Commissioner of Industries
Hyderabad
Andhra Pradesh

Rechargeable Cells

1. Nature Of The Product And Its Applications

Sealed Nickel -Cadmium cells are of button, cylindrical and rectangular configurations and possess fair energy density and long life. These are used as a replacement for conventional dry cells because of their economics, longevity & leak proof quality.

2. Market Potential

The present demand for these cells of cylindrical type is estimated at 18 lakh per an year at a growth rate of 15% consumer electronics, defence, railways, medical & mining sectors are the potential market areas for this product.

3. Installed Capacity

Installed Capacity : 10 lakh pieces per annum
No. of working days : 300 per annum
Capacity Utilisation : 80%

4. Raw Materials

Nickel powder, nickel strip, nickel mesh, nickel cadmium nitrate, potassium hydroxide, separator cloth, steel strips, etc are available indigenously or can be imported.

5. Technology/Manufacturing Process

The electrodes are made of electro-chemically treated sinter applied on nickel. Electrode assembly is rolled and inserted into nickel plated steel can container and sealed with a cover provided with plastic gasket, coated with aspalt sealing compound. Aqueous potassium hydroxide is used as electrolyte.

6. Plant And Machinery

Muffle furnace, guillotine shear, baskets, washer, cutter, rolling machine, filler, hydraulic press, auto charger, etc are the major equipment required. Poland firms offer total plant. Few indigenous fabricators too are available.

7. Location

Availability of raw material and the infrastructure are the main criteria to be considered for location.

8. Infrastructure

Manpower : 35 persons
Power : 80 HP
Water : 2 KL/day

9. Project Cost And Means Of Finance

Rs. in lakhs	
Land	2.50
Buildings	15.00
Plant & Machinery	97.00
Other Fixed Assets	10.00
Testing Equipments	3.00
POP Expenses	6.20
Working Capital Margin	10.42
Deposits	0.30
Contingencies	10.45
Total	154.87
Promoters' Equity	62.10
Term loans	92.77

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

Rs. lakhs	
Raw Materials	160.19
Consumables	19.20
Utilities	8.08
Packing Material	7.84
Repairs, etc	3.32
Wages	4.72
Interest on Working Capital	7.21
	210.56
Depreciation	5.92
Administration Salaries	1.51
Administration Expenses	25.47
Interest	10.96
POP Expenses	0.62
	44.48
Net Sales Realisation	301.06
Sales Realisation	210.56
BEP = 39.32%	of Installed Capacity.
= 49.15%	at 80% capacity utilisation

11. Machinery Manufacturers

1. M/s. Central Laboratory of Batteries & Cells,
   Ul, Forteegna 12/14, 61-362,
   Poznam, Poland.

2. M/s. Anup Engg. Ltd.,
   Anil Rd., P.B. 1158,
   Ahmedabad-2.

3. M/s. Haryana Engineers & Fabricators.
   12/6, Mathura Road,
   Faridabad.