## PROJECT REPORT

## Of

## GRAPHITE CRUCIBLES

## PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Graphite Crucibles.

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.]

## PROJECT AT A GLANCE

1 Name of the Entreprenuer
2 Constitution (legal Status)
3 Father / Spouse Name
4 Unit Address

5 Product and By Product

6 Name of the project / business activity proposed:

7 Cost of Project
8 Means of Finance Term Loan
Own Capital
Working capita
9 Debt Service Coverage Ratio
10 Pay Back Period

11 Project Implementation Period
12 Break Even Point
13 Employment
14 Power Requirement

15 Major Raw materials

16 Estimated Annual Sales Turnover (Max Capacity)
17 Detailed Cost of Project \& Means of Finance

COST OF PROJECT

| (Rs. In Lakhs) |  |
| :--- | ---: |
| Particulars | Amount |
| Land | Own/Rented |
| Plant \& Machinery | 30.00 |
| Furniture \& Fixtures | 2.00 |
| Working Capital | 7.78 |
| Total | $\mathbf{3 9 . 7 8}$ |

MEANS OF FINANCE

| Particulars | Amount |
| :--- | ---: |
| Own Contribution |  |
| Working Capital(Finance) | 3.98 |
| Term Loan | 7.00 |
| Total | 28.80 |

## GRAPHITE CRUCIBLES

Introduction: Graphite Crucibles are refractory containers specially shaped for metallurgical operations. These are made of a mixture of Graphite, Refractory Clay, Grog and other additives. These crucibles are termed as clay bonded Graphite crucibles according to the raw materials used. The crucibles are available with or without spout. These crucibles are used for melting ferrous, non-ferrous metals alloys and noble metals.


Uses \& Market Potential: Graphite Crucibles used in furnaces, direct heating and induction electric furnaces in a vacuum or protective atmosphere at temperatures upto $2500^{\circ} \mathrm{C}$. Crucibles are recommended for use with melts of copper, aluminium, zinc, and other metals and their alloys.

The main market for the product is foundry industry. With the growing industrial sector the need for specialized metal and alloy castings is increasing day-by-day. With the advent of many multinational automobile industrial units, many auto spare are manufactured in large numbers in Haryana, Delhi, Punjab and Maharashtra States. There is a good demand in these States for
graphite crucibles. The use of Graphite Crucibles shall accordingly increase. There is a good scope of development of modern smallscale industries with the growing prospects of special casting metallurgical industry both for domestic and export market.

Raw Material: Major raw material requirements are as follows:

1. Graphite Powder
2. Crucible Grog
3. Silicon Carbide Granules
4. Fireclay \& Plastic Clay
5. Fireclay Grog
6. Coke Dust/Granules
7. Other Chemical \& consumables
8. Packing material

Machinery \& Equipments: Major machineries \& equipments are as follows:

| S No. | Machine | Unit | Price |
| :--- | :--- | :--- | :--- |
| 1. | Roller Crusher, Single roller size 350 x 300mm <br> with a 7.5HP motor and accessories | 1 | 150000 |
| 2. | Disintegrator 14" size with 5HP Motor | 1 | 60000 |
| 3. | Pan Mixer, 0.5MT capacity with a 3 HP motor and <br> other accessories | 1 | 140000 |
| 4. | De airing pugmill, capacity 250 kg/hr. with a 5HP <br> motor vacuum pump and other accessories | 1 | 450000 |
| 5. | Hydraulic press with all accessories cap: 1MT/day | 1 | 450000 |
| 6. | 5 Tonne capacity oil fired down draft kiln with <br> good thermal insulation (back-up) and with a 25 | 1 | 1500000 |
| metres high chimney, thermocouples and other |  |  |  |
| draft measuring equipment |  |  |  |$\quad$|  | Other machinery \& equipments |
| :--- | :--- |
|  | Total Amount |

Manufacturing Process: The raw materials such as graphite, Refractory/plastic clay, grog and other additives are mixed in a pan mixer after taking proper batch proportions. The wet mass is then kept for ageing. The aged mix is then extruded in a de-airing pugmill and blanks are made. The crucibles are prepared from the blanks either by pressing in a hydraulic press or by jiggering. The shaped crucibles are then dried, glazed and fired in a kiln to develop strength and glaze.


#### Abstract

Area: The industrial setup requires space for Inventory, workshop or manufacturing area, space for power supply utilities and auxiliary like Generator setup. Also some of the area of building is required for office staff facilities, documentation, office furniture, etc. Thus, the approximate total area required for complete industrial setup is 2500 to 3000 Sqft.

Power Requirement -The power consumption required to run all the machinery could be approximated as 40 hp


Manpower Requirement- There are requirement of skilled machine operators to run the machine set. Experience quality engineers are required for desired quality control. Some helpers are also required to transfer the material from one work station to other. Office staffs are required to maintain the documentation. The approximate manpower required is 9 including 1 Supervisor, 2 Plant operator, 1 unskilled worker, 1 Helper and 1 Security guard. 3 Skilled worker including Accountant, Manager and Sales person.

Bank Term Loan: Rate of Interest is assumed to be at 11\%

Depreciation: Depreciation has been calculated as per the Provisions of Income Tax Act, 1961

## Approvals \& Registration Requirement:

Basic registration required in this project:

- GST Registration
- Udyog Aadhar Registration (Optional)
- Choice of a Brand Name of the product and secure the name with Trademark if require
- NOC from State Pollution Control Board


## Implementation Schedule:

| S No. | Activity | Time required |
| :--- | :--- | :--- |
| 1. | Acquisition of premises | $1-2$ Months |
| 2. | Procurement \& installation of Plant \& Machinery | $1-2$ Months |
| 3. | Arrangement of Finance | $1.5-2$ Months |
| 4. | Requirement of required Manpower | 1 Month |
| 5. | Commercial Trial Runs | 1 Month |
|  | Total time Required (some activities shall run <br> concurrently) | $5-6$ Months |

## FINANCIALS

| PROJECTED CASH FLOW STATEMENT |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | I | II | III | IV | v |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| SOURCES OF FUND |  |  |  |  |  |
|  |  |  |  |  |  |
| Own Contribution | 3.98 | - |  |  |  |
| Reserve \& Surplus | 5.82 | 7.47 | 12.47 | 15.32 | 19.74 |
| Depriciation \& Exp. W/off | 4.70 | 4.01 | 3.41 | 2.91 | 2.48 |
| Increase In Cash Credit | 7.00 |  |  |  |  |
| Increase In Term Loan | 28.80 | - | - | - | - |
| Increase in Creditors | 1.59 | 0.29 | 0.21 | 0.21 | 0.21 |
|  |  |  |  |  |  |
| TOTAL: | 51.89 | 11.76 | 16.09 | 18.44 | 22.43 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| APPLICATION OF FUND |  |  |  |  |  |
|  |  |  |  |  |  |
| Increase in Fixed Assets | 32.00 | - | - | - | - |
| Increase in Stock | 4.40 | 0.77 | 0.74 | 0.78 | 0.81 |
| Increase in Debtors | 5.57 | 1.16 | 1.05 | 1.11 | 1.17 |
| Repayment of Term Loan | 3.20 | 6.40 | 6.40 | 6.40 | 6.40 |
| Taxation | 0.58 | 0.75 | 1.87 | 3.06 | 3.95 |
| Drawings | 2.00 | 2.20 | 4.50 | 6.50 | 9.00 |
| TOTAL: | 47.75 | 11.27 | 14.56 | 17.85 | 21.33 |
|  |  |  |  |  |  |
| Opening Cash \& Bank Balance | - | 4.14 | 4.63 | 6.15 | 6.74 |
|  |  |  |  |  |  |
| Add: Surplus | 4.14 | 0.49 | 1.52 | 0.59 | 1.10 |
|  |  |  |  |  |  |
| Closing Cash \& Bank Balance | 4.14 | 4.63 | 6.15 | 6.74 | 7.84 |



| PROJECTED PROFITABILITY STATEMENT |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| PARTICULARS | I | II | III | IV | v |
| A) SALES |  |  |  |  |  |
| Gross Sale | 111.36 | 134.50 | 155.48 | 177.66 | 201.04 |
| Total (A) | 111.36 | 134.50 | 155.48 | 177.66 | 201.04 |
| B) COST OF SALES |  |  |  |  |  |
| Raw Material Consumed | 68.27 | 80.65 | 89.61 | 98.57 | 107.53 |
| Elecricity Expenses | 2.36 | 2.66 | 2.95 | 3.25 | 3.55 |
| Repair \& Maintenance | 11.14 | 13.45 | 15.55 | 17.77 | 20.10 |
| Labour \& Wages | 9.32 | 11.19 | 13.43 | 16.11 | 19.33 |
| Depreciation | 4.70 | 4.01 | 3.41 | 2.91 | 2.48 |
| Cost of Production | 95.80 | 111.95 | 124.95 | 138.61 | 152.99 |
| Add: Opening Stock/WIP | - | 3.26 | 3.83 | 4.42 | 5.05 |
| Less: Closing Stock /WIP | 3.26 | 3.83 | 4.42 | 5.05 | 5.71 |
| Cost of Sales (B) | 92.53 | 111.39 | 124.35 | 137.98 | 152.33 |
| C) GROSS PROFIT (A-B) | 18.83 | 23.11 | 31.13 | 39.68 | 48.71 |
|  | 16.91\% | 17.18\% | 20.02\% | 22.34\% | 24.23\% |
| D) Bank Interest (Term Loan ) | 3.12 | 2.55 | 1.85 | 1.14 | 0.44 |
| ii) Interest On Working Capital | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
| E) Salary to Staff | 4.66 | 5.59 | 6.71 | 8.06 | 9.67 |
| F) Selling \& Adm Expenses Exp. | 4.45 | 6.73 | 9.33 | 14.39 | 18.09 |
| TOTAL (D+E) | 13.01 | 15.64 | 18.66 | 24.36 | 28.97 |
| H) NET PROFIT | 5.82 | 7.47 | 12.47 | 15.32 | 19.74 |
|  | 5.2\% | 5.6\% | 8.0\% | 8.6\% | 9.8\% |
| I) Taxation | 0.58 | 0.75 | 1.87 | 3.06 | 3.95 |
| J) PROFIT (After Tax) | 5.24 | 6.72 | 10.60 | 12.26 | 15.79 |



COMPUTATION OF RAW MATERIAL

| Item Name | Quantity of Raw Material | Unit | Unit Rate of | Total CostPer <br> Annum (100\%) |
| :---: | :---: | :---: | :---: | :---: |
| Graphite Powder | 170.00 | Tonne | 75,000.00 | 1,27,50,000.00 |
| Crucible Grog | 24.00 | Tonne | 7,000.00 | 1,68,000.00 |
| Silicon Carbide Granules | 24.00 | Tonne | 70,000.00 | 16,80,000.00 |
| Fireclay \& Plastic Clay | 500.00 | Tonne | 3,000.00 | 15,00,000.00 |
| Fireclay Grog | 40.00 | Tonne | 2,500.00 | 1,00,000.00 |
| Coke Dust/Granules | 120.00 | Tonne | 3,500.00 | 4,20,000.00 |
| Other consumables \& Packing material | Lumsum |  |  | 4,50,000.00 |
| Total |  |  |  | 1,70,68,000.00 |
|  |  |  |  |  |
| Total Raw material in Rs lacs |  |  |  | 170.68 |


| Raw Material Consumed | Capacity |  |  |  |  |
| :--- | ---: | ---: | ---: | :--- | :--- |
|  | Amount (Rs.) |  |  |  |  |
|  | Utilisation |  |  |  |  |
| I |  |  |  |  |  |
| II | $40 \%$ |  | 68.27 |  |  |
| III | $45 \%$ | 80.65 | $5 \%$ Increase in Cost |  |  |
| IV | $50 \%$ | 89.61 | $5 \%$ Increase in Cost |  |  |
| V | $55 \%$ |  | 98.57 | $5 \%$ Increase in Cost |  |
|  | $60 \%$ |  | 107.53 | $5 \%$ Increase in Cost |  |


| COMPUTATION OF SALE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Particulars | I | II | III | IV | V |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Op Stock | - | 3,200.00 | 3,600.00 | 4,000.00 | 4,400.00 |
|  |  |  |  |  |  |
| Production | 96,000.00 | 1,08,000.00 | 1,20,000.00 | 1,32,000.00 | 1,44,000.00 |
|  |  |  |  |  |  |
|  | 96,000.00 | 1,11,200.00 | 1,23,600.00 | 1,36,000.00 | 1,48,400.00 |
| Less : Closing Stock(10 Days) | 3,200.00 | 3,600.00 | 4,000.00 | 4,400.00 | 4,800.00 |
|  |  |  |  |  |  |
| Net Sale | 92,800.00 | 1,07,600.00 | 1,19,600.00 | 1,31,600.00 | 1,43,600.00 |
|  |  |  |  |  |  |
| Sale Price per Kg | 120.00 | 125.00 | 130.00 | 135.00 | 140.00 |
|  |  |  |  |  |  |
| Sale (in Lacs) | 111.36 | 134.50 | 155.48 | 177.66 | 201.04 |


| COMPUTATION OF CLOSING STOCK \& WORKING CAPITAL |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PARTICULARS | I | II | III | IV | v |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Finished Goods |  |  |  |  |  |
| (10 Days requirement) | 3.26 | 3.83 | 4.42 | 5.05 | 5.71 |
| Raw Material |  |  |  |  |  |
| (5 Days requirement) | 1.14 | 1.34 | 1.49 | 1.64 | 1.79 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Closing Stock | 4.40 | 5.17 | 5.91 | 6.69 | 7.50 |


| COMPUTATION OF WORKING CAPITAL REQUIREMENT |  |  |  |
| :--- | ---: | :--- | ---: |
|  |  |  |  |
| Particulars | Amount | Margin(10\%) | Net |
|  |  |  | Amount |
| Stock in Hand | 4.40 |  |  |
| Less: |  |  |  |
| Sundry Creditors | 1.59 |  |  |
| Paid Stock | $\mathbf{2 . 8 1}$ | $\mathbf{0 . 2 8}$ | $\mathbf{2 . 5 3}$ |
|  |  |  |  |
| Sundry Debtors | 5.57 |  | 0.56 |
| Working Capital Requirement |  |  | 7.01 |
|  |  |  |  |
| Margin |  |  | 0.84 |
|  |  |  | 7.54 |
| MPBF |  |  | 7.00 |
| Working Capital Demand |  |  |  |


| BREAK UP OF LABOUR |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
|  |  |  |  |  |
| Particulars |  | Wages | No of | Total |
|  |  | Per Month | Employees | Salary |
| Supervisor |  | $20,000.00$ | 1 | $20,000.00$ |
| Plant Operator |  | $15,000.00$ | 2 | $30,000.00$ |
| Unskilled Worker |  | $10,000.00$ | 1 | $10,000.00$ |
| Helper |  | $8,000.00$ | 1 | $8,000.00$ |
| Security Guard |  | $6,000.00$ | 1 | $6,000.00$ |
|  |  |  |  |  |
|  |  |  |  | $74,000.00$ |
| Add: 5\% Fringe Benefit |  |  |  | $3,700.00$ |
| Total Labour Cost Per Month |  |  |  | $77,700.00$ |
| Total Labour Cost for the year (In Rs. Lakhs) |  |  | 9.32 |  |


| BREAK UP OF SALARY |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  |  |  |  |
| Particulars |  | Salary | No of | Total |
|  |  | Per Month | Employees | Salary |
| Manager |  | $15,000.00$ | 1 | $15,000.00$ |
| Accountant cum store keeper |  | $12,000.00$ | 1 | $12,000.00$ |
| Sales |  | $10,000.00$ | 1 | $10,000.00$ |
| Total Salary Per Month |  |  |  | $37,000.00$ |
|  |  |  |  |  |
| Add: 5\% Fringe Benefit |  |  |  | $1,850.00$ |
| Total Salary for the month |  |  |  | $38,850.00$ |
|  |  |  |  |  |
| Total Salary for the year ( In Rs. Lakhs) |  |  |  | 4.66 |


| COMPUTATION OF DEPRECIATION |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  |  |  |  |
| Description | Land |  <br> Machinery | Furniture | TOTAL |
|  |  |  |  |  |
|  |  |  |  |  |
| Rate of Depreciation |  | $\mathbf{1 5 . 0 0} \%$ | $\mathbf{1 0 . 0 0 \%}$ |  |
| Opening Balance | Leased | - | - | - |
| Addition | - | 30.00 | 2.00 | 32.00 |
|  | - | 30.00 | 2.00 | 32.00 |
|  |  | - | - |  |
| TOTAL |  | 30.00 | 2.00 | 32.00 |
| Less : Depreciation | - | 4.50 | 0.20 | 4.70 |
| WDV at end of Ist year | - | 25.50 | 1.80 | 27.30 |
| Additions During The Year | - | - | - | - |
|  | - | 25.50 | 1.80 | 27.30 |
| Less : Depreciation | - | 3.83 | 0.18 | 4.01 |
| WDV at end of IInd Year | - | 21.68 | 1.62 | 23.30 |
| Additions During The Year | - | - | - | - |
|  | - | 21.68 | 1.62 | 23.30 |
| Less : Depreciation | - | 3.25 | 0.16 | 3.41 |
| WDV at end of IIIrd year | - | 18.42 | 1.46 | 19.88 |
| Additions During The Year | - | - | - | - |
|  | - | 18.42 | 1.46 | 19.88 |
| Less : Depreciation | - | 2.76 | 0.15 | 2.91 |
| WDV at end of IV year | - | 15.66 | 1.31 | 16.97 |
|  |  | - |  |  |
| Additions During The Year | - | - | - | - |
|  |  | - | 13.36 | 1.31 |


| REPAYMENT SCHEDULE OF TERM LOAN |  |  |  |  |  | 11.0\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Particulars | Amount | Addition | Total | Interest | Repayment | Cl Balance |
| I | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | - | 28.80 | 28.80 | 0.79 | - | 28.80 |
|  | Iind Quarter | 28.80 | - | 28.80 | 0.79 | - | 28.80 |
|  | IIIrd Quarter | 28.80 | - | 28.80 | 0.79 | 1.60 | 27.20 |
|  | Ivth Quarter | 27.20 | - | 27.20 | 0.75 | 1.60 | 25.60 |
|  |  |  |  |  | 3.12 | 3.20 |  |
| II | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 25.60 | - | 25.60 | 0.70 | 1.60 | 24.00 |
|  | Iind Quarter | 24.00 | - | 24.00 | 0.66 | 1.60 | 22.40 |
|  | IIIrd Quarter | 22.40 | - | 22.40 | 0.62 | 1.60 | 20.80 |
|  | Ivth Quarter | 20.80 |  | 20.80 | 0.57 | 1.60 | 19.20 |
|  |  |  |  |  | 2.55 | 6.40 |  |
| III | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 19.20 | - | 19.20 | 0.53 | 1.60 | 17.60 |
|  | Iind Quarter | 17.60 | - | 17.60 | 0.48 | 1.60 | 16.00 |
|  | IIIrd Quarter | 16.00 | - | 16.00 | 0.44 | 1.60 | 14.40 |
|  | Ivth Quarter | 14.40 |  | 14.40 | 0.40 | 1.60 | 12.80 |
|  |  |  |  |  | 1.85 | 6.40 |  |
| IV | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 12.80 | - | 12.80 | 0.35 | 1.60 | 11.20 |
|  | Iind Quarter | 11.20 | - | 11.20 | 0.31 | 1.60 | 9.60 |
|  | IIIrd Quarter | 9.60 | - | 9.60 | 0.26 | 1.60 | 8.00 |
|  | Ivth Quarter | 8.00 |  | 8.00 | 0.22 | 1.60 | 6.40 |
|  |  |  |  |  | 1.14 | 6.40 |  |
| V | Opening Balance |  |  |  |  |  |  |
|  | Ist Quarter | 6.40 | - | 6.40 | 0.18 | 1.60 | 4.80 |
|  | Iind Quarter | 4.80 | - | 4.80 | 0.13 | 1.60 | 3.20 |
|  | IIIrd Quarter | 3.20 | - | 3.20 | 0.09 | 1.60 | 1.60 |
|  | Ivth Quarter | 1.60 |  | 1.60 | 0.04 | 1.60 | 0.00 |
|  |  |  |  |  | 0.44 | 6.40 |  |


| Door to Door Period | 60 | Months |
| :--- | ---: | :--- |
| Moratorium Period | 6 | Months |
| Repayment Period | 54 | Months |

## CALCULATION OF D.S.C.R

| PARTICULARS | I | II | III | IV | V |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| CASH ACCRUALS | 9.94 | 10.73 | 14.01 | 15.17 | 18.27 |
|  |  |  |  |  |  |
| Interest on Term Loan | 3.12 | 2.55 | 1.85 | 1.14 | 0.44 |
|  |  |  |  |  |  |
| Total | 13.06 | 13.28 | 15.86 | 16.31 | 18.71 |
|  |  |  |  |  |  |
| REPAYMENT |  |  |  |  |  |
| Repayment of Term Loan | 3.20 | 6.40 | 6.40 | 6.40 | 6.40 |
| Interest on Term Loan | 3.12 | 2.55 | 1.85 | 1.14 | 0.44 |
|  |  |  |  |  |  |
| Total | 6.32 | 8.95 | 8.25 | 7.54 | 6.84 |
|  |  |  |  |  |  |
| DEBT SERVICE COVERAGE RATIO | 2.07 | 1.48 | 1.92 | 2.16 | 2.74 |
|  |  |  |  |  |  |
| AVERAGE D.S.C.R. |  |  | 2.04 |  |  |


| COMPUTATION OF ELECTRICITY |  |  |  |
| :---: | :---: | :---: | :---: |
| (A) POWER CONNECTION |  |  |  |
|  |  |  |  |
| Total Working Hour per day | Hours | 8 |  |
| Electric Load Required | HP | 40 |  |
| Load Factor |  | 0.7460 |  |
| Electricity Charges | per unit | 7.50 |  |
| Total Working Days |  | 300 |  |
| Electricity Charges |  |  | 5,37,120.00 |
|  |  |  |  |
| Add : Minimim Charges (@10\%) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| (B) DG set |  |  |  |
| No. of Working Days |  | 300 | days |
| No of Working Hours |  | 0.3 | Hour per day |
| Total no of Hour |  | 90 |  |
| Diesel Consumption per Hour |  | 8 |  |
| Total Consumption of Diesel |  | 720 |  |
| Cost of Diesel |  | 65.00 | Rs. / Ltr |
| Total cost of Diesel |  | 0.47 |  |
| Add : Lube Cost @15\% |  | 0.07 |  |
| Total |  | 0.54 |  |
|  |  |  |  |
| Total cost of Power \& Fuel at 100\% |  |  | 5.91 |
|  |  |  |  |
| Year | Capacity |  | Amount |
|  |  |  | (in Lacs) |
|  |  |  |  |
| I | 40\% |  | 2.36 |
| II | 45\% |  | 2.66 |
| III | 50\% |  | 2.95 |
| IV | 55\% |  | 3.25 |
| V | 60\% |  | 3.55 |

## DISCLAIMER

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