

Introduction :

Oil crusher/expellers are used to crush the oil seeds for extracting oil from the seeds. Different types of oil seeds are available to product different types of oil seeds, Oil expellers are available in various sizes like 4 bolts, 6 bolts, 9 bolts, 12 bolts etc. In the past, conventional Ghani was in vogue to produce oil from seeds, but in that process, considerable quantity of oil was left over in the oil cakes. With the advent of oil expellers/crushers, the seeds are crushed and oil expelled to a great extent.

Raw materials required for Oil Crusher/Expeller are i) Cast parts, forged parts, plates tubes, pipes, shafts, bars, sheets, sections etc. (ii) Electric motors (10 HP) starters, capacitors switches, other electric items (iii) Oil, grease, consumables etc.

Process of Manufacture: Production processes will mainly involve machining, fabrication, assembly and testing etc. Various cast parts, forged parts, electric motors starters, switches, capacitors etc. will be purchased from outside. There is good demand for edible/non-edible oils. Different seeds are crushed to produce oils of different types that is edible or non-edible. The seeds coming from agricultural produces or agro produces are crushed to obtain oil for food purpose or medicinal use or industrial use. Since the demand for all such oils is constantly increasing, the demand for oil crushers/expellers is also increasing considerably. They are used by food industries, agricultural & agro-based industries. Besides domestic demand, oil crushers/expellers have very good export market. IS : 5223-Oil seeds, milling machinery, oil expellers test code, IS:4596-Glossary of terms relating to oil expellers, IS:5224-Single barrel oil expellers, IS:10341-Recommended sizes and capacitors for oil expellers.

1 Name of the Product : OIL CRUSHER / EXPELLER

2 Project Cost :

a Capital Expenditure

Land	:		Own
Workshed in sq.ft	:	Rs.	-
Equipment	:	Rs.	878,000.00

Centre lathe 2400 mm, 2000 mm, 1400 mm alongwith electric motor and standard accessories etc., & shaping machine 600 mm stroke with electricals, Drilling machine pillar 20 mm, 39 mm cap, Gas cutting equipment equipments, Muffle type furnace, Welding transformer 400 amp, Power hacksaw 200 mm, Quenching tank, Double end bench grinder 200 mm, testing m/c & equipments.

Total Capital Expenditure	Rs.	878,000.00
b Working Capital	Rs.	1,100,000.00
TOTAL PROJECT COST :	Rs.	1,978,000.00

3 Estimated Annual Production Capacity:

(Rs. in 000)

Sr.No.	Particulars	Capacity in No./Q.	Rate	Total Value
1	OIL CRUSHER / EXPELLER			6605.92
	TOTAL	0.00	0.00	6605.92

4	Raw Material	:	Rs.	5,280,000.00
5	Labels and Packing Material	:	Rs.	40,000.00
6	Wages (5-Skilled & 5-Unskilled)		Rs.	720,000.00
7	Salaries (MANAGER-1)		Rs.	120,000.00

PAGE (2)

8	Administrative Expenses	:	Rs.	85,000.00
9	Overheads	:	Rs.	60,000.00
10	Miscellaneous Expenses	:	Rs.	35,000.00
11	Depreciation	:	Rs.	87,800.00
12	Insurance	:	Rs.	8,780.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	114,140.00
	b. W.C.Loan	:	Rs.	143,000.00
	Total Interest		Rs.	257,140.00
14	Working Capital Requirement	:		
	Fixed Cost		Rs.	362,920.00
	Variable Cost		Rs.	6,243,000.00
	Requirement of WC per Cycle		Rs.	1,100,987.00

15 Cost Analysis

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	362.92	217.75	254.04	290.34
2	Variable Cost	6243.00	3745.80	4370.10	4994.40
3	Cost of Production	6605.92	3963.55	4624.14	4660.44
4	Projected Sales	7200.00	4320.00	5040.00	5760.00
5	Gross Surplus	594.08	356.45	415.86	475.26
6	Expected Net Surplus	506.00	269.00	328.00	387.00

- Note :
1. All figures mentioned above are only indicative.
 2. If the investment on Building is replaced by Rental then
 - a. Total Cost of Project will be reduced.
 - b. Profitability will be increased.
 - c. Interest on C.E.will be reduced.