PROJECT REPORT

Of

FRUIT VINEGAR

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Fruit Vinegar**.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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	PROJECT AT A GLANCE							
1	Name of the Entreprenuer		xxxxxxxxx					
2	Constitution (legal Status)	:	xxxxxxxxx					
3	Father / Spouse Name		xxxxxxxxxx					
4	Unit Address		****					
			District : Pin:	xxxxxxx xxxxxxx	State: xxxxxxxxxx			
			Mobile	xxxxxxx				
5	Product and By Product	:	Fruit Vinegar					
6	Name of the project / business activity proposed :		Fruit Vinegar Manufactu	ring Unit				
7	Cost of Project	:	Rs.15.55 Lakhs					
8	Means of Finance Term Loan Own Capital Working Capital Dath Occurrent Patie		Rs.11 Lakhs Rs.1.56 Lakhs Rs.3 Lakhs					
9	Debt Service Coverage Ratio	:	2.92					
10	Pay Back Period	:	5	Years				
11	Project Implementation Period	:	5-6	Months				
12	Break Even Point	:	45%					
13	Employment	:	11	Persons				
14	Power Requirement	:	30	HP				
15	Major Raw materials	:	ninconnio onnio grano o	ranga hanana Alaahal	A potopo eto			
16	Estimated Annual Sales Turnover (Max Utilized Capacity)		pineapple, apple, grape, o	-	Acelose elc			
. –	,	:	80.79	Lakhs				
17	Detailed Cost of Project & Means of Finance							
	COST OF PROJECT		Particulars	(Rs. In Lakhs) Amount	l			
			Land	Own/Rented				
			Building /Shed 1500 Sq ft Plant & Machinery	Own/Rented				
			Furniture & Fixtures	<u> </u>				
			Working Capital	3.33				
			Total	15.55	l			
	MEANS OF FINANCE							
			Particulars	Amount				
			Own Contribution Term Loan	1.56 11.00				
			Working Capital	3.00				
			Total	15.55				
			L	L	I			

Project Report on Fruit Vinegar



Product and its Applications

Vinegar is a natural product derived from alcoholic and acetous fermentation of a suitable medium such as fruits, malt, molasses, sugarcane juice etc. Vinegar is known to have various applications in homes, restaurants and in the food industries. It is used in pickle, chutney, tomato ketchup, sauces and various other condiment preparations. Vinegar aids digestion and improves the quality of cooked meat and fish. Vinegar should contain at least 3.75 g of acetic acid per 100 mL and also contain at least 1.5% w/v of total solids and 0.18% total ash.

Market Potential

Vinegar is largely produced in the cottage scale or in traditional sectors. Presently synthetic vinegar is also being produced. Natural fruit vinegar is nutritive, appealing and has a huge market demand.

Basis and Presumption

- The unit proposes to work at least 300 days per annum on single shift basis.
- The wages for skilled workers is taken as per prevailing rates in this type of industry.
- Interest rate for total capital investment is calculated @ 11% per annum.
- The entrepreneur is expected to raise 10% of the capital as margin money.
- The unit proposes to construct own building as per FSSAI. specifications.
- Costs of machinery and equipment are based on average prices enquired from machinery manufacturers.

Implementation schedule

Project implementation will take a period of 6-8 months. Break-up of the activities and relative time for each activity is shown below:

Scheme preparation and	01 month
approval	
License and registrations	1-2 months
Sanction of financial supports	2-5 months
etc	
Installation of machinery and	6-8 months
power connection	
Trial run and production	01 month

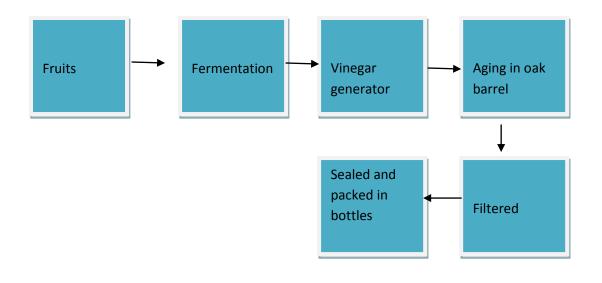
Technical aspects

Location

The plant can be located at any suitable place keeping in view the marketing convenience, availability of raw material, power, water and skilled manpower.

Process of Manufacture

Fruit vinegar is made from fruits e.g. pineapple, apple, grape, orange, banana, peach, apricot as well as sugarcane juice, coconut water, malt, molasses. The juice/ aqueous extract is fermented with Saccharomyces cerevisiae yeast after adjusting sugar concentration. The fermented alcoholic liquor is passed through vinegar generator for acetic acid fermentation using acetobactor culture. It takes nearly 15 days for completion of fermentation process. Vinegar contains about 4% acetic acid. The brewed vinegar is aged in plain oak barrels for at least 6 months to improve the flavour and bouquet. The final product is filtered, packed in bottles and sealed.



PROJECTED BALANCE SHEET							
PARTICULARS	1	II	III	IV	v		
SOURCES OF FUND							
Capital Account							
Opening Balance	-	1.70	4.61	7.13	8.41		
Add: Additions Add: Net Profit	1.56 2.14	- 4.41	-	- 8.28	-		
Less: Drawings	2.14	4.41 1.50	6.52 4.00	8.28 7.00	10.87 10.00		
Closing Balance	1.70	4.61	7.13	8.41	9.28		
CC Limit	3.00	3.00	3.00	3.00	3.00		
Term Loan	9.78	7.33	4.89	2.44	-		
Sundry Creditors	0.37	0.43	0.48	0.54	0.61		
TOTAL :	14.84	15.36	15.50	14.39	12.88		
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand Cash and Bank	12.22 1.77 10.45 1.62 2.18 0.60	12.22 3.28 8.94 1.89 2.33 2.20	12.22 4.58 7.64 2.14 2.53 3.18	12.22 5.68 6.54 2.35 3.88 1.62	12.22 6.62 5.60 2.69 4.11 0.48		
TOTAL :	14.84	15.36	15.50	14.39	12.88		
	-	-	-	-	-		

PROJECTED PRO	FITABILITY STATEMENT

48.46	56.70	64.12	70.53	80.79
48.46	56.70	64.12	70.53	80.79
22.43	25.51	28.84	32.45	36.34
2.96	3.20	3.45	3.69	3.94
0.24	0.28	0.32	0.35	0.40
10.76	11.83		14.32	15.75
				0.94
38.15	42.34	46.92	51.92	57.38
_	1.06	1.06	1 00	2.26
1.06				2.20
1.00	1.00	1.00	2.20	2.00
37.09	42.34	46.89	50.75	57.34
11.37	14.36	17.23	19.78	23.45
23.46%	25.32%	26.87%	28.04%	29.02%
1.19	0.97	0.71	0.44	0.17
0.33	0.33	0.33	0.33	0.33
5.28	5.81	6.39	7.03	7.73
2.42	2.84	3.21	3.53	4.04
9.23	9.95	10.63	11.32	12.27
				11.18
				13.8%
-	-	0.08	0.17	0.31
2.14	4.41	6.52	8.28	10.87
	22.43 2.96 0.24 10.76 1.77 38.15 - 1.06 37.09 11.37 23.46% 1.19 0.33 5.28 2.42 9.23 2.14 4.4%	22.43 25.51 2.96 3.20 0.24 0.28 10.76 11.83 1.77 1.51 38.15 42.34 - 1.06 1.06 1.06 37.09 42.34 11.37 14.36 23.46% 25.32% 1.19 0.97 0.33 0.33 5.28 5.81 2.42 2.84 9.23 9.95 2.14 4.41 4.4% 7.8%	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

PROJECTED CASH FLOW STATEMENT							
PARTICULARS	I	II	111	IV	v		
SOURCES OF FUND							
Own Contribution Net Profit Depreciation & Exp. W/off Increase In Cash Credit Increase In Term Loan Increase in Creditors	1.56 2.14 1.77 3.00 11.00 0.37	- 4.41 1.51 - 0.05	6.60 1.29 - 0.06	8.46 1.10 - 0.06	11.18 0.94 - 0.06		
TOTAL : APPLICATION OF FUND	19.84	5.98	7.95	9.62	12.18		
Increase in Fixed Assets Increase in Stock Increase in Debtors Repayment of Term Loan Taxation Drawings	12.22 2.18 1.62 1.22 - 2.00	- 0.15 0.27 2.44 - 1.50	0.20 0.25 2.44 0.08 4.00	- 1.35 0.21 2.44 0.17 7.00	- 0.23 0.34 2.44 0.31 10.00		
TOTAL :	19.24	4.37	6.97	11.18	13.33		
Opening Cash & Bank Balance	-	0.60	2.20	3.18	1.62		
Add : Surplus/(Deficit)	0.60	1.60	0.98	- 1.56	- 1.14		
Closing Cash & Bank Balance	0.60	2.20	3.18	1.62	0.48		

COMPUTATION OF FRUIT VINEGAR MANUFACTURING UNIT

Items to be Manufactured Fruit Vinegar

				1	
Manufacturing Capacity per Day		0.20	MT		
No. of Working Hour		0.20			
		0			
No of Working Days per month		25			
No. of Working Day per annum		300			
Total Production per Annum		60	MT		
			-		
Year		Capacity Utilisation	Fruit Vinegar		
1		60%	36		
		65%	39		
III		70%	42		
IV		75%	45		
V		80%	48		
COMPUTATION OF RAW MATER					
Item Name		Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Item Name Fruits			Unit MT	Unit Rate of 20,000.00	Annum (100%)
Item Name Fruits Glass bottles & caps		Raw Material 140.00 85,000		20,000.00	Annum (100%) 2,800,000.00 510,000.00
Item Name Fruits Glass bottles & caps Labels		Raw Material 140.00	MT	20,000.00	Annum (100%) 2,800,000.00 510,000.00 127,500.00
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture		Raw Material 140.00 85,000	MT Nos	20,000.00	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00
Item Name Fruits Glass bottles & caps Labels		Raw Material 140.00 85,000 85,000	MT Nos	20,000.00	
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture		Raw Material 140.00 85,000 85,000 I.s	MT Nos	20,000.00	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc.	at 100% Capacit	Raw Material 140.00 85,000 85,000 I.s I.s 85,140.00	MT Nos	20,000.00	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 150,000.00
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc. Total Total Total Raw material in Rs lacs Cost per MT	at 100% Capacit	Raw Material 140.00 85,000 85,000 I.s I.s 85,140.00	MT Nos kgs	20,000.00	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 150,000.00 3,737,500.00
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc. Total Total		Raw Material 140.00 85,000 85,000 I.s I.s 85,140.00	MT Nos kgs	20,000.00 6.00 1.50	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 150,000.00 3,737,500.00 37.38
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc. Total Total Total Raw material in Rs lacs Cost per MT	at 100% Capacit Capacity Utilisation	Raw Material 140.00 85,000 85,000 I.s I.s 85,140.00 ty	MT Nos kgs Amount (Rs.)	20,000.00 6.00 1.50 (In Rs)	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 3,737,500.00 37.38
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc. Total Total Total Raw material in Rs lacs Cost per MT Raw Material Consumed	at 100% Capacity Utilisation	Raw Material 140.00 85,000 85,000 I.s I.s 85,140.00 ty Rate 62,291.70	MT Nos kgs Amount (Rs.)	20,000.00 6.00 1.50 (In Rs)	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 3,737,500.00 37.38
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc. Total Total Total Raw material in Rs lacs Cost per MT Raw Material Consumed I II	at 100% Capacity Utilisation 60% 65%	Raw Material 140.00 85,000 85,000 1.s 1.s 85,140.00 ty Rate 62,291.70 65,406.30	MT Nos kgs Amount (Rs.) 22.43 25.51	20,000.00 6.00 1.50 (In Rs)	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 3,737,500.00 37.38
Item Name Fruits Glass bottles & caps Labels Chemicals, cobs, sugar, culture Lab consumables, misc. Total Total Total Raw material in Rs lacs Cost per MT Raw Material Consumed	at 100% Capacity Utilisation	Raw Material 140.00 85,000 85,000 I.s I.s 85,140.00 ty Rate 62,291.70	MT Nos kgs Amount (Rs.)	20,000.00 6.00 1.50 (In Rs)	Annum (100%) 2,800,000.00 510,000.00 127,500.00 150,000.00 150,000.00 3,737,500.00 37.38

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL								
PARTICULARS	1	II	111	IV	v			
Finished Goods (10 Days requirement)	1.06	1.06	1.09	2.26	2.30			
Raw Material	1.12	1.28	1.44	1.62	1.82			
(15 Days requirement)	1.12	1.20	1.44	1.02	1.82			
Closing Stock	2.18	2.33	2.53	3.88	4.11			

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	2.18		
Less:			
Sundry Creditors	0.37		
Paid Stock	1.81	0.18	1.63
Sundry Debtors	1.62	0.16	1.45
Working Capital Requ	irement		3.08
nonaig oapital noqu			0.00
Margin			0.34
MPBF			3.08
Working Capital Dema	Ind		3.00

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Supervisor	20,000.00	1	20,000.00
Plant Operator	15,000.00	1	15,000.00
Unskilled Worker	8,500.00	4	34,000.00
Helper	5,000.00	1	5,000.00
Security Guard	7,500.00	1	7,500.00
			81,500.00
Add: 10% Fringe Benefit			8,150.00
Total Labour Cost Per Month			89,650.00
Total Labour Cost for the year (In Rs. Lakhs)		8	10.76

BREAK UP OF SALARY

	0.1		-
Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Accountant cum store keeper	15,000.00	1	15,000.00
Administrative Staffs	12,500.00	2	25,000.00
Total Salary Per Month			40,000.00
Add: 10% Fringe Benefit			4,000.00
Total Salary for the month			44,000.00
Total Salary for the year (In Rs. Lakhs)		3	5.28

COMPUTATION OF DEPRECIATION

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation			15.00%	10.00%	
Opening Balance	Ov	vn/Rented	-	-	-
Addition	-		11.00	1.22	12.22
	-		11.00	1.22	12.22
TOTAL			11.00	1.22	12.22
-		-	1.65	0.12	12.22
Less : Depreciation	-	-			
WDV at end of Ist year	-	-	9.35	1.10	10.45
Additions During The Year	-	-	-	- 1.10	-
Loop - Depressistion	-	-	9.35 1.40	0.11	<u>10.45</u> 1.51
Less : Depreciation	-	-	-	-	
WDV at end of IInd Year	-	-	7.95	0.99	8.94
Additions During The Year	-	-	-	-	-
Lass Demosistics	-	-	7.95	0.99	8.94
Less : Depreciation	-	-	1.19	0.10	1.29
WDV at end of IIIrd year	-	-	6.76	0.89	7.64
Additions During The Year	-	-	-	-	-
	-	-	6.76	0.89	7.64
Less : Depreciation	-	-	1.01	0.09	1.10
WDV at end of IV year Additions During The Year	-	-	5.74	0.80	6.54
Additions During the real		-	5.74	0.80	6.54
Less : Depreciation		-	0.86	0.80	0.94
WDV at end of Vth year			4.88	0.08	5.60

Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
						01 2 4.4.1.00
Opening Balance						
Ist Quarter	-	11.00	11.00	0.30	-	11.00
lind Quarter	11.00	-	11.00	0.30	-	11.00
IIIrd Quarter	11.00	-	11.00	0.30	0.61	10.39
Ivth Quarter	10.39	-	10.39	0.29	0.61	9.78
				1.19	1.22	
Opening Balance				-		
	9.78	-	9.78	0.27	0.61	9.17
		-				8.55
IIIrd Quarter	8.55	-	8.55	0.24	0.61	7.94
lvth Quarter			7.94			7.33
				0.97	2.44	
Opening Balance						
Ist Quarter	7.33	-	7.33	0.20	0.61	6.72
		-				6.11
		-				5.50
			5.50			4.89
Opening Balance				-		
Ist Quarter	4.89	-	4.89	0.13	0.61	4.28
lind Quarter		-	4.28	0.12	0.61	3.67
IIIrd Quarter	3.67	-	3.67	0.10	0.61	3.06
Ivth Quarter	3.06		3.06	0.08	0.61	2.44
				0.44	2.44	
Opening Balance						
Ist Quarter	2.44	-	2.44	0.07	0.61	1.83
lind Quarter	1.83	-	1.83	0.05	0.61	1.22
IIIrd Quarter	1.22	-	1.22	0.03	0.61	0.61
Ivth Quarter	0.61		0.61	0.02	0.61	- 0.00
				0.17	2.44	
	Ist Quarter Iind Quarter IIIrd Quarter IVth Quarter IVth Quarter Opening Balance Ist Quarter IIIrd Quarter IVth Quarter IIIrd Quarter	Ist Quarter - Iind Quarter 11.00 Illrd Quarter 11.00 Ivth Quarter 10.39 Opening Balance Ist Quarter 9.78 Iind Quarter 9.78 Iind Quarter 8.55 Ivth Quarter 7.94 Opening Balance Ist Quarter 6.72 Illrd Quarter 6.72 Illrd Quarter 6.71 Ivth Quarter 5.50 Opening Balance Ist Quarter 4.89 Iind Quarter 3.67 Ivth Quarter 3.67 Ivth Quarter 2.44 Iind Quarter 1.83 Illrd Quarter 1.83 Illrd Quarter 1.22	Ist Quarter - 11.00 lind Quarter 11.00 - IIIrd Quarter 11.00 - lvth Quarter 10.39 - Opening Balance Ist Quarter 9.78 - lind Quarter 9.78 - IIIrd Quarter 8.55 - lvth Quarter 7.94 Opening Balance Ist Quarter 6.72 - IIIrd Quarter 6.72 - IIIrd Quarter 6.11 - Ivth Quarter 5.50 Opening Balance Ist Quarter 4.89 - Ist Quarter 4.89 - Ist Quarter 3.67 - IIIrd Quarter 3.67 - IIIrd Quarter 3.06 Opening Balance Ist Quarter 1.83 - IIIrd Quarter 1.83 - IIIrd Quarter 1.83 - IIIrd Quarter 1.22 -	Ist Quarter - 11.00 11.00 lind Quarter 11.00 - 11.00 Illrd Quarter 11.00 - 11.00 Illrd Quarter 10.39 - 10.39 Opening Balance - 9.78 - 9.78 Ist Quarter 9.17 - 9.17 Illrd Quarter 8.55 - 8.55 Ivth Quarter 7.94 7.94 Opening Balance - - Ist Quarter 7.33 - 7.33 Ind Quarter 6.72 - 6.72 Illrd Quarter 6.11 - 6.11 Ivth Quarter 5.50 5.50 5.50 Opening Balance - - - Ist Quarter 4.89 - 4.89 Illrd Quarter 3.67 - 3.67 Illrd Quarter 3.06 3.06 - Opening Balance - - - Ist Quarter 3.06 3.06 - Opening Balance - - </td <td>Ist Quarter - 11.00 11.00 0.30 lind Quarter 11.00 - 11.00 0.30 Illrd Quarter 11.00 - 11.00 0.30 Ivth Quarter 10.39 - 10.39 0.29 Integration of the second state of the</td> <td>Ist Quarter - 11.00 11.00 0.30 - lind Quarter 11.00 - 11.00 0.30 - Illrd Quarter 11.00 - 11.00 0.30 0.61 Ivth Quarter 10.39 - 10.39 0.29 0.61 Opening Balance Ist Quarter 9.78 - 9.78 0.27 0.61 Integration of the second second</td>	Ist Quarter - 11.00 11.00 0.30 lind Quarter 11.00 - 11.00 0.30 Illrd Quarter 11.00 - 11.00 0.30 Ivth Quarter 10.39 - 10.39 0.29 Integration of the second state of the	Ist Quarter - 11.00 11.00 0.30 - lind Quarter 11.00 - 11.00 0.30 - Illrd Quarter 11.00 - 11.00 0.30 0.61 Ivth Quarter 10.39 - 10.39 0.29 0.61 Opening Balance Ist Quarter 9.78 - 9.78 0.27 0.61 Integration of the second

PARTICULARS	I	II	III	IV	V
CASH ACCRUALS	3.91	5.92	7.81	9.39	11.81
Interest on Term Loan	1.19	0.97	0.71	0.44	0.17
Total	5.11	6.90	8.52	9.82	11.98
REPAYMENT					
Repayment of Term Loan	1.22	2.44	2.44	2.44	2.44
Interest on Term Loan	1.19	0.97	0.71	0.44	0.17
Total	2.41	3.42	3.15	2.88	2.61
DEBT SERVICE COVERAGE RATIO	2.12	2.02	2.70	3.41	4.59
AVERAGE D.S.C.R.			2.92		

COMPUTATION OF SALE

Particulars	I	II	III	IV	V
Op Stock	-	1.00	1.00	1.00	2.00
Production	36.00	39.00	42.00	45.00	48.00
	36.00	40.00	43.00	46.00	50.00
Less : Closing Stock(10 Days)	1.00	1.00	1.00	2.00	2.00
Net Sale MT	35.00	39.00	42.00	44.00	48.00
Fruit Vinegar (650 ml bottles)	53,846.00	60,000.00	64,615.00	67,692.00	73,846.00
Sale Price per Bottle	90.00	94.50	99.23	104.19	109.40
Sale (in Lacs)	48.46	56.70	64.12	70.53	80.79

COMPUTATION OF ELECTRICITY	(
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	30	
Load Factor		0.7460	
Electricity Charges	per unit	7.50	
Total Working Days		300	
Electricity Charges			4.03
Add : Minimim Charges (@ 10%)			
(B) DG set			
No. of Working Days		300	days
No of Working Hours		0.5	Hour per day
Total no of Hour		150	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		1,200	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		0.78	
Add : Lube Cost @15%		0.12	
Total		0.90	
Total cost of Power & Fuel at 100%	,		4.93
Year	Capacity		Amount
			(in Lacs)
I	60%		2.96
	65%		3.20
III	70%		3.45
IV	75%		3.69
V	80%		3.94



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