIES :

There are about 810 villages ponds having approximate 350 hectares of cultivable water area in the district. Out of which target for covering of water area was fixed 30 hectares which has already been achieved during the year 1982-83. Sonapat district has a very good scope for fisheries being near to Yamuna river. 105 tonnes of fisheries production has been achieved in 1982-83. The F.F.D.A. is playing a major role for uplifting this scheme by advancing loans, subsidies and technical guidance to the interested cultivators in the rural area. The production of fish is likely to be increased in this respect.

SERICULTURE :

Sericulture is not prevalent in the Sonapat district.

AVAILABILITY OF SKILLS

In Sonapat district, there are, three Industrial Training Institutes located at Sonapat, Gohana and Ganaur. Two Handloom Training Centres at Gohana and Kharkhoda, Rural Industrial Development Centre (Carpentary trade) at Gohana and Government C.P. Centre for shoe making and canvas type goods at Village Butana. These institutions are major sources of providing skills in the area. Besides, there are complexes of Handloom wavers at Kharkhoda, tape & niwar & cotton cloth at Gohana, sports goods complex at G.T. Road, Murthal. These institutions and other complexes in Handloom/Textile goods, tape/niwar shoe making and sports goods etc. have surplus resources with which can be further used for industrial purposes, viz-providing training to more & more number of youths, providing them common facilities in their production programme.



CHAPTER—IV

EXISTING INFRASTRUCTURAL FACILITIES :

i) RAIL :

District Headquarter Sonapat is connected by rail with Delhi and there are six railway stations namely Rathdhana, Sonapat, Sandal Kalan, Rajlu Garhi, Ganaur Bodhwal Majri. Gohana Sub-Division is also connected by rail to Rohtak and Panipat.

ii) ROADS :

There are 337 villages in the district. 89% of which are connected by roads. The total length of the metalled road is 1155 K.M. unmetalled 103.20 K.M. in 1982-83. State Highway passes through this district.

iii) TRANSPORT :

Sonapat is connected both by rail and road. There is no difficulty in the transportation of raw materials and finished products to and fro Sonapat to other parts of the country.

iv) COMMUNICATION :

The district is served by 163 Post Offices, 6 Telephone Exchanges and direct dialing system with Delhi. It has 30 Telegraphs Offices.

v) BANKING FACILITIES :

There are 62 bank branches of 18 commercial banks in the district. The Blockwise distribution of the bank offices are as under :

<i>Sr. No.</i>	<i>Name of the Block</i>	<i>No. of Offices</i>
1.	Sonapat	25
2.	Ganaur	4
3.	Rai	12
4.	Kharkhoda	7
5.	Gohana	6
6.	Mundlana	5
7.	Kathura	3

In addition to this, there are 12 branches of Central Co-operative banks located in different blocks. There are two branches of Primary Land Development Bank, one each at Sub-Division level. There are three branches of Urban Co-operative bank and Haryana Financial Corporation at Sonapat providing financial assistance to Small Scale Units.

vi) POWER :

The main sources of power is Bhakra Nangal. All the 337 villages have been electrified. The tariff rate varies according to category of industrial connection given on the basis of consumption. In the district two Sub Stations having the capacity of 132 K.V. are working and 14 sub-stations having the capacity of 33 K.V. each working presently. It is proposed to establish two numbers of Sub Stations with a capacity of 132 K.V. one each at Gohana and Sonapat. Apart from these it is also proposed to set up 3 more of Sub Stations having the capacity of 33 K.V. each at Sonapat, Jahri and Kundli respectively.

vii) TRAINING FACILITIES :

The following facilities for industrial training are available in the district at Sonapat, Gohana and Ganaur.

Govt. Institute for Surgical Instruments & Technology, Sonapat :—This Institute trains candidates and awards diplomas in Mechanical Engineering (Surgical Instrument Technology and machine Tools and Die Sinking Technology). It has training capacity of 60 candidates annually. The duration of courses is three years.

Industrial Training Institutes :—Industrial Training Institutes at Sonapat, Gohana and Ganaur provide stipendary training in technical courses in different trades to boys and girls. The duration of the course ranges from one to two years depending upon the type of trade.

Training Centre for Carpentry (RIDC) :—This centre located at Gohana trains 15 candidates under the departmental scheme. The duration of the training is one year. The trainees are given stipend at the rate of Rs. 75/- per month. The centre also provides training under Trysem Scheme & D.I.C. promotional schemes for six months upto a number of 40 candidates.

Training Centre for Leather (Community Project Centre, Butana) :—The Centre has been set up at Butana imparting training in two trades viz., Shoe-making & canvas type goods with a training of 40 candidates covering Trysem & D.I.C. promotional alongwith Department schemes.

Sports Goods Manufacturing Complex :—The Haryana State Small Industries & Export Corporation have set up a sports Goods Manufacturing Complex at Murthal where 99 sheds have been constructed and allotted to the entrepreneurs. The corporation has also set up a Training-cum-production centre to provide training facilities to the entrepreneurs for the manufacture of sports goods. The industrial units located in this complex have already started manufacturing of sports Goods. The industrial units located in this complex have already started manufacturing different items of sports Goods-viz-Hockey stick, Football, Badminton, Rockets, shuttle cocks, Volley Ball, Cricket Ball.

Industrial Area :—Industries Department has established the below noted industrial areas at Sonapat :—

i) Industrial Area, Sonapat	124 Plots
ii) Industrial Estate, Sonapat	18 Sheds
iii) Industrial Development Colony	30 Plots.

Haryana State Industrial Development Corporation has established a Industrial Estate at Murthal in which 65 plots have been developed which have been allotted to the entrepreneurs. Haryana State Industrial Development Corporation has also recently developed 65 plots have been developed which have been allotted to the entrepreneurs. Haryana State industrial complex phase-I & phase-II at Kundli in which 106 & 85 plots. These plots have been allotted to the entrepreneurs.

Atlas Ancillary Complex :—In order to promote the Ancillarisation, the Industries Department and the Atlas Cycle Industries Limited have identified 32 entrepreneurs for the manufacture of Ancillary components for Atlas Cycles at Murthal. Haryana State Industrial Development Corporation have already constructed the sheds at Murthal which have been allotted to these prospective entrepreneurs.

Industrial Area at :—Haryana Urban Development Authority has initiated the process of acquiring 500 acres of land on G. T. Road at Bahalgarh where plots will be carved out for allotment to the entrepreneurs. It is also proposed by Haryana Urban Development Authority to develop industrial complex at Ganaur and Gohana also.

Quality Marking Centre for Rubber and Engineering Goods :—The Industries Department has set up a Quality Marking Centre at Sonapat in 1973 for providing Testing Facilities in Engineering, Plastic goods, chemical etc. This centre is well equipped with sophisticated machinery and equipment. This centre is also providing Technical knowhow to the industrial units of this District in improving their quality. Recently the Testing facilities for Textile goods has also been added in the centre.



CHAPTER—V

SCHEDULE — I

FOR EXISTING INDUSTRY STATUS AS ON 1.6.1983.

A/B LARGE/MEDIUM SCALE SECTOR :

Sr. No.	Name & Location of the Unit	Date of Estt.	Type of Organisation	Name of production	Direct Employment No. of Persons	Production Value During 1982-83	Main Raw Material Used Local	From Outside	No. of production Ancillary Units	Value 1982-83	Employment through Ancillary Units	Future Expansion Programme	Future Ancillary Production
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	B.K. Iron & Steel (P) Ltd., 40/3, G.T. Road, Bahalgarh.	1982	Pvt. Ltd. Co.	Grey Alloys Iron Castings.	98	159.00 (lacs)	Local	—	Nil	Nil	N.A.	1) Through expansion of capacity (in value terms) 2) Diversification of products. (In value terms).	Name of ancillary Units (Name of items)
2.	M/s. Sunder Singh & Co. (P) Ltd. 36 K.M. G.T. Road, P.O. Rai, Sonapat (Haryana)	Dec. 68	Pvt. Ltd. Co.	Ice Plant & Cold Storage Machinery	84	Rs 48,52,934.95	Gas Cylinder & Weld- ing Rod etc.	Black steel Pipe, C.R. Sheets, G.P. Sheets, M.S. Angle, Round Plates etc.	—	48,52,934.95	—	N.A.	N.A.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
3.	The Sonapat Co-op. Sugar Mills Limited, Sonapat	10.12.70	Co-op.	Sugar	672	1,60,382 qtl. sugar Value : 630.01 lacs	Cane	—	—	—	—	—	—
4.	The Milton Cycle Inds. Ltd., Sonapat	1961	Public Co.	Bi-cycle parts i.e. Chains, Free-wheel BB Axle etc. Auto Cycle component & special purpose machine.	750	2,87,32,264-07 (appx.)		Nil	Nil	Nil	Nil	Nil	Nil
5.	Haryana Steel & Alloys Ltd., G.T. Road, Murthal (Sonapat)	13.2.72	Public Ltd.	Iron & Steel Product	235	Appx. 9 crore	Old Iron scrap	Graphite Electrode Ferro Alloys Minerals	N.A.	N.A.	N.A.	N.A.	N.A.
6.	M/s. Haryana Breweries Ltd., Murthal	14.9.70	Govt. Undertaking	Beer	210	2,88,85,660	Malt sugar Bottles Cartons Crown Cork Labels	Hops	N.A.	N.A.	N.A.	N.A.	N.A.
7.	M/s Hindustan Everest Tools Ltd., Village Jatheri P.S. Rai, Sonapat	1962-63	Public Ltd. Company	Hand Tools	540	Rs. 235.70 lacs	Carbon & Chrome Steel		N.A.	N.A.	N.A.	N.A.	N.A.
8.	Tirupati Woolen Mills Ltd., 18th Mile Stone, G.T. Road, Nathupur (Sonapat)	1.11.75	Limited Co.	Woolen Carpets Yarn	137	143.15 lacs	Raw Wool		—	—	—	—	—

1	2	3	4	5	6	7	8	9	10	11	12	13	14
9.	M/s E.C.E. Lamp Division, Sonapat	1973	Pvt.	GLS Lamps Flu Lamps MV Lamps Shells T. Shells	386 4.206 M 171.48 MVL 530.48 lacs 59.47 ..	76.641 M	Caps S. Sand Sodaash LIW Fila- ment F.I. Powder	Fila Pl. Powder	—	—	—	—	—
10.	M/s. Bharat Steel Tubes Ltd., Ganaut Distt., Sonapat	1.9.65	Pvt. Sector	a) ERW Steel Pipes & Tubes b) Fabricated Pipe Work c) Tubular structures d) PVC/HDPE Pipes e) Steel Pipe & Tube Mfg. Plant f) Galvanising Plant	Regular 1133 Daily (Turnover) wages : 55	33-66 crores	i) Steel ii) Zinc iii) Sockets iv) PVC Resin	Nil	Nil	Nil	Nil	Nil	Nil
11.	M/s. Sooraj Steel Ltd., I.A. Sonapat	1973	Limited Co.	Iron & Steel Casting	58	1.81 lacs	1.21 lacs	3 lacs	Nil	Nil	Nil	Nil	Nil
12.	M/s. Atlas Cycle Inds. Ltd., Sonapat & M/s. Atlas Auto Inds. Sonapat.	1951	Limited Co.	Bicycle & Bicycle com- ponents & Mopeds	4055 270 4325	Rs. 46 crores	Steel & Steel Pipes	One	54 lacs	Apprx. 200	Yes (The plan is in progress.)	Yes	Yes
13.	M/s. Atlas Auto Inds., 34th K.M. Stone, Rasoi, G.T. Road, Sonapat.	1976	Public Ltd. Co.	Moped	130	Appx. 10 lacs	— Tubes Sheet Metal Com- ponents Plastic item, Aluminium castings etc.	—	—	—	Production being raised to achieve full licensed capacity	—	—

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
14.	M/s. Rubber Reclaim Co. India (P) Ltd., 22/4 Miles Stone, G.T. Road, Bahalgarh, Sonapat (Haryana)	1968	Pvt. Limited	Reclaim Rubber Sheet	390	2.93 crores	4.43 lacs	1.10 crores	No	2.93 crores	Nil	In Gujrat State by mfg. same product upto Rs. 10 crores P. A.	—
15.	Haryana Sheet Glass Ltd., V. & P.O. Sewvli (Sonapat)	1.1.76	Public Limited Co.	Sheet Glass	700	5 crores	1) Silica sand 2) Bolomite 3) Limestone	Sodaash	Nil	Nil	Nil	Additional capacity to be enhanced doubled Nil	Nil
16.	Hilton Rubber G.T. Road, Rai	1972	Public Limited Co.	Rubber Conveyor Belt & V Belts	497	Appx. 7 crs.	Natural Rubber & Cotton Fabric & Rubber chemicals	Polyster Cable cards	Nil	Appx. 7 crores	No	Nil	Nil
17.	Maco Pvt. Ltd., E-24, Indl. Area, Sonapat - 131 001	Oct., 1956	Pvt. Ltd. Co.	Gudgeon pins pistons pins Crank pins etc.	165	„ 95 lacs	—	Special steel	Nil	Nil	Nil	Nil	Nil
18.	Plastic Kot (Sunder-sons) Industries, 20th Mile Jatheri Road, Sonapat (Haryana)	1966	Pvt. Ltd.	Rexine	30	„ 57 „	—	Rexine, Plasticizer Lubricant stabilizer, pigments etc. cloth.	Nil	Nil	Nil	Nil	Nil
19.	Shanti Papers P.O. Rai, Sonapat.	1980	Limited Co.	Craft Model Paper	70	5,77,010 Kgs.	Baggage	Worth paper	Nil	Rs. 25.96 lacs	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14
20.	Haryana Agro Food & Fruit Process Plant, Murthal	1974	Hr. Govt. under-taking	Juice, Jam, Jally, Murabba slices etc.	72	1.22 crores	Fruit, Sugar vegetables slices etc.	Can	—	—	—	—	—
21.	M/s. Gedore Tools (India) Pvt. Limited, Narela Road, Kundli (Sonepat)	1974	Pvt. Ltd.	Hand tools	990	5.42 crores	Carbon steel and steel	Die steel	N.A.	N.A.	N.A.	N.A.	N.A.
22.	M/s. Haryana Vanaspati & General Mills, P.O. Kundli	1971	Prop. ship	Vegetable products.	75	5.07 crores	a) Indl. Edible Oil i) Til Oil ii) C.S. Oil iii) Mahua iv) Maize v) R.B. Oil b) Empty Tin container c) Chemicals (Act, Earth Nickle catalysts & vitamin etc.)	Imported Oil SBO Imporieal SBO Com RBD Palmdein Palm oil N.P. Oil	N.A.	N.A.	N.A.	Yes, Expan- sion programme is increasing the capacity upto 50 MT/day	N.A.
23.	Rolla Tanners Ltd., Village Kundli.	24.11.82	Public Ltd.	Paper & Paper Board.	120	1 crore	Waste paper	Waste paper	Nil	1 crore	Nil	Nil	N.A.

CHAPTER—V

C SMALL SCALE SECTOR

1. SMALL SCALE SECTOR :

Industry Category	No. of Units		Place of concentration	Fixed investment (Rs. lac)	Employment	Capacity (Rs. lac)	Prod. value 82-83 (Rs. lac)	Main raw-material used in 82-83		Percentage of sale			Main item produce under industry category	
	Regd.	Un-Regd.						Local	Out side Distt.	With in the distt.	With in the distt.	Out side the distt.		
1. Agrobased	300	—	300	Sonepat, Ganaur Kharkhoda	150	1500	1800	600	Yes	—	95	5	0	Flour, oil cotton ginning
2. Forest based	250	—	250	Gohana & Ganaur	90	1250	1200	400	Yes	Yes	70	30	—	Wooden Furniture & other wooden products
3. Mineral based	20	—	20	Sonepat	10	200	150	60	Yes	—	100	—	—	Bricks & Tiles
4. Textile/Hand-loom	350	—	350	Gohana, Kharkhoda	105	1750	1500	525	Yes	Yes	40	60	—	Tape, Niwar & other H. loom prod.
5. Engg. & Allied	850	—	850	Sonepat city, Gohana & GT Rd.	400	4000	5000	1800	—	Yes	30	50	20	Agri, Implements engg. goods.
6. Chemical based Rubber Goods	375	—	375	GT Road Rai & Kundli	225	2000	3500	1200	—	Yes	25	60	15	Salt, Candle, Ink, Medicine etc.
7. Animal Husbandry	50	—	50	Sonepat block	05	250	50	20	Yes	Yes	45	50	5	Poultry, Dairy Farmings, Leather goods,
8. Building material/ceramics	100	—	100	Sonepat city, Ganaur & Gohana	30	500	300	120	Yes	Yes	80	20	—	Pottery, Sanitary fitting etc.
9. Others	616	—	616	Sonepat	300	3000	3500	1300	Yes	Yes	100	—	—	Leather shoes other misc. items service, repairing etc.
10. Ancillary	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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CHAPTER—V

D ARTISAN BASED UNITS

Sr.	<i>Name of industry category</i>	<i>No. of units</i>	<i>Places of concentration</i>	<i>Employment</i>	<i>Estimate value of production in 82-83</i>	<i>Main items of production in the industry category</i>
1	2	3	4	5	6	7
1.	Shoes making	271	Ganaur, Gohana, Kharkhoda	305	2.60	Desi jutti
2.	Pottery	29	Gohana, Sonapat	58	0.86	Earthern pitchers, Flower pots
3.	Carpentary	107	Gohana, Sonapat, Ganaur, Kharkhoda	214	2.12	Wooden work, fitting material, pahwas, Doors, Chaughats.
4.	Blacksmithy	97	Sonapat, Ganaur, Gohana, Kharkhoda	189	3.15	Repair of Agri. Imp. job work of kassi, tasla etc.
5.	Mulberry baskets	41	Mudlana, Kathura, Sonapat	41	0.27	Baskets
6.	Baan making	02	Sonapat	2	0.12	Baan
7.	Weavers	69	Ganaur, Gohana, Kharkhoda	69	0.78	Khes, Khaddar.

CHAPTER—VI

LIST OF INDUSTRIAL OPPORTUNITIES FOR DISTRICT SONEPAT

A. Resources Based Industries

1. Cattle Feed
2. Poultry Feed
3. Cold storage
4. Chilly Powder
5. Paint Brushes
6. Khandsari
7. Shoe laces
8. Absorbent cotton
9. Gobar Gas Plant
10. Sauce, pickle and chilly powder mfg. unit
11. Dal Mills
12. Flour Mills
13. Bone meal
14. Oil expeller units for extrusion of oil from Mustard/Toria seeds
15. Semi-mechanised bakery
16. Fuel briquettes
17. Glue making unit.

B. Demand Based Industries

1. Agricultural Implements
2. Readymade Garments
3. Auto parts
4. Rolling shutters
5. Optical glasses
6. Stationary items
7. Domestic Electrical Appliances
8. General Engineering Workshop
9. Bakelite Electrical Accessories
10. Rubber mould goods
11. Tyre Retreading

12. P.V.C. Cables
13. Mechanical toys
14. Straw Mill Board
15. Leather footwear
16. Tannery
17. Dyeing Centre for handlooms
18. Auto Servicing & repairing Workshop
19. Soap detergents
20. Cotton Hosiery
21. Woollen Hosiery
22. Motor Winding/Repairs
23. Room coolers
24. Oil seals
25. Blow moulded plastic containers
26. Pressures gauges
27. Ammonia Paper
28. Handloom Products
29. Domestic pressure cookers
30. Electric motor & coolant pump
31. Auto lamps
32. Surgical bandages
33. Washing machine
34. Dehydrated vegetables
35. Fluorescent tubes/lamps
36. Solid state voltage stabilizer
37. Tape recorders
38. Audio-Video Type magnetic tapes
39. Electronic Process Control System
40. Manhole covers
41. Sanitary towels
42. Industrial Sewing machines
43. Brief cases
44. Mixers and grinders
45. Hearing aids
46. Ice cream

47. Emergency lamps
48. Drugs & pharmaceuticals
49. Machine tools
50. Heavy Electrical Equipments

C. Ancillary Industries

1. Cycle parts
2. Corrugated and card board boxes
3. Textile chemicals
4. Moped parts
5. Metallic hooks for packing cases
6. Soldering wire
7. Tool room
8. Heat treatment shop
9. Electroplating
10. Woven polythene bags
11. Metal caps
12. Wooden boxes
13. Wax coated paper
14. Centrifugal castings
15. Assembly shop
16. Repair shop for machinery components & parts
17. Polishing unit.



CHAPTER—VII

BRIEF ANALYSIS OF CANDIDATE INDUSTRIES

AGRO BASED (Based on skill & raw) :—Agro based food processing units have been accorded special place in the development of strategy of the country. Raw material is easily available and Haryana being agricultural area stress can be laid on nose and proper utilisation of agricultural resources/residues. It will not help in easing burden on land. but also provide employment and ready market for the products in local vicinity.

ENGG. BASED ALLIED :—In present day society, there is wind of change from conventional method to modern acventies. Economy being agricultural based, scientific methods are in more use now. There is good chance of engg & allied industries. Electrical appliances have good market and can be exported also.

WOMEN ENTREPRENEURS :—The most suitable industry for woman are Sewing, Knitting and Embroidery, for this requisite machinery and implements, toll will help in supplement these income. Educated women can set up tiny unit for consumer items, and goods of household consumption.

SKILL BASED :—Handloom units can absorb skilled, semi skilled workers and even women also. Sports item have unimense markets and nearness to Delhi give it wide and good market for all types of products. Sports unit have good scope and potential for providing of employment.

CHEMICAL & DRUGS :—Manufacture of Rubber products in Small scale sector can be easily developed. This line of production has assured high and quick returns and have a good marketing purposal. Proximity to the capital further helps in setting up of such type of industry as market is easily available.

ANCILLARY INDUSTRIES : For accelariting the development of prospecture industries in the area it has been observed that dvelopment of ancillary industries is one of the mojour activities of industries centre. Atlas cycleworks and Bharat Steel Tubes provided good opportunity for setting up of ancillary and servicing unit.



CHAPTER—VIII

SPECIAL INFRASTRUCTURE NEEDED

In order to accelerate the pace of industrialisation in District Sonapat, the below noted infrastructure required to be developed :—

1. Opening of a stockyard by SAIL at Sonapat

There is at present only one stockyard of SAIL at Ballabgarh in this state. No yard has been set up by other main producers *i.e.* HISCO and TISCO in Haryana. The matter for opening of more stockyard had already been taken up by this Department and by the H.S.S.I. & E.C. Ltd., with Government of India and Steel Authority of India Ltd., but no decision has been taken in this behalf so far.

Haryana State Small Industries & Export Corporation Ltd. have got one raw-material depot at Sonapat through which various raw-materials such as Iron & Steel, Pig-Iron, wax etc. are supplied to S.S.I. units. Besides these are raw materials depots in the nearby places like Panipat, Bahadurgarh and Rohtak and demand of the units of Sonapat District can also be met. Since there is not sufficient demand of Pig Iron in Sonapat District the material is procured by the Corporation in sack load at Panipat and the demand of units Sonapat District is also met from Panipat Railway Station by endorsement of documents. This place is also near to Sonapat.

2. Opening of Coal Dump by CIL at Sonapat

Coal India Ltd. have already taken steps to set up Coal Dump at Sonapat and it will start functioning shortly. This will go a long way in boosting the development of industries in this district.

3. Setting up of New Industrial Areas

During the last five years, industrial development in this district has taken place on G.T. Road from Kundli to Murthal. Haryana State Industrial Development Corporation had already developed industrial complex Phase I and Phase II at Kundli where industrial plots of different sizes have been carved out and allotted to entrepreneurs.

There is a necessity of establishment of Industrial Area at Bahalgarh where Industrial plots of different size may be carved out and allotted to entrepreneurs. The industrial area can be established by Haryana State Industrial Development Corporation or Haryana Urban Development Authority.

4. Development of Ancillary Industries

Industries Department, Haryana had already established ancillary industrial complex at Murthal where sheds have been constructed by HSIDC for Atlas Cycle Industries Ltd. Entrepreneures have been identified by Industries Department & Management of Atlas Cycle Industries Ltd. for setting up of ancillary units which will supply parts and components to the Atlas Cycle Industries Ltd.

There is a further scope and potential for development of ancillary industries for below-noted large scale units :—

1. Electric Construction & Equipment Co. Ltd., Sonapat.
2. Gedore Tools Ltd.
3. Hindustan Everest Tools Ltd.
4. Indo Asian Fusegear Co. (P) Ltd., Murthal.
5. Bharat Steel Tubes Ltd., Ganaur.
6. Atlas Auto Industries Ltd., Sonapat.
7. Milton Cycle Industries Ltd., Sonapat.

It is expected that about 30-40 ancillary units can be set up for the above units.

5. Arrangement for Disposal of Industrial Waste

A number of large scale units have been set up at Murthal Kundli on both sides of G.T. Road. There is an urgent need for arrangement to be made for disposal of industrial effluents and waste so as to maintain the Hygenic working conditions.

6. Marketing Avenues :

Rural & Small Scale units find problems in marketing their products. Haryana State Small Industries and Export Corporation have already reserved about 26 items under Rural Industries Scheme. There is enough scope for bringing more items under the reserved list. There is also a need to explore more marketing avenues for the sale of products of small scale units.

7. Sports Goods Complex Marketing :

State Government have established a Sports Goods Complex at Murthal where 99 sheds have been constructed. Besides this, a Training-cum-Facility Centre has been set up there to provide common facility to the entrepreneurs and also training facilities.

8. Testing Centre for Sports Goods :

In order to provide testing facilities to the sports goods unit it has been proposed by Ministry of Industrial Development, Regional Testing Centre Okhla to set up a quality marking centre at Murthal.

There is an urgent need of reserving sports good items under Rural Industries Scheme so as to help the units in marketing their products. Education Department and Sports Department have to be persuaded to help the sports goods units at Murthal in marketing their products.

8. Establishment of Tool Room Facility :

There is large concentration of mechanical industries in the district. The industrial units have to get their work pertaining to manufacture of dies, tools, jigs, fixtures from other places. There is a need for establishment of tool room facility.

B. FISCAL INFRASTRUCTURE

ENTREPRENURIAL DEVELOPMENT PROGRAMME :

There is a constant need of organising *Entrepreneurial Development Programme* in the district so as to motivate and train young people to take up the setting up of industries particularly in the rural area. This programme was earlier conducted in the year 1982 by the Punjab National Bank, Lead Bank of the District. It is proposed that more and more such programmes may be organised by the Lead Bank or Small Industries Service Institute in this District.



CHAPTER=IX

SCHEDULE-II

NAME OF INDUSTRY CATEGORY AGRO BASED INDUSTRIES

WORK PROGRAMME 1983-84 TO 1987-88

	<i>Name of production items under the Agro based category</i>	<i>No. of units to be set per year</i>			<i>Name of the block/blocks</i>	<i>Employment to be generated (nos.)</i>	<i>Fixed investment required (Rs. in lakh)</i>	<i>Total credit required (Rs. in lakh)</i>	<i>Yearly estimated production value (Rs. in lakh)</i>
		<i>Art.</i>	<i>SSI</i>	<i>Total</i>					
1983-84	Agri. Implements	43	31	74	Ganaur, Sonapat	212	15.50	22.00	22.00
	Fruit Presevation & Food Products	20	14	34	—do—	105	4.40	6.00	8.00
1984-85	Agri. Implements	47	34	81	—do—	245	16.75	24.0	24.00
	Fruit Presevation & Food Products	26	15	41	—do—	115	5.05	07.00	9.50
1985-86	Agri. Implements	55	39	94	—do—	285	18.15	25.50	26.50
	Fruit Presevation & Food Products	31	17	48	—do—	148	6.45	08.45	10.70
1986-87	Agri. Implements	66	46	112	—do—	341	19.55	26.80	28.75
	Fruit Presevation & Food Products	38	23	61	—do—	185	8.15	10.20	12.15
1987-88	Agri. Implements	75	53	128	—do—	385	21.15	28.00	31.15
	Fruit Presevation & Food Products	43	26	69	—do—	209	9.45	11.00	14.45

SCHEDULE—II

NAME OF INDUSTRY CATEGORY CHEMICAL BASED INDUSTRY

WORK PROGRAMME 1983-84 TO 1987-88

	Name of production items in chemical based industries	No. of units to be set up per year			Name of the Block/Blocks	Employment to be generated (nos.)	Fixed investment required (Rs. 1 lakhs)	Total credit required (Rs. 1 lakh)	Yearly estimated production value (Rs. 1 lakh)
		Art.	SSI.	Total					
1983-84	Soap	2	8	10	Sonepat, Gohana	42	1.5	2.30	4.00
	Candle	1	4	5	Ganaur, Rai	12	0.10	0.80	3.20
	Pharmaceutical	—	10	10		62	15.00	23.40	42.05
	Rubber & Plastic	5	15	20		104	16.50	19.60	15.30
	Other Chemical	5	25	30		142	15.30	20.05	23.40
1984-85	Soap	3	9	12	—do—	48	1.7	2.70	5.15
	Candle	1	4	5		12	0.15	0.95	4.00
	Pharmaceutical	—	12	12		71	16.00	25.00	45.15
	Rubber & Plastic	6	17	23		134	17.50	20.75	16.30
	Other Chemical	6	27	33		163	16.35	21.45	25.40
1985-86	Soap	3	9	12	—do—	48	1.7	2.89	5.95
	Candle	2	6	8		15	0.24	1.24	5.00
	Pharmaceuticals	—	15	15		77	17.00	26.20	46.17
	Rubber & Plastic	7	18	25		154	19.00	22.40	17.15
	Other Chemical	8	31	39		177	17.15	22.15	27.00
1986-87	Soap	4	10	14	—do—	56	1.8	3.20	7.00
	Candle	2	16	8		15	0.28	1.48	6.00
	Pharmaceutical	—	17	17		77	18.00	27.40	47.00
	Rubber & Plastic	7	18	25		172	20.50	24.10	18.00
	Other Chemical	10	32	42		193	18.00	23.60	28.00
1987-88	Soap	5	11	16	—do—	64	2.00	3.60	8.00
	Candle	3	6	9		17	0.31	1.71	7.15
	Pharmaceutical	—	19	19		87	12.02	28.80	49.00
	Rubber Plastic	8	18	26		185	22.00	25.80	19.00
	Other Chemical	1	33	34		215	18.75	25.55	29.00

SCHEDULE—II

NAME OF INDUSTRY CATEGORY BUILDING MATERIAL BASED INDUSTRIES

WORK PROGRAMME 1983-84 TO 1987-88

	Name of production items in Building Material Based Industries	No. of units to be set up per year			Name of Block/Blocks	Employment to be generated	Fixed investment required (Rs. in lakh)	Total credit requirement (Rs. in lakh)	Yearly estimated production value (Rs. in lakh)
		Art.	SSI	Total					
1983-84	Wooden Material	5	7	12	Rai, Sonapat	48	2.20	3.40	6.00
	Iron material	4	14	18	Gohana	72	3.10	5.10	10.20
	Bricks	—	5	5		422	5.05	4.35	32.40
	Other Bldg. Material	—	3	3		15	2.10	3.20	5.50
1984-85	Wooden material	5	8	13	—do—	53	2.45	3.75	6.50
	Iron material	4	16	20	—do—	82	3.45	5.50	10.35
	Bricks		5	5	—do—	422	6.05	14.00	39.50
	Other Bldg. Material		4	4	—do—	16	2.15	3.30	5.75
1985-86	Wooden material	6	11	17	—do—	68	2.95	4.40	7.15
	Iron material	6	19	25	—do—	75	4.00	6.20	11.15
	Bricks		6	6	—do—	515	7.15	16.35	46.00
	Other Bldg. material	1	5	6	—do—	24	2.95	3.55	3.15
1986-87	Wooden material	8	14	22	—do—	87	3.45	5.05	8.15
	Iron material	7	22	29	—do—	88	5.00	7.40	12.10
	Bricks		7	7	—do—	595	8.15	19.15	54.15
	Other Bldg. material	1	6	7	—do—	28	3.75	4.55	4.00
1987-88	Wooden material	8	16	24	—do—	96	4.00	5.80	9.00
	Iron material	7	24	31	—do—	97	5.50	8.10	13.15
	Bricks		7	7	—do—	515	9.10	21.70	63.00
	Other Bldg. material	8	16	24	—do—	28	4.15	5.15	5.00

SCHEDULE—II

NAME OF INDUSTRY CATEGORY ENGINEERING & ALLIED BASED INDUSTRIES

WORK PROGRAMME 1983-84 TO 1987-88

	Name of production items in Engg. & Allied Based Industries	No. of units to be set up per year			Name of Block/Blocks	Employment to be generated	Fixed investment required (Rs. in lakh)	Total credit requirement (Rs. in lakh)	Yearly estimated production value (Rs. in lakh)
		Art	SSI	Total					
1983-84	Steel Fabrication	12	10	22	Sonepat	88	3.50	5.50	10.20
	Steel Furniture	8	12	20	Rai	72	3.00	5.60	13.00
	Engineering goods	15	17	32	Ganaur	94	4.50	8.20	18.50
	Other Allied production	10	14	24	Gohana	86	4.20	7.25	15.30
1984-85	Steel Fab	15	12	27	—do—	98	4.00	6.20	11.00
	Steel Furniture	10	15	25	—do—	82	3.50	6.30	14.00
	Engg. Goods	19	21	40	—do—	104	5.00	8.80	19.00
	Other Allied items	12	17	29	—do—	96	4.70	7.90	16.00
1985-86	Steel Fabrication	19	14	33	—do—	110	4.6	7.20	13.15
	Steel Furniture	12	18	30	—do—	94	4.10	7.20	15.10
	Engg. goods	22	25	47	—do—	116	5.70	10.00	21.5
	Other Allied items	15	20	35	—do—	108	5.30	8.80	17.5
1986-87	Steel Fabrication	24	18	42	—do—	115	5.50	8.50	15.00
	Steel Furniture	16	21	37	—do—	105	4.70	8.00	16.85
	Engg. goods	26	29	55	—do—	131	6.50	10.90	22.10
	Other Allied items	18	24	42	—do—	183	5.90	9.50	18.15
1987-88	Steel Fabrication	27	20	47	—do—	120	6.00	9.40	17.00
	Steel Furniture	18	24	42	—do—	110	6.00	9.40	19.00
	Engg. goods	28	32	60	—do—	136	7.50	2.30	24.00
	Other Allied items	20	27	47	—do—	128	7.00	11.00	20.00

SCHEDULE—II

NAME OF INDUSTRY CATEGORY TEXTILE BASED INDUSTRIES

WORK PROGRAMME 1983-84 TO 1987-88

	Name of production items under the Textile Based Category	No. of units to be set up per year			Name of Block/Blocks	Employment to be generated	Fixed investment required (Rs. in lacs)	Total Credit requirement (Rs. in lacs)	Yearly estimated production value (Rs. in lacs)
		Art.	SSI	Total					
1983-84	Handloom goods	52	21	73	Kharkhoda	219	8.00	13.20	25.20
	Cotton cloth	--	4	4	Gohana	32	5.00	8.60	18.50
	Niwar		5	5	Sonepat	35	5.20	9.40	20.80
	Readymade garment	3	7	10	Ganaur	42	2.30	3.40	5.60
1984-85	Handloom goods	61	24	85	--do--	233	8.5	13.80	27.00
	Cotton cloth	1	6	7	--do--	41	5.2	9.00	19.00
	Niwar	5	1	6	--do--	39	5.30	9.60	21.50
	Readymade garment	4	8	12	--do--	49	2.40	3.65	6.15
1985-86	Handloom goods	70	27	97	--do--	275	9.5	15.25	28.75
	Cotton cloth	1	8	9	--do--	52	5.4	9.40	20.15
	Niwar	1	6	7	--do--	46	5.50	9.90	22.00
	Readymade garment	4	11	15	--do--	55	2.65	4.05	22.00
1986-87	Handloom goods	77	33	110	--do--	305	10.7	16.70	29.95
	Cotton cloth	2	12	14	--do--	65	5.9	10.30	22.00
	Niwar	2	19	21	--do--	52	6.10	10.80	23.50
	Readymade garment	5	13	18	--do--	69	3.05	4.55	7.50
1987-88	Handloom goods	88	42	130	--do--	335	11.5	17.90	32.00
	Cotton cloth	2	14	16	--do--	73	6.5	11.20	23.00
	Niwar	2	11	13	--do--	61	6.75	11.75	25.00
	Readymade garment	6	17	23	--do--	76	3.85	5.60	8.00

SCHEDULE—II

NAME OF INDUSTRY CATEGORY FOREST BASED INDUSTRY

WORK PROGRAMME 1983-84 TO 1987-88

	<i>Name of production items in Forest Based Industries</i>	<i>No. of units to be set up per year</i>			<i>Name of Block/Blocks</i>	<i>Fixed investment required (Rs. in la)</i>	<i>Total credit requirement (Rs. in lacs)</i>	<i>Yearly estimated production value (Rs. in lacs)</i>	<i>Employment to be generated</i>
		<i>Art.</i>	<i>SSI</i>	<i>Total</i>					
1983-84	Wooden Furniture	12	8	20	Ganaur, Gohana	2.5	4.10	8.00	82
	Other wooden production	33	24	57	Sonepat	8.5	12.50	20.00	228
1984-85	Wooden Furniture	14	9	23	--do--	3.2	4.95	9.00	92
	Other wooden production	38	26	64	--do--	10.7	15.10	22.00	249
1985-86	Wooden Furniture	16	11	27	--do--	4.2	6.30	10.5	105
	Other wooden production	42	28	70	--do--	12.5	17.50	24.5	275
1986-87	Wooden Furniture	20	14	34	--do--	5.6	7.85	11.7	121
	Other wooden production	46	30	76	--do--	14.7	19.00	26.5	305
1987-88	Wooden Furniture	24	16	40	--do--	7.5	9.50	13.5	145
	Other wooden production	50	32	82	--do--	17.2	21.50	28.5	358

SCHEDULE—II

NAME OF INDUSTRY : CATEGORY ANIMAL HUSBANDRY BASED INDUSTRY

WORK PROGRAMME 1983-84 TO 1987-88

Name of production items in chemical based industries	No. of units to be set up per year			Name of the Block/Blocks	Employment to be generated (nos.)	Fixed investment required (Rs. 1 lakhs)	Total credit required (Rs. 1 lakh)	Yearly estimated production value (Rs. 1 lakh)
	Art.	SSI.	Total					
1983-84 Dairy	1	—	1	Sonepat	3	0.15	0.25	0.50
Poultry	1	—	1	—do—	4	0.18	0.35	0.70
1984-85 Dairy	2	—	2	—do—	6	0.32	0.55	1.00
Poultry	2	—	2	—do—	8	0.40	0.70	1.40
1985-86 Dairy	3	—	3	—do—	9	0.48	0.78	1.50
Poultry	3	—	3	—do—	12	0.56	0.98	2.10
1986-87 Dairy	4	—	4	—do—	12	0.63	1.03	2.00
Poultry	4	—	4	—do—	16	0.67	1.23	2.80
1987-88 Dairy	5	—	5	—do—	15	0.79	1.29	2.50
Poultry	5	—	5	—do—	20	0.81	1.51	3.50

SCHEDULE—II

NAME OF INDUSTRY : CATEGORY OTHER BASED INDUSTRIES

WORK PROGRAMME 1983-84 TO 1987-88

	<i>Name of production items in Other Based Industries</i>	<i>No. of units to be set up per year</i>			<i>Name of the block/blocks</i>	<i>Employment to be generated (nos.)</i>	<i>Fixed investment required (Rs. in lakh)</i>	<i>Total credit required (Rs. in lakh)</i>	<i>Yearly estimated production value (Rs. in lakh)</i>
		<i>Art.</i>	<i>SSI</i>	<i>Total</i>					
1983-84	Leather Goods	32	38	70	Sonepat, Gohana Ganaur, Kathura, Mudhlana	140	1.5	2.20	3.5
	Others	05	8	13	—do—	35	5.0	7.00	10.30
1984-85	Leather Goods	36	41	77	—do—	155	1.7	2.45	3.7
	Others	4	9	13	—do—	42	6.0	8.20	11.00
1985-86	Leather Goods	42	43	85	—do—	172	2.5	3.30	4.3
	Others	5	11	16	—do—	49	7.5	10.20	13.5
1986-87	Leather Goods	45	50	95	—do—	194	3.5	4.80	6.5
	Others	6	13	19	—do—	25	8.4	11.30	14.7
1987-88	Leather Goods	50	58	108	—do—	215	4.3	5.80	7.5
	Others	7	16	23	—do—	32	9.3	12.40	15.5

SCHEDULE—II

NAME OF INDUSTRY : CATEGORY MINERAL BASED INDUSTRIES

WORK PROGRAMME 1983-84 TO 1987-88

<i>Name of production items in Mineral Based Industries</i>	<i>No. of units to be set up per year</i>		<i>Name of the Block/Blocks</i>	<i>Employment to be generated</i>	<i>Fixed investment required (Rs. in lacs)</i>	<i>Total credit requirement (Rs. in lacs)</i>	<i>Yearly estimated production value (Rs. in lacs)</i>
	<i>Art.</i>	<i>SSI Total</i>					
1983-84							
1984-85							
1985-86							
1986-87							
1987-88							

N I L

LIST OF PROJECT PROFILES

1. Hockey Sticks
2. Agricultural Implements
3. Steel Chair
4. Steel Almirah
5. Voltage Stabilizer
6. Wax Candles
7. Auto Service & Repairing
8. Washers
9. Job Work
10. Wooden Furniture
11. Repair of Radio/Transistor
12. Card Board Boxes
13. Bakery
14. Oil Expeller/Flour Mill
15. Rolling Shutter
16. Fluorescent Tube
17. Digital Clock
18. Plastic Niwar
19. Readymade Garments
20. Repair of Electric Motor
21. Video Cassette

However idea of few projects have been given for the help and guidance of of Entrepreneurs as :

1. Rubber Moulded Goods
2. Paints
3. Lab. Chemicals
4. Tyre Retreading
5. Rubberised Cloth
6. Floor Polish
7. Latex Foam
8. Electronic Thermometer
9. Electronic Pube Counter
10. Liquid Shoe Polish
11. Glass Surpoules
12. Stencil Paper
13. Rubber Blowing Agent
14. Sodium Silicate



Hockey Sticks

The demand of hockey sticks is increasing day by day as hockey is popular both in the country and abroad Mulberry timber cane is used for the manufacture of sticks which is easily available in the country.

Capacity : 30,000 pieces of hockey sticks per year.

Financial Aspects :—

Land & Building	On Rent
Machinery & Equipment :	
1. Band saw machine	2900/-
2. Blade shaving machine	1000/-
3. Stamping press	1200/-
4. Wood steames boiler/binding press	12500/-
	17600/-
Office equipment	1640/-
Tools	3760/-
	23000/-

Working Capital P.M. :—

(a) Staff & Labour :

(i) Supervisor	2		1300/-
(ii) Skilled worker	4	Rs. 500/-	2000/-
			3300/-

(b) Raw Material :

Wood, Cane, Fibre etc. 25000/-

(c) Exp. Item :

Rent	500/-
Elect/Fuel	275/-
Other Exp.	125/-
	900/-

Working capital P. M. 29200/-

Total Investment :—

Fixed capital	23000/-
Working capital (For 2 months)	58400/-
	<u>81400/-</u>

Cost of Production :—

Recurring Expenditure	3,50,400/-
Dep. on Machinery 10%	1936/-
Dep. on Tools/jigs	728/-
Int. on Investment 15%	12210/-
	<u>3,65,274/-</u>

Turnover Per Year :—

Hockey sticks 30,000 Pcs.
@ Rs. 15/- 4,50,000

Profit 4,50,000—365274=84726



3600
19/2/82

1000/

Agricultural Implements

Agricultural Implements are widely used in the country as the economy is agricultural Prone.

Land & Building	Rented
Plant Machinery :	
1. Blower	4000/-
2. Hand Tools etc.	3000/-
3. Electrification	4000/-
	8000/-
Staff & Labour P.M. :	
Skilled worker	1 No. 800/-
UnSkilled worker	2 No. 700/-
	1500/-
Raw Material P.M. :	
M.S. Angle (75 × 10 mm)	7000/-
Saria (25 mm)	
Expenses P.M. :	
Rent	200/-
Elec./Water	200/-
Fuel	400/-
Repair	200/-
	1000/-
Working Capital per month :	
Wages	1500/-
Raw Material	7000/-
Expenses	1000/-
	9500/-

Total Investment :

Plant Machinery	8000/-
2 months working capital	19000/-
	<u>27000/-</u>

Cost of Production P.A. :

Working Capital	1,14,000/-
Dep on Machinery	800/-
Interest	3240/-
	<u>1,18,040/-</u>

Sale per annum 1,50,000/-

Profit :

Sales — Cost of Production

1,50,000 — 118040 = 31960



Steel Chairs

Chair of pipes are light in weight, cheap and can be used everywhere. Tent houses use them more. In homes it is used as garden chair.

Capacity : 3000 Chairs.

		Rented
Land & Building		
Plant & Machinery :		
1. Pipe Bending Machines		1000/-
2. Gas Welding Equipment		5000/-
3. Tools/Accessories		1000/-
		7000/-
Staff Labour P.M. :		
Skilled Worker	1 No.	800/-
Semi Skilled Worker	2 No.	900/-
		1700/-
Raw Material P.M. :		
ERW Pipe (22/25 mm)		3750/-
Carbide Paint, Gas etc.		1250/-
Plastic Cane		2000/-
		7000/-
Other Exp. P.M. :		
Rent		600/-
Elect. Charges		125/-
Other Expenses		250/-
		975/-
Working Capital P.M. :		
Raw Material		7000/-
Staff Labour		1700/-
Other Expenses		975/-
		9675/-
For 2 Months say		19350/-

Investment :

Plant Machinery	7000/-
Working Capital	19350/-
	<hr/>
	26350/-
	<hr/>

Cost of Production Per Year :

Working Capital	1,35,000/-
Dep on Machinery 10%	700/-
Int. on Investment	2662/-
	<hr/>
	1,19,662/-
	<hr/>

Sales :

3000 Chairs @ Rs. 45/- per piece 1,16,000/-

Gross Profit = Sales — Cost of Production

Rs. 1,35,000 — 1,19,662 = Rs. 15338/-



Steel Almirah

Steel Almirah are needed in homes/offices edu. institutions etc. There demand is always there.

Capacity : Big Size 60 pieces

Small Size 120 pieces per annum at 300 working day.

Land & Building	Rented
-----------------	--------

Plant & Machinery :

Hand Machine/Press 2.5 M.T. 16 gauze.	7500/-
Hand Tools	2500/-
Furniture/Installation charges	1500/-
Gas Welding Set	4500/-
	16,000/-
	16,000/-

(a) Staff & Labour P.M. :

Skilled Worker	800/-
Semi Skilled Worker	900/-
	1700/-
	1700/-

(b) Raw Material P.M. :

B P./CRCA Sheet 20 to 26 gauze	8000/-
Locks, Hinges	1500/-
Other exp. repair & maintenance	800/-
Fuel/consumable store	120/-
Rent	300/-
	10720/-
	10720/-

Working Capital P.M. :

Staff Labour	1700/-
Raw Material	9500/-
Other expenses	1220/-
	12,420/-
	12,420/-

For 3 months say

Rs. 37,260/-

Total Investment :

1. Plant Machinery	16000/-
2. Working Capital (one month)	12420/-
	<hr/>
	28,420/-
	<hr/>

Cost of Production per year :

1. Working Capital	149040/-
2. Dep. on machinery 10%	1700/-
3. Interest	3170/-
	<hr/>
	1,53,810/-
	<hr/>

Sales Per Year :

1. 60 Big Size Almirah @ 1200/- per pieces	72000/-
2. 20 Small Size Almirah @ 775/- pieces	93000/-
3. Scrap	4500/-
	<hr/>
	1,69,000/-
	<hr/>

Profitability :

Sales — Cost of production
169000 — 153810 = 15190/- Rs.



Voltage Stabilizer

Voltage variation is hazard to electronic equipments. Voltage stabilizer adjusts excessive high or low voltage to desired voltage necessary for the equipment.

Capacity : 2400 units per annum at 300 working days.

Financial Aspects :

Land & Building	Rented
-----------------	--------

Plant & Machinery :

Winding Machines	1500/-
Impregnation Tank	1000/-
Multimeter/Testing Panel	1250/-
Oscilloscope	2000/-
Audio Signal	2000/-
Elec. Installation charges	775/-
Tools/Jigs	1475/-
	<u>10,000/-</u>

Working Capital :

Supervisor	1	800/-
Skilled Worker	3	1500/-
Unskilled worker	1	275/-
		<u>2575/-</u>

Raw Material required Per Month :

Stamping silicon steel	3000/-
Chairs	4250/-
Dial Plate	213/-
Voltmeter	8500/-
Resistances	850/-
Capacitors	850/-
Super Enamelled wire copper	10,000/-
Electromagnetic Relay	1700/-
Other Material	9337/-
	<u>37,000/-</u>

Other Expenses P.M. :

Rent	300/-
Power/Fuel	450/-
Transport/Consumable store	700/-
Repair	200/-
	<hr/>
	1650/-
	<hr/>

(Working Capital) 41330/-

Total Investment :

Fixed Capital	10,000/-
Working Capital	1,23,900/-
	<hr/>
	1,33,900/-
	<hr/>

Say Rs. 134000/-

Cost of Production :

Recurring Expenditure	4,95,600/-
Dep. on Machinery 10%	1100/-
Int. on investment	20150/-
	<hr/>
	5,16,850/-
	<hr/>

Say Rs. 5,17,000/-

Turnover Per Year :

2400 units @ 250 6,00,000

Profit = Sales — Cost of Production = 6,00,000 — 5,17,000 = 83,000/-



Wax Candles

Candles are widely used for lighting & illuminations in household, churches, religious places etc.

Capacity : Production of candles 60 M T. per annum based on 300 days working per year.

Land & Building Rented

Plant & Machinery :

Candle moulding machines	7500/-
Wax melting vessels	500/-
Tools/Jigs	500/-
Office equipment	500/-
Physical balance/Clippers	1000/-
	10,000/-

Working Capital per month :

(a) Staff Labour :

i) Supervisor	1 No.	870/-
ii) Skilled worker	2 No.	600//
iii) Unskilled worker	3 No.	400/-
		1870/-

(b) Raw Material :

Parafin Wax	5 M.T. @ Rs. 9000/-	45,000/-
Steasic Acid	250 kg. @ Rs. 15/-	3750/-
Dyes		250/-
Packing, Wicks		2900/-
		51,900/-

Other Expenditure :

Power/Fuel	200/-
Advt./Transport	200/-
Consumable store	250/-
Postage/Stationery	250/-
Rent	200/-
	1 100/-

Recurring Expenditure 54870/-

Total Investment :

Fixed Capital	10,000/-
Working Capital	54,870/-
	<u>64,870/-</u>

Cost of Production Per Year :

Working capital per year	6,58,440/-
Dep. on machinery 10%	1000/-
Int. on Investment	9000/-
	<u>6,68,440/-</u>

Turnover Per Year :

Candles 60 MT @ Rs. 12000 per ton 7,20,000

Profit : Rs. 51560/-



Auto Service & Repairing

With increase in two wheelers is (Scooter/Mopeds) repairing and servicing of vehicles is becoming must day by day. There is good scope of auto repair/service workshop.

Economy of the Service :

• Land & Building Rented

Plant & Machinery :

Differnt type of Tools, Hand Tools, Compressor	4500/-
Furniture	500/-
	5000/-

Staff & Labour :

1. Skilled worker	1	800/-
2. Semi skilled worker	1	600/-
3. Apprentice	3	600/-
		2000/-

Raw Material :—Spare parts needed per month approx. Rs. 4000/-

Other Expenses :

Rent	800/-
Elec.	150/-
Misc. exp.	150/-
	1100/-

Working Capital p.m. :

Staff & Labour	2000/-
Raw Material	4000/-
Other Expenses	1100/-
	7100/-

For 3 months say Rs. 21,300/-

Total Investment :

Plant Machinery	5000/-
Working Capital (3 months)	21300/-
	26300/-

Cost of Production P.A. :

1. Working Capital	85200/-
2. Dep. on Machinery 20%	1000/-
3. Interest	3156/-
	<u>89,356/-</u>

Income from Servicing/Repair :

Scooter/Moped	46500/-
Income from spare parts	50400/-
	<u>96,900/-</u>

Gross Profit :

Income from servicing and repairing
 $96900 - 89356 = \text{Rs. } 7544$



Washers

Washers are needed in roofing and are attached with J. Bolt. They are widely used in urban/rural areas.

Capacity : 15 M.T. per annum at 300 working day per year.

Land & Building Rented

Plant & Machinery :

Flop Press 4 No.	2100/-
Flop Press 2 No.	2800/-
Die Punch Set	1000/-
Accessories	1100/-
	7000/-

Staff & Labour :

Skilled worker	1	800/-
Semi-skilled worker	2 @ 450/-	900/-
		1700/-

Raw Material P.M. :

G.P. Sheet—cutting 20 to 26 gauze 2 M.T. 4000/-

Other Exp. P.M. :

Rent	400/-
Consumable store	250/-
Other Expenses	100/-
	750/-

Working Capital P.M. :

Salaries & wages	1700/-
Raw Material	4000/-
Other Expenses	750/-
	6450/-

Total Investment :

1. Plant & Machinery	7000/-
2. Working Capital (3 months)	19350/-
	26350/-

Cost of Production P.A. :

1. Working Capital	77400/-
2. Dep. on machinery 10%	700/-
3. Interest	3162/-
	<hr/>
	81,262/-
	<hr/>

Sales Per Year :

1. 15 tonne washer @ 5600/- ton	84000/-
2. 9 tonne scrap @ 900/- ton	8100/-
	<hr/>
	92100/-
	<hr/>

Profitability :

Sales — Cost of production
92100 — 81262 = 11738



Job Work

Economy of the Scheme :

Land & Building Rented

Plant & Machinery :

1. Lathe Machine	1 No.	15000/-
2. Grinder	1 No.	1200/-
3. Drill Machine	1 No.	2000/-
4. Installation Exp.	1 No.	1000/-
5. Accessories		1800/-
		21,000/-

Staff & Labour :

Skilled worker	1	900/-
Semi-skilled worker	1	650/-
		1550/-

Raw material will be received from the units

Misc. Expenses per month :

1. Rent		300/-
2. Water/Fuel		150/-
3. Stationery/Elec./Repair		275/-
		725/-

Working Capital per month :

Wages & Salaries		1550/-
Expenses P.M.		725/-
		2275/-

Total Investment :

1. Plant & Machinery		21000/-
2. Working Capital		2275/-
		23,275/-

(50)

Total Expenses per year :

1. Working Capital	27,300/-
2. Dep. on machinery 10%	2100/-
3. Interest	2793/-
	<hr/>
	32,4931
	<hr/>

Income from job work Rs. 3600/- P.M. or Rs. 43200/- P.A.

Gross Profit = 43,200— 32193= 11007 Rs. P.A.



Wooden Furniture

Wooden furniture is used in houses, offices, educational institutes and soon. Wood is available in plenty in this country and unit can be easily set up in remote areas.

Capacity Proposed :

Chairs	1200 Nos
Tables	300 „
Racks	300 „

Fixed Capital :

Land & Building	Rented
-----------------	--------

Machinery & Equipment :

Band saw machine 36" size	9000/-
Circular saw 12"	2500/-
Grinder	1500/-
Lathe 48"	4500/-
Installation Charges	1750/-
Tools	1600/-
Office Equipment	1500/-
	<u>22,350/-</u>

Working Capital P.M. :

Staff Labour		
Skilled worker	3 @ Rs. 600/-	1800/-
Semi skilled worker	3	1225/-
		<u>3025/-</u>

(b) Raw Material P.M. :

Teak wood	6525/-
Black Board	1575/-
Plywood	775/-
Nails, Screws	500/-
Caning	800/-
	<u>10,175/-</u>

Other Expenditure :

1. Power	560/-
2. Rent	400/-
3. Transport	300/-
4. Postage/Stationery	200/-
	<hr/>
	1460/-
	<hr/>

Recurring expenditure 14660/-
Working capital for 2 months say Rs. 29,320/-

Total Investment :

Fixed Capital	22,350/-
Working Capital	29,320/-
	<hr/>
	51,670/-
	<hr/>

Cost of Production :

Recurring expenditure per year	1,75,920/-
Dep. on Machinery 10%	1750/-
Dep. on Tool/Fixtures @ 20%	600/-
Interest @ 15%	7750/-
	<hr/>
	1,86,020/-
	<hr/>

Say Rs. 1,86,000/-

Turnover Per Year :

Chairs	1200 No. @ Rs. 65/-	78,000/-
Table	300 No. @ Rs. 310/-	93,000/-
Racks	300 No. @ Rs. 180/-	54,000/-
		<hr/>
		2,25,000/-
		<hr/>

Profit Before Taxation :

Sales — Cost of Production :
2,25,000 — 1,86,000 = 39,000/-



Repair of Radio/Transistor

Radio/Transistor need repair, servicing often. Spare parts are to be changed

Capacity proposed : Repair of 800 Transistor/Radio per year.

Fixed Capital :

Land & Building	Rented
Plant & Machinery :	
Multimeter	1200/-
Signal generator	1000/-
Soldering Iron	75/-
Tool Kit	500/-
	2775/-

Working Capital per month :

(a) Staff Labour :

i) Skilled worker/Supervisor	2 No.	1400/-
ii) Semi-skilled worker	1 No.	250/-
		1650/-

Raw Material P.M. :

1. Spare Parts	5000/-
2. Solder Wire	30/-
3. Solder Paste	10/-
	5040/-

Other Expenses :

Rent	200/-
Other exp.	250/-
	450/-

Recurring Expenditure 7140/-

Total Investment :

Fixed Capital	2775/-
2 Months Working Capital	14280/-
	17055/-

(54)

Cost of Production P.A. :

Working Capital	85680/-
Dep on Machinery 10%	277/-
Interest on Investment	2046/-
	<hr/>
	88003/-
	<hr/>

Say Rs. 88000/-

Income from Repair/Serviceing :

800 Sets @ Rs. 40/-	32000/-
Income from spare parts	68000/-
	<hr/>
	100000/-
	<hr/>

Profit = Income — Cost of Production = 1,00,000 — 88,000 = 12,000/-



Card Board Boxes .

Card Board boxes are used for packing purposes. These boxes are light in weight, easy storage and higher impact resistance.

Capacity proposed : 2,40,000 boxes on 300 working days per year basis.

Land & Building 150 sq. meter	Rented
Plant & Machinery :	
1. Rotary cutting machine	5000/-
2. Creasing machine	5000/-
3. Scale	200/-
4. Elec. Installation	1000/-
5. Office furniture etc.	1500/-
	12700/-
Working Capital	
Staff & Labour :	
Skilled worker	1 800/-
Semi-skilled worker	2 @ 450/- 900/-
	1700/-
Raw Material P.M. :	
Card Board 40 x 60" 1200 kg. @ Rs. 3 per kg.	3600/-
Paper gum	3740/-
	7340/-
Other Exp. P.M. :	
Rent	100/-
Consumable store	150/-
Other Expenses	100/-
	350/-
Recurring Exp. per month	9690/-
For 2 months say Rs. 19,380/-	
Total Investment :	
Fixed Capital	12700/-
Working Capital	9690/-
	22,390/-

Cost of Production :

1. Working Capital	1,16,280/-
2. Dep. on Machinery 10%	1270/-
3. Interest on investment	2600/-
	<hr/>
	1,20,150/-
	<hr/>

Sales 2,40,000 boxes @ Rs. 0.60 paisa = 1,44,000/-

Profit : Sales — Cost of Production
144,000 — 1,20,150 = 23,850/-



Bakery

Biscuit, Bread, pastry are products of bakery, Biscuit and bread have good market.

Capacity proposed : 20 Tonnes of Biscuit

Land & Building 40 sq. m. Rented

Plant & Machinery :

i) Duft Mixture 50 kg capacity	5100/-
ii) Baking Oven	3050/-
iii) Rotary machine/Dye Elec. motor	5150/-
iv) Baking pan, mould balance etc.	2050/-
	15350/-

Working Capital :

Staff & Labour :

i) Skilled Worker	1 @ Rs. 600/-	600/-
ii) Unskilled worker	3 @ Rs. 300/-	900/-
		1500/-

Raw Material required Per Month :

Flour & Glucose	2500/-
Sugar	1300/-
Ghee	4800/-
Milk	700/-
Packing Paper	800/-
	10,100/-

Other Expenses :

Rent	800/-
Elec./Water	150/-
Fuel	300/-
Other Exp.	150/-
	1400/-

Working Capital per month :

Raw Material	10100/-
Labour	1500/-
Other Exp.	1400/-
	13,000/-

(58)

Total Investment :

Plant & Machinery	15350/-
Working Capital	13000/-
	<u>28350/-</u>

Cost of Production P.A. :

Working capital	1,56,000/-
Dep. on machinery	1535/-
Int. on Investn.ent	9000/-
	<u>160935/-</u>

Or say Rs. 161000/-

Sales : 20 M.T. @ Rs. 9.00 per kg. 180,000/-

Profit : Sales - Cost of Production
1,80,000 - 1,61,000 = 19000/-



Oil Expeller/Flour Mill

Oil & Flour are daily use items in every house hold. The unit envisages of producing oil & job work of wheat Flour.

Economy of the Scheme :

Land & Building	Owned
Plant & Machinery :	
Oil expeller 9 Bolt double gear	26842.00/-
Filter 18''×8''	7374.00/-
Motor 15 HP	9745.00/-
Motor 10 HP	3345.00/-
Flour Mill, Shaft, Pulley etc.	3431.00/-
Diesel Engine 20 H.P.	12320.00/-
Starter, Dynamo accessories	1707.00/-
V Belts, Pulleys	500.00/-
Pulleys for Expeller Shaft	124.00/-
TOTAL	65488.00/-

Working Capital p.m. :

Raw Material :

@ Mustard seed 250 Qtls. @ Rs. 500/-	1,25,000/-
Wheat 60 MT @ Rs. 160/-	96000/-
Packing material for Oil & Flour	6000/-
	2,27,000/-

Labour Charges :

Skilled worker	2 500/- each	1000/-
Unskilled worker	1	300/-
		1300/-

Other Expenses :

Power Charges	600/-
Repair Maintenance	150/-
Postage & stationery	50/-
Transport	800/-
Misc.	100/-
	1700/-

Say Rs. 2,30,000/-

Cost of Production P.M. :

Raw Material/Labour/Exp. p.m.	2,30,000/-
Dep. on Machinery/Bldg.	1000/-
Int. on loan	3000/-
	<u>2,34,000/-</u>

Production per month :

Oil 85 Qtls. @ 1440/.	1,19,000/-
Oil cake 165 Qtls. @ 150/-	24,750/-
Wheat Flour 60 MT @ 1750/-	1,02,000/-
	<u>2,45,750/-</u>

Gross Profit per month :

Total production — Cost of Production
= 245750 — 2,34,000 = Rs. 11750 P.M.



Rolling Shutter

Rolling shutter is moveable cover or screen for a window or door rotating on an axis. Generally there are three types of rolling shutter i) Push Pull type ii) Gear type iii) Electrically operated, pull push type are most commonly used.

Capacity : This unit envisages 34 rolling shutter per month on single shift basis.

Financial Aspects :

(a) Fixed Capital

Building 120 sq. mts.	Rented
-----------------------	--------

(b) Plant & Machinery :

1. Shutter Rolling Machine	1 No.	7300/-
2. Rotary Shearing Machine	1 No.	3500/-
3. Spring Coiling	1 No.	1000/-
4. Shearing Machine/Hand Press	2 No.	4000/-
5. Drilling Machine	1 No.	1500/-
6. Accessories		3500/-
		20,800/-

Installation Charges	3500/-
----------------------	--------

Office equipment	3500/-
	Say Rs. 24300/-

Working Capital per month :

Supervisor	1 No.	650/-
Skilled worker	2 No.	1000/-
Un-skilled worker	1 No.	475/-
Perqs		200/-
		2325/-

Raw Material per month :

MS Sheet	
MS Pipe	
Spring Wire	Rs. 600/-

Other Expenditure :

Power/Fuel	300/-
Advt./Transport	900/-
Consumable Store	300/-
Rent	250/-
Other Exp.	700/-
	2450/-

Recurring Expenditure :

Salaries & Wages	2325/-
Raw Material	6000/-
Other Expenses	2450/-
	<u>10775/-</u>

For 3 months say Rs. 32325/-

Total Investment :

Fixed Capital	24306/-
Working Capital	32325/-
	<u>56625/-</u>

Cost of Production (P.A.) :

Recurring Exp.	129300/-
Dep. on Machinery 10%	2300/-
Interest	8800/-
	<u>1,40,400/-</u>

Turnover Per Year :

Rolling Shutters 6' x 10'	408 No. @ Rs. 400/-	1,63,200/-
Profit Before Taxation :		22,800/-



Fluorescent Tube

Use of Fluorescent type of light fixtures has become very common now a days because they give more light at low consumption of power.

Capacity : The unit envisages to manufacture 1600 units of 40 watts per month or 20,000 per year.

Financial Aspects :

1. Building	100 Sq. MT	Rented
2. Machinery :		
i) Brake Press 48"	1	5000/-
ii) Hand Shear	1	2000/-
iii) Hand Press	1	2000/-
iv) Compressor/Accessories		2000/-
		11000/-

Say Rs. 11000/-

Testing Equipment	2500/-
Elec. Fitting	500/-
Tools/Jigs	500/-
Non recurring expenditure	14500/-
	18000/-

Working Capital :

Staff & Labour

Supervisor	1	800/-
Skilled worker	3	1200/-
Unskilled worker	2	600/-
		2600/-

Raw Material (P.M. on single shift basis) :

1. PCRC Sheet 24 to 26 swg.	1000 kgs.	3.50 kg.	3500/-
2. Tube Holder	5000 No.	80 Pcs.	4000/-
3. Starter Holder	2500 No.	80 ,,	2000/-
4. Connector	2500 No.	50 ,,	1250/-
5 Other	—	—	1800/-
			12,550/-

Other Expenses :

1. Transport	1500/-
2. Power/Consumable store	250/-
3. Rent	500/-
4. Misc./Admn. exp.	1200/-
	<hr/>
	3450/-

Total recurring exp.	18600/-
W.C. for 3 months	55800/-

1. Fixed Capital	18600/-
2. Working Capital	55800/-
	<hr/>
	73000/-

Total Cost of Production :

i) Recurring Exp. per annum	223200/-
ii) Dep. on Machinery equipment @ 10%	1500/-
iii) Interest on total investment @ 15%	10000/-
	<hr/>
	234700/-

Turnover per year :

20,000 Fixtures @ Rs. 15 each	3,00,000/-
Net Profit (Before Income Tax)	65000/-



Digital Clocks

Digital Clocks :—Quartz controlled digital/analog watches and clocks amply the most sophisticated and advanced techniques in the electronic Industry. Mode of manufacture of clocks is quite simple.

Capacity : To be assumed at 4 clocks per day/single shift basis or say 1200 clocks per year.

- Raw Material** :—
1. Integrated Circuits
 2. Printed Circuit Board
 3. Liquid crystal display
 4. Small lamps
 5. Alarm system coil & cone
 6. Push Buttons
 7. Toggle switches
 8. Neon Bulbs
 9. Alkaline Battery
 10. Solder Wire
 11. Solder Paste

Know how for assembly of digital clocks is easily available. No difficulty is envisaged for the unit.

Fixed Capital :

(a) Machinery & Equipment :

1. I.C. Tester	1	5,000/-
2. Oscilloscope	1	20,000/-
3. Power Supplies	2	4,000/-
4. Pulse Generator	1	5,000/-
5. Vasic	1	4,000/-
6. Digital Multimeter/Freqmeter	2	8,000/-
7. Peb Drilling Machine	1	4,500/-
8. Bench vice/Hand Tools	—	5,000/-
9. Other accessories	—	5,000/-
		60,500/-

(b) Furniture		10,000/-
(c) Pre-operative Exp.		5,000/-
(d) Contingencies		8,000/-
		23,500/-

Working Capital :

1. Raw Material (2 week)	12000/-
2. Finished Goods (1 week)	10000/-
3. Credit (2 week)	20600/-
4. Over head Salaries/Admn. Exp. P.M.	9200/-
5. Recurring Exp. P.M.	1000/-
	<hr/>
	52,800/-
	<hr/>

Finance :

1. Own	45,000/-
2. Long term loan	56,000/-
3. Short term loan	38,000/-
	<hr/>
	1,39,000/-
	<hr/>

Cost of Production P.A. :

1. Raw Material/Components	2,75,000/-
2. Salaries & wages	23,000/-
3. Dep. 10%	7,300/-
4. Repair & Maintenance	3,000/-
5. Transport/Packing	20,000/-
6. Interest	17,000/-
7. Admn./Misc. Expenses	28,000/-
8. After sale service	15,000/-
9. Advertisement/Sales Promotion	25,000/-
	<hr/>
	4,83,300/-
	<hr/>

Say Rs. 4,83,000/-

Salary & Wages :

1. Electronic Engineer	1	1500/-
2. Account/Admn. Officer	1	800/-
3. Technical Asstt.	1	700/-
4. Assistants	3	1600/-
5. Steno Typist	3	900/-
6. Unskilled Worker	3	600/-
		<hr/>
		6100/-
		1525/-
		<hr/>
		7625/-
		<hr/>

Say Rs. 7700/-

Turnover/Profitability :

Production 1200 clocks @ Rs. 450/- = 5,40,000/-

Gross profit = 5,40,000 — 4,83,000 = 57,000/-



Plastic Niwar

Plastic Niwar is fast replacing traditional cotton tape niwar. Plastic Niwar is cheap and comes in attractive colours and designs. Further it can be used for beds, chairs etc.

Economy of the Scheme :

(a) Fixed Capital :

Land & Building 320 sq. yard	74750/-
------------------------------	---------

(b) Plant & Machinery :

1. Artsilk, synthetic looms	4 No.	60,000/-
2. 5 H.P. elec. motor/switches		5510/-
3. Packing Machine		3000/-
4. Warping Machine		5000/-
5. Winder Set	4 No.	4000/-
6. Head Stand		2800/-
7. Beam Sets		16000/-

	96310/-
Sales tax @ 10%	9630/-

105940/-

Working Capital per month :

(a) Staff Labour :

1. Supervisor	1 @ 700/-	700/-
2. Skilled worker	5 @ 500/-	2500/-
3. Unskilled worker	4 @ 315/-	1260/-
		<u>4460/-</u>

(b) Raw Material P.M. :

Plastic Yarn	1860 kgs. @ 36 per kg.	66960/-
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(c) Other Expenses :

Power, Water, Fuel	700/-	
Advt /Travelling	500/-	
Transport	400/-	
Consumable Store	300/-	
Stationery/Postage	210/-	
Maintenance	500/-	
Sales Expenses	500/-	
		<u>3110/-</u>

Working Capital per month :

Salary & Wages	4460/-
Raw Material	66960/-
Other Expenses	3110/-
	<u>74530/-</u>

For 3 months say Rs. 2,23,590/-

Total Investment :

Fixed Investment	1,80,690/-
Working Capital	2,23,590/-
	<u>4,04,280/-</u>

Cost of Production per year :

1. Total recurring Exp.	8,94,360/-
2. Dep. on Bldg. 5%	7025/-
3. Dep. on Machinery 10%	10394/-
4. Interest on investment	55965/-
	<u>9,67,744/-</u>

Turnover per year :

Plastic Niwar	24000 Kgs. @ 44/-	10,56,000/-
Profit		88,226/-



Readymade Garments

Readymade Garments are widely used now-a-days. They are popular due to variety of colours and are cheap.

Capacity : 4 Dozen daily or 1200 piece per annum at 300 working day per year.

Land & Building : Rented @ Rs. 900/- P.M.

Plant & Machinery :

Sewing Machine	4 No. @ Rs. 1000/- each	4000/-
Interlock Machine	1 No.	2000/-
Accessories		2500/-
		<hr/>
		8500/-
		<hr/>

Wages :

Skilled worker	1	800/-
Interlock Machine	3 @ Rs. 500/-	1500/-
Unskilled worker	1	450/-
		<hr/>
		2750/-
		<hr/>

Raw Material P.M. :

Cloth (Terrycoat, Polyester Cotton etc.)	10500/-
Thread, Button, Chair etc.	2100/-
Packing Material	500/-
	<hr/>
	13,100/-
	<hr/>

Misc. Exp. P.M. :

Rent of Land & Building	900/-
Electricity/Stationery/water etc.	200/-
Misc. Expenses	250/-
	<hr/>
	1350/-
	<hr/>

Working Capital required P.M. :

Salaries/Wages	2750/-
Raw Material	13100/-
Misc. Expenses	1350/-
	<hr/>
	17,200/-
	<hr/>

(70)

Total Investment :

Plant & Machinery	8500/-
Working Capital	17200/-
	<hr/>
	25,700/-
	<hr/>

Cost of Production P.A. :

Working Capital	2,06,400/-
Dep. on Machinery 10%	850/-
Interest on Investment	3085/-
	<hr/>
	210,335/-
	<hr/>

Sales :

1300 Doz. Dresses @ Rs. 180/- per Dozen 2,34,000/-

Gross Profit per year :

= 234000 — 210335 = 23665/-



Repair of Elec. Motors/Dynamo etc.

Elec. Motors are widely used in agriculture & Industries. They need repair & servicing.

Economy of the Scheme :

Land & Building Rented

Plant & Machinery :

i) Multimeter	1200/-
ii) Voltmeter	200/-
iii) Ammeter	200/-
iv) Tool Kit	5000/-
	6600/-

Working Capital :

Staff & Labour :

i) Supervisor/Skilled	2	1400/-
ii) Helper	2	600/-
		2000/-

Raw Material required Per Month :

Super enamelled copper wire 17 to 24 gauze	6875/-
Insulating paper, grease	1200/-
Other parts	2000/-
	10,075/-

Other Expenses :

Rent	200/-
Elec.	150/-
Other Expenses	350/-
	700/-

Recurring Expenditure 12,775/-

Total Investment :

Plant & Machinery	6600/-
Recurring Expenditure	12775/-
	19,375/-

Cost of Production P.A. :

Working Capital	1,53,000/-
Dep. on Machinery	600/-
Int. on investment	2300/-
	<hr/>
	156260/-
	<hr/>

Income from Repair/Serviceing :

300 motor @ Rs. 500/- per motor	1,50,000/-
Sale of copper wire (Burned)	24,000/-
Serviceing of motors	15,000/-
	<hr/>
	1,89,000/-
	<hr/>

Profit :

Income — Cost of Production
Rs. 245750 — 1,89,000 = Rs. 32,740/-



Video Cassette

Video Cassette is vital mounting of video cassette recorder. Video cassette have wide use such as i) Education ii) Health iii) Sports iv) Music v) Industrial Training etc.

Capacity : 2000 pieces per annum @ Rs. 195/-

Plant & Machinery :

1.	Video Loader and winding machine	255000/-
2.	Video cassette recorder	54000/-
3.	VCR Camera	36000/-
4.	Oscilloscope	15000/-
5.	Tools	40000/-
		4,00,000/-

Raw Material :

1.	Video cassette tape length app. 180 min. @ 70/-	20000 No.	14,00,000/-
2.	Plastic shell complete	—do—	2,40,000/-
3.	Label		60,000/-
4.	Additional costs of Rs.		16,40,000/-
			33,40,000/-

Labour :

1.	Technical Manager	1	2000/-
2.	Supervisor	1	1500/-
3.	Skilled labour	1	500/-
4.	Unskilled labour	1	300/-
			Perqs 25 %
			1075/-
			5375/-

Cost of Production :

1.	Recurring expenses	3472000/-
2.	Dep. on machinery 10%	36500/-
3.	Dep. on tools	5500/-
4.	Intt. on investment	2,55,240/-
		37,69,240/-

Profitability : Production of 20000 tapes value Rs. 39,00,000/-

Profit : 39,00,000 — 3769240 = 130760/-



Rubber Moulded Goods

Introduction :

Moulded rubber goods such as pump valves, diaphragms, mallet heads, seal grease, vibration absorbing units, pedal pads balls, shoe soles, hot water bag etc. These rubber moulded goods find wide application in railways, automobiles, bicycles and domestic appliances. Rubber moulded goods have export potential.

Process : These are manufactured by :—

1. Compression moulding
2. Transfer moulding
3. Injection Moulding

Machinery & Equipment :

1. Rubber Mixing Mill
2. Extruder
3. Hydraulic Press
4. Steam heated hand operated press
5. Vulcaniser
6. Boiler
7. Moulds

Land & Building :

Rented land about 400 sqm. covered area 250 sqm.

Connected Load 40 H.P.

Capital Requirement :

- | | |
|--------------------------|------------|
| 1. Machinery & Equipment | 2,00,000/- |
| 2. Margin on w. c. | 75,000/- |

A return of about 30% on investment expected. BEP is 60%.



Paints

Paints are used extensively for coating interior and exterior walls. These are used for better retention, durability and light fastness. There is good scope due to steady rise in the standard of living.

Capacity : 1 Tonne / Day

Quality Standard IS : 427 is available for dry distempers while IS 428 for oil bound distempers.

Machinery :

1. Ball mill — 2 No.
2. Edge runner
3. Paint Mixer
4. Pug mill
5. Emulsifier or Colloid mill

Capital Requirement :

Fixed Capital	2,50,000/-
Margin on Working Capital	60,000/-

A return of about 37% is expected on capital investment BEP is 55%.



Laboratory Chemicals

The items of equipment and machinery required for the manufacture of laboratory chemicals will depend on the products to be manufactured. However generally the following machinery is required.

1. Stainless Steel stills of 100 Lts./fitted with condenser
2. Corning glass acid distillation set of 20 lts.
3. Drying towers of pyrex glass
4. Crystallization pans
5. Molecular sieves
6. Muffle furnace
7. Air Compressor
8. Centrifuges
9. Filter Press.

Plant & Machinery : Capital Investment & Machinery 4,00,000/-

Covered area required 800 sq. m.

Return on total capital investment expected 75%.



Tyre Retreading

Retreading consists of replacing the worn out treads of automobiles tyre having good casing. This tyre is obtained at about 50% cost of new tyre. The retreading of tyre is assuming increasing importance. This scheme envisages 20 tyre per day single shift.

- Machinery :—**
1. One full circle retreading machine for bus and trucks.
 2. One full circle retreading machine for Jeep and Car.
 3. One full circle retreading machine for Scooter tyre.
 4. Boiler 100 KGS/HR 7 KGS/CM 2
 5. Air Compressor
 6. Hand Buffer
 7. Cut repairing machine
 8. Buffing grinder

Land & Building :

Rented 200 sqm. covered 100 sqm.

Capital Required :

Machinery & Equipment	1,00,000/-
Margin on w. c.	25,000/-

Return of about 35% on invested capital expected. BEP is 55%.



Rubberised Cloth

Rubberised cloth means fabrics impregnated or surface coated with rubber. There is scope for more units.

Capacity : 400 Mts/day

Quality Standard :

ISI are available for hospital rubber sheetings and rubberised aprons.

Machinery & Equipment :

1. Rubber mixing mill
2. Z-Blade mixer
3. Spreading machine roller size 52"
4. Cylindrical Vulcanisation chambers
5. Boiler

Land & Building :

Rented land about 300 sqm, covered area 200 sqm.

Capital Requirement :

Machinery	1,75,000/-
Margin on w. c.	75,000/-

Return of about 40% is expected on capital. BEP is 50%.



Floor Polish

Floor polishes are used to impart smoothness and shine to the floors.

Capacity : 200 tins of 400 gms. each day.

Process : Carnauba wax 2 parts
Ceresin 2 parts
Turpentine 3 parts
Casoline 3 parts

Machinery :—1. Stainless Steel, Jacketted vessel.
2. Baby Boiler
3. Air conditioning Chamber

Land & Building :

Covered area of 200 sqm.

Capital Requirement :

Machinery	60,000/-
Margin on w. c.	40,000/-

Return of above 40% on capital invesment is expected. BEP is 35%.



Latex Foam

Foam products are used in making cushions, mattresses, pillows etc. There is enough scope of setting up more units.

Capacity : 200 KGS / Day.

Quality Standard : ISI specification is available.

Machinery & Equipment :

1. Deammoniation tank
2. Pot mill for dispersion
3. Planetary Mix with cage beater
4. Boiler 100 Kgs.
5. Rubber roller washing machine
6. Drying Chamber
7. Cutting Machine
8. Vulcanising Chamber.

Land & Building : 600 sqm. covered 300 sqm.

Capital Requirement :

Machinery	2,10,000/-
Margin on w. c.	75,000/-

Return of 35% expected on investment. BEP is 45%.



Electronic Thermometer

The electronic thermometer is an unfailing device of measuring temperature of body. It is operated through one hand.

Project at a Glance :

Recommended capacity	75000 pcs. P.A.
Max. Capacity utilisation	80 %
No. of working days per years	300

<u>Total project cost</u>	<u>Rs. Lakhs</u>
Land	0.25
Building	1.50
Machinery	3.00
Fixed Assets	0.20
Pre. Expenses	1.45
Margin Money	1.00
	<u>7.40</u>

Means of Financing :

Share Capital	1.50
Term Loan	4.95
Subsidy	0.95
	<u>7.40</u>

Financial high lights :

Expected turn over	24.00 Lakhs
Expected cost of sales	19.50
Profit before taxes	<u>4.50</u>



Electronic Heart Pulse Counter

The electronic heart pulse counter unit is an unfailing device of measuring accurate heart beats and is operated through one finger only.

Project at a Glance :

Recommended capacity	3000 Pcs. P.A.
Max. Capacity utilisation	80 %
No. of working days	300
Total project cost	Rs. Lakhs
Land	0.25
Building	1.50
Machinery	3.50
Fixed Assets	0.20
Pre. Expenses	1.45
Margin money	0.75
	7.65

Means of Finance :

Share Capital	1.55
Term Loan	5.10
Subsidy	1.00
	7.65

Financial High lights :

Expected turn over	Rs. 18.00 Lakhs
Expected cost of sales	13.50
	4.50



Liquid Shoe Polish

Shoe polishes are as much important for life of shoes as shoes are for our feet. Liquid polish can be used without any shoe brush.

Project at a Glance :

1. Recommended capacity	6 Lakh Nos./P.A.
2. Max. Cap. Utilisation	80 %

<u>Total cost of the project</u>	<u>Rs. Lakhs</u>
Land	0.50
Building	1.50
Machinery	2.50
Fixed Assets	0.40
Pre. Expenses	0.50
Margin money	0.75
	<u>6.50</u>

Means of Finance :

Share Capital	1.25
Term Loan	4.10
Subsidy	0.80
	<u>6.15</u>

Financial High lights :

Expected turn over	Rs. 19.20 Lakhs
Expected cost of production	Rs. 16.00
Profit before taxes	<u>Rs. 3.20</u>



Glass Ampoules

Glass Ampoules is an essential mode used in the field of packing of liquid medicine.

Project at a Glance :

1. Recommended capacity	75000 Thousands Nos. P.A.
2. Capacity utilisation	80 %
3. Raw Material	Glass Tubes
4. Man power required	30 Persons

Project Cost	Rs. Lakhs
Land 1000 sqm.	0.50
Building 500 sqm.	3.50
Machinery	11.50
Fixed Assets	0.90
Pre. expenses	2.40
Margin for w. c.	2.20
	21.00

Means of Financing :

Share Capital	2.62
Term loan	15.75
Subsidy	2.63
	21.00

Financial High lights :

Expected sales turnover	Rs. 48,00 Lakhs
Expected cost of sales	Rs. 41,20
	6,80



Stencil Paper

Stencil paper are used for duplicating copies. Papers are coated with a compound nitro cellulose.

Capacity : 280 Boxes / day (120 stencils / box)

Capacity utilisation : 70 %

Raw Material :

1. Tissue paper
2. Nitrocellulose
3. Okyl Alcohol
4. Baking Sheet
5. Interlining paper
6. Carbon paper
7. Chemicals.

Man Power : 40 Persons

Cost of the Project	Rs. Lakhs
Land 1000 sqm.	0.50
Building 500 sqm.	3.50
Plant & Machinery	10.70
Fixed Assets	1.50
Pre. Exp.	1.25
Contingencies	1.10
Margin money	1.99
	20.54

Means of Financing :	Rs. Lakhs
Share Capital	2.54
Term Loan	15.40
Subsidy	2.60
	20.54

Expected turn over	Rs. 72.00
Expected cost of sales	Rs. 62.00
Profit before taxes	Rs. 10.00



Rubber Blowing Agent

Blowing agents are used in rubber compounds for making cellular rubber products. DNPT is one such used chemical. DNPT is popular in rubber compounds or making Hawai Chappals.

Machinery & Equipment :

1. Wooden reaction vessels with agitator 3 No.
2. Filter vaccum type
3. Basket type centrifuge
4. Vaccum Pump
5. Vaccum Drier
6. Hydrochloric storage acid tank.

Land & Building :

Rented land required 400 sqm. with covered area 200 sqm.

Capital requirement :

Fixed Capital	1,75,000
Margin on w.c.	1,00,000

Profitability :

Return of 30% on the capital investment is expected. BEP is 50%.



(87)

Sodium Silicate

3600
19/2/87
D/11007

Sodium silicates are produced by the fusion of silica (Sand). These silicates are available both in anhydrous and hydrated forms. The more siliceous sodium silicates are glasses

Raw Material Requirement (Per Annum) :

At the capacity of 50 T / Day.

Description	Quantity	Amount
a) Soda Ash	3345 Tonnes	—
b) Silica Sand	5796 Tonnes	—
c) Bleaching Powder	L. S.	—

Project at A Glance :

Recommended Capacity	50 T / Day
Max. Capacity utilization	80 %
Max. working days	300
Raw Material	
Soda Ash	
Sand	
Bleaching Powder	

Total cost of project	Amount in Rs. Lakhs
Land and Building	3.00
Plant & Machinery	4.00
Misc. Fixed Assets	1.00
Pre-liminary & pre-operative expenses	0.60
Working capital margin money	2.20
Contingencies	0.20
	11.00

Means of Financing :

Share Capital	3.60
Term Loan	7.40

Profitability :

A return of about 25% on the invested capital is

