

**Commissioner of Industries
Hyderabad
Andhra Pradesh**

Antigen

1. Nature of the Product & Its Applications

These are useful for diagnosis and therapy of allergic disorders. Only 2 varieties of antigens exist presently. They are whole extracts and fractional allergens. With nations opting for healthier future and becoming more & more conscious about critical control of life expanders or life savers, these drugs have a bright scope.

2. Market Potential

Since few years, there is steady growth in the demand for antigens. Rapid wave in the field of allergy treatments is on. Demand is anticipated to grow as the citizens hold promising scope of developing on these crucial drugs.

3. Installed Capacity

Installed Capacity	:	300 LPA
No. of working days (3 shifts a day)	:	300 per annum
Capacity Utilisation	:	80%

4. Availability of Raw Materials

Allergenic subset, sodium chloride, phenol, toluene, etc are indigenously available.

5. Technology/Manufacturing Process

Methods of manufacture differ widely. The project consists of grinding the solid material, defatting for extraction of protenacious allergens, drying at room temperature, followed by descicating, extraction & clarification. Dialysis removes irritants and colour. Sterilisation of extracts and transfer to sterile containers completes the production cycle.

6. Plant & Machinery

Refrigerators	:	3 - 4 Nos.
Autoclaves	:	2 Nos.
BOD incubators	:	
Vacuum oven	:	1 No.
Electrophoretic Unit	:	1 No.
Nitrogen tester Vial sealers, etc	:	1 No.

All the equipments can be availed indigenously.

7. Location

Unit is to be preferably located in an area where all industrial infrastructure facilities are available and where sterility of atmosphere can be somewhat ensured.

8. Infrastructure

Manpower : 18 max.
Power : 13 HP
Water : Minimal

9. Cost of the Project & Means of Finance

Rs. in lakhs	
Land & Buildings	5.01
Plant & Machinery	14.05
Other Fixed Assets	2.76
Testing Equipments	
POP Expenses	2.56
Working Capital	1.02
Deposits	0.30
Total	25.69
Promoters' Equity	10.23
Term Loan	15.46

10. Annual Operating Expenses (At 80% capacity utilisation)

	Rs. in lakhs
Raw Materials	0.15
Consumables	1.74
Utilities	1.62
Packing Material	0.73
Repairs, etc	0.44
Wages	2.90
Interest on Working Capital	0.49
Total Variable Expenses	8.07
Depreciation	0.89
Administrative Salaries	0.94
Administrative Expenses	2.61
Interest	1.83
POP Expenses	0.26
Fixed Semi-Variable Expenses	6.53
Net Sales Realisation	28.46

BEP = 32.01% at 80% Capacity Utilisation
= 25.61% of Installed Capacity.
Profit after tax = Rs.9.64 lakhs (3rd year)

11. Machinery Manufacturers

1. M/s. Borosil Glass Works,
Dr. R.G.T. Marg. Worli,
Mumbai -18.
2. M/s. Kartos International,
P.B. 3608,
New Delhi - 24.
3. M/s. Millipore (1) P. Ltd.,
301-306, Oriental House,
Gulmohar Enclave,
Delhi -16.