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Submitted to



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PROJECT PROFILE FOR SETTING UP

WIRE NAIL MANUFACTURING UNIT

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APPENDIX - SIZE AND USES OF NAIL

ANNEXURE - FINANCIAL WORKINGS

1. PROJECT BRIEF

This report relates to a study on the feasibility of setting up a Wire Nail Manufacturing Unit in Sultanate of Oman. The following is the Brief illustration of the project:

| Name of Product | | Wire Nails | | |
|---------------------------------|-----------------------|-----------------------|--|--|
| Domestic Market Po | etential (as of 2021) | 2,700 Tons per Annum | | |
| Export Potential in t | arget markets | 36,365 Tons per Annum | | |
| Export Target Mark | ets | GCC Countries | | |
| Capacity of the Proje | ect | 1200 tons per Annum | | |
| Total Investment | | RO 154,000 | | |
| Equity Investment | | RO 61,600 | | |
| Key Appraisal Crite | eria: | | | |
| IRR on total investm | nent | 22.57% | | |
| IRR on Equity | | 35.73% | | |
| Payback period of T | otal Investment | 5 years 1 month | | |
| Payback period on e | equity | 3 Years 11 month | | |
| Break Even Point (as | s % of Capacity) | 46% | | |
| Cash Break Even Po Capacity) | int (as % of | 42.7% | | |
| Debt Equity Ratio | | 1.5:1 | | |
| DSCR | | 3.83 | | |
| Mannower | Total | 15 | | |
| Manpower | Nationals | 6 | | |

2. GENERAL INDUSTRY ANALYSIS

2.1. OVERVIEW OF CONSTRUCTION SECTOR IN OMAN

The following table illustrates the trend in the growth of the construction sector GDP during 2010 to 2020.

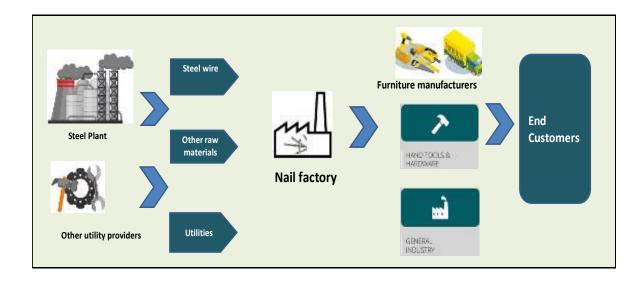
| Details | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GDP (RO million) | 21,935 | 26,152 | 29,458 | 30,292 | 31,174 | 26,500 | 25,354 | 27,216 | 35,184 | 33,859 | 28,442 |
| Construction GDP (RO Million) | 1,314 | 1,390 | 1,747 | 1,803 | 1,904 | 2,067 | 2,285 | 2,080 | 3,258 | 3,202 | 2,623 |
| Growth Rate (%) | 6% | 6% | 26% | 3% | 6% | 9% | 11% | -9% | 57% | -2% | -18% |
| Construction / Total GDP (%) | 6% | 5% | 6% | 6% | 6% | 8% | 9% | 8% | 9% | 9% | 9% |

Source: NCSI Statistical Year Book 2021

- The construction sector contribution to the GDP has consistently grown till 2018. However, with limited new projects being executed it has witnessed a slide during 2019 and 2020.
- The Construction sector GDP was around 2,623 million in 2020 which is about 9% of the total GDP of Oman.

2.2. VALUE-CHAIN OF NAIL PRODUCTS

The following chart illustrates the overall value chain of Wire Nail Unit:



2.3. VALUE CHAIN IN OMAN

2.3.1. Upstream Value Chain activities

The raw material for nails IS Steel Wires. Following are some of the upstream Iron steel players in the Sultanate:

- Jindal Shadeed Iron & Steel LLC. (JSIS) located in Sohar, operates a 1.8 MTPA Direct Reduced Iron (DRI) Plant which was established in 2010. The company established a Steel Making Shop in 2014 having a capacity of 2.4 MTPA. Jindal Shadeed also operates a 1.4 MTPA Rebar Rolling Mill which was established in 2016.
- Sohar Steel LLC located in Sohar Industrial Port is capable of producing 600,000 MT of Steel Billets and 500,000 MT of Re-bars annually.

2.3.2. Downstream Value Chain activities

The products find application in all the construction related activities, furniture manufacturing, carpentry etc. Comprehensive use of different sizes of nails are detailed in the Appendix attached along with this report.

2.4. ENABLERS IN VALUE CHAIN IN OMAN

World class infrastructure and required utilities are provided by Madayn for establishing industrial units in Oman.

2.5. HURDLES IN VALUE CHAIN IN OMAN

- High labor cost
- Comparatively lower local demand but can be addressed if the proposed project targets export markets.

2.6. SWOT ANALYSIS

| SWOT ANALYSIS | | | | | | | |
|---|--------------------------|--|--|--|--|--|--|
| Strengths | Weaknesses | | | | | | |
| Low-technology manufacturing which can be effectively adopted by a Small Industry Cheaper Land Rentals / Utilities | Rising input costs | | | | | | |
| Opportunity | Threats | | | | | | |
| Product Acceptance | Fluctuations in demand | | | | | | |
| Demand from Infrastructure projects & | Competition from cheaper | | | | | | |
| Buildings | imports | | | | | | |
| Potential for exports | | | | | | | |

3. MARKET ANALYSIS

3.1. PRODUCT USES & APPLICATIONS

Steel nails are primarily used in the Construction sector mainly in carpentry and in associated wood works. Generally nails have a sharp point on one end and a flattened head on the other. Nails are made in a variety of forms for specialized purposes. The most common is the wire nail. Other types of nails include pins, tacks, brads, and spikes. Nails are typically driven into the work piece by a hammer, a pneumatic nail gun, or a small explosive charge or primer. A nail holds materials together by friction in the axial direction and shear strength laterally. The point of the nail is also sometimes bent over or clinched after driving to prevent pulling out.

The parts of the nail are the head, shank or shaft, point, and the gripper marks – slight grooves incised into the shank near the head of most varieties of nails.

The nail functions by displacing wood fibers when it is pounded into the work piece, and the pressure exerted against the shaft by the displaced wood provides the holding power.

Different types of nails are:

- **Common Nail:** Used for rough construction work, the common nail can be purchased in lengths varying from one to six inches.
- **Box Nail:** These look like common nails, but are thinner. Box nails are generally available in lengths from one inch to three and a half inches.
- **Finishing Nail:** Finishing nails are used for finish work. Finishing nails are generally available in lengths ranging from one to four inches.
- Casing Nail: A near relation of the finishing nail, the casing nail is slightly larger and has increased holding power. It is most often used for attaching moldings such as window and door casings where added strength is required.

- Brad: Are essentially diminutive finishing nails, proportionately smaller in diameter and length (one inch or less). They are used in making frames, attaching plywood paneling, and in cabinetwork.
- Roofing Nail: Roofing nails have disproportionately large, round heads and heavier shafts for their length. They are designed to hold roofing materials in place, in particular composition and asphalt-based materials.
- Masonry Nail: Several types of masonry nails are sold; all are designed to be driven into brick or concrete walls. These hard nails may be rectangular in section or have fluted shafts, but all are hardened to resist bending and breaking as they are driven into almost rock-hard materials.
- Cut Flooring Nail: These nails are large, strong, and are often used in a nailing machine.
- Spiral Flooring Nail: Spiral flooring nails feature a spiraled shaft and were traditionally used for nailing subfloors. Nail guns and the specially designed nails used in them have superseded these nails in much construction work today.
- Annular Ring Nail: Often sold in galvanized steel, annular ring nails are commonly used as siding nails, to hold clapboards or shingles in place, or for underlayment or paneling. They are thin, lined with rings for added holding power, and resistant to rust.
- **Duplex Nail:** This is a variation of the common nail. Featuring a second head formed a short distance down the shaft from the end of the nail, the duplex nail is used for temporary construction (like scaffolding and staging) because it can be driven snug, yet be easily removed.
- Other Nails: Drywall nails, which feature rings on their shafts, are sold for hanging wallboard; their heads are traditionally driven slightly below the surface of the plaster panel (the hammer stroke creates a dimple that is then filled in with joint compound or plaster). Cement-coated nails are roughly the size and weight of box nails, but are coated with a resin for added holding power. They're used to nail outside sheathing.

3.2. GLOBAL MARKET OUTLOOK

Steel Wire Nails is internationally classified under HS code:

731700 - Nails, tacks, drawing pins, corrugated nails, staples and similar articles of iron or steel, whether or not with heads of other material (excluding such articles with heads of copper and staples in strips)

3.2.1 Major Global Exporters

The table below details the major exporting countries of wire nail in both quantity and value for the last 5 years.

| Rank | Exporting countries | Value/ Quantity | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------|---------------------|--------------------|-----------|-----------|-----------|-----------|-----------|
| 1 | China | USD('000) | 1,195,931 | 1,545,201 | 1,509,522 | 1,619,097 | 1,996,790 |
| | China | Ton | 994,237 | 1,091,584 | 975,489 | 993,687 | 1,121,921 |
| | | USD/Ton | 1203 | 1416 | 1547 | 1629 | 1780 |
| | | USD('000) | 43,908 | 57,362 | 64,502 | 64,638 | 102,558 |
| 2 | Turkey | Ton | 49,201 | 56,703 | 71,246 | 77,711 | 90,509 |
| | | USD/Ton | 892 | 1012 | 905 | 832 | 1133 |
| | | USD('000) | 67,378 | 116,407 | 105,073 | 96,955 | 136,923 |
| 3 | Oman | Ton | 48,872 | 78,914 | 70,851 | 68,048 | 84,093 |
| | | USD/Ton | 1379 | 1475 | 1483 | 1425 | 1628 |
| | | USD('000) | 71,687 | 90,247 | 82,249 | 93,702 | 129,200 |
| 4 | Poland | Ton | 67,558 | 69,327 | 61,530 | 69,789 | 82,344 |
| | | USD/Ton | 1061 | 1302 | 1337 | 1343 | 1569 |
| | Thailand | USD('000) | 32,469 | 52,114 | 57,531 | 63,551 | 88,135 |
| 5 | | Ton | 29,339 | 42,144 | 47,169 | 54,408 | 66,590 |
| | | USD/Ton | 1107 | 1237 | 1220 | 1168 | 1324 |
| | Taipei, Chinese | USD('000) | 124,047 | 118,974 | 100,393 | 85,398 | 106,712 |
| 6 | | Ton | 92,526 | 78,095 | 60,765 | 51,440 | 58,710 |
| | | USD/Ton | 1341 | 1523 | 1652 | 1660 | 1818 |
| | | USD('000) | 45,478 | 67,558 | 50,895 | 38,044 | 63,660 |
| 7 | Malaysia | Ton | 56,585 | 65,372 | 51,691 | 38,613 | 54,357 |
| | | USD/Ton | 804 | 1033 | 985 | 985 | 1171 |
| | | USD('000) | 28,390 | 38,224 | 38,738 | 44,231 | 58,047 |
| 8 | Mexico | Ton | 31,116 | 35,815 | 15,379 | 19,091 | 52,062 |
| | | USD/Ton | 912 | 1067 | 2519 | 2317 | 1115 |
| | | USD('000) | 29,641 | 38,925 | 36,519 | 35,532 | 72,752 |
| 9 | Lithuania | Ton | 34,768 | 38,219 | 37,360 | 38,689 | 51,130 |
| Communities | | USD/Ton | 853 | 1018 | 977 | 918 | 1423 |

Source: UN Com Trade Data

3.2.2 Major Global Importers

The table below details the major importing countries of wire nail in both quantity and value for the last 5 years.

| Rank | Importing countries | Value/ Quantity | 2017 | 2018 | 2019 | 2020 | 2021 |
|------|---------------------|--------------------|---------|-----------|---------|---------|-----------|
| | | USD('000) | 819,557 | 1,052,908 | 917,509 | 884,940 | 1,296,734 |
| 1 | USA | Ton | 664,706 | 727,160 | 637,875 | 687,808 | 827,042 |
| | | USD/Ton | 1233 | 1448 | 1438 | 1287 | 1568 |
| | | USD('000) | 107,145 | 133,363 | 114,843 | 112,765 | 161,320 |
| 2 | Canada | Ton | 85,853 | 99,479 | 85,894 | 88,909 | 108,883 |
| | | USD/Ton | 1248 | 1341 | 1337 | 1268 | 1482 |
| | | USD('000) | 101,703 | 117,922 | 115,108 | 102,480 | 123,263 |
| 3 | Japan | Ton | 80,856 | 81,299 | 81,099 | 74,736 | 76,491 |
| | | USD/Ton | 1258 | 1450 | 1419 | 1371 | 1611 |
| | | USD('000) | 113,589 | 125,662 | 120,167 | 116,699 | 153,028 |
| 4 | Germany | Ton | 67,800 | 68,194 | 64,626 | 61,596 | 68,446 |
| | | USD/Ton | 1675 | 1843 | 1859 | 1895 | 2236 |
| | United Kingdom | USD('000) | 85,500 | 99,596 | 88,436 | 75,811 | 122,683 |
| 5 | | Ton | 47,124 | 48,420 | 43,213 | | 51,177 |
| | | USD/Ton | 1814 | 2057 | 2047 | | 2397 |
| | Korea, Republic of | USD('000) | 56,743 | 57,849 | 47,121 | 40,848 | 56,323 |
| 6 | | Ton | 54,877 | 49,971 | 43,621 | 40,819 | 44,996 |
| | | USD/Ton | 1034 | 1158 | 1080 | 1001 | 1252 |
| | | USD('000) | 71,829 | 80,159 | 81,848 | 76,139 | 108,800 |
| 7 | France | Ton | 34,477 | 33,461 | 35,002 | 32,835 | 42,784 |
| | | USD/Ton | 2083 | 2396 | 2338 | 2319 | 2543 |
| | | USD('000) | 61,770 | 79,381 | 71,973 | 74,553 | 91,126 |
| 8 | Netherlands | Ton | 22,290 | 33,476 | 31,158 | 37,580 | 40,820 |
| | | USD/Ton | 2771 | 2371 | 2310 | 1984 | 2232 |
| | | USD('000) | 13,719 | 16,051 | 15,789 | 11,815 | 52,770 |
| 9 | Chile | Ton | 12,685 | 12,978 | 13,583 | 10,672 | 36,868 |
| | Com Trade Data | USD/Ton | 1082 | 1237 | 1162 | 1107 | 1431 |

Source: UN Com Trade Data

3.3. ESTIMATE OF DOMESTIC DEMAND

3.3.1. Local Production

Nail Manufacturing units are present in Oman. Major manufacturers mainly cater to the export market targeting USA and UAE. These nails confirms to the US and British standards and are exported at a premium. The other local requirements are met through imports. The major players in Oman market is as detailed below.

- Muscat Industrial Company LLC (Brand "Oman Nails")
- Oman Fasteners
- Muscat Nails

3.3.2. Foreign Trade

Wire nail is categorized under the following HS Code:

HS 73170010 - Nails, carpentry nails, of iron or steel, whether or not with heads of other material, but excluding such articles with heads of copper.

3.3.2.1. Imports Quantity and Value - 2017 to 2021

The table below details the imports of wire nail into Oman under the above mentioned HS Code.

| Imported by HS code | Units | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------------|------------------|-----------|-----------|---------|---------|---------|
| | Value in RO | 1,615,714 | 1,583,370 | 881,812 | 746,787 | 624,875 |
| 73170010 | Quantity in Tons | 5,058 | 4,165 | 2,836 | 2,123 | 1,374 |
| | Value in RO/Ton | 319 | 380 | 311 | 352 | 455 |

Source: ROP Statistics 2021

3.3.2.2.Import Sources - 2021

The following table illustrates the source of imports for the year 2021.

| Import Source | Value (RO) | Quantity (Kg) | RO/Ton | % of Total |
|---------------|------------|---------------|--------|--------------|
| China | 282,939 | 758,962 | 373 | 55% |
| UAE | 331,339 | 604,350 | 548 | 44% |
| India | 7,597 | 5,424 | 1,401 | |
| Qatar | 1,301 | 4,034 | 323 | |
| Saudi Arabia | 150 | 340 | 441 | |
| Canada | 19 | 308 | 62 | |
| United States | 1,106 | 50 | 22,120 | 11% |
| Hong Kong | 39 | 30 | 1,300 | less than 1% |
| Egypt | 327 | 6 | 54,500 | less |
| France | 46 | 5 | 9,200 | |
| Japan | 7 | 3 | 2,333 | |
| Germany | 3 | 1 | 3,000 | |
| Malaysia | 2 | - | | |
| Total | 624,875 | 1,373,513 | 455 | |

Source: ROP Statistics 2021

As it can be seen from the above tables the total imports of wire nails into Oman for the year 2021 was 1,374 tons. Major imports are from China and UAE which comprises of about 99% of the total imports into Oman

3.3.2.3.Exports - 2017 to 2021

The table below details the imports of Wire Nails into Oman under the following HS Codes with quantities, values and country of origin.

| Exported by HS code | Units | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------------|------------------|---------|---------|---------|---------|-----------|
| | Value in RO | 519,083 | 595,194 | 378,963 | 244,240 | 1,975,498 |
| 73170010 | Quantity in Tons | 1,350 | 1,427 | 952 | 647 | 2,890 |
| | Value in RO/Ton | 385 | 417 | 398 | 377 | 684 |

Source: ROP Statistics 2021

3.3.2.4.Export Destinations - 2021

The following table illustrates the export destinations for the year 2021.

| Export Destination | Value (RO) | Quantity (Kg) | RO/Ton | % of Total |
|---------------------------|------------|------------------|----------|-------------|
| USA | 1,603,448 | 2,017,011 | 794.96 | 70% |
| UAE | 257,312 | 583,961 | 440.63 | 20% |
| Kuwait | 36,560 | 98,070 | 372.79 | 3% |
| Qatar | 30,997 | 95,787 | 323.60 | 3% |
| Bahrain | 33,431 | 76,100 | 439.30 | 3% |
| Saudi Arabia | 5,031 | 8,159 | 616.62 | an |
| Denmark | 3,185 | 6,300 | 505.56 | ess than 1% |
| Japan | 5,534 | 4,671 | 1,184.76 | Le |
| Total | 1,975,498 | 2,890,059 | 683.55 | |

Source: ROP Statistics 2021

As it can be seen Oman has exported about 2,890 tons of wire nails in the year 2021. Majority of exports are to the US comprising about 70% of the total exports from the country and UAE comprising about 30% of the total exports from the country. The other countries of exports are Kuwait, Qatar and Bahrain in total comprising of about 9% of the total export. Based on the above figures we can understand that 30% of the total exports are to the GCC countries.

3.3.2.5.Re-exports from Oman - 2017 to 2021

| Re Exported by HS code | Units | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------------|------------------|--------|---------|---------|---------|---------|
| | Value in RO | 90,430 | 210,136 | 188,239 | 235,409 | 204,782 |
| 73170010 | Quantity in Tons | 262 | 663 | 703 | 829 | 588 |
| | Value in RO/Ton | 345 | 317 | 268 | 284 | 348 |

Source: ROP Statistics 2021

3.3.3. Estimated Demand/Consumption

The following rationale has been used to estimate the demand for wire nails in Oman:

- The net exports has been arrived at based on the Imports / Exports and Re-exports data provided by ROP customs.
- The local production data is not available. However, discussions with the local manufacturers indicate that about 60% of the production gets exported. The domestic production has been extrapolated based on this ratio.
- The domestic demand for wire nails has been estimated based on the above data i.e., Domestic Production + Imports - Exports - Re-exports.

The following table illustrates the overall demand for binding wires estimated based on the above rationale.

| | Figures in Tons | | | | |
|---|-----------------|-------|-------|-------|-------|
| Year | 2017 | 2018 | 2019 | 2020 | 2021 |
| Estimated Local Production | 2,250 | 2,379 | 1,586 | 1,078 | 4,817 |
| Imports | 5,058 | 4,165 | 2,836 | 2,123 | 1,374 |
| Exports | 1,350 | 1,427 | 952 | 647 | 2,890 |
| Re-exports | 262 | 663 | 703 | 829 | 588 |
| Estimated Consumption (Local Production* + Imports - Exports - Re-exports | 5,697 | 4,453 | 2,767 | 1,725 | 2,712 |

The total domestic demand for the wire nails in 2021 is estimated to be around 2,712 tons.

3.4. DEMAND PROJECTION

With improved oil prices, the market is expected to grow in the coming years. Following table illustrates the projected demand for wire nails considering a conservative growth rate of 3%.

| Year | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Demand (Tons) | 2,712 | | | | | | |
| Projected Growth rate | % | 3% | 3% | 3% | 3% | 3% | 3% |
| Projected Demand (Tons) | | 2,793 | 2,877 | 2,963 | 3,052 | 3,144 | 3,238 |

3.5. EXPORT POTENTIAL TO GCC COUNTRIES

The import of wire nails by the various GCC countries has been considered as the export potential for a manufacturing unit in Oman. The table below details the imports of wire nails by GCC countries for the last 5 years.

| Imported by | Units | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------------|-------------------------|--------|--------|--------|--------|--------|
| | Value in USD '000 | 23,565 | 28,530 | 23,321 | 17,158 | 28,626 |
| UAE | Quantity in Tons | 28,843 | 26,848 | 24,663 | 18,153 | 20,918 |
| | USD/Ton | 817 | 1,063 | 946 | 945 | 1,368 |
| Saudi | Value in USD '000 | 10,776 | 11,584 | 13,783 | 14,980 | 14,692 |
| Arabia | Quantity in Tons | 9,340 | 8,566 | 12,358 | 13,819 | 6,452 |
| Alabia | USD/Ton | 1,154 | 1,352 | 1,115 | 1,084 | 2,277 |
| | Value in USD '000 | 5,340 | 6,296 | 6,734 | 3,605 | 6,527 |
| Kuwait | Quantity in Tons | 4,400 | 5,590 | 5,295 | 2,384 | 4,859 |
| | USD/Ton | 1,214 | 1,126 | 1,272 | 1,512 | 1,343 |
| | Value in USD '000 | 6,316 | 7,653 | 4,038 | 4,611 | 6,682 |
| Qatar | Quantity in Tons | 7,083 | 7,621 | 4,380 | 5,165 | 3,081 |
| | USD/Ton | 892 | 1,004 | 922 | 893 | 2,169 |
| | Value in USD '000 | 2,366 | 2,613 | 1,709 | 2,303 | 2,266 |
| Bahrain | Quantity in Tons | 2,680 | 2,433 | 1,692 | 2,367 | 1,055 |
| | USD/Ton | 883 | 1,074 | 1,010 | 973 | 2,148 |
| Total | Value in USD '000 | 48,363 | 56,676 | 49,585 | 42,657 | 58,793 |
| Imports | Quantity in Tons | 52,346 | 51,058 | 48,388 | 41,888 | 36,365 |
| (Excluding Oman) | USD/Ton | 924 | 1,110 | 1,025 | 1,018 | 1,617 |

Source: UNCOM Trade Data

The total import into GCC countries excluding Oman for the year 2021 was around 36,365 tons

3.6. EXPORT POTENTIAL TO THE US

The major exporters of wire nails into US are detailed in the table below. The data has been collated based on the UN Trade Map Data for HS Code 731700 - Nails, tacks, drawing pins, corrugated Nails, staples and similar articles of iron and steel.

| US Major Exporters | Unit | 2017 | 2018 | 2019 | 2020 | 2021 | % of Total |
|-----------------------|-----------|---------|-----------|---------|---------|----------------|---------------|
| - | USD('000) | 274,817 | 356,816 | 237,664 | 232,529 | 368,321 | |
| China | Ton | 229,865 | 256,551 | 183,689 | 213,370 | 262,356 | 32% |
| | USD/Ton | 1196 | 1391 | 1294 | 1090 | 1404 | |
| | USD('000) | 55,971 | 97,192 | 98,308 | 92,715 | 131,895 | |
| Oman | Ton | 42,816 | 61,838 | 66,396 | 65,425 | 82,163 | 10% |
| | USD/Ton | 1307 | 1572 | 1481 | 1417 | 1605 | |
| | USD('000) | 32,708 | 40,248 | 50,291 | 48,041 | 70,698 | |
| Turkey | Ton | 32,086 | 33,101 | 44,417 | 48,278 | 55,436 | 7% |
| | USD/Ton | 1019 | 1216 | 1132 | 995 | 1275 | |
| | USD('000) | 23,687 | 41,928 | 47,869 | 57,778 | 81,016 | 6% |
| Thailand | Ton | 19,795 | 31,445 | 36,319 | 44,284 | 52,273 | |
| | USD/Ton | 1197 | 1333 | 1318 | 1305 | 1550 | |
| | USD('000) | 24,295 | 33,161 | 33,649 | 38,538 | <i>57,</i> 155 | |
| Mexico | Ton | 26,076 | 30,492 | 27,711 | 36,152 | 47,303 | 6 % |
| | USD/Ton | 932 | 1088 | 1214 | 1066 | 1208 | |
| | USD('000) | 819,557 | 1,052,908 | 917,509 | 884,940 | 1,296,734 | |
| Total | Ton | 664,706 | 727,160 | 637,875 | 687,808 | 827,042 | |
| C INICO | USD/Ton | 1233 | 1448 | 1438 | 1287 | 1568 | |

Source: UNCOM Trade Data

As it can be seen Oman is number two in the top exporters of Wire Nails to the US. Also as reflected in section 2.3.2.4, the major exports of wire nails from Oman are to the US. Considering the same, there is a potential to export to the US.

3.7. COMPETITION ANALYSIS

As detailed in the earlier sections, there are wire nails units in Oman catering mainly to special category markets in the US and UK. The competition for the proposed project shall be from the Imports mainly from UAE and China.

3.7.1. Local Manufacturers

The major players in Oman market is as detailed below.

| S. No | Name of the Company |
|-------|--|
| 1 | Muscat Industrial Company LLC (Brand - "Oman Nails") |
| 2 | Muscat Nails Factory |
| 3 | Oman Fasteners |

- Muscat Industrial Company LLC (MIC) has been established since the year 1986. The Company has emerged as the leading manufacturer and supplier of premium quality construction wire nails under the brand "Oman Nails". The manufacturing facility is located at the Rusayl Industrial Estate in Muscat, Sultanate of Oman.
- Muscat Nails Factory is a leading manufacturer of common nails as well as other nail products in Oman. Since its foundation in 2014, the factory is engaged in the production and export of various steel nails for different uses. Main export market presently centers on Asia and GCC countries.
- Oman Fasteners LLC manufactures quality engineered steel nails. Their product range includes every collation type and is complemented by complete array of finish types including Bright, Electro-Galvanized, Hot Dip Galvanized, Vinyl Coated, and stainless Steel.

3.8. MARKETING MIX STRATEGY OF COMPETITORS

3.8.1. Product

The wires nails are of different sizes from 3/4" to 4" nails and respective steel wires are used for making nails. Oman nails are available in a variety of sizes, gauges and packing sizes.

The following are the products manufactured by the companies in Oman

| Name of Company | Product Types | Product Sizes |
|----------------------------------|--------------------------------|---|
| Muscat Industrial Company LLC | Wire Nails | 1", 1.5", 2", 2.5", 3", 4", 5", 6" |
| Muscat Nails | Wire Nails | 1.5" to 4 " |
| | Plastic Strip Nails | 1 1/2", 2", 2 1/2", 3", 3 1/2" |
| | Wire Collated Nails | 1 1/4", 1 3/4", 2 1/4", 2 3/4", 3 1/4" |
| Oman Fasteners | Paper Tape Nails | 2", 21/2", 3", 31/2" |
| | Joist Hanger/Hardware Nails | 11/2",21/2" |
| | Plastic Sheet Nails | 1 3/4 ", 2", 2 1/4", 2 1/2" |

Packaging is as per customer requirements. The common packaging sizes are detailed in the table below.

| Packaging Sizes | Weight of Carton | Inner Packing |
|---------------------------------|---------------------------|----------------------------------|
| Outer Carton with inner packets | 4 Kgs 5 Kgs 40 Lbs | Each carton has 16 inner packets |
| Bulk Packing | 5 Kgs 20 Kgs 25 Kgs | Bulk Nails without inner packet |

3.8.2. Pricing

Based on the brief primary survey and on secondary research, the wire nails are sold in the range of RO 540 - 600

3.8.3. Promotion

Competitive pricing is the key to promoting the product.

3.8.4. Trade Credit

The industry practice is to offer a reasonable credit period depending on the credit worthiness of the client (adopted by the traders importing mainly from UAE and China). Often discounts of 5 – 10 percent are also given to the clients.

3.8.5. Distribution

The distribution process is through direct sales to contractors in the construction industry and to traders seeking the product.

3.9. Proposed Marketing Mix Strategy For The Company

3.9.1. Product Mix

Unlike the local players, the project being categorized as an SME unit, shall focus on Wire Nails to requisite sizes based on customer requirements and specifications. The Unit will manufacture nails of length $\frac{1}{2}$ "– 3".

The wire nails technical specifications are as detailed below:

- Wire Diameter S.W.G (mm): 14 10 / (2.0 3.2)
- Nail Length Inch (mm): ½" 3" (12 mm 75 mm)

3.9.2. Target Market

The local market is relatively small and the unit has to focus on exports to GCC as well as the US market. The free trade agreement with USA shall be a major advantage for the project to compete in the US market.

3.9.3. Pricing

Based on the assessment of the past trend and the current steel prices, the following pricing has been considered for the financial projections.

| | Selling Price (RO/Ton) | | |
|------------|------------------------|----------------------|--|
| Product | Local Market | Export Market | |
| Wire Nails | 550 | 580 | |

3.9.4. Promotion

The company shall concentrate on building healthy personal contacts with various segments mainly in construction industry.

The plant manager shall be responsible for sales as well. The manager shall build and retain long term relationships with customer segments

3.9.5. Trade Credit

The company could also offer its customers a credit period of 90 days as per the industry norms.

3.9.6. Distribution

The company would concentrate on direct marketing to the contractors and traders in Oman. It will appoint wholesale distributors in other GCC markets.

3.10. PROJECTED MARKET SHARE

The unit with a production capacity of 1200 MT per day can effectively leverage its capability to service the target market.

| DETAILS | 2024 | 2025 | 2026 | 2027 | 2028 |
|---|--------|-----------|-------------|----------|----------|
| | | Capacity | y and Pro | duction | |
| Production Capacity (tons) | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Projected Capacity utilization (%) | 40% | 50% | 60% | 70% | 70% |
| Projected Production (Tons) | 480 | 600 | 720 | 840 | 840 |
| | Domes | tic Marke | t - Sales a | nd Marke | et share |
| Estimated Domestic sales (Tons) | 144 | 180 | 216 | 252 | 252 |
| Total Local demand (Tons) | 2,963 | 3,052 | 3,144 | 3,238 | 3,335 |
| Estimated Domestic market share (%) | 5% | 6% | 7% | 8% | 8% |
| | GCC | Market - | - Sales an | d Market | share |
| Sales in GCC markets | 336 | 420 | 504 | 588 | 588 |
| Total imports by GCC countries (excluding Oman) (mainly GCC) (Tons) | 39,737 | 40,929 | 42,157 | 43,422 | 44,724 |
| Projected share of imports (%) | 0.8% | 1.0% | 1.2% | 1.4% | 1.3% |

4. TECHNICAL ANALYSIS

4.1. LOCATION

The proposed project can be located either at Sohar Industrial City or at the proposed Shinas Industrial City. The referred locations are taking proximity to raw material and the target market into consideration.

4.2. MANUFACTURING PROCESS

Typical Nail manufacturing process is provided in the figure below.

Wire Drawing Machine Material(low carbon steel wire) Wire Drawing Wire Drawing Nails Nails Washing Machine Products Polish

Process Flow Chart

The nail manufacturing process comprises of wire drawing, molding and polishing.

Wire Drawing: Cold drawn, bright wire is used to make nails, and this wire is available in various gauges (20 S.W.G. to 65 W.G.). This metal working process helps reduce cross section of a wire.

Nail Making Machine: The wires are found in round bundles, one end of the wire is fixed in tool stand and then the other is put in wire straightening rollers and the wire automatically reaches the machine.

To pull the wire further ahead, there is a grip after the rollers and this grip pulls only as much wire as is needed for the specific of the nail. The head of the nail is put into the mould's "rem", that can be pushed back & front through the crank shot. The front end of the wire is hit hard by the punch attached to the head-making mould. To make the other end and then cutting of the nail is done automatically. Here the moulds press the wire and nail gets bifurcated & cut from the wire. In this way, some part of the nail is still attached to the wire and an automatic trigger separates the nail from the wire. Nail Polishing: When the nails come out of the machine, then the tiny bits of iron & grease/lubricant deposited on the nails are re-moulded by putting them into a polishing drum in which iron balls and dust are also put and after the polish, they are sent for packaging.

4.3. LAND & BUILDING

The company will rent an industrial shed with a building area of 1,300 Sq. m Details are in Annexure 1.1 and 1.2.

4.4. MACHINERY

The major machinery required for the project is the automated nail making machine. Major suppliers are available in India and China.

| S.No. | Item |
|-------|---|
| 1 | Straight Line Wire Drawing Machine |
| 2 | Automatic Wire Nail making Machine - (2 machines) |
| 3 | Nail polishing machine |
| 4 | Nail cutter grinder |
| 5 | Other Associated Machineries |

The details of the main and auxiliary machineries required for the project is as detailed in Annexure 1.3.

4.4.1. Machinery Suppliers

The following table illustrates the list of machinery manufacturers of wire drawing machines

| No. | Detail |
|-----|---|
| 1 | HEBEI RONGKUAI Machinery Manufacturing Co Ltd |
| | Luzhauang Industrial Zone, Anping County, Hebei Province, China |
| | www.jiakemeshmachine.com |
| 2 | Super Nail Machine |
| | Aji Industrial Area, On 80 Feet Main Road, |
| | Near Ambedkar Nagar Gate, Rajkot - 360003 |
| | www.supernailmachine.com |

4.5. PLANT CAPACITY

The annual production capacity is estimated at 1,200 tons per annum for 20 hours operation. The details of capacity and the capacity utilization for various years are given in the table below:

| Details | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|--|--------|--------|--------|--------|--------|
| Installed capacity (Tons) | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Capacity utilization | 40% | 50% | 60% | 70% | 70% |
| Actual Production considered for financial Projection (Tons) | 480 | 600 | 720 | 840 | 840 |

4.6. VEHICLES

The vehicles are required for movement of raw materials and internal material movement. Details of Vehicles are provided in Annexure 1.4.

4.7. RAW MATERIALS AND CONSUMABLES

Raw materials include Steel Rods of requisite diameter apart from other required consumables. Details are in Annexure 2.1.

4.8. UTILITIES

4.8.1. Water

Water is required for mainly human consumption. It is estimated that 1,500 M³ of water is required per annum.

4.8.2. Electricity

Electricity is used for machine operations and for general purpose lighting. The annual consumption of electricity is 745,425 KWH at 100% capacity utilization.

4.9. MANPOWER

The total manpower required in the normal year is 15. In the initial years when the capacity utilization is low, the production manpower is reduced.

4.10. PROJECT IMPLEMENTATION

The total expected time duration for implementation shall be around 12 months.

5. FINANCIAL ANALYSIS

5.1. Project Cost

The total cost of the project is estimated at RO 154,000. Details are given in Annexure – 1. The break-up is given below:

| Details | Amount (RO) |
|---------------------------------|-------------|
| Plant & Machinery | 60,000 |
| Vehicles and Internal Transport | 11,000 |
| Furniture & Office Equipment | 5,000 |
| Pre- Operative Expenses | 16,000 |
| Contingency & Escalation | 5,000 |
| Sub Total | 97,000 |
| Working Capital | 57,000 |
| TOTAL CAPITAL | 154,000 |

5.1.1. Land & Building

The total extent of industrial shed area will be around 1,300 SQM which will be taken on lease. Details are provided in Annexure 1.1 and 1.2.

5.1.2. Plant & Machinery

The total cost of plant and machinery is estimated at RO 60,000. Details are given in Annexure- 1.3.

5.1.3. Vehicles & Internal Transport

The total cost of vehicles and internal transport is estimated at RO 11,000. Details are given in Annexure- 1.4.

5.1.4. Furniture & Office Equipment

The total cost of furniture and office equipment is estimated at RO 5,000. Details are given in Annexure- 1.5.

5.1.5. Pre-Operative Expenses

The pre-operative expenses include expenses for feasibility study, interest during project implementation, salaries and wages of project staff, travel and communication, legal fees, audit fees and other miscellaneous expenses. The total pre-operative expenses are estimated at R.O 16,000. Details are given in Annexure- 1.6.

5.1.6. Contingency & Escalation

A provision of 5 % of the estimated cost of items including building, plant & machinery, vehicles etc., is provided in the Project cost towards price escalation and any unforeseen expenses. This works out to RO 5,000. Details are given in Annexure- 1.7

5.1.7. Working Capital

Following assumptions are made for computation of working capital.

| Details | Period |
|-------------------------|----------|
| Accounts Receivable | 2 Months |
| Raw Materials | 1 Month |
| Consumables & packing | 1 Month |
| Utilities | 1 Month |
| Factory Wages | 1 Month |
| Administration Expenses | 1 Month |
| Sales Expenses | 1 Month |
| Work in Progress | 3 Days |
| Finished Goods | 5 Days |
| Finance Cost | 1 Month |
| PAYABLES | |
| Raw Materials | 1 Month |

The working capital requirements for the first 4 years of operation are given below. The working capital requirement in the first year comes to RO 57,000. Details are given in Annexure 1.8.

| Particulars | Year 1 | Year 2 | Year 3 | Year 4 |
|---------------------------------------|--------|--------|--------|--------|
| Working Capital Requirement (RO '000) | 57 | 66 | 82 | 91 |

5.2. MEANS OF FINANCE

It is proposed to finance the Project as indicated in the following table.

| Means of Finance | Amount (RO) |
|--------------------------------------|-------------|
| Equity Capital (33% of Project Cost) | 61,600 |
| Term Loan at 6% interest rate | 58,400 |
| Commercial Loan for Working Capital | 34,000 |
| TOTAL | 154,000 |

It is proposed that the total project cost of RO 154,000 will be financed by owner's fund [equity] to the tune of RO 61,600, term loan from ODB with an interest of 3% for RO 58,400 and commercial borrowings for working capital at RO 34,000. The working capital loan is expected to carry interest @ 6% per annum.

5.3. Cost of Sales

The cost of sale has been projected for the first ten years of operation (Annexure-2) and those of first five years are summarized as below:

Figures are in RO '000)

| Details | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|----------------------------------|--------|--------|--------|--------|--------|
| Raw Materials | 141 | 176 | 212 | 247 | 247 |
| Utilities | 9 | 12 | 14 | 16 | 16 |
| Factory Wages | 32 | 33 | 65 | 66 | 67 |
| PRIME COST | 183 | 221 | 290 | 329 | 330 |
| Rent for Shed | 39 | 39 | 39 | 39 | 39 |
| Factory Overheads | 1 | 2 | 2 | 2 | 2 |
| Misc. Factory Exp. | 4 | 5 | 7 | 7 | 7 |
| FACTORY COST | 227 | 267 | 338 | 378 | 379 |
| Admin. Salaries | 17 | 17 | 17 | 18 | 18 |
| Admin. Expenses | 7 | 7 | 7 | 7 | 7 |
| TOTAL ADMIN EXPENSES | 23 | 24 | 24 | 25 | 25 |
| Sales Salaries | 8 | 9 | 9 | 9 | 9 |
| Sales Expenses | 1 | 1 | 2 | 2 | 2 |
| Advert.& Business Promotion | 5 | 7 | 8 | 10 | 10 |
| Total sales & distribution costs | 15 | 17 | 19 | 20 | 21 |
| OPERATING COST | 266 | 308 | 381 | 423 | 425 |
| Finance cost | | | | | |
| Int. on Institutional finance | 2 | 2 | 1 | 1 | 1 |
| Int. on working capital | 2 | 2 | 2 | 2 | 2 |
| Total finance cost | 4 | 4 | 3 | 3 | 3 |
| Non-cash expenses | | | | | |
| Depreciation | 10 | 10 | 10 | 10 | 10 |
| Prelim Expenses written off | 16 | 0 | 0 | 0 | 0 |
| Total Cost | 296 | 322 | 395 | 436 | 438 |

5.3.1. Raw Materials

The cost of raw materials & consumables works out to RO 352,500 at full capacity and the details are in Annexure 2.1.

5.3.2. Utilities

The total cost of utilities for working in full capacity is RO 23,518. The basis of estimate is given in Annexure 2.2.

5.3.3. Salaries & Wages

The cost of salaries and wages in the normal year of operation is RO 89,712 which is from year 3. In the first 2 years reduced manpower is considered as the production capacity in the first 2 years is at 40% and 50% of the total capacity. Details are given in Annexure 2.3.

5.3.4. Factory Overheads

The annual expenses include repairs and maintenance, civil repairs, cost of spares, spare parts, insurance and vehicle expense and the same is estimated at RO 1,200 for the first year, RO 2,100 for the second and RO 2,100 for the third year. Details are given in Annexure- 2.4.

5.3.5. Administrative Expenses

The basis of estimates of administrative expenses inclusive of salaries & wages is given in Annexure 2.5 and it works out to RO 23,305. Administrative expense includes salaries and benefits, vehicle expenses, communication related expenses, stationery, etc.

5.3.6. Depreciation

Depreciation works out to RO 10,204. Depreciation calculation is given in annexure- 2.7. The following are the rates considered for the calculation of depreciation.

| Assets | Life (years) | % of depreciation |
|---------------------------------|--------------|-------------------|
| Plant & Machinery | 10 | 10 |
| Vehicles and Internal Transport | 4 | 25 |
| Furniture & Office Equipment | 5 | 20 |

5.3.7. Loan & Interest Calculation

Interest rate for term loan and loan for working capital is taken at 3% and 6% respectively. Details of interest calculations are given in Annexure- 2.8.

5.4. INCOME TAX

No income tax is provided as the new units are exempted from tax for the first five years and 15% tax is considered from 6th year onwards.

5.5. SALES REALIZATION

The annual sales realization at installed capacity is given as annexure 3.1. The annual sales realization is provided below:

| Detail | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|-----------------|--------|--------|--------|--------|--------|
| Sales - RO '000 | 274 | 343 | 411 | 480 | 480 |

5.6. Cost Ratios

The major cost indicators as a percentage of sales realization are given in Annexure-3.

| Details | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|-----------------------------|--------|--------|--------|--------|--------|
| Raw Material / Total Sales | 51% | 51% | 51% | 51% | 51% |
| Utilities / Total Sales | 3% | 3% | 3% | 3% | 3% |
| Factory wages / Total Sales | 12% | 10% | 16% | 14% | 14% |
| Prime Cost/Total Sales | 67% | 64% | 71% | 69% | 69% |
| Factory exp. / Total Sales | 2% | 2% | 2% | 2% | 2% |
| Factory Cost / Total Sales | 83% | 78% | 82% | 79% | 79% |
| Admin. exp. / Total Sales | 9% | 7% | 6% | 5% | 5% |
| Selling exp. / Total Sales | 6% | 5% | 5% | 4% | 4% |
| Finance Cost / Total Sales | 1% | 1% | 1% | 1% | 1% |
| Non-Cash exp. / Total Sales | 10% | 3% | 2% | 2% | 2% |
| Total Cost / Sales | 108% | 94% | 96% | 91% | 91% |

Being an engineering unit with skilled operators employed, the factory wages other than Raw Material costs would be a major cost element.

5.7. NET PROFIT AND PROFITABILITY ANALYSIS

As per the financial projection in Annexure – 3, the venture is financially viable. The summary of the analysis is given under:

(Figures are in RO '000)

| Details | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|--------------------------|--------|--------|--------|--------|--------|
| Revenue | 274 | 343 | 411 | 480 | 480 |
| PBDIT | 8 | 35 | 30 | 57 | 55 |
| Depreciation | 10 | 10 | 10 | 10 | 10 |
| Finance Cost | 4 | 4 | 3 | 3 | 3 |
| Prelim. Exp. Written Off | 16 | - | - | - | - |
| Profit after tax | -22 | 21 | 17 | 43 | 41 |

5.8. KEY APPRAISAL CRITERIA

The viability of the project based on major appraisal criteria is given below.

| Detail | Value |
|------------------------------------|-------------------|
| IRR on total investment | 22.57% |
| IRR on Equity | 35.73% |
| Payback period of Total Investment | 5 years 1 month |
| Payback period on equity | 3 Years 11 months |
| DSCR | 3.83 |

5.9. SENSITIVITY ANALYSIS

A sensitivity analysis has been carried out to determine the susceptibility of the project to changes in main variables. Effect on the IRR on equity investment, based on 10 years of operation due to change in various variables is as follows:

| Particulars | Original | Sales Volume down by 5% | RM Cost up by 5% | Sales Value down by 5% |
|-------------------|----------|-------------------------------|---------------------|---------------------------|
| IRR on Investment | 22.6 | 18.1 | 17.5 | 12.6 |
| IRR on equity | 35.7 | 27.5 | 26.4 | 18.3 |

6. FACTORS TO CONSIDER BEFORE PROJECT IMPLEMENTATION

The following key factors have to be considered before implementing the project:

- The cost estimates of Plant and Machinery is based on budgetary offer received. The actual cost during implementation stage could change based on various factors like currency exchange rates, raw material price increase etc. It is advisable that the investor for the project should receive revised quotations from potential machinery suppliers before implementing the project.
- Capacity utilization is one of the major factors that shall determine the actual viability of the project.
- Quality is another major parameter to consider based on which customer build up shall happen over the period of years. Failure in delivering quality service to clients shall lead to the failure of the unit. It is recommended that required qualified technical resources are deployed for the successful operation of the project.
- The cost of raw material is a major factor that influences the profitability of the project. Prudent management of raw material stocks is key to ensuring profitable operations.

7. CONCLUSION

The IRR on Total Investment for the project is 22.57% and the IRR on Equity Investment is 35.73%.

The project has a healthy DSCR of 3.83.

Based on the various analysis carried out and as detailed above, the project is found to be technically feasible and financially viable.

APPENDIX: Size and Uses of Nails

| SIZE | LENGTH (IN.) ¹ | DIAMETER (IN.) | REMARKS | WHERE USED |
|------|------------------------------|-------------------|----------------------|--|
| 2d | 1 | .072 | Small head | Finish work, shop work |
| 2d | 1 | .072 | Large flathead | Small timber, wood shingles, lathes |
| 3d | 1 1/4 | .08 | Small head | Finish work, shop work |
| 3d | 1 1/4 | .08 | Large flathead | Small timber, wood shingles, lathes |
| 4d | 1 1/2 | .098 | Small head | Finish work, shop work |
| 4d | 1 1/2 | .098 | Large flathead | Small timber, lathes, shop work |
| 5d | 1 3/4 | .098 | Small head | Finish work, shop work |
| 5d | 1 3/4 | .098 | Large flathead | Small timber, lathes, shop work |
| 6d | 2 | .113 | Small head | Finish work, casing, stops, etc., shop work |
| 6d | 2 | .113 | Large flathead | Small timber, siding, sheathing, etc., shop work |
| 7d | 2 1/4 | .113 | Small head | Casing, base, ceiling, stops, etc. |
| 7d | 2 1/4 | .113 | Large flathead | Sheathing, siding, subflooring, light framing |
| 8d | 2 1/2 | .131 | Small head | Casing, base, ceiling, wainscot, etc., shop work |
| 8d | 2 1/2 | .131 | Large flathead | Sheathing, siding, subflooring, light framing, shop work |
| 8d | 1 1/4 | .131 | Extra-large flathead | Roll roofing, composition shingles |
| 9d | 2 3/4 | ,131 | Small head | Casing, base, ceiling, etc. |
| 9d | 2 3/4 | .131 | Large flathead | Sheathing, siding, subflooring, framing, shop work |
| 10d | 3 | .148 | Small head | Casing, base, ceiling, etc., shop work |
| 10d | 3 | .148 | Large flathead | Sheathing, siding, subflooring, framing, shop work |
| 12d | 3 1/4 | .148 | Large flathead | Sheathing, subflooring, framing |
| 16d | 3 1/2 | .162 | Large flathead | Framing, bridges, etc. |
| 20d | 4 | .192 | Large flathead | Framing, bridges, etc. |
| 30d | 4 1/2 | .207 | Large flathead | Heavy framing, bridges, etc. |
| 40d | 5 | .225 | Large flathead | Heavy framing, bridges, etc. |
| 50d | 5 1/2 | .244 | Large flathead | Extra-heavy framing, bridges, etc. |
| 60d | 6 | .262 | Large flathead | Extra-heavy framing, bridges, etc. |

| | Project Profile | e for Setting up a | Wire Nail Man | ufacturing Unit |
|-------------------------|-----------------|--------------------|---------------|-----------------|
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| ANNEXURE - FINANCIAL WO | ORKINGS | | | |
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ANNEXURE-1 WIRE NAIL MANUFACTURING UNIT **ESTIMATED PROJECT COST** S.No. Item Refer Amount Remarks App. (R.O.) **A1** PROJECT COST 0 1 Land & Building etc. 1.1 & 1.2Lease Rental - Included Separately 2 Plant & Machinery 1.3 60,000 Estimates 3 Vehicles and Int. Transport 1.4 11,000 Estimates Furniture & Office Equip. 4 1.5 5,000 Estimates 5 Pre- Operative Expenses 1.6 16,000 Estimates Contingency & Escalation 5,000 6 1.7 Estimates **Sub Total** 97,000 97,000 WORKING CAPITAL 57,000 **A2 A3 TOTAL** 154,000 154,000 Say В MODE OF FINANCE 1 61,600 40% of the Total Project Cost Equity 2 Term loan (ODB) 58,400 120,000 3 Total 4 Working Capital Loan 34,000 **TOTAL** 154,000

| | ANNEXURE- 1.1 | | | | | | | | | |
|-------|------------------------------------|-----------|-----------|-----------|--------|--|--|--|--|--|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | |
| | ESTIMATED | COST OF I | LAND & SI | TE DEVELO | PMENT | | | | | |
| S.No. | Item Unit Q'ty Rate Amount Remarks | | | | | | | | | |
| | | | | (R.O.) | (R.O.) | | | | | |
| | | | | | | | | | | |
| A | LAND | | | | | | | | | |
| 1 | 1 Land for Plant Sq. M 0 - Lease | | | | | | | | | |
| | | | | | - | | | | | |

| | ANNEXURE- 1.2 | | | | | | | | |
|-------|--------------------------------|-------|-----------------|--|--|--|--|--|--|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | |
| | ESTIMATED BUILDING REQUIREMENT | | | | | | | | |
| S.No. | Item | Area | Remarks | | | | | | |
| | | (SqM) | | | | | | | |
| | | | | | | | | | |
| Α | MAIN PLANT BUILDINGS | | | | | | | | |
| 1 | Plant Area | 500 | | | | | | | |
| 2 | Store for Raw Materials | 300 | | | | | | | |
| 3 | Store for Finished Goods | 200 | | | | | | | |
| | | | On Lease Rental | | | | | | |
| | | | | | | | | | |
| В | ADMIN BUILDING | | | | | | | | |
| 1 | Office Building | 300 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Grand Total | 1,300 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| | | ANNEXUR | E- 1.3 | | | |
|-------|--|------------|----------|---------|-----------------|---------|
| | WIRE NA | IL MANUFA | | UNIT | | |
| | ESTIMATED (| COST OF PL | ANT & MA | CHINERY | | |
| S.No. | Item | Power | Q'ty | Rate | Amount | Remarks |
| | | KW | | (R.O.) | (R.O.) | |
| A | MAIN PLANT AND MACHINERY | | | | 0.385 | |
| 1 | Straight Line Wire Drawing Machine (LZ-560-2, 6 -2.2 mm, 8 drawing pots) | 22 KW * 8 | | | | |
| | Auxillary Equipments | | | | | |
| 1.1 | Upper pull out wire rack | | | | | |
| 1.2 | Wire Pointing Machine | | | 69,800 | 26,873 | |
| 1.3 | Mechanical Sheller | | | | | |
| 1.4 | Butt Welding Machine | | | | | |
| 1.5 | Electric Control cabinet | | | | | |
| 1.6 | Operation cabinet | | | | | |
| 4.5 | Drawing Dies - Poly crystalline | | | | | |
| 1.7 | diamond cutting tools | | | | | |
| | 5.4 mm | | 1 | 85 | 33 | |
| | 4.7 mm | | 1 | 75 | 29 | |
| | 4.1 mm | | 1 | 65 | 25 | |
| | 3.6 mm | | 1 | 57 | 22 | |
| | 3.2 mm | | 1 | 51 | 20 | |
| | 2.8 mm | | 1 | 45 | | |
| | 2.45 mm | | | | 17 | |
| | | | 1 | 39 | 15 | |
| | 2.2 mm | | 1 | 35 | 13 | |
| 1.8 | Trunk Type Wire Coiling Machine | | 1 | 7,800 | 3,003 | |
| | Sub total | | - | 45.000 | 30,050 | |
| 2 | Electric Furnace | | 1 | 17,800 | 6,853 | |
| 2.1 | Inner Pot Sub Total | | 2 | 5,000 | 3,850 | |
| | | | 0 | 7 | 10,703 | |
| 3 | SN 2 + 3 Wire Nail making Machine | | 2 | 7660 | 5,898 | |
| 4 | Polishing Drum 250 Kg | | 1 | 1500 | 578 | |
| 5 | Nail cutter grinder | | 1 | 700 | 270 | |
| 6 | | | 2 | 100 | 77 | |
| В | AT SITE COST | | | | | |
| 1 | Total Plant | | | | 47,575 | - |
| 2 | Spares E. I. | | | | 1,000 | Lumpsum |
| 3 4 | Packing, Insurance Forwarding C I F Cost | | | | 1,427 50,002 | |
| 5 | Clearing & Transport to Site | | | | 1,000 | |
| 6 | At Site Cost | | | | 51,003 | |
| C | ERECTED COST | | | | ,000 | |
| 1 | At Site Cost | | | | 51,003 | |
| 2 | Electrification | | | | 4,758 | |
| 3 | Cost of erection - Local | | | | 3,330 | |
| 4 | Technical Supervision | | | | 952 | |
| | MOTAL PROGRESS COST | | | | | |
| | TOTAL ERECTED COST | | | | 60,042 | |
| | Say | | | | 60,000 | |

| | | ANNEXUR | E- 1.4 | | | | | | | | | |
|-------|---|----------|------------|--------|------------------|--|--|--|--|--|--|--|
| | WIRE NAI | L MANUFA | CTURING UN | IIT | | | | | | | | |
| | ESTIMATED COST OF VEHICLES & INTERNAL TRANSPORT | | | | | | | | | | | |
| | | | | | | | | | | | | |
| S.No. | Item | Q'ty | Rate | Amount | Remarks | | | | | | | |
| | | (Nos.) | | (R.O.) | | | | | | | | |
| A | VEHICLES | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 1 | Pick up | 1 | 10,000 | 10,000 | Estimate | | | | | | | |
| | Sub Total | 1 | | 10,000 | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| В | Registration, Painting, Spares etc | | | 1,000 | 10% of the above | | | | | | | |
| | Sub Total | - | | 1,000 | | | | | | | | |
| C | TOTAL | 1 | | 11,000 | | | | | | | | |
| | Say | 1 | | 11,000 | | | | | | | | |

ANNEXURE- 1.5 WIRE NAIL MANUFACTURING UNIT **ESTIMATED COST OF FURNITURE & OFFICE EQUIPMENT** S.No. Remarks Item Q'ty Amount (R.O.) **OFFICE** \mathbf{A} P.C with Printer 300 1 4 1,200 Lumpsum 1 2 Photocopier 250 Lumpsum Fax, Telephone 3 Set 250 Lumpsum 4 Other Office Equipment Set 500 Lumpsum 5 Air Conditioners 2 250 500 Lumpsum 6 Office Furnitures 1,000 Lumpsum Sub Total 3,700 В **FACTORY FURNITURE** Work bench/Rack/Firniture etc 1 500 Sub Total 500 ACCOMODATION FURNITURE В 1 Furniture / Fittings Set 900 Lumpsum Sub Total 900 **FACTORY** C 1 Furniture / Fittings Set Lumpsum Sub Total 5,100 5,000 Say

| | ANNEXURE- 1.6 | | | | | | | | |
|------|--------------------------------------|------------|------------|--|--|--|--|--|--|
| | WIRE N | AIL MANUI | FACTURING | UNIT | | | | | |
| | ESTIMATED C | OST OF PRI | E-OPERATIV | YE EXPENSES | | | | | |
| S.No | Item | | Amount | Remarks | | | | | |
| | | (R.O.) | (R.O.) | | | | | | |
| 1 | Preliminary Expenses | | 500 | Upto formation of Co. | | | | | |
| 2 | Feasibility Studies | | 1,000 | | | | | | |
| 3 | Salary during construction period | | | | | | | | |
| a | Salary & benefits -Plant manager | 1,400 | | 1 Month | | | | | |
| b | Salary & benefits - Production Staff | 3,976 | | 1 Month | | | | | |
| С | Salary & benefits - Admin. Staff | 1,400 | | 1 Month | | | | | |
| d | Salary & benefits - Sales Staff | 700 | | 1 Month | | | | | |
| e | Visa, Passage etc. | 2,400 | | For Expatriates at R.O. 400 per Person | | | | | |
| | Sub Total | | 9,876 | | | | | | |
| 4 | Financing Cost | | | | | | | | |
| a | Institutional Loan Interest | 876 | | At 3% for 6 months | | | | | |
| b | Mortgage Expenses | 292 | | At 0.5 % on Institu: Loan | | | | | |
| С | Other Bank Charges | 200 | | Lumpsum | | | | | |
| | Sub Total | | 1,368 | | | | | | |
| 5 | Communication | | 600 | lumpsum | | | | | |
| 6 | Travel | | 500 | Lumpsum | | | | | |
| 7 | Recruitment & Training Charges | | 500 | Lumpsum | | | | | |
| 8 | Audit Fees, Legal Fees | | 500 | Lumpsum | | | | | |
| 9 | Insurance | | 240 | At 0.4 % of Plant & Bldg. | | | | | |
| 10 | Miscellaneous | | 500 | Provision | | | | | |
| 11 | Total | | 15,584 | | | | | | |
| | Say | | 16,000 | | | | | | |

| | ANNEXURE- 1.7 | | | | | | | | | | |
|-------|---|--------|------|-----------|---------|--|--|--|--|--|--|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | |
| | ESTIMATES OF CONTINGENCY AND ESCALATION | | | | | | | | | | |
| | | | | | | | | | | | |
| S.No. | Item | Cost | Rate | Provision | Remarks | | | | | | |
| | | (R.O.) | (%) | (R.O.) | | | | | | | |
| A | FIXED ASSETS | | | | | | | | | | |
| 1 | Land for Plant Site | - | 0.0 | - | | | | | | | |
| 2 | Building etc. | - | 5.0 | - | | | | | | | |
| 3 | Plant & Machinery | 60,000 | 5.0 | 3,000 | | | | | | | |
| 4 | Technical Know-How | - | 5.0 | - | | | | | | | |
| 5 | Vehicles and Int. Transport | 11,000 | 5.0 | 550 | | | | | | | |
| 6 | Furniture & Office Equip. | 5,000 | 5.0 | 250 | | | | | | | |
| 7 | Pre- Operative Expenses | 16,000 | 5.0 | 800 | | | | | | | |
| | TOTAL | | | 4,600 | | | | | | | |
| | | | | 5,000 | say | | | | | | |

ANNEXURE- 1.8 WIRE NAIL MANUFACTURING UNIT ESTIMATES OF WORKING CAPITAL REQUIREMENTS Year 1 Year 2 Year 3 Year 4 Remarks S.No. Req. Item In RO '000 Acct. Receivable 2 Months 45 52 64 71 Cost of sales - Non C Ex. Raw Materials 1 Month 11.8 14.7 17.6 20.6 1 Month Utilities 0.8 1.0 1.2 1.4 Factory Wages 1 Month 3 3 Admn. Expenses 1 Month 2 2 Sales Expenses 1.6 1.7 1 Month 1.3 1.4 Work in Progress 1.9 2.2 2.8 3 Days 3.1 At Factory Cost Finished Goods 5 Days 3.5 4.0 5.0 5.6 At total Cost-Non cash-Selling and Distrbn Finance Cost 1 Month 0.3 0.3 0.3 0.3 At Finance Cost 69 80 100 10 Total 111 11 Payables Months Raw Materials 15 1 Months 12 18 21 12 15 18 21 subtotal Say 57 66 82 91

| | | | | | | ANNEXUI | RE- 2 | | | | | |
|--------------|-------------------------------|-----|----------|-----|----------|---------|---------|------|----------|------|-----|--------------------------|
| | | | | W | IRE NAIL | MANUFA | CTURING | UNIT | | | | |
| COST OF SALE | | | | | | | | | | | | |
| | Year of Operation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| No | Item | | <u>'</u> | - | | In R | .O.'000 | | <u> </u> | | | Remarks |
| | | | | 212 | 2.17 | | 2.5 | 2.17 | | 2.17 | | |
| 1 | Raw Material & Consumables | 141 | 176 | 212 | 247 | 247 | 247 | 247 | 247 | 247 | | Ref. Annexure 2.1 |
| 2 | Utilities | 9 | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | | Ref. Annexure 2.2 |
| 3 | Factory Wages | 32 | 33 | 65 | 66 | 67 | 68 | 70 | 71 | 73 | | Ref Annexure 2.3 |
| 4 | PRIME COST | 183 | 221 | 290 | 329 | 330 | 332 | 333 | 334 | 336 | | Sub total of 1 to 4 |
| 5 | Rent for Industrial Shed | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | | RO 2.5 per sqm per month |
| 6 | Factory Overheads | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | Ref Annexure 2.4 |
| 7 | Misc. Factory Exp. | 4 | 5 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | At 2 % of (5)&(6) |
| 8 | FACTORY COST | 227 | 267 | 338 | 378 | 379 | 380 | 382 | 383 | 385 | 386 | Sub total of 5 to 7 |
| 9 | Admin. Salaries | 17 | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | Ref Annexure2.3&2.5 |
| 10 | Admin. Expenses | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | Ref Annexure 2.5 |
| | ± | 23 | 24 | 24 | 25 | 25 | 26 | _ | 27 | 28 | | |
| 11 | Total Admin expenses | 23 | 24 | 24 | 25 | 25 | 26 | 26 | 27 | 28 | 28 | Sum (9) to (10) |
| 12 | Sales Salaries | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 11 | | Ref Annexure2.3&2.6 |
| 13 | Sales Expenses | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | Ref Annexure 2.6 |
| 14 | Advert.& Business Promotion | 5 | 7 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 2% on sales |
| 15 | Total sales & dist: costs | 15 | 17 | 19 | 20 | 21 | 21 | 21 | 22 | 22 | 23 | Sum of (12 to 14) |
| 16 | OPERATING COST | 266 | 308 | 381 | 423 | 425 | 427 | 430 | 432 | 434 | 437 | Sum(8)+(11)+(15) |
| | Finance cost | | | | | | | | | | | |
| 17 | Int on Institutional finanace | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | Ref Annexure 2.8 |
| 18 | Int on working capital | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | Ref Annexure 2.8 |
| 19 | Total finance cost | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | Sum(17)+(18) |
| | Non cash expenses | | | | | | | | | | | |
| 20 | Depreciation | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | Ref Annexure 2.7 |
| 21 | Prelim Expenses written off | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ref Annexure 2.7 |
| 22 | | 296 | 322 | 395 | 436 | 438 | 440 | 442 | 444 | 447 | 449 | Sum16+19+20+21 |

| | | | NEXURE- 2.1 | | | |
|-------|--|---------------|-------------|---------------|-----------|-------------------|
| | | WIRE NAIL MA | | | | |
| | ESTIMATE | D COST OF RAY | W MATERIAL | S (@ 100% uti | lisation) | |
| CN | T , | TT *4 | 01 | D (| | D 1 |
| S.No. | Item | Unit | Qty | Rate | Amount | Remarks |
| A | RAW MATERIALS | | | | (R.O.) | |
| 1 | MS Rods 6/8mm diameter (includes 2% wastage) | Tons | 1,224 | 269 | 329,440 | USD 700 per ton |
| | SubTotal | | 1,224 | | 329,440 | |
| | | | | | | |
| В | CONSUMABLES | | | | | |
| 1 | Sawdust | | | | | |
| 2 | Zinc | | | | 16,472 | For Polishing and |
| 3 | HCL | | | | 16,472 | surface finish |
| 4 | Ammonium Chloride | | | | | |
| | SubTotal | | | | 16,472 | |
| | TOTAL | | | | 345,912 | |
| C | PACKING MATERIALS | | | | | |
| | Packing materials | | | | 6,589 | |
| | Grand Total | | | | 352,500 | |

| | ANNEXURE- 2.2 | | | | | | | | | | | |
|-------|---|-------------|-------------------|--------------|-------------|--|--|--|--|--|--|--|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | |
| | | ESTIMATED (| COST OF UTILITIES | (At installe | d capacity) | | | | | | | |
| S.No. | 5.No. Item Unit Qty Rate Amount Remarks | | | | | | | | | | | |
| | | | | | (R.O.) | | | | | | | |
| | UTILITIES | | | | | | | | | | | |
| 1 | Water | Cu M | 1,500 | 0.770 | 1,155 | | | | | | | |
| 2 | Electricity | KWH | 745,425 | 0.030 | 22,363 | | | | | | | |
| | | | | | | | | | | | | |
| | TOTAL | | | | 23,518 | | | | | | | |

ANNEXURE- 2.3

WIRE NAIL MANUFACTURING UNIT

ESTIMATES OF ANNUAL SALARIES AND WAGES

| C N 1 | - | N. 4 | | 6.1 | | | |
|-------|---------------------------------|------------|----------|------------|-------|--------|---------|
| S.No. | Item | No of pe | ersonnel | Salary | | Annual | Remarks |
| | | | | (RO/month) | | RO | |
| | | Expat | Omani | Expat | Omani | | |
| | PRODUCTION | | _ | | | | |
| 1 | Plant Manager | 1 | 0 | | | 12,000 | |
| | Wire Drawing Machine Techicians | 1 | | 250 | | 3,000 | |
| 2 | Nail making Technicians | 2 | | | 500 | 6,000 | |
| 3 | Nail polishing Technicians | 0 | | + | | - | |
| 4 | Nail packing workers | 2 | | | 350 | 12,720 | |
| 5 | Unskilled | 1 | 1 | 180 | 350 | 6,360 | |
| 6 | Maintainance (Ele+Mech) | 2 | | 250 | | 6,000 | |
| | Sub Total | 9 | 3 | | | 46,080 | |
| | Total Manpower Cost | | | | | | |
| | Total Salary | | | | | 46,080 | |
| | Other Benefits (40% of Salary) | | | | | 18,432 | |
| | Total Production Salary | | | | | 64,512 | |
| В | ADMINISTRATION & ACCOUNT | [S | | | | | |
| 1 | PRO | | 1 | | 500 | 6,000 | |
| 2 | Accountant/Stores in charge | | 1 | | 500 | 6,000 | |
| | Sub Total | 0 | 2 | | | 12,000 | |
| | Total Manpower Cost | | | | | | |
| | Total Salary | | | | | 12,000 | |
| | Other Benefits (40% of Salary) | | | | | 4,800 | |
| | Total Cost | 0 | 2 | | | 16,800 | |
| С | SALES | | | | | | |
| a | Sales | | | | | | |
| 1 | | 0 | 1 | 0 | 500 | 6,000 | |
| b | Total Manpower Cost | | | | | | |
| 1 | Total Salary | | | | | 6,000 | |
| 2 | Other Benefits (40% of Salary) | | | | | 2,400 | |
| 3 | Total Cost | | | | | 8,400 | |
| D | GRAND TOTAL | 9 | 6 | | | 89,712 | |
| | Omanisation | | 40% | | | | |

| | ANNEXURE- 2.4 WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | | | | |
|-------|--|-----|-------|-------|---|--|--|--|--|--|--|--|--|--|--|
| | ESTIMATES OF ANNUAL FACTORY EXPENSES | | | | | | | | | | | | | | |
| S.No. | | | | | | | | | | | | | | | |
| | 1 2 3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 1 | Repairs & Maintenance | 300 | 300 | 300 | At 0.5 % of erected cost of Plant and Machinery | | | | | | | | | | |
| 2 | Civil Repairs | - | - | - | At 1 %, 2%,3% of cost of Building and Civil Works | | | | | | | | | | |
| 3 | Spare Parts | 300 | 1,200 | 1,200 | At 0.5%, 2.0% and 2.0% of 'at-site' cost of P&M | | | | | | | | | | |
| 4 | Insurance | 600 | 600 | 600 | At 1 % of cost Building, P & M | | | | | | | | | | |
| | TOTAL 1,200 2,100 2,100 | | | | | | | | | | | | | | |

| | ANNEXURE- 2.5 | | | | | | | | | | | | |
|-------|----------------------------|-----------|--------------|------------------------|--|--|--|--|--|--|--|--|--|
| | WIRE NAIL N | MANUFAC | TURING UNIT | | | | | | | | | | |
| | ESTIMATES OF ANNU | JAL ADMIN | NISTRATIVE I | EXPENSES | | | | | | | | | |
| | | | | | | | | | | | | | |
| S.No. | Item | | Amount | Remarks | | | | | | | | | |
| | | (R.O.) | (R.O.) | | | | | | | | | | |
| | ADMINISTRATION | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1 | Salaries & Benefits 16,800 | | | | | | | | | | | | |
| 2 | Vehicle Expenses & Petrol | | | | | | | | | | | | |
| a | Pick up | 1200 | | At R.O. 100/Month each | | | | | | | | | |
| | Sub Total | | 1,200 | | | | | | | | | | |
| 3 | Telephone, Fax etc. | | 1,200 | At R.O. 100/Month | | | | | | | | | |
| 4 | Stationery | | 1,200 | At R.O. 100/Month | | | | | | | | | |
| 5 | Legal, Audit Fees | | 500 | Lumpsum | | | | | | | | | |
| 6 | Utilities outside Plant | | 1,200 | At R.O. 1000/Month | | | | | | | | | |
| 7 | Registratioin & Renewals | | 500 | | | | | | | | | | |
| 8 | Insurance | | 405 | Lumpsum | | | | | | | | | |
| 9 | Other Expenses | | 300 | | | | | | | | | | |
| | Total | | 23,305 | | | | | | | | | | |

| | ANNEXURE- 2.6 | | | | | | | | | | | | |
|-------|---|--------|--------|------------------|--|--|--|--|--|--|--|--|--|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | | |
| | ESTIMATES OF ANNUAL SALES EXPENSES | | | | | | | | | | | | |
| S.No. | Item | | Amount | Remarks | | | | | | | | | |
| | | (R.O.) | (R.O.) | | | | | | | | | | |
| 1 | Salaries | | 8,400 | See Annexure 2.3 | | | | | | | | | |
| 2 | Travel | | 500 | Lumpsum | | | | | | | | | |
| 3 | 3 Miscellaneous Expenses 890 10% of the above | | | | | | | | | | | | |
| | Total 9,790 | | | | | | | | | | | | |

ANNEXURE- 2.7 WIRE NAIL MANUFACTURING UNIT **DEPRECIATION CALCULATIONS** S.V. Cost Rate Amount Renewals Item (%) (R.O.) (R.O.) FIXED ASSETS Land for Plant Site 0 0 Nil 0 1 0 5 2 Building etc. 0 Nil -59540 Plant & Machinery 10 0 Year 11 3 5,954 Technical Know-How 0 10 0 Nil Vehicles and Int. Transp. 11000 25 5500 2,750 Years 5, 9 5 Years 6, 11 5000 Furniture & Office Equip. 20 0 1,000 6 10 0 7 Contingency & Escalation 5000 500 Nil Sub Total 80540 5500 10,204 8 0 **16,000** Nil PRELIM &PRE OPE: EXP 16000 100 \mathbf{C} WORKING CAPITAL Working Capital 90544 0 90544 1

96,044

34,000

62,044

26,204

TOTAL

Less Balance Loan

SALVAGE VALUE

Note: S.V. = Salvage Value at the end of 10th year.

D

E

| | ANNEXURE- 2.8 | | | | | | | | | | | |
|----|---|-----|-----------|-----------|-----|------|--------|-----|--|--|--|--|
| | WIRE NAIL MANUFACTURING UNIT LOAN & INTEREST CALCULATIONS | | | | | | | | | | | |
| | T T | | | FEREST CA | | | | | | | | |
| | | - | Геrm Loan | | WC | Loan | Annual | | | | | |
| No | Year | Prn | Int | Rep | Prn | Int | Int | Rep | | | | |
| | 7 | | 3% | | | 6% | | | | | | |
| 1 | | 58 | 0.9 | 0 | 34 | 1.0 | | | | | | |
| 2 | 1 | 58 | 0.9 | 0 | 34 | 1.0 | 3.8 | 0 | | | | |
| 3 | | 58 | 0.9 | 4 | 34 | 1.0 | | | | | | |
| 4 | 2 | 54 | 0.8 | 4 | 34 | 1.0 | 3.7 | 8 | | | | |
| 5 | | 50 | 0.8 | 4 | 34 | 1.0 | | | | | | |
| 6 | 3 | 46 | 0.7 | 4 | 34 | 1.0 | 3.5 | 8 | | | | |
| 7 | | 42 | 0.6 | 4 | 34 | 1.0 | | | | | | |
| 8 | 4 | 38 | 0.6 | 4 | 34 | 1.0 | 3.2 | 8 | | | | |
| 9 | | 33 | 0.5 | 4 | 34 | 1.0 | | | | | | |
| 10 | 5 | 29 | 0.4 | 4 | 34 | 1.0 | 3.0 | 8 | | | | |
| 11 | | 25 | 0.4 | 4 | 34 | 1.0 | | | | | | |
| 12 | 6 | 21 | 0.3 | 4 | 34 | 1.0 | 2.7 | 8 | | | | |
| 13 | | 17 | 0.3 | 4 | 34 | 1.0 | | | | | | |
| 14 | 7 | 13 | 0.2 | 4 | 34 | 1.0 | 2.5 | 8 | | | | |
| 15 | | 8 | 0.1 | 4 | 34 | 1.0 | | | | | | |
| 16 | 8 | 4 | 0.1 | 4 | 34 | 1.0 | 2.2 | 8 | | | | |
| 17 | | 0 | 0.0 | 0 | 34 | 1.0 | | | | | | |
| 18 | 9 | 0 | 0.0 | 0 | 34 | 1.0 | 2.0 | 0 | | | | |
| 19 | | 0 | 0.0 | 0 | 34 | 1.0 | | | | | | |
| 20 | 10 | 0 | 0.0 | 0 | 34 | 1.0 | 2.0 | 0 | | | | |
| 20 | 10 | 0 | 0.0 | 0 | 34 | 1.0 | 2.0 | 0 | | | | |

| | ANNEXURE- 3 | | | | | | | | | | | |
|----|------------------------------|-----|---------------------------|-------|--------|----------------|--------|------|-----|-----|-----|-----------------------------|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | |
| | | | | ESTIM | ATED V | VORKIN | IG RES | ULTS | | | | |
| | Year of Operation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| No | Item | | | | | In R.O. | '000 | | | | | Remarks |
| 1 | Operating Cost | 266 | 308 | 381 | 437 | Ref Annexure 2 | | | | | | |
| 2 | Expected Sales | | | | | | | | | | | |
| a | Local | 79 | 99 | 119 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | Ref Annexure 3.1 |
| b | Export | 195 | 244 | 292 | 341 | 341 | 341 | 341 | 341 | 341 | 341 | Ref Annexure 3.1 |
| 2 | Expected Sales | 274 | 343 | 411 | 480 | 480 | 480 | 480 | 480 | 480 | 480 | |
| | | | | | | | | | | | | |
| 3 | Profit before Int & dep | 8 | 35 | 30 | 57 | 55 | 52 | 50 | 48 | 45 | | Sum of (2-1) |
| 4 | Depreciation | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | Ref Annexure 2.7 |
| 5 | Finance Cost | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | | Ref Annexure 2.8 |
| 6 | Operating profit | -6 | 21 | 17 | 43 | 41 | 39 | 37 | 35 | 33 | 31 | Sum of (3 - 4 - 5) |
| 7 | Prelim Expenses written off | 16 | - | - | - | - | ı | - | - | - | - | Ref Annexure 2.7 |
| 8 | Profit/Loss before tax | -22 | 21 | 17 | 43 | 41 | 39 | 37 | 35 | 33 | | Sum of (6 - 7 - 8) |
| 9 | Income Tax | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 5 | 5 | 5 | 15% of Profit after 5 years |
| 10 | Profit after tax | -22 | 21 | 17 | 43 | 41 | 34 | 32 | 30 | 28 | 26 | |
| 11 | Statutory reserve | 0 | 2 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | |
| 12 | Profit for appropriation | -22 | 19 | 15 | 39 | 37 | 30 | 29 | 27 | 25 | 23 | |
| 13 | Net cash accruals | 4 | 4 31 27 54 52 44 42 40 38 | | | | | | | | | |

| | ANNEXURE- 3.1 | | | | | | | | | | | | | |
|-------|------------------------------|-----|---------|---|------------|-------------|------------|------------|---------|---------|---------|---------|--|--|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | | | |
| | | | | E | STIMATES O | OF SALES RE | EALISATION | | | | | | | |
| S.No. | DETAILS | | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | | |
| Α | | | | | | | Sales Volu | me in Tons | | | | | | |
| 1 | Production Capacity | | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | | |
| 2 | Projected Capacity | | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | | |
| 3 | Projected Production | | 480 | 480 600 720 840 | | | | | | | | | | |
| 4 | Estimated Domestic sales | 30% | 144 | | | | | | | | | | | |
| 5 | Estimated export sales | 70% | 336 | 420 | 504 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | | |
| 6 | Total Sales Volume | | 480 | 600 | 720 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | | |
| В | | | | | | | Sales Reve | nue in RO | | | | | | |
| 1 | Domestic Sales Revenue | 550 | 79,200 | | | | | | | | | | | |
| 2 | Export Sales Revenue | 580 | 194,880 | 243,600 | 292,320 | 341,040 | 341,040 | 341,040 | 341,040 | 341,040 | 341,040 | 341,040 | | |
| 3 | Total sales Revenue | | 274,080 | 342,600 | 411,120 | 479,640 | 479,640 | 479,640 | 479,640 | 479,640 | 479,640 | 479,640 | | |

| | ANNEXURE- 4 | | | | | | | | | | | | |
|----|-----------------------------|-----|--------------------------------------|------------------|----------|----------|------------|---------|-----|-----|-----|-----|----------------------|
| | | | | W | IRE NAII | L MANUI | FACTURIN | NG UNIT | | | | | |
| | | | | PR | OJECTEI | O CASH F | LOW STA | TEMENT | Γ | | | | |
| | Year of Operation | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production | | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| | Nos | 000 | | | | | | | | | | | |
| No | Item | · | | | • | I | n R.O.'000 | · | | • | · | | Remarks |
| | | | | | | | | | | | | | |
| A | CASH INFLOW | | | | | | | | | | | | |
| 1 | Equity | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Ref Annexure 1 |
| 2 | Profit bef tax & int | | -18 | 24 | 20 | 47 | 44 | 42 | 40 | 37 | 35 | | Ref Annexure 3 |
| 3 | Depreciation | 0 | 0 10 10 10 10 10 10 10 10 10 10 10 F | | | | | | | | | | Ref Annexure 2.7 |
| 4 | Prel exp written off | | 16 | Ref Annexure 2.7 | | | | | | | | | |
| 5 | Increase in Other term loan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ref Annexure 1 |
| 6 | Increase in Bank Term Loan | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Ref Annexure 1 |
| 7 | Increase in W C loan | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ref Annexure 1 |
| 8 | Other income | 0 | | | | | | | | | | | Ref Annexure 3 |
| 9 | Sub Total | 154 | 8 | 35 | 30 | 57 | 55 | 52 | 50 | 48 | 45 | 43 | Sum of A1 to A8 |
| | | | | | | | | | | | | | |
| В | CASH OUTFLOW | | | | | | | | | | | | |
| 1 | Capital Project expenditure | 81 | 0 | 0 | 0 | 0 | 11 | 5 | 0 | 0 | 11 | 0 | Ref Annexure 1& 2.7 |
| 2 | Other normal cap exp | 16 | | | | | | | | | | | Ref Annexure 1& 2.7 |
| 3 | Increse in Working Cap: | 57 | 0 | 9 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | | Ref Annexure 1.7 |
| 4 | Decrease in Institu:Loan | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | Ref Annexure 2.8 |
| 5 | Decrease in Other term loan | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5 | Interest on term loans | | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | | Ref Annexure 2.8 |
| 6 | Interest on work cap loan | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | Ref Annexure 2.8 |
| 7 | Income Tax | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 5 | 5 | | Ref Annexure 3.2 |
| 8 | Dividend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Provision |
| 9 | Sub Total | 154 | 4 | 21 | 28 | 12 | 22 | 22 | 16 | 16 | 18 | | Sum of B1 to B10 |
| 10 | OPENING BALANCE | 0 | 0 | 4 | 18 | 20 | 65 | 98 | 128 | 162 | 194 | 221 | |
| C | SURPLUS | 0 | 4 | 14 | 2 | 45 | 32 | 30 | 34 | 32 | 27 | 36 | Difference(A9)-(B11) |
| D | | 0 | 4 | 18 | 20 | 65 | 98 | 128 | 162 | 194 | 221 | 257 | |

| | | | | | AN | NEXURE | E- 5 | | | | | | |
|----|-----------------------------|-----------|--|---------|------------------|--------|----------|--------|------|-----|------------------|-----|----------------------|
| | | | | WIRE N | AIL MA | NUFAC | TURING | UNIT | | | | | |
| | | | INTER | RNAL RA | TE OF R | ETURN | ON TOT | AL CAP | ITAL | | | | |
| | Year of Operation | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production | | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| | | | | | | | | | | | | | |
| No | Item | | | | T | In | R.O.'000 |) | | T | | Т | Remarks |
| A | CASH INFLOW | | | | | | | | | | | | |
| 1 | Net Profit bef. Tax | | | | | | | | | | | | Refer Annexure - 3 |
| 2 | Depreciation | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | Ref Annexure 2.7 |
| 3 | Prelim Exp written off | | 16 | 0 | Ref Annexure 2.7 | | | | | | | | |
| 4 | Finance Cost | 0 | 0 4 4 3 3 3 3 2 2 2 F | | | | | | | | Ref Annexure 2.8 | | |
| 5 | Salvage Value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 311 | Ref Annexure 2.7 |
| 6 | Sub Total | 0 | 8 | 35 | 30 | 57 | 55 | 52 | 50 | 48 | 45 | 354 | Sum of A1 to A5 |
| В | CASH OUTFLOW | | | | | | | | | | | | |
| 1 | Capital Project expenditure | 81 | 0 | 0 | 0 | 0 | 11 | 5 | 0 | 0 | 11 | 0 | Refer Annexure - 1 |
| 2 | Other normal cap exp | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure - 1 |
| 3 | Working Capital | 57 | 0 | 9 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure - 1 |
| 4 | Income Tax | | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 5 | 5 | 5 | Refer Annexure - 3.2 |
| 5 | Sub Total | 154 | 0 | 9 | 17 | 0 | 11 | 11 | 6 | 5 | 16 | 5 | Sum of B1 to B4 |
| C | NET CASHFLOW (AT) | -154 | -154 8 26 14 57 44 41 44 42 29 | | | | | | | | | | |
| D | NETCASH FLOW(PT) | -154 | 8 | 26 | 14 | 57 | 44 | 47 | 50 | 48 | 34 | 354 | |
| E | INTERNAL RATE OF RETURN | U ON TOTA | AL INVE | STMENT | , | | | | | | 22.57 | % | |

| | | | | | | ANN | NEXURI | E- 6 | | | | | |
|----|---|-----|-----|-----|-----|-----|--------|------|-------|-----|-----|-----|----------------------|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | | |
| | INTERNAL RATE OF RETURN ON EQUITY CAPITAL (AFTER TAX) | | | | | | | | | | | | |
| | Year of Operation | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production | | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| No | No Item In R.O.'000 | | | | | | | | | | | | |
| A | CASH INFLOW | | | | | | | | | | | | |
| 1 | Net Profit before Tax | 0 | -22 | 21 | 17 | 43 | 41 | 39 | 37 | 35 | 33 | 31 | Refer Annexure- 3 |
| 2 | Depreciation | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | Refer Annexure - 2.7 |
| 3 | Prelim Exp written off | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure - 2.7 |
| 4 | Salvage Value | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 311 | Refer Annexure - 2.7 |
| 5 | Sub Total | 0 | 4 | 31 | 27 | 54 | 52 | 50 | 48 | 45 | 43 | 352 | Sum of A1 to A4 |
| В | CASH OUTFLOW | | | | | | | | | | | | |
| 1 | Equity | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure - 1 |
| 2 | Fixed Assets | 0 | 0 | 0 | 0 | 0 | 11 | 5 | 0 | 0 | 11 | 0 | Refer Annexure - 1 |
| 3 | Working Capital | 0 | 0 | 9 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure - 1 |
| 4 | Loan Instalment | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | Refer Annexure - 2.8 |
| 5 | Income Tax | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 5 | 5 | 5 | Refer Annexure - 3.1 |
| 6 | Sub Total | 62 | 0 | 17 | 25 | 8 | 19 | 19 | 14 | 14 | 16 | 5 | Sum of A1 to A5 |
| С | NET CASHFLOW | -62 | 4 | 14 | 2 | 45 | 32 | 30 | 34 | 32 | 27 | 347 | |
| D | D INTERNAL RATE OF RETURN ON EQUITY INVESTMENT | | | | | | | | 35.73 | 0/0 | | | |

| | | | | | | ANN | IEXURE- | 6 | | | | | |
|----|------------------------|-----|-----|-----|--------|---------|-----------|----------|-----|-----|-----|-----|----------------------|
| | | | | | WIRE N | AIL MAI | NUFACT | JRING UI | VIT | | | | |
| | | | | | PRO | JECTED | BALANC | E SHEET | | | | | |
| | Year of Operation | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production | | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| No | Item | | · | | |] | n R.O.'00 | 0 | | | | | Remarks |
| Α | ASSETS EMPLOYED | | | | | | | | | | | | |
| 1 | Fixed Assets | | | | | | | | | | | | |
| a | Gross Fixed Assets | 81 | 81 | 81 | 81 | 81 | 92 | 97 | 97 | 97 | 108 | 108 | Refer Annexure - 2.7 |
| b | Preliminary expenses | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure- 2.7 |
| С | Acc. Depreciation | 0 | 10 | 20 | 31 | 41 | 51 | 61 | 71 | 82 | 92 | 102 | Refer Annexure - 2.7 |
| d | Net Fixed Assets | 97 | 71 | 61 | 50 | 40 | 41 | 36 | 26 | 15 | 16 | 6 | |
| 2 | Current Assets | | | | | | | | | | | | |
| a | Cash | 0 | 4 | 18 | 20 | 65 | 98 | 128 | 162 | 194 | 221 | 257 | Refer Annexure - 4 |
| b | Other Cur. Assets | 57 | 57 | 66 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | Refer Annexure - 1.7 |
| С | Total Cur. Assets | 57 | 61 | 84 | 102 | 148 | 180 | 210 | 244 | 276 | 303 | 339 | |
| 3 | Less: Cur. Liabilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 154 | 132 | 144 | 153 | 188 | 221 | 246 | 270 | 291 | 319 | 345 | |
| В | FINANCED BY | | | | | | | | | | | | |
| 1 | Equity | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | Refer Annexure - 1 |
| 2 | Statutory reserve | | 0 | 2 | 4 | 8 | 12 | 16 | 19 | 22 | 25 | 27 | |
| 3 | General reserves | 0 | -22 | -3 | 12 | 51 | 88 | 118 | 147 | 174 | 199 | 223 | Cu.NP-Cu.Divident |
| 4 | Other term loan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Refer Annexure - 2.8 |
| 5 | Institutional Finance | 58 | 58 | 50 | 42 | 33 | 25 | 17 | 8 | 0 | 0 | 0 | Refer Annexure - 2.8 |
| 6 | Bank Borrowings | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | Refer Annexure - 2.8 |
| | | 154 | 132 | 144 | 153 | 188 | 221 | 246 | 270 | 291 | 319 | 345 | |

| | ANNEXURE- 7 | | | | | | | | | | |
|----|-----------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | |
| | RATIO ANALYSIS | | | | | | | | | | |
| | Years of Operation | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Α | COST RATIOS | | | | | | | | | | |
| 1 | Raw Material / Total Sales | 51% | 51% | 51% | 51% | 51% | 51% | 51% | 51% | 51% | 51% |
| 3 | Utilities / Total Sales | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% |
| 4 | Factory wages / Total Sales | 12% | 10% | 16% | 14% | 14% | 14% | 15% | 15% | 15% | 15% |
| 5 | Prime Cost / Total Sales | 67% | 64% | 71% | 69% | 69% | 69% | 69% | 70% | 70% | 70% |
| 6 | Factory exp. / Total Sales | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| 7 | Factory Cost / Total Sales | 83% | 78% | 82% | 79% | 79% | 79% | 80% | 80% | 80% | 80% |
| 8 | Administrative exp. / Total Sales | 9% | 7% | 6% | 5% | 5% | 5% | 6% | 6% | 6% | 6% |
| 9 | Selling exp. / Total Sales | 6% | 5% | 5% | 4% | 4% | 4% | 4% | 5% | 5% | 5% |
| 10 | Finanace Cost / Total Sales | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 0% | 0% | 0% |
| 11 | Non-Cash exp. / Total Sales | 10% | 3% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| 12 | Total Cost / Sales | 108% | 94% | 96% | 91% | 91% | 92% | 92% | 93% | 93% | 94% |
| В | PROFITABILITY RATIOS | | | | | | | | | | |
| 1 | PBDIT / Sales | 3.0% | 10.1% | 7.4% | 11.9% | 11.4% | 10.9% | 10.4% | 9.9% | 9.4% | 8.9% |
| 2 | Operating profit / Sales | -2.1% | 6.0% | 4.0% | 9.1% | 8.7% | 8.2% | 7.8% | 7.3% | 6.9% | 6.4% |
| 3 | | -8.0% | 6.0% | 4.0% | 9.1% | 8.7% | 7.0% | 6.6% | 6.2% | 5.8% | 5.4% |
| 4 | PAT / Investment | -18.2% | 17.2% | 13.8% | 36.2% | 34.6% | 28.0% | 26.5% | 25.0% | 23.4% | 21.6% |

| | ANNEXURE- 8 | | | | | | | | | | | | |
|-------|------------------------------|-----------|------------|--------------------------|--|--|--|--|--|--|--|--|--|
| | WIRE NAIL MA | NUFACTURI | ING UNIT | | | | | | | | | | |
| | BREAK E | VEN ANALY | SIS | | | | | | | | | | |
| CN | T, | N 1 | N 6 | n 1 | | | | | | | | | |
| S.No. | Item In R.O. '000 | Year 1 | Year 6 | Remarks | | | | | | | | | |
| Α | FIXED COST | | | | | | | | | | | | |
| A 1 | | 32 | 60 | Refer Annexure - 2 | | | | | | | | | |
| | Production Wages | | | | | | | | | | | | |
| 2 | Factory Overhads | 1 | | Refer Annexure - 2 | | | | | | | | | |
| 3 | Misc. Factory Exp. | 4 | | Refer Annexure - 2 | | | | | | | | | |
| 4 | Admin. Expenses | 23 | | Refer Annexure - 2 | | | | | | | | | |
| 5 | Sales Expenses | 15 | | Refer Annexure - 2 | | | | | | | | | |
| 6 | Depreciation | 10 | | Refer Annexure - 2 | | | | | | | | | |
| 7 | Prelim. Expenses written off | 16 | | Refer Annexure - 2 | | | | | | | | | |
| 8 | Financing Cost | 4 | | Refer Annexure - 2 | | | | | | | | | |
| 9 | Income Tax | 0 | 6 | Refer Annexure - 2 | | | | | | | | | |
| 10 | Sub Total | 106 | 142 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| В | VARIABLE COST | | | | | | | | | | | | |
| 1 | Raw materials | 141 | 247 | Refer Annexure - 2 | | | | | | | | | |
| 2 | Utilities | 9 | 16 | Refer Annexure - 2 | | | | | | | | | |
| 3 | Misc. Expenses | 0 | 0 | | | | | | | | | | |
| 4 | Sub Total | 150 | 263 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| С | SALES | 274 | 480 | Refer Annexure - 3 | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| D | CONTRIBUTION | 124 | 216 | Difference C - B | | | | | | | | | |
| E | BREAK EVEN POINT | 86.1 | 65.7 | As % of Production | | | | | | | | | |
| | | 34.4 | | As % of Plant Capacity | | | | | | | | | |
| | | 74.4 | 40.0 | 215 /0 Of Frank Capacity | | | | | | | | | |
| F | CASH BEP | 64.9 | 61.0 | As % of Production | | | | | | | | | |
| | | 26.0 | 42.7 | As % of Plant Capacity | | | | | | | | | |

| | | ANNEXURE- | 9 | | | | | | | | |
|---|--------------------------------|------------|--------------------|---------------|-------|--|--|--|--|--|--|
| | WIRE NAIL | MANUFACTU | JRING UN | IT | | | | | | | |
| SENSITIVITY ANALYSIS (IRR FOR 10 YEARS) | | | | | | | | | | | |
| | | Projection | | Change in One | | | | | | | |
| S.No. | Item | No Change | Variable at a Time | | | | | | | | |
| | | | | | | | | | | | |
| A | VARIABLE | | Volume | R. M | Sales | | | | | | |
| | | | Nos | Cost | Value | | | | | | |
| | Value- Original | | | | | | | | | | |
| В | PESSIMISTIC | | | | | | | | | | |
| | Change | | -5% | 5% | -5% | | | | | | |
| | | | | | | | | | | | |
| С | OPTIMISTIC | | | | | | | | | | |
| | Change | | 5% | -5% | 5% | | | | | | |
| D | I R R - PESSIMISTIC PROJECTION | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | I R R on Investment | 22.6 | 18.1 | 17.5 | 12.6 | | | | | | |
| 2 | I R R on Equity | 35.7 | 27.5 | 26.4 | 18.3 | | | | | | |
| Е | I R R - OPTIMISTIC PROJECTION | | | | | | | | | | |
| 1 | I R R on Investment | 22.6 | 27.0 | 27.7 | 32.5 | | | | | | |
| | | | | | · | | | | | | |

| ANNEXURE- 10 | | | | | | | | | | | | | |
|------------------------------|-----------------------------|-------------|------|------|------|------|------|------|------|------|-----|-----|--|
| WIRE NAIL MANUFACTURING UNIT | | | | | | | | | | | | | |
| DEBT SERVICE COVERAGE RATIO | | | | | | | | | | | | | |
| | Years of Operation | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Production in (%) | | 40% | 50% | 60% | 70% | 70% | 70% | 70% | 70% | 70% | 70% | |
| | Nos | 000 | | | | | | | | | | | |
| No | Item | In R.O.'000 | | | | | | | | | | | |
| 1 | Profit after tax | | -22 | 21 | 17 | 43 | 41 | 34 | 32 | 30 | 28 | 26 | |
| 2 | Depreciation | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| 3 | Prelimnery exp. Written off | | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | Interest | | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | |
| 5 | Total | | 8 | 35 | 30 | 57 | 55 | 46 | 44 | 42 | 40 | 38 | |
| | | | | | | | | | | | | | |
| 1 | Annual repayment | | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | |
| 2 | Interest | | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | |
| 3 | Total | | 4 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 2 | 2 | |
| | D.S.C.R | | 2.16 | 2.86 | 2.56 | 4.92 | 4.83 | 4.20 | 4.11 | 4.01 | 20 | 19 | |
| | WT. AVERAGE D.S.C.R | 3.83 | | | | | | | | | | | |