PPROJECT PROFILE ON COMPUTER ASSEMBLING

Product Name	**Computer Assembling**
Product Specification	**Intel Core-2, 8 Gb RAM, 1000GB HDD, Monitor-15.6"** **Can be changed as Per requirements**
Production Capacity (Per Annum)	**600 pieces**
Investment Value **(In Rs Per Annum)**	**38 Lacs**
Month & Year of Preparation	**June-2020**
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Computer assembling

INTRODUCTION :

Today computers are used for various applications in day to day life. A Micro Enterprise unit proposed activity Computer assembling & Sales. For this computer parts will be Purchased from dealer and assembling in the unit. Assembled Computers will be marketed through the distributors appointed by the entrepreneur. The distributor will also inform the needs of the computer through the market Survey.

MARKET SCOPE:

Today computers are used in every field from schools to hospital. Although branded computers are available in the market but mostly people prefer assembled computers because of following reasons:

- **Freedom to Choose Components:**In Assembled PC you have the freedom to choose the hardware components that includes CPU, RAM, Motherboard, Hard Disk, Monitor, Mouse, Keyboard, SMPS etc. according to your needs, whereas in branded computer the configuration is fixed or chosen by the company and you have to deal with that only.

- **Cost Effective & Cheaper:**Branded PCs are more expensive than an assembled computer. If we compare a branded computer with an assembled computer with same configuration having same components then you will find that the price of branded pc is much more than an assembled pc. This is because of the brand name associated with that computer and also they provide warranty on the entire computer.

- **Flexibility:**In Branded PC you cannot alter the configuration of you computer during the warranty period i.e. change, remove or add any component as it can lead to violation in the warranty but in Assembled PC there is no such restriction and you are free to add, remove or upgrade any component according to your needs or requirements.

- **Room for Future Expansion:**With an assembled computer you can choose your components in such a way, so that there can be some room for expansion in the future. For example you can get a latest high-end motherboard, so that you can upgrade to a better processor and graphics card in the future.

- **Warranty:**In Branded PC, the company gives warranty on the entire computer as whole i.e. 5 years on entire pc for all components whereas in assembled computer the warranty is provided by the vendor on individual components which is different for each component i.e. processor can have warranty of 2 years, hard disk for 5 years and so on. This is not a major issue but branded computers might have some edge on the warranty issue.

RAW MATERIALS:

Mother Board, ATX Cabinet, Packing Material Mouse, Key Board, Monitor, Processor,

Manufacturing process: Cabinet setting, Fix the SMPS (Switched Mode Power Supply), Fix the Mother Board, Fix the Processor, Fix the Hard Disk, Fix the CD Writer Installation of operating system & Soft Ware

Some Good Brands of Hardware Components when Assembling a PC

Here are some good brands or companies of various hardware components that can be helpful in choosing components while assembling a PC.

Processor/CPU – Intel, AMD

Motherboard – ASUS, Gigabyte, MSI, ASRock, Intel

RAM – Corsair, Transcend, Kingston, AData, G.Skill

Hard Disk – Seagate, Western Digital (WD)

Optical Drive – Liteon, LG, Sony, Asus

Monitor/LCD – Samsung, LG

Graphics Card – Nvidia, AMD/ATI

SMPS – Corsair, Antec, Cooler Master, Seasonic

Keyboard & Mouse – Logitech, Microsoft

Cabinet – Depends on your preference or choice, but get a spacious cabinet that has enough room for all the components and have proper airflow. For high quality cabinets you can go for Antec and Cooler Master.

Speakers – Logitech, Altec Lansing, Creative

UPS – Luminous, APC, Microtek, Numeric

All the components are easily available in the market and a computer with all components of good quality can be assembled and made available at reasonable price.

Production Targets: 50 computers per month

FINANCIAL ASPECTS:

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A) Fixed capital:

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a) **Land Building required :**
   Rent (per month):   **Rs. 4000/-**

b) Machinery & Equipment:

	Machine name	Qty	Rate	Value
1	Screw Driver	4	250	1000
2	Multi meter	4	1,000	4000
3	Soldering iron	4	250	1000
4	Soldering station	4	6,000	24000
5	Other fitting items	-	5,000	5000
	Total			35000

c) Other fixed asset:

Erection and installation	20,000
Office furniture	20,000
Pre operative expnses	25,000
Total	65,000
Total fixed capital	100,000

Total fixed capital- Rs. 1,00,000/-

B) Working Capital:

d) Staff & Labor:

03 workers are required to perform all the operations:

Designation	No	Salary	Total
System Engineer	2	30,000	60000
Distributor	2	15,000	30000
peon	1	6000	6000
Total			96000
Prerequisite @15% on total salary	0.15x96000=		14400
Total			110400

e) Raw material (per month):

Particulars	Qty	Rate per piece	Cost
Mother Board	50	3000	150000
ATX Cabinet	50	1500	75000
Mouse	50	500	25000

Hard disk	50	1000	50000
RAM	50	1000	50000
Micro Processor	50	7000	350000
CD/DVD RW	50	1000	50000
Key Board	50	1000	50000
Monitor	50	5000	250000
SMPS	50	1000	50000
Internal cables	50	500	25000
Packing material	LS	25000	25,000
Total			1150000

f) Utilities(per month):

Power	3,000
Water	1000
Fuel for generator	1,000
Total	5,000

g) Contingent expenses:

Rent	5000
Postage and stationery	1000
Telephone / Telex/Fax charges	2000
Transportation	8,000
Miscellaneous expenditure	2,000
Total	18000

Total reccuring expenses: (d+e+f+g)

Staff and labour (d)	110400
Raw materials(e)	1150000
Utilities(f)	5,000
Contingent expenses(g)	18000
Total recurring expenses	**1283400**

Total working capital for 03 months:
= 3x recurring expenses per month
= 03 x 1283400
= Rs 3850200/-

C) Total capital investment

Machinery & equipment	35000
Working capital for 3 months	3850200
Total	3885200

FINANCIAL ANALYSIS:

Cost of Production:

Recurring expenses	12x RE per month	12x1283400=	15400800
Depreciation on machinery	10% on M/C cost	0.1x35000	3500
depreciation on fixed assetes and furniture	15% on furniture	0.15x20000=	3000
Interest on total investment	12% on working capital	0.12x 3885200=	466224
Total		**15873524**	**15873524**

Turn over (per annum by sales):

Product	Qty (pieces)	Rate per piece	Value
Computer system	50	30000	1500000
Total			1500000
Total turnover per month			18000000

Net Profit per year:
 =Sales value - cost of production
 =18000000-15873524
 =2126476/-

Net profit Ratio:

$$= \frac{\text{Net profit per year} \times 100}{\text{Turn over per annum}}$$

 = 2126476*100/18000000

 = **11.814%**

Rate of return on investment:

$$= \frac{\text{Net profit per year} \times 100}{\text{Total cost of production per annum}}$$

= 2126476*100/15873524

= 13.4%

Break even point analysis:

Rent	4000*12	48000
Depreciation (10% of M/C)	0.1x35000=	3500
Interest on capital investment	0.12x3885200=	466224
40% of wages of staff and labour	0.4x 110400x12=	529920
40% of other contingent expenses	= 0.4x18000x12=	86400
Total say Z (z)		**1134044**

Break even point:

$$= \frac{Z \times 100}{(Z + \text{Net profit per annum})}$$

$$= \frac{1134044 \times 100}{1134044 + 2126476}$$

=   34.78%

List of supplier:
- **LOTUS Systems & Services**
  106A, 12 Osian Building, Nehru Place, New Delhi
  (Landmark: Paras Cinema)
  Mobile No.- 9212006259 / 9717838231

- **Grania Computers**
  TA-169/B, FF, Tuglakabad Extension,
  Near Nehru Place Road, Kalkaji, New Delhi, Delhi 110019
  Phone no. 098111 80533

- **Microchip Expert Solution Pvt. Ltd.**
  29/4A, Near Metro Gate No -3 Tilak Nagar
  Ashok Nagar, Delhi - 110018, (Map)

Website: www.microchipexpert.com
Phone No.- 9716992246

- **Computer laptop Zone**
  103-B Meghdoot Building, Nehru Place,
  Near Meghdoot Building
  Delhi - 110019
  Website: www.smcinternational.in
  Phone no.: 9811668821, 011-26293001