# PROJECT REPORT <br> <br> OF <br> <br> OF <br> <br> BAKED BEANS PRODUCTION UNIT 

 <br> <br> BAKED BEANS PRODUCTION UNIT}

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Baked Beans Production Unit.

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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| 1 Name of Proprietor/Director | XXXXXXXX |
| :--- | ---: |
| $\mathbf{2}$ Firm Name | XXXXXXXX |
| $\mathbf{3}$ Registered Address | XXXXXXXX |
| $\mathbf{4}$ Nature of Activity | XXXXXXXX |
| $\mathbf{5}$ Category of Applicant | XXXXXXXX |
| $\mathbf{6}$ Location of Unit | XXXXXXXX |
| $\mathbf{7}$ Cost of Project | 22.75 |
| $\mathbf{8}$ Means of Finance In Lakhs |  |
| i) Own Contribution |  |
| ii) Term Loan | $2.28 \quad$ Rs. In Lakhs |
| iii) Working Capital | $15.98 \quad$ Rs. In Lakhs |
| $\mathbf{9}$ Debt Service Coverage Ratio | 4.50 |
| Rs. In Lakhs |  |
| $\mathbf{1 0}$ Break Even Point | 1.65 |
| $\mathbf{1 1}$ Power Requiremnet | 0.54 |
| $\mathbf{1 2}$ Employment | 15 KW |
|  | $9 \quad$ Persons |
| $\mathbf{1 3}$ Major Raw Materials | Beans or Haricot beans, |
|  | Tomato Puree, Starch, Salt, |
|  |  |

14 Details of Cost of Project \& Means of Finance
Cost of Project

| Particulars | Amount in Lacs |
| :--- | ---: |
| Land | Owned/Leased |
| Building \& Civil Work | Owned/Leased |
| Plant \& Machinery | 16.50 |
| Other Misc Assets | 1.25 |
| Working Capital Requirement | 5.00 |
| Total | $\mathbf{2 2 . 7 5}$ |

Means of Finance

| Particulars | Amount in Lacs |
| :--- | ---: |
| Own Contribution | 2.28 |
| Term Loan | 15.98 |
| Working capital Loan | 4.50 |
| Total | $\mathbf{2 2 . 7 5}$ |

## 1. INTRODUCTION



Beans are members of the legume family, plants that produce pods with seeds inside. They're a staple food in some cultures and an important source of plant-based protein and other essential nutrients, such as iron and folate. Canning is a method of preserving foods for long periods by packing them in airtight containers. Beans are partially cooked and canned under high heat and pressure. Canned beans are a versatile processed food and offer a nutritional profile similar to that of dried beans. They are an excellent source of fiber, plant-based protein, and other essential nutrients, such as folate and potassium. They're reliable, cheap, and nonperishable, and they also play nicely with a multitude of other ingredients, including vegetables, rice, fish, and meat. Despite the potential for contamination, canned beans are generally safe to consume and prove to be a convenient and nutritious alternative to dried beans. Dried beans can take a long time to soak and cook (sometimes, you have to plan a day or two ahead). Unsurprisingly, many end up taking the familiar and low-cost shortcut of using canned beans instead.

## 2. PRODUCT DESCRIPTION

### 2.1 PRODUCT USES

Baked beans are used as a convenience food. They may be eaten hot or cold, and straight from the can, as they are fully cooked. Baked beans are served alongside barbecue foods and at picnics. Baked beans are used in salads or culinary dishes. Consumption of baked beans was found to lower cholesterol levels a good source of vegetable protein. Nutritional value includes vegetable protein, low fat and fiber.

### 2.2 PRODUCT RAW MATERIAL

- Beans: The unit's primary raw material is beans. High-quality beans can be procured. Most vendors use haricot beans for baked beans production.

- Other: Tomato puree, Starch, Salt, sugar, Spices, artificial flavourings, additives, and preservatives. Packing materials. Steel tins or cans are used as a packing material.



### 2.3 MANUFACTURING PROCESS

This process can be broken down into the following steps-

- Raw material procurement
- Baked beans production process
- Testing


## Raw Material Procurement

The raw materials are checked strictly as per established quality standards and requirements. Individual supplier assessment and supplier rating are done depending upon the rejection levels at the incoming quality control stage. Sorting of raw material will be done as per material type or specifications. The material will be stored in; a dust-free, moisture-free, cool, neat, and clean environment.

## Powder Making Process

1. Bean Conditioning: The conditioning process is there to remove broken beans, offcolored beans, stones, and other foreign material. Uniformity in the beans helps in further processing and allows them to soak up water before being steamed. Conditioning is done using different methods that include sieves, sifters, color sorters,
destoners, and gravity separators. This process can be optional if high quality beans are procured.
2. Re-hydration: The dried beans are first rehydrated with hot water. The process starts with beans loaded into a blancher goes through conveyor then rehydrated with water. They are then introduced to 85 -degree chamber then soaking for 10 minutes. The steam blancher softens the dry beans then rehydration in warm water to remove excess skin. This process simultaneously kills any microorganisms on the surface of the beans.
3. Ingredient Mixing: Discolored beans are removed through a laser air jet system before addition of ingredients. Ingredients added are tomato puree, starch to thicken, vinegar spices. They are then treated with any food additives, including salt, and canned under high pressure and heat.
4. Blending: The mixture is blended for 15 minutes before steaming and canning.
5. Filling \& Steaming: It will be kept in steamer about 2 hours for baking beans. The blended mixture is then filled by fillers in cans or tan and sealed and a long bout in the super-steamy pressure cookers, between 90 minutes and five hours, depending on the flavor. That last step prevents bacteria from getting into the can.
6. Cooling: Later, cans are given time to cool. They're labeled and organized on a conveyor belt and sent down to the warehouse.


## Testing

Quality control

## 3. PROJECT COMPONENTS

### 3.1 Land \& Building

The land required for this manufacturing unit will be approx. around 3000-4000 square feet. Land Purchase and Building Civil Work Cost have not been considered as part of the cost of project. It is expected that the premises will be on rental and approximate rentals assumed of the same will be Rs. 30,000 to Rs. 40,000 per month.

### 3.2 Plant \& Machinery

This is a semi-automatic type of plant and the production capacity is set to be 120 Kg Baked Beans per day.

## Machines-

- Bean Cleaning Machine (Optional)

This machine is used to clean raw bean seeds. Various machines or fully automatic bean cleaner can be used for bean cleaning process.


## - Fully Automatic Baked Bean Production Line

This line consists of various machines used for baked bean production. This line has, Hydration tanks, Vacuum extractor tank, Hosting pool, Blancher, Cooling and inspection hopper, Steamer, Filler machine etc.

1. Hydration tanks- Used for rehydration of beans.
2. Vacuum extractor tank: For bringing the pulses from the hydration tanks.
3. Hosting pool: For collecting the product from the extractor and feeding it into the Blancher. Inferior tank with perforated sheeting on the floor to allow passage of water. Polypropylene band conveyor with buckets to get the product. Recirculating pump to return water to hydration tanks. Tank with adjustable overflow, stopcock, etc. equipment's comes in hosting pool.
4. Blancher: It consisting of rotary drum with removable $\varnothing 3 \mathrm{~mm}$ perforated sheeting for ease of cleaning. This is fitted with a worm to force the product through the machine and deflector fins for floating products. It has several features such as, movement via 2 hp mechanical gear motor with electronic variable drive. Tube heat exchanger on the outside of the blancher is to heat the water indirectly and recycle the condensates. 3 hp pump used to recirculate the water from the tank through the heat exchanger and create a counterflow for uniform temperatures. It has incorporating spray in the center of the worm. It also has Digital temperature control with modulated pneumatic valve and filter.
5. Vibrating conveyor - vibratory tray: For collecting the product from the blancher and feeding it evenly into the cooling hopper.
6. Cooling and inspection hopper: Hopper with upper overflow and gate to take skins to one end. Centrifugal pump to generate water flow. Bar of network sprays at the end of the ascent for rinsing the product and renewing the water in the hopper to keep it from heating up.
7. Filler machine: Filler machine is for filling the product into glass jars and metal cans.
8. Sealing machine: This machine is used for sealing filled cans.
9. Liquid dosing machine: This machine is for adding tomato puree or other required ingredients.
10. Semi-automatic loader: For placing cans into baskets.
11. Steamer: It is for steaming operation of beans.


## 4 LICENSE \& APPROVALS

Basic registration required in this project:

- Company registration
- GST registration
- MSME Udyam registration
- BIS certification
- Trademark registration
- Food and Safety Administration approval

| PROJECTED BALANCE SHEET |  |  |  |  | (in Lacs) |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |
| PARTICULARS | 1st year | 2nd year | 3rd year | 4th year | 5th year |
| Liabilities |  |  |  |  |  |
| Capital |  |  |  |  |  |
| Opening balance |  | 3.59 | 5.81 | 8.04 | 11.24 |
| Add:- Own Capital | 2.28 |  |  |  |  |
| Add:- Retained Profit | 3.81 | 5.72 | 7.24 | 9.69 | 11.46 |
| Less:- Drawings | 2.50 | 3.50 | 5.00 | 6.50 | 7.50 |
|  |  |  |  |  |  |
|  | $\mathbf{3 . 5 9}$ | $\mathbf{5 . 8 1}$ | $\mathbf{8 . 0 4}$ | $\mathbf{1 1 . 2 4}$ | $\mathbf{1 5 . 2 0}$ |
| Closing Balance | 14.20 | 10.65 | 7.10 | 3.55 | - |
| Term Loan | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| Working Capital Limit | 1.32 | 1.49 | 1.67 | 1.86 | 2.07 |
| Sundry Creditors | 0.40 | 0.48 | 0.58 | 0.80 | 0.96 |
| Provisions \& Other Liability | $\mathbf{2 4 . 0 1}$ | $\mathbf{2 2 . 9 3}$ | $\mathbf{2 1 . 8 9}$ | $\mathbf{2 1 . 9 5}$ | $\mathbf{2 2 . 7 3}$ |
| TOTAL : |  |  |  |  |  |
| Assets | 17.75 | 17.75 | 17.75 | 17.75 | 17.75 |
| Fixed Assets (Gross) | 2.66 | 4.93 | 6.85 | 8.48 | 9.87 |
| Gross Dep. | $\mathbf{1 5 . 0 9}$ | $\mathbf{1 2 . 8 2}$ | $\mathbf{1 0 . 9 0}$ | $\mathbf{9 . 2 7}$ | $\mathbf{7 . 8 8}$ |
| Net Fixed Assets |  |  |  |  |  |
|  |  |  |  |  |  |
| Current Assets | 2.85 | 3.28 | 3.67 | 4.10 | 4.57 |
| Sundry Debtors | 3.59 | 4.02 | 4.50 | 4.97 | 5.50 |
| Stock in Hand | 1.48 | 1.30 | 1.07 | 1.61 | 1.78 |
| Cash and Bank | 1.00 | 1.50 | 1.75 | 2.00 | 3.00 |
| Loans \& Advances | $\mathbf{2 4 . 0 1}$ | $\mathbf{2 2 . 9 3}$ | $\mathbf{2 1 . 8 9}$ | $\mathbf{2 1 . 9 5}$ | $\mathbf{2 2 . 7 3}$ |
| TOTAL : |  |  |  |  |  |


| PROJECTED PROFITABILITY STATEMENT |  | (in Lacs) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | 1st year | 2nd year | 3rd year | 4th year | 5th year |
| Capacity Utilisation \% <br> SALES | 70\% | 75\% | 80\% | 85\% | 90\% |
| Gross Sale |  |  |  |  |  |
| BAKED BEANS PRODUCTION UNIT | 85.46 | 98.47 | 110.24 | 123.08 | 137.07 |
| Total | 85.46 | 98.47 | 110.24 | 123.08 | 137.07 |
| COST OF SALES |  |  |  |  |  |
| Raw Material Consumed | 56.70 | 63.75 | 71.60 | 79.90 | 88.65 |
| Electricity Expenses | 2.02 | 2.48 | 2.65 | 2.82 | 2.98 |
| Depreciation | 2.66 | 2.26 | 1.92 | 1.64 | 1.39 |
| Wages \& labour | 7.20 | 7.92 | 8.71 | 9.58 | 10.54 |
| Repair \& maintenance | 2.56 | 2.95 | 3.31 | 2.46 | 2.74 |
| Packaging | 1.71 | 1.97 | 2.20 | 2.46 | 2.74 |
| Cost of Production | 72.85 | 81.34 | 90.40 | 98.86 | 109.05 |
| Add: Opening Stock | - | 1.70 | 1.90 | 2.11 | 2.31 |
| Less: Closing Stock | 1.70 | 1.90 | 2.11 | 2.31 | 2.54 |
| Cost of Sales | 71.15 | 81.14 | 90.19 | 98.66 | 108.81 |
| GROSS PROFIT | 14.31 | 17.33 | 20.05 | 24.42 | 28.26 |
| GROSS PROFIT RATIO | 16.74\% | 17.60\% | 18.19\% | 19.84\% | 20.62\% |
| Salary to Staff | 3.12 | 3.43 | 3.78 | 4.15 | 4.57 |
| Interest on Term Loan | 1.57 | 1.38 | 0.99 | 0.60 | 0.21 |
| Interest on working Capital | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Rent | 3.60 | 4.14 | 4.76 | 5.48 | 6.30 |
| Selling \& Administrative Exp. | 1.71 | 1.97 | 2.20 | 3.69 | 4.11 |
| TOTAL | 10.49 | 11.42 | 12.23 | 14.42 | 15.68 |
| NET PROFIT | 3.81 | 5.91 | 7.82 | 10.00 | 12.58 |
| Taxation | - | 0.19 | 0.59 | 0.31 | 1.12 |
| PROFIT (After Tax) | 3.81 | 5.72 | 7.24 | 9.69 | 11.46 |
| NET PROFIT RATIO | 4.46\% | 5.81\% | 6.56\% | 7.87\% | 8.36\% |


| PROJECTED CASH FLOW STATEMENT |  |  |  |  | (in Lacs) |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| PARTICULARS | 1st year | 2nd year | 3rd year | 4th year | 5th year |
| SOURCES OF FUND |  |  |  |  |  |
| Own Margin | 2.28 |  |  |  |  |
| Net Profit | 3.81 | 5.91 | 7.82 | 10.00 | 12.58 |
| Depreciation \& Exp. W/off | 2.66 | 2.26 | 1.92 | 1.64 | 1.39 |
| Increase in Cash Credit | 4.50 | - | - | - | - |
| Increase In Term Loan | 15.98 | - | - | - | - |
| Increase in Creditors | 1.32 | 0.16 | 0.18 | 0.19 | 0.20 |
| Increase in Provisions \& Oth labilities | 0.40 | 0.08 | 0.10 | 0.22 | 0.16 |
|  | - |  |  |  |  |
| TOTAL : | $\mathbf{3 0 . 9 5}$ | $\mathbf{8 . 4 2}$ | $\mathbf{1 0 . 0 3}$ | $\mathbf{1 2 . 0 6}$ | $\mathbf{1 4 . 3 4}$ |
| APPLICATION OF FUND |  |  |  |  |  |
| Increase in Fixed Assets | 17.75 |  |  |  |  |
| Increase in Stock | 3.59 | 0.43 | 0.47 | 0.47 | 0.53 |
| Increase in Debtors | 2.85 | 0.43 | 0.39 | 0.43 | 0.47 |
| Repayment of Term Loan | 1.78 | 3.55 | 3.55 | 3.55 | 3.55 |
| Increase in Loans \& Advances | 1.00 | 0.50 | 0.25 | 0.25 | 1.00 |


| CALCULATION OF D.S.C.R |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
| PARTICULARS |  |  |  |  |  |  |
| 1st year | 2nd year | 3rd year | 4th year | 5th year |  |  |
|  |  |  |  |  |  |  |
| CASH ACCRUALS | 6.47 | 7.98 | 9.16 | 11.33 | 12.85 |  |
| Interest on Term Loan | 1.57 | 1.38 | 0.99 | 0.60 | 0.21 |  |
| Total | 8.05 | 9.37 | 10.15 | 11.93 | 13.07 |  |
|  |  |  |  |  |  |  |
| REPAYMENT |  |  |  |  |  |  |
| Instalment of Term Loan | 1.78 | 3.55 | 3.55 | 3.55 | 3.55 |  |
| Interest on Term Loan | 1.57 | 1.38 | 0.99 | 0.60 | 0.21 |  |
|  |  |  |  |  |  |  |
| Total | 3.35 | 4.93 | 4.54 | 4.15 | 3.76 |  |
|  |  |  |  |  |  |  |
| DEBT SERVICE COVERAGE RATIO | $\mathbf{2 . 4 1}$ | $\mathbf{1 . 9 0}$ | $\mathbf{2 . 2 4}$ | $\mathbf{2 . 8 7}$ | $\mathbf{3 . 4 7}$ |  |
| AVERAGE D.S.C.R. |  |  |  | $\mathbf{2 . 5 3}$ |  |  |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Interest | 11.00\% |
| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Closing <br> Balance |
|  | Opening Balance |  |  |  |  |  |  |
|  | 1st month | - | 15.98 | 15.98 | - | - | 15.98 |
|  | 2nd month | 15.98 | - | 15.98 | 0.15 | - | 15.98 |
|  | 3rd month | 15.98 | - | 15.98 | 0.15 | - | 15.98 |
|  | 4th month | 15.98 | - | 15.98 | 0.15 |  | 15.98 |
|  | 5th month | 15.98 | - | 15.98 | 0.15 |  | 15.98 |
|  | 6th month | 15.98 | - | 15.98 | 0.15 |  | 15.98 |
|  | 7th month | 15.98 | - | 15.98 | 0.15 | 0.30 | 15.68 |
|  | 8th month | 15.68 | - | 15.68 | 0.14 | 0.30 | 15.38 |
|  | 9th month | 15.38 | - | 15.38 | 0.14 | 0.30 | 15.09 |
|  | 10th month | 15.09 | - | 15.09 | 0.14 | 0.30 | 14.79 |
|  | 11th month | 14.79 | - | 14.79 | 0.14 | 0.30 | 14.50 |
|  | 12th month | 14.50 | - | 14.50 | 0.13 | 0.30 | 14.20 |
|  |  |  |  |  | 1.57 | 1.78 |  |
| 2nd | Opening Balance |  |  |  |  |  |  |
|  | 1st month | 14.20 | - | 14.20 | 0.13 | 0.30 | 13.90 |
|  | 2nd month | 13.90 | - | 13.90 | 0.13 | 0.30 | 13.61 |
|  | 3rd month | 13.61 | - | 13.61 | 0.12 | 0.30 | 13.31 |
|  | 4th month | 13.31 | - | 13.31 | 0.12 | 0.30 | 13.02 |
|  | 5th month | 13.02 | - | 13.02 | 0.12 | 0.30 | 12.72 |
|  | 6th month | 12.72 | - | 12.72 | 0.12 | 0.30 | 12.43 |
|  | 7th month | 12.43 | - | 12.43 | 0.11 | 0.30 | 12.13 |
|  | 8th month | 12.13 | - | 12.13 | 0.11 | 0.30 | 11.83 |
|  | 9th month | 11.83 | - | 11.83 | 0.11 | 0.30 | 11.54 |
|  | 10th month | 11.54 | - | 11.54 | 0.11 | 0.30 | 11.24 |
|  | 11th month | 11.24 | - | 11.24 | 0.10 | 0.30 | 10.95 |
|  | 12th month | 10.95 | - | 10.95 | 0.10 | 0.30 | 10.65 |
|  |  |  |  |  | 1.38 | 3.55 |  |
| 3rd | Opening Balance |  |  |  |  |  |  |
|  | 1st month | 10.65 | - | 10.65 | 0.10 | 0.30 | 10.35 |
|  | 2nd month | 10.35 | - | 10.35 | 0.09 | 0.30 | 10.06 |
|  | 3rd month | 10.06 | - | 10.06 | 0.09 | 0.30 | 9.76 |
|  | 4th month | 9.76 | - | 9.76 | 0.09 | 0.30 | 9.47 |
|  | 5th month | 9.47 | - | 9.47 | 0.09 | 0.30 | 9.17 |
|  | 6th month | 9.17 | - | 9.17 | 0.08 | 0.30 | 8.88 |
|  | 7th month | 8.88 | - | 8.88 | 0.08 | 0.30 | 8.58 |
|  | 8th month | 8.58 | - | 8.58 | 0.08 | 0.30 | 8.28 |
|  | 9th month | 8.28 | - | 8.28 | 0.08 | 0.30 | 7.99 |
|  | 10th month | 7.99 | - | 7.99 | 0.07 | 0.30 | 7.69 |
|  | 11th month | 7.69 | - | 7.69 | 0.07 | 0.30 | 7.40 |
|  | 12th month | 7.40 | - | 7.40 | 0.07 | 0.30 | 7.10 |
|  |  |  |  |  | 0.99 | 3.55 |  |


| 4th Opening Balance |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 st month | 7.10 | - | 7.10 | 0.07 | 0.30 | 6.80 |
| 2nd month | 6.80 | - | 6.80 | 0.06 | 0.30 | 6.51 |
| 3rd month | 6.51 | - | 6.51 | 0.06 | 0.30 | 6.21 |
| 4th month | 6.21 | - | 6.21 | 0.06 | 0.30 | 5.92 |
| 5th month | 5.92 | - | 5.92 | 0.05 | 0.30 | 5.62 |
| 6th month | 5.62 | - | 5.62 | 0.05 | 0.30 | 5.33 |
| 7th month | 5.33 | - | 5.33 | 0.05 | 0.30 | 5.03 |
| 8th month | 5.03 | - | 5.03 | 0.05 | 0.30 | 4.73 |
| 9th month | 4.73 | - | 4.73 | 0.04 | 0.30 | 4.44 |
| 10th month | 4.44 | - | 4.44 | 0.04 | 0.30 | 4.14 |
| 11th month | 4.14 | - | 4.14 | 0.04 | 0.30 | 3.85 |
| 12th month | 3.85 | - | 3.85 | 0.04 | 0.30 | 3.55 |
|  |  |  |  | 0.60 | 3.55 |  |
| 5th Opening Balance |  |  |  |  |  |  |
| 1st month | 3.55 | - | 3.55 | 0.03 | 0.30 | 3.25 |
| 2nd month | 3.25 | - | 3.25 | 0.03 | 0.30 | 2.96 |
| 3 rd month | 2.96 | - | 2.96 | 0.03 | 0.30 | 2.66 |
| 4th month | 2.66 | - | 2.66 | 0.02 | 0.30 | 2.37 |
| 5th month | 2.37 | - | 2.37 | 0.02 | 0.30 | 2.07 |
| 6th month | 2.07 | - | 2.07 | 0.02 | 0.30 | 1.78 |
| 7th month | 1.78 | - | 1.78 | 0.02 | 0.30 | 1.48 |
| 8th month | 1.48 | - | 1.48 | 0.01 | 0.30 | 1.18 |
| 9th month | 1.18 | - | 1.18 | 0.01 | 0.30 | 0.89 |
| 10th month | 0.89 | - | 0.89 | 0.01 | 0.30 | 0.59 |
| 11th month | 0.59 | - | 0.59 | 0.01 | 0.30 | 0.30 |
| 12th month | 0.30 | - | 0.30 | 0.00 | 0.30 | - |
|  |  |  |  | 0.21 | 3.55 |  |
| DOOR TO DOOR | 60 | MONTHS |  |  |  |  |
| MORATORIUM PERIOD | 6 | MONTHS |  |  |  |  |
| REPAYMENT PERIOD | 54 | MONTHS |  |  |  |  |

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