

# Cordage & Ropes Markets

# 3,733 <u>Companies</u>

# 200 Countries Worldwide



Since 1983



www.datagroup.org



Cordage & Ropes



The Market report is an extract of the main database and provides a number of limited datasets for each of the countries covered. For users needing more information, detailed data on Cordage & Ropes is available in several Editions and Database versions. Users can order (at a discount) any other Editions, or the full Database version, as required from the After-Sales Service or from any Dealer.

This research provides Market data for Cordage & ropes.

# Contents

| Market Report  | 4  |
|--|----|
| Market Data in US\$                                    | 4  |
| Report Description                                     | 6  |
| Contents   | 10 |
| Countries Covered                                      | 13 |
| Market Notes & Definitions                             | 14 |
| Financial Notes & Definitions                          |    |
| Industry Norms Definitions                             | 25 |
| Company Targets  | 27 |
| Procurement & Input Data                               |    |
| Sales Data   |    |
| Trade Buyers & End User Data                           |    |
| Survey Data  |    |
| Corporate Data   |    |
| Supplementary Data                                     |    |
| Database Editions                                      |    |
| Upgrade to the full Database Edition at a reduced cost | 35 |
| Database Editions                                      |    |
| Editions available                                     |    |
| World Database   |    |
| Regional Database                                      |    |
| Country Database                                       |    |
| Country & City Database                                |    |

| Markets, Products & Services                  |    |
|---|----|
| Products covered                              |    |
| Geographic Coverage                           | 40 |
| Financial Data                                | 41 |
| General Contents                              | 42 |
| Database Edition Market Research Contents     | 43 |
| Databases & Structures                        | 43 |
| Spreadsheets                                  | 45 |
| Chapters                                      | 45 |
| Countries                                     | 47 |
| Methodology                                   | 50 |
| Deliverables                                  | 50 |
| About this Database                           | 50 |
| Real Time Support                             | 50 |
| Toolkits                                      | 51 |
| Proprietary Software package compatibility    | 52 |
| Resource Web                                  | 52 |
| Research & Survey Methodology Analysis        | 53 |
| Appendix 1 : Regional Report country coverage | 54 |
| Appendix 2 : About the After-Sales Service    | 55 |
| Modular Research                              | 55 |
| Database Compatibility                        | 56 |

# Market Report

# Cordage & Ropes

Reference: W0283\_L

This Market report has 806 pages. Updated monthly.

Years covered: Historic data for the past 7 years, and Forecast data for the next 7 years.

Cost: \$950

Delivery: 24 hours as a downloaded PDF file, or shipped as a CD-ROM.

# Market Data in US\$

This report covers the following Markets:-

Market data is given in US\$ for each Country, by each Product listed below, by each Year: Historic data for the past 7 years, and Forecast data for the next 7 years.

#### **CORDAGE + ROPES**

- 1. Cordage & ropes
- 2. Cables & lines, textile, industrial
- 3. Cargo slings, textile
- 4. Clothes lines, textile
- 5. Cords & lines, glass fibre
- 6. Cords for blinds
- 7. Cords for gaskets
- 8. Cords for sashes & pictures
- 9. Cords for the clothing industry
- 10. Cords for the textile industry
- 11. Cords, braided
- 12. Cords, endless
- 13. Cords, glass fibre reinforced
- 14. Cords, impregnated
- 15. Cords, man-made fibre
- 16. Cords, metallised
- 17. Cords, natural fibre
- 18. Cords, paper
- 19. Cords, parachute & similar
- 20. Cords, plastic or latex coated
- 21. Cords, silk & cotton waste
- 22. Ladders, rope
- 23. Lines, textile, rocket
- 24. Lines, textile, tracing
- 25. Ropes & halters for animals
- 26. Ropes for climbing & mountaineering
- 27. Ropes, braided
- 28. Ropes, coated
- 29. Ropes, handrail
- 30. Ropes, impregnated
- 31. Ropes, man-made fibre
- 32. Ropes, marine
- 33. Ropes, natural fibre

- 34. Ropes, restraining & lashing for cargo/freight
- 35. Ropes, stay, insulating, for radio masts & towers
- 36. Ropes, steel cable core
- 37. Ropes, tarred
- 38. Ropes, textile, transmission
- 39. Slings, rope
- 40. Tow ropes
- 41. Cordage & ropes, nsk

## NAICS / SIC coded reports and databases

This is a Market & Company database which is designed to be compatible with U.S. government databases.

For NAICS / SIC coded reports and databases, the report structures are an analogue of U.S. Department of Commerce / U.S. Census databases, but in a worldwide context.

For a full explanation of the NAICS coding system see: http://www.census.gov/eos/www/naics/

These Materials, Products, Services & Revenue Lines codes and definitions are determined by the U.S. Government agencies.

# **Report Description**

## Cordage & Ropes

## **CORDAGE + ROPES MARKET WORLD REPORT**

The Cordage & Ropes Market World Summary Report gives Market Data for 42 Products & Services in 100 countries, by each (Cordage & ropes) Product, by Time series: Historic for the past 7 years, and Forecasts for the next 7 years.

The Cordage & Ropes Market World Report PDF Edition covers 100 significant countries individually; in addition this report also contains a World Total, and 9 Regional Totals: Canada and the USA, Central America, South America, Europe, Eurasia, Middle East, Africa, Asia, and Oceania.

MARKET DATA in US\$ by Country by each of 42 Markets / Products / Services by Year: Historic for the past 7 years, and Forecasts for the next 7 years.

FINANCIAL DATA for each Country for each Financial and Balance Sheet item by each year: Historic for the past 7 years, and Forecasts for the next 7 years.

INDUSTRY DATA for each Country for each Industry item by period (Previous / Current / Forecast).

The data is based on an analysis of 3,733 Companies/Organisations worldwide.

806 pages. This database is updated monthly. Upgrade to database editions available.

## **Overview**

## **CORDAGE + ROPES MARKET WORLD REPORT**

The Cordage & Ropes Market World Summary Report gives Market Data for Products & Services in 100 countries, by each Product, by 2 Time series: Historic for the past 7 years, and Forecasts for the next 7 years.

This report is designed to provide hard tabular data.

Whereas the main database for Cordage & Ropes covers over 200 countries, this PDF Summary Edition usually covers 100 appropriate countries, including:

Algeria, Argentina, Armenia, Australia, Austria, Azerbaijan, Bahrain, Bangladesh, Belarus, Belgium, Bolivia, Bosnia & Herzegovina, Botswana, Brazil, Bulgaria, Cambodia, Canada, Chile, Colombia, Costa Rica, Croatia, Cuba, Cyprus, Czech Republic, Denmark, Ecuador, Egypt, El Salvador, Estonia, Finland, France, French Guiana, Georgia, Germany, Ghana, Greece, Guyana, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Ireland, Israel, Italy, Jamaica,

Japan, Kazakhstan, Kenya, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Lithuania, Luxembourg, Malawi, Malaysia, Mexico, Morocco, New Zealand, Nicaragua, Nigeria, Norway, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Romania, Russia, Saudi Arabia, Serbia & Montenegro, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Suriname, Sweden, Switzerland, Taiwan, Tanzania, Thailand, The Netherlands, Tunisia, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States, Uruguay, Uzbekistan, Venezuela, Vietnam, Zambia.

In addition to data on individual countries, this report also contains a World Total, and 9 Regional Totals: Canada and the USA, Central America, South America, Europe, Eurasia, Middle East, Africa, Asia, and Oceania.

MARKET DATA - in US\$, by Country, by (Cordage & ropes) Products / Services, by Year: Historic for the past 7 years, and Forecasts for the next 7 years.

## **CORDAGE + ROPES**

- 1. Cordage & ropes
- 2. Cables & lines, textile, industrial
- 3. Cargo slings, textile
- 4. Clothes lines, textile
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- 19. Cords, parachute & similar
- 20. Cords, plastic or latex coated
- 21. Cords, silk & cotton waste
- 22. Ladders, rope
- 23. Lines, textile, rocket
- 24. Lines, textile, tracing
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- 36. Ropes, steel cable core
- 37. Ropes, tarred
- 38. Ropes, textile, transmission
- 39. Slings, rope
- 40. Tow ropes
- 41. Cordage & ropes, nsk

FINANCIAL DATA for each Country, for each Balance Sheet item: Historic for the past 7 years, and Forecasts for the next 7 years.

Balance Sheet: Total Sales, Domestic Sales, Exports, Pre-tax Profit, Interest Paid, Non-trading Income, Operating Profit, Depreciation: Structures, Depreciation: Plant & Equipment, Depreciation: Miscellaneous Items, Total Depreciation, Trading Profit, Intangible Assets, Intermediate Assets, Fixed Assets: Structures, Fixed Assets: Plant & Equipment, Fixed Assets: Miscellaneous Items, Fixed Assets, Capital Expenditure on Structures, Capital Expenditure on Plant & Equipment, Capital Expenditure on Vehicles, Capital Expenditure on Data Processing Equipment, Capital Expenditure on Miscellaneous Items, Total Capital Expenditure, Retirements: Structures, Retirements: Plant & Equipment, Retirements: Miscellaneous Items, Total Retirements, Total Fixed Assets, Finished Product Stocks, Work in Progress as Stocks, Materials as Stocks, Total Stocks / Inventory, Debtors, Total Maintenance Costs, Services Purchased, Miscellaneous Current Assets, Total Current Assets, Total Assets, Creditors, Short Term Loans, Miscellaneous Current Liabilities, Total Current Liabilities, Net Assets / Capital Employed, Shareholders Funds, Long Term Loans, Miscellaneous Long Term Liabilities, Workers, Hours Worked, Work in each Quarter, Total Employees, Raw Materials Cost, Finished Materials Cost, Fuel Cost, Electricity Cost, Total Input Supplies / Materials & Energy Costs, Payroll Costs, Wages, Directors Remunerations, Employee Benefits, Employee Commissions, Total Employees Remunerations, Sub Contractors, Rental & Leasing: Structures, Rental & Leasing: Plant & Equipment, Total Rental & Leasing Costs, Maintenance: Structures, Maintenance: Plant & Equipment, Communications Costs, Miscellaneous Expenses, Sales Personnel Variable & Commission Costs, Sales Expenses & Costs, Sales Materials Costs, Total Sales Costs, Distribution Fixed Costs, Distribution Variable Costs, Warehousing Fixed Costs, Warehousing Variable Costs, Physical Handling Fixed Costs, Physical Handling Variable Costs, Physical Process Fixed Costs, Physical Process Variable Costs, Total Distribution & Handling Costs, Mailing & Correspondence Costs, Media Advertising Costs, Advertising Materials & Print Costs, POS & Display Costs, Exhibition & Events Costs, Total Advertising Costs, Product Returns & Rejection Costs, Product Installation & Re-Installation Costs, Product Breakdown & Post Installation Costs, Product Systems & Configuration Costs, Product Service & Maintenance Costs, Customer Problem Solving & Customer Complaint Costs, Total After-Sales Costs, Total Marketing Costs, New Technology Expenditure, New Production Technology Expenditure, Total Research & Development Expenditure, Total Operational & Process Costs, Debtors within Agreed Terms, Debtors Outside Agreed Terms, Un-recoverable Debts.

Financial Margins & Ratios: Return on Capital, Return on Assets, Return on Shareholders Funds, Pre-tax Profit Margins, Operating Profit Margin, Trading Profit Margin, Return on Investment, Assets Utilisation (given as a ratio of Sales to Total Assets), Sales as a ratio of Fixed Assets, Stock Turnover (Sales as a ratio of Stocks), Credit Period, Creditors Ratio (given as Creditors divided by Sales times 365 days), Default Debtors given as a Ratio of Total Debtors, Un-Recoverable Debts given as a Ratio of Total Debts, Working Capital / Sales, Materials & Energy Costs as a % of Sales, Added Value, Investment as a Ratio of Added Value, Value of Plant & Equipment as a % of Sales, Vertical Integration (Value Added as a % of Sales), Research &

Development Investment as a % of Sales, Capital Expenditure Investment as a % of Sales, Marketing Costs as a % of Sales, Current Ratio (Current Assets as a ratio of Current Liabilities), Quick Ratio, Borrowing Ratio (or Total Debt as a ratio of Net Worth), Equity Ratio (Shareholders Funds as a ratio of Total Liabilities), Income Gearing, Total Debt as a ratio of Working Capital, Debt Gearing Ratio (Long Term Loans as a ratio of Net Worth), Average Remuneration (all employees - full & part-time), Profit per Employee, Sales per Employee, Remunerations / Sales, Fixed Assets per Employee, Capital Employed per Employee, Total Assets per Employee, Value of Average Investment per Employee, Value Added per Employee, Materials Costs as a % of Sales, Wage Costs as a % of Sales, Payroll & Wages as a Ratio to Materials, Variable Costs as a % of Sales, Fixed Costs as a % of Sales, Fixed Costs as a Ratio of Variable Costs, Distribution Costs as a % of Sales, Warehousing Costs as a % of Sales, Physical Costs as a % of Sales, Fixed as a Ratio of Variable Distribution Costs, Fixed as a Ratio of Variable Warehousing Costs, Fixed as a Ratio of Variable Physical Costs, Fixed as a Ratio of Variable Total Distribution & Handling Costs, Product Returns & Rejections Costs as a % of Sales, Product Installation & Associated Costs as a % of Sales, Product Breakdown & Associated Costs as a % of Sales, Product Systems & Associated Costs as a % of Sales, Product Service & Associated Costs as a % of Sales, Customer Complaint & Associated Costs as a % of Sales, Stock Work in Progress & Materials as a Ratio of Finished Products, Stock Materials as a Ratio of Work in Progress, Unrecoverable Debts as a Ratio of Total Debt, Un-recoverable Debts as a Ratio of Debts Within Agreed Terms, Total Sales Costs as a % of Sales, Total Distribution & Handling Costs as a % of Sales, Total Advertising Costs as a % of Sales, Total After-Sales Costs as a % of Sales, Total Customer Compensation Costs as a % of Sales, Total Variable Marketing Costs as a % of Sales, Total Fixed Marketing Costs as a % of Sales, Total Fixed Marketing Costs as a Ratio of Total Variable Marketing Co, Variable Sales Personnel Costs as a Ratio of Marketing Costs, Variable Distribution & Handling Costs as a Ratio of Marketing Costs, Variable Advertising Costs as a Ratio of Marketing Costs, Variable After-Sales Costs as a Ratio of Marketing Costs, Sales Personnel Variable Costs as a Ratio of Sales, Sales Personnel Variable Costs as a Ratio of Debtors, Sales Personnel Variable Costs as a Ratio of Un-Recoverable Debtors, Exports as a % of Sales, \$ Hourly Pay Rate, \$ Hourly Wage Rate, Capital Employed.

## INDUSTRY DATA (Cordage & ropes, by country, by year):

OEM & Manufacturers Market Level, Wholesale & Distributor Market Level, Retailer & Added Value Retailer Market Level, End User & Consumer Market Level, Discounted & Promotional Market Level, Plant & Equipment Average Annual Investment, Product Prices / Market Average Index, New Products Introduction Index, Relative output of Products of a Superior Quality Index, Index of Comparative Salesforce & Selling Expenditure, Index of Comparative Advertising Expenditure, Index of Comparative General Promotional Expenditure, Product Adoption Rates, Product Sales Conversion Rates, Average Annual Sales Growth Rate, Capacity Utilization as a measure of Standard Capacity, Standardized Products & Services Index, Relative Employee Compensation Index, Instable Market Share as an Index of Total Market Share, Relative Forward Integration Index, Plant & Equipment Investment greater than Depreciation, Plant & Equipment Investment Equal to Depreciation, Plant & Equipment Investment Less than Depreciation, Plant & Equipment Investment - Unallocated, Plant & Equipment in Use within the range 0-3 years, Plant & Equipment in Use 3-6 years, Plant & Equipment in Use 6-9 years, Plant & Equipment in Use over years 9 old / Unallocated, Supplier Concentration = 8 Largest, 20 Largest, 50 Largest, Supplier Concentration Unspecified / Unallocated, Immediate Wholesale & Retail Customers, Immediate OEM & Manufacturing Customers, Immediate Consumer & End User Customers, Immediate Non-Specific Customers / Unallocated, Enterprises within the Range 1-19 Employees, Enterprises 20-99 Employees, Enterprises 100+ Employees, Enterprises within Unspecified / Unallocated Employee Ranges, Buyer Age Profile in the range 0-19 Years, Buyer Age Profile 20-24 Years, Buyer Age Profile 25-34 Years, Buyer Age Profile 35-44 Years, Buyer Age Profile 45-54

Years, Buyer Age Profile 55-64 Years, Buyer Age Profile 65+ / Unallocated Years, Buyer Profile in the AB Social Group, Buyer Profile C1 Social Group, Buyer Profile C2 Social Group, Buyer Profile DE / Unallocated Social Group, End User Age Profile in the range 0-19 Years, End Users 20-24 Years, End Users 25-34 Years, End Users 35-44 Years, End Users 45-54 Years, End Users 55-64 Years, End Users 65+ / Unallocated Years, End User Profile in the AB Social Group, End Users C1 Social Group, End Users DE / Unallocated Social Group.

COMPANIES: Data is available on the 3,733 individual Companies or Organisations (Cordage & ropes).

Hard tabular data on 42 Markets/Products/Services in 100 Countries: 806 pages. This database is updated monthly.

UPGRADE:

The Cordage & Ropes Market World Report + Database is available in many editions.

A World Database Edition of this report is available which covers about 200 countries, by 42 Purchasing / Expenses Products from 1997 with a forecast to 2046 This is a very large database with 2189 pages, 9877 spreadsheets, 9780 database tables, 528 illustrations. The database contains a number of Access databases which are an analogue of U.S. Government databases, and have the same database structures, datasets, field names, et al.

Product Volume or Unit data is available on request. Data on the individual 3,733 Supply / Distribution / Purchasing Companies or Organisations is available at any time (during 12 months) from the After-Sales Service.

## Contents

## **CORDAGE + ROPES MARKET REPORT**

The Cordage & Ropes Market World Summary Report covers:

TIME SERIES: Historic: Past 7 Years - by each year & Forecasts: Next 7 Years - by each year, by 42 Products & Market Sectors.

## TABLE OF CONTENTS

Report Specifications 42 Markets/Products/Services 100 Countries

World Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Canada & USA Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Central America Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms South America Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Europe Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Europe Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Eurasia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms

Middle East Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Africa Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Asia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Oceania Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms

Algeria Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Argentina Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Australia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Austria Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Azerbaijan Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Bahrain Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Bangladesh Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Belarus Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Belgium Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Nigeria Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Norway Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Pakistan Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Panama Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Paraguay Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Peru Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Philippines Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Poland Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Portugal Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Romania Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Russia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Saudi Arabia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Serbia & Montenegro Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms

Singapore Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Slovakia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Slovenia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms South Africa Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms South Korea Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Spain Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Sri Lanka Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Suriname Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Sweden Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Switzerland Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Taiwan Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Tanzania Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Thailand Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Tunisia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Turkey Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Uganda Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Ukraine Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms United Arab Emirates Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms

United Kingdom Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms United States Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Uruguay Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Uzbekistan Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Venezuela Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms

Vietnam Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms Zambia Historic + Forecast: Market US\$ Million : Financials & Margins : Industry Norms

Market Notes & Definitions Financial Notes & Definitions Industry Norms Definitions

Coupon: To upgrade to a Database Edition at a reduced cost.

Database Editions available Markets & Products Products covered Geographic Coverage Financial data General Contents Database Edition Market Research Contents Databases & Structures Spreadsheets Chapters Countries

Methodology Deliverables Toolkits Proprietary Software package compatibility Resource Web The Entry Level product Real Time Support Research & Survey Methodology Analysis

Appendix 1: Regional Report country coverage Appendix 2: About the After-Sales Service How to order After-Sales Services Modular Research

- 1. Market Research
- 2. Distribution Channels & End Users Data
- 3. Survey Data
- 4. Corporate Data
- 5. Additional Data

Database Products supported by the After-Sales Service.

# **Countries Covered**

Peru Algeria Greece Argentina Guyana Philippines Australia Honduras Poland Austria Hona Kona Portugal Azerbaijan Hungary Romania Bahrain Iceland Russia Bangladesh India Saudi Arabia Belarus Indonesia Serbia & Montenegro Belgium Iran Singapore Bolivia Ireland Slovakia Bosnia & Herzegovina Israel Slovenia Botswana Italy South Africa Brazil Jamaica South Korea Bulgaria Japan Spain Kazakhstan Cambodia Sri Lanka Canada Kenya Suriname Chile Kuwait Sweden Colombia Kyrgyzstan Switzerland Costa Rica Laos Taiwan Tanzania Croatia Latvia Cuba Lebanon Thailand Cyprus The Netherlands Lithuania **Czech Republic** Luxembourg Tunisia Denmark Malawi Turkev Ecuador Malavsia Uganda Egypt Mexico Ukraine El Salvador Morocco United Arab Emirates Estonia New Zealand United Kingdom Finland Nicaragua **United States** Nigeria France Uruguay Uzbekistan French Guiana Norway Pakistan Venezuela Georgia Germany Panama Vietnam

Paraguay

## Data Caveat

Ghana

The report databases are designed to give a common definition, unit of measure and quantification of markets in over 200 countries. The reports rely on data collection at various levels of the product flow; this effectively means, the producer, the distribution channels and the end user or consumers. This data is then correlated with any national and international statistical data produced by official agencies. Unfortunately, product flow data gathering in some countries is difficult, and furthermore the official statistical data is both inaccurate and sparse. In such circumstances, in some countries, we have to flag a Data Caveat as a warning. What this means is that in some countries the data is not sufficiently verifiable for statistical purposes and in those cases the data may not be presented.

Zambia

# Market Notes & Definitions

#### ALL MARKET DATA FIGURES ARE IN REAL TERMS : US\$

REAL TERMS are figures excluding the effects of inflation, thus the Forecasts and figures given can be readily converted into units or volume. This is done by applying the average prices for the base year and dividing the figures by this price for all years. Thus it is possible to easily ascertain both historic and forecasted product volume.

A "most recent published accounts" base is used because most company accounts are historic and thus clients will be able to compare the figures given in this report with their own company figures without the need for conversion or the need for inflators or multiplying factors.

#### AVERAGE SALES PRICES ARE NOT APPROPRIATE OR APPLICABLE TO THIS DATABASE

The effect of using Real Terms figures is that the forecasted figures will be depressed, as they do not include inflation, and figures from former years (i.e. before the Base Year) will be increased.

The Current or Base Year is at the convergent point as is the Current cost. This Current Cost usually increases because of the effects of inflation. The Real Terms figures do not include the effects of inflation and thus only increases or decreases if the actual product volume or units increase or decrease. In this way it is possible to evaluate the market and other figures more realistically.

The figures and the Trend figures represent an overall median probability trend line that is plotted to give the most probable course amongst the annual forecast scatter. Thus, the figures do not reflect year-on-year depressions and peaks in absolute terms, but instead represents a year-on-year modified trend line. The various SCENARIOS provided in the database reflect the differential forecasts specific to the factors being forecast.

The U.S. government uses the term Constant dollars (or "real" dollars) and this is defined thus: Output values converted to a base price level, calculated by dividing current (or actual) dollars by a deflator. Use of constant dollars eliminates the effects of price changes between the year of measurement and the base year and allows calculation of real changes in output.

## HISTORIC & FORECAST DATA TRANSITION PERIODS

The HISTORIC DATA covers the last 7 years to the current year, and the MEDIAN FORECAST DATA series covers the next 7 years. There is always a transition period; which is in fact during the last two quarters, i.e. whilst the historic data is being collated. In addition the data given for the next two quarters is considered an estimate rather than a forecast. Thus the 12 month period around the database output date is an estimate.

## THE MARKET ENVIRONMENT

There are four basic issues to investigate when considering the market environment:

| 1. Market Growth    | 3. Market/s Serviced           |
|---------------------|--------------------------------|
| 2. Market Structure | 4. Customer & End User Factors |

1. MARKET GROWTH (both short-term and medium term) is fully analysed in other sections and further analysed in these sections. The importance of this factor is of course self-evident and thus not requiring further explanation.

2. THE MARKET STRUCTURE is very critical for profitability. The nature of the market, the location of the Marketplace, the customer base and the supplier structure is fully provided in several other sections of this study and therefore no further discussion is necessary.

3. MARKET SERVICED is the term used to denote the function between the product/s and services offered by companies and the particular market sector the marketing effort reaches. In addition, there is the MARKET AVAILABILITY to consider as this represents the 'real market' available to any particular company or supplier.

## TOTAL AVAILABLE MARKET



Thus the Market Area Serviced is the sector of the market for which companies are offering a suitable product or service and Available Markets the sector of the market reached by a company's marketing effort. The areas marked as the overlap in the Market Area Serviced, i.e. the market sector for which companies are offering suitable product/s or services and which may theoretically be reached by a company's marketing activities, but of which part is controlled by either other Purchasers or Suppliers. The Market Availability is the total market perceived by the total Purchaser universe; however the Available Markets the market which is actually available to individual Suppliers.

The Market Area Serviced is the true market in terms of product/s and services, however parts of this market may be difficult or impossible to attain due to the control exerted by either the controlling Purchasers or Suppliers.

## **HISTORIC DATA & TIME SERIES**

#### Last 7 Years to Current Year

This standard HISTORIC format is the most popular time series demanded by readers. Many readers feel that it is more important to know what is likely to happen in the recent past rather that what has transpired in the long-term past. The HISTORIC DATA in the database covers the years from 1997 to the Current Year.

## FORECAST DATA & TIME SERIES : MEDIAN MARKET FORECAST

#### From the Current Year to the next 7 Years

The MEDIAN FORECAST DATA covers the next 7 years. This standard FORECAST format is the most popular format demanded by readers.

We can of course provide readers with other data on long-range forecast data and this is done as part of the After-Sales Service.

1. ALL FIGURES IN THIS SECTION ARE IN REAL TERMS: Current Year BASE

REAL TERMS are prices excluding the effects of inflation, thus the Market figure given can be readily converted into units or volume. This is done by applying the average sales prices for the Current Year and dividing the Market figures by this price for all years. Thus it is possible to easily ascertain previous and forecasted product volume.

A base year is used because company accounts are historic and thus readers will be able to compare the figures given in this volume with their own figures without the need for conversion or the need for inflators or multiplying factors.

The effect of using Real Terms figures is that the forecasted figures will be depressed, as they do not include inflation, and figures from former years will be increased.

2. The Market figures and the Trend figures represent an overall median probability trend line which is plotted to give the most probable course amongst the annual market forecast scatter. Thus the figures do not reflect year-on-year depressions and peaks in absolute terms, but instead represents a year-on-year modified trend line.

3. All analyses are based on correlations of the results of the Surveys of Suppliers, Distribution and Customers. Thus, for example, an analysis of Market Sectors will gain data firstly from the End User Surveys and secondly confirmations and correlations will be gained from the Surveys of Suppliers / Distributors. This in the opinion of the publishers is a very accurate method and is far superior than, for example, that which is used in the compilation of the majority of published governmental statistics.

4. All figures given in this volume refer only to the product/s covered and not to any other product or systems which may be connected or associated with the products covered.

5. The TREND figures given in the Industry section of this volume refers to the average year-on-year change in the period specified.

6. The YEAR-ON-YEAR TREND figures given in this volume refer to the average year-on-year change in the period specified

The AVERAGE GROWTH TRENDS figures refer to the long term trends over the period.

Thus the actual Trend is given by a year-on-year figure and the long-term Trends are given as a Real Terms Forecast.

## **DATABASE LONG-RANGE DATA & TIME SERIES**

#### From 1972 until the Next 28 Years

The database contains a LONG-RANGE HISTORIC time series which covers the years from 1972. This is the standard long range HISTORIC format. We provide readers with this time series (on request) to enable long range regressional analysis for forecasting models which require an extended time period analysis.

The database contains a LONG-RANGE FORECAST time series which covers a period for the next 28 years. This is the standard long range forecast format and is usually used for planning production plant / capital projects, macro-economic trends and demographics data.

We can of course provide readers with other data on long-range historic and forecast data and this is done as part of the After-Sales Service.

## **EXCHANGE RATES + PURCHASING POWER PARITY**

The report database and forecasting models do not use current market or bank exchange rates as these can be deceptive. The rates used are those of the base year in addition to a number of real value factors which reflect the actual or forecasted value of the product in each of the national markets over the period 1974 to 2028. A simple conversion of local currency into U.S. Dollars or any other national currency cannot be used to adequately represent products or services.

The report database and forecasting models are attempting to show the relative values of products or markets free from any extraneous effects of currency movements or government fiscal policy which arbitrarily alter currency exchange rates. Thus the currency calculations and data in the database are indicating relative unit values or the relative cost of the product or service in the national market.

We do not indicate the Currency Conversion Rate that you can use with any calculations and readers will have to apply their own discretion in this respect. Beware however, such calculations involving currency conversions can be artificial and spurious and do not reflect real values of either products or markets.

The diagram shows the problem of relating Product or Market Values or Costs in Real Terms (+), the National Currency Value in Real Terms (i.e. excluding the effects of Inflation) and the Value of another currency (the Converted Currency, given as \$) in relation to the National Currency.

## **PRODUCT PARITY**

The basis of the data provided is to allow users to produce business plans and forecasting models across national and statistically diverse boundaries. Thus it is necessary to adopt a standard product definition which can be then applied across national borders. The product definition chosen is the U.S. government's NAICS product codes (and the previous SIC product codes where relevant). The problem is to apply these product definitions across the national boundaries. The U.S. government stubbornly clings to the imperial system of measurement and this further complicates the matter.

The use of PRODUCT PARITY is intended to allow trans-national business planning and forecasting (however readers can request data based on national product definitions), and in general terms Product Parity means that equivalent products are compared even where the exact technical specification, or quantification, of the product is not the same. Thus a 12 fluid ounce liquid container as defined in the (Imperial measuring system) NAICS product codes is quantitatively equivalent to 35.5ml, however for the purposes of Product Parity it will be the equivalent of a 33ml liquid container in countries with a Metric measuring system. Similarly in non-Metric markets a 16 ounces or 1 pound Imperial measure, whilst actually equivalent to 454 grams, will equate to a 450 gram product in Metric measure markets.

For many products this 'Product Parity' will be based on the 'Purchasing Parity unit costs' -v- 'product performance', rather than 'unit cost' -v- 'technical specifications'. This is because national markets impose different technical specifications on products which essentially fulfil the same customer requirement, and thus these products have a Product Parity which can be used for uniform, cross border, business planning and forecasting.

# **Financial Notes & Definitions**

## **HISTORIC & FORECAST FINANCIAL DATA TRANSITION PERIODS**

The HISTORIC DATA covers the last 7 years, and the FORECAST DATA series covers the next 7 years. There is always a transition period; which is in fact during the last two quarters, i.e. whilst the historic data is being collated. In addition the data given for the next two quarters is considered an estimate rather than a forecast. Thus the 12 month period around the database output date is an estimate.

For the various Financial Scenarios it must be assumed that the Scenario factor or strategy being considered will not exert an impact on the forecast immediately and will not become evident for some time after its inception. Whilst the forecasting models used operates on a monthly time scale and does also take account of other temporal factors (for example seasonality of demand, industry accounting periods, stock taking scheduling, et al) it would be too pedantic to express the transition year in greater detail. Therefore in the forecast data a straight line plot is produced between the BASE year, through the transition period to the first full forecast year.

The data in this section derives data from 3,733 worldwide companies and organisations (Suppliers and Distribution Channel members).

ALL FINANCIAL DATA FIGURES ARE IN REAL TERMS

## FINANCIAL BALANCE SHEETS

| Row | TITLE  | LEGEND  |
|-----|--|---------|
|     | TOTAL SALES  |         |
| 1   | The TOTAL SALES figures given are synchronized with the Median Market Forecast and not to the individual Market Scenario Forecasts. This ensures that one can use a standardized market measure to compare the Financial data and not have the additional complication of interpreting the financial data in relation to the market scenarios. |         |
| 2   | DOMESTIC SALES   | % Sales |
| 3   | EXPORTS  | % Sales |
| 4   | PRE-TAX PROFIT   | % Sales |
| 5   | INTEREST PAID  | % Sales |
| 6   | NON-TRADING INCOME   | % Sales |
| 7   | OPERATING PROFIT   | % Sales |
| 8   | DEPRECIATION: STRUCTURES   | % Sales |
| 9   | DEPRECIATION: PLANT AND EQUIPMENT  | % Sales |
| 10  | DEPRECIATION: MISCELLANEOUS ITEMS  | % Sales |
| 11  | TOTAL DEPRECIATION   | % Sales |
| 12  | TRADING PROFIT   | % Sales |
| 13  | INTANGIBLE ASSETS  | % Sales |
| 14  | INTERMEDIATE ASSETS  | % Sales |
| 15  | FIXED ASSETS: STRUCTURES   | % Sales |
| 16  | FIXED ASSETS: PLANT AND EQUIPMENT  | % Sales |
| 17  | FIXED ASSETS: MISCELLANEOUS ITEMS  | % Sales |
| 18  | FIXED ASSETS   | % Sales |
| 19  | CAPITAL EXPENDITURE ON STRUCTURES  | % Sales |
| 20  | CAPITAL EXPENDITURE ON PLANT AND EQUIPMENT   | % Sales |
| 21  | CAPITAL EXPENDITURE ON VEHICLES  | % Sales |
| 22  | CAPITAL EXPENDITURE ON DATA PROCESSING EQUIPMENT   | % Sales |
| 23  | CAPITAL EXPENDITURE ON MISCELLANEOUS ITEMS   | % Sales |

| Row         ITTLE         Display           1111         TOTAL CAPITAL EXPENDITURE         % Sales           25         RETIREMENTS: STRUCTURES         % Sales           26         RETIREMENTS: STRUCTURES         % Sales           27         RETIREMENTS: MISCLANEOUS ITEMS         % Sales           28         TOTAL RETIREMENTS         % Sales           29         TOTAL RETIREMENTS         % Sales           20         FINISHED PRODUCT STOCKS         % Sales           20         FINISHED PRODUCT STOCKS         % Sales           21         WORK IN PROGRESS AS STOCKS         % Sales           22         MATERIALS AS STOCKS         % Sales           23         TOTAL STOCKS & INVENTORY         % Sales           24         DEBTORS         % Sales           25         MISCELLANEOUS CURRENT LASETS         % Sales           26         TOTAL SASETS         % Sales           27         TOTAL ASETS         % Sales           28         OREDTORS         % Sales           29         SHORT TERM LABULTIES         % Sales           24         NET ASETS / CAPITAL EMPLOYED         % Sales           24         NET ASETS / CAPITAL EMPLOYED         % Sales | Bow |   |             |
|---|-----|---|-------------|
| 25     RETIREMENTS: STRUCTURES     % Sales       26     RETIREMENTS: PLANT AND EQUIPMENT     % Sales       27     RETIREMENTS: MISCELLANEOUS ITEMS     % Sales       28     TOTAL RETIREMENTS     % Sales       29     TOTAL RETIREMENTS     % Sales       20     TOTAL RETIREMENTS     % Sales       21     WORK IN PROGRESS AS STOCKS     % Sales       22     MATERIALS AS STOCKS     % Sales       23     TOTAL STOCKS & INVENTORY     % Sales       24     DEBTORS     % Sales       25     MISCELLANEOUS CURRENT ASSETS     % Sales       26     CREDITORS     % Sales       27     TOTAL CURRENT LABILITIES     % Sales       28     SHORT TERM LOANS     % Sales       29     SHORT TERM LOANS     % Sales       20     INSCELLANEOUS CURRENT LIABILITIES     % Sales       21     TOTAL ASSETS / CAPITAL EMPLOYED     % Sales       24     NET ASSETS / CAPITAL EMPLOYED     % Sales       25     MISCELLANEOUS CURRENT LIABILITIES     % Sales       26     MISCELLANEOUS LONG TERM LIABILITIES     % Sales       26     MORKIN INST QUARTER     % of Annual       27     MORKIN INST QUARTER     % of Annual       28     WORKIN IN STO QUARTER     % of Annual<                   | Row |   |             |
| 26     RETIREMENTS: PLANT AND EQUIPMENT     % Sales       27     RETIREMENTS: MISCELLANEOUS ITEMS     % Sales       28     TOTAL RETIREMENTS     % Sales       29     TOTAL RETIREMENTS     % Sales       30     FINISHED PRODUCT STOCKS     % Sales       31     WORK IN PROGRESS AS STOCKS     % Sales       32     MATERIALS AS STOCKS     % Sales       33     TOTAL STOCKS & INVENTORY     % Sales       34     DEBTORS     % Sales       35     MISCELLANEOUS CURRENT ASSETS     % Sales       36     TOTAL LOWRENT ASSETS     % Sales       37     TOTAL ASSETS     % Sales       38     GREDITORS     % Sales       39     SHORT TERM LOANS     % Sales       41     TOTAL CURRENT LIABILITIES     % Sales       42     NET ASSETS / CAPITAL EMPLOYED     % Sales       43     SHARERHOLDERS FUNDS     % Sales       44     LONG TERM LOANS     % Sales       45     MISCELLANEOUS CURRENT LIABILITIES     % Sales       46     WORK IN STO QUARTER     % Sales       47     HOURS WORKED     HOURS       48     WORK IN STO QUARTER     % d'Annual       49     WORK IN STO QUARTER     % d'Annual       40     WORK IN ATH QUARTER  |     |   |             |
| 7       RETIREMENTS: MISCELLANEOUS ITEMS       % Sales         28       TOTAL RETIREMENTS       % Sales         29       TOTAL RETIREMENTS       % Sales         20       FINISHED PRODUCT STOCKS       % Sales         31       WORK IN PROGRESS AS STOCKS       % Sales         32       MATERIALS AS STOCKS       % Sales         33       TOTAL STOCKS       % Sales         34       DEBTORS       % Sales         35       MISCELLANEOUS CURRENT ASSETS       % Sales         36       TOTAL CURRENT ASSETS       % Sales         37       TOTAL ASSETS       % Sales         38       CREDITORS       % Sales         39       SHORT TERM LOANS       % Sales         40       MISCELLANEOUS CURRENT LIABILITIES       % Sales         41       TOTAL CARRENT LIABILITIES       % Sales         42       NET ASSETS / CAPITAL EMPLOYED       % Sales         43       SHAREHOLDERS FUNDS       % Sales         44       LONG TERM LOANS       % Sales         45       MISCELLANEOUS LONG TERM LIABILITIES       % Sales         46       WORK IN STO QUARTER       % of Annual         47       HOURS WORKED       HOURS  |     |   |             |
| 28     TOTAL RETIREMENTS     % Sales       29     TOTAL FIXED ASSETS     % Sales       30     FINISHED PRODUCT STOCKS     % Sales       31     WORK IN PROGRESS AS STOCKS     % Sales       32     MATERIALS AS STOCKS     % Sales       33     TOTAL STOCKS & INVENTORY     % Sales       34     DEBTORS     % Sales       35     MISCELLANEOUS CURRENT ASSETS     % Sales       36     TOTAL CURRENT ASSETS     % Sales       37     TOTAL ASSETS     % Sales       38     CREDITORS     % Sales       39     SHORT TERM LOANS     % Sales       40     MISCELLANEOUS CURRENT LIABILITIES     % Sales       41     TOTAL CURRENT LIABILITIES     % Sales       42     NET ASSETS / CAPITAL EMPLOYED     % Sales       43     SHAREHOLDERS FUNDS     % Sales       44     LONG TERM LIABILITIES     % Sales       45     MISCELLANEOUS LONG TERM LIABILITIES     % Sales       46     WORK KED     Mours       47     HOURS WORKED     HOURS       48     WORK IN 1ST QUARTER     % of Annual       49     WORK IN 2ND QUARTER     % of Annual       40     WORK IN 3RD QUARTER     % of Annual       41     WORK IN SADE QUARTER  | -   |   |             |
| 29TOTAL FIXED ASSETS% Sales30FINISHED PRODUCT STOCKS% Sales31WORK IN PROGRESS AS STOCKS% Sales32MATERIALS AS STOCKS% Sales33TOTAL STOCKS & INVENTORY% Sales34DEETORS% Sales35MISCELLANEOUS CURRENT ASSETS% Sales36TOTAL CURRENT ASSETS% Sales37TOTAL ASSETS% Sales38CREDITORS% Sales39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS (CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKENSpersons47HOURS WORKEDHours48WORK IN STO QUARTER% of Annual49WORK IN STO QUARTER% of Annual40WORK IN STO QUARTER% of Annual41WORK IN STO QUARTER% Sales42FUEL COST% Sales43PAYROLL COSTS% Sales44ELECTRICITY COST% Sales45PAYROLL COSTS% Sales46DIRECTORS' REMUNRERATIONS% Sales47HOURSUONS & INCENTIVES PAID% Sales48ORK IN ATH QUARTER% Sales49WORK IN ATH QUARTER% Sales40DIRECTORS' REMUNRERATIO   |     |   |             |
| 30FINISHED PRODUCT STOCKS% Sales31WORK IN PROGRESS AS STOCKS% Sales32MATTERIALS AS STOCKS% Sales33TOTAL STOCKS & INVENTORY% Sales34DEDTORS% Sales35MISCELLANEOUS CURRENT ASSETS% Sales36TOTAL CURRENT ASSETS% Sales37TOTAL ASSETS% Sales38CREDTORS% Sales39SHORT TERM LOANS% Sales39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 1ST QUARTER% of Annual40WORK IN 1ST QUARTER% of Annual41WORK IN 3RD QUARTER% sales43FINISHED MATERIALS COST% Sales44FINISHED MATERIALS COST% Sales45FINISHED MATERIALS COST% Sales46WACES% Sales47TOTAL EMPLOYEES% Sales48PAYROLL COSTS% Sales49MARET% Sales40INECTORS' REMUNRERATIONS% Sales41ELECTRICITY COST% Sales<  |     |   |             |
| 1WORK IN PROGRESS AS STOCKS% Sales32MATERIALS AS STOCKS% Sales33TOTAL STOCKS & INVENTORY% Sales34DEBTORS% Sales35MISCELLANEOUS CURRENT ASSETS% Sales36TOTAL CURRENT ASSETS% Sales37TOTAL ASSETS% Sales38CREDITORS% Sales39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS CONG TERM LIABILITIES% Sales46WORK RESpersons47HOURS WORKEDHours48WORK IN STO QUARTER% of Annual49WORK IN STO QUARTER% of Annual40WORK IN ASTO QUARTER% of Annual41WORK IN ATH QUARTER% of Annual42FINISHED MATERIALS COST% Sales43FINISHED MATERIALS COST% Sales44ELECTRICITY COST% Sales55FUEL COST% Sales56PATOLL COSTS% Sales57TOTAL IMPURENTIONS% Sales58PATOLL COSTS% Sales59WAOES% Sales50DIRECTORS' REMUNERATIONS% Sales51DIATERIALS AND ENERGY COSTS% Sales52COMINSSIONS & INCENTIVES PAID   |     |   |             |
| 32     MATERIALS AS STOCKS     % Sales       33     TOTAL STOCKS & INVENTORY     % Sales       34     DEBTORS     % Sales       35     MISCELLANEOUS CURRENT ASSETS     % Sales       36     TOTAL CURRENT ASSETS     % Sales       37     TOTAL ASSETS     % Sales       38     CREDITORS     % Sales       39     SHORT TERM LOANS     % Sales       40     MISCELLANEOUS CURRENT LIABILITIES     % Sales       41     TOTAL CURRENT LIABILITIES     % Sales       42     NET ASSETS / CAPITAL EMPLOYED     % Sales       43     SHAREHOLDERS FUNDS     % Sales       44     LONG TERM LIABILITIES     % Sales       45     MISCELLANEOUS LONG TERM LIABILITIES     % Sales       45     MISCELLANEOUS LONG TERM LIABILITIES     % Sales       46     WORK RENS     persons       47     HOURS WORKED     Hours       48     WORK IN 1ST QUARTER     % of Annual       49     WORK IN 1ST QUARTER     % of Annual       41     WORK IN 1ST QUARTER     % of Annual       42     TOTAL EMPLOYEES     persons       43     FINISHED MATERIALS COST     % Sales       54     FINISHED MATERIALS COST     % Sales       55     PUEL COST  |     |   |             |
| 33TOTAL STOCKS & INVENTORY% Sales34DEBTORS% Sales35MISCELLANEOUS CURRENT ASSETS% Sales36TOTAL CURRENT ASSETS% Sales37TOTAL ASSETS% Sales38CREDITORS% Sales39SHORT TERN LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKENS% Sales47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 3TD QUARTER% of Annual40WORK IN 3TD QUARTER% of Annual41WORK IN 3TD QUARTER% Sales45FUISLED MATERIALS COST% Sales46ELECTRICITY COST% Sales47TOTAL EMPLOYEES\$ Sales48WACES% Sales49WACES\$ Sales40SALES\$ Sales41TOTAL SUPPLIES / MATERIALS AND ENERGY COSTS% Sales42NECTORS' REMUNERATIONS% Sales43WACES\$ Sales44EMPLOYEE BENEFITS% Sales45OURECTORS' REMUNERATIONS% Sales46SUB CONTRACTORS% Sales47GOTAL EMUNERATIONS% Sales <trr>4</trr>   |     |   |             |
| 34     DEBTORS     % Sales       35     MISCELLANEOUS CURRENT ASSETS     % Sales       36     TOTAL CURRENT ASSETS     % Sales       37     TOTAL ASSETS     % Sales       38     CREDITORS     % Sales       39     SHORT TERM LOANS     % Sales       40     MISCELLANEOUS CURRENT LIABILITIES     % Sales       41     TOTAL CURRENT LIABILITIES     % Sales       42     NET ASSETS / CAPITAL EMPLOYED     % Sales       43     SHAREHOLDERS FUNDS     % Sales       44     LONG TERM LOANS     % Sales       45     MISCELLANEOUS LONG TERM LIABILITIES     % Sales       46     WORK KEN     persons       47     HOURS WORKED     Hours       48     WORK KIN 1ST QUARTER     % of Annual       50     WORK IN 2ND QUARTER     % of Annual       51     WORK IN 3RD QUARTER     % of Annual       52     TOTAL EMPLOYEES     persons       53     RAW MATERIALS COST     % Sales       54     FINSHED MATERIALS COST     % Sales       55     FUEL COST     % Sales       56     ELECTRICITY COST     % Sales       57     TOTAL INPULYES / MATERIALS AND ENERGY COSTS     % Sales       58     PAYROLL COSTS     % Sales <td>32</td> <td></td> <td></td>                              | 32  |   |             |
| 35MISCELLANEOUS CURRENT ASSETS% Sales36TOTAL CURRENT ASSETS% Sales37TOTAL ASSETS% Sales38CREDITORS% Sales39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORK TERM LOANS% Sales47HOURS WORKEDHours48WORK IN ST QUARTER% of Annual49WORK IN STQUARTER% of Annual40WORK IN 3RD QUARTER% of Annual41WORK IN 4TH QUARTER% of Annual42TOTAL EMPLOYEESpersons43RAW MATERIALS COST% Sales44LONG TERM LIABILITIES% Sales45MORK IN 4TH QUARTER% of Annual49WORK IN 3RD QUARTER% of Annual49WORK IN 3RD QUARTER% of Annual40WORK IN 3RD QUARTER% of Annual41FINISHED MATERIALS COST% Sales45FUEL COST% Sales46ELECTRICITY COST% Sales47TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales48WAGES% Sales% Sales49WAGES% Sales% Sales40DIRECTORS REMUNERATIONS <t< td=""><td>33</td><td>TOTAL STOCKS &amp; INVENTORY</td><td></td></t<>   | 33  | TOTAL STOCKS & INVENTORY                          |             |
| interaction         % Sales           36         TOTAL CURRENT ASSETS         % Sales           37         TOTAL CURRENT ASSETS         % Sales           38         CREDITORS         % Sales           39         SHORT TERM LOANS         % Sales           40         MISCELLANEOUS CURRENT LIABILITIES         % Sales           41         TOTAL CURRENT LIABILITIES         % Sales           42         NET ASSETS / CAPITAL EMPLOYED         % Sales           43         SHAREHOLDERS FUNDS         % Sales           44         LONG TERM LOANS         % Sales           45         MISCELLANEOUS LONG TERM LIABILITIES         % Sales           46         WORKEN         persons           47         HOURS WORKED         Hours           48         WORK IN 1ST QUARTER         % of Annual           50         WORK IN 3TD QUARTER         % of Annual           51         WORK IN 3TD QUARTER         % of Annual           52         TOTAL EMPLOYEES         persons           53         RAW MATERIALS COST         % Sales           54         FINISHED MATERIALS COST         % Sales           55         FUEL COST         % Sales           56         EL       | 34  | DEBTORS   | % Sales     |
| TOTAL ASSETS% Sales38CREDITORS% Sales39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 1ST QUARTER% of Annual50WORK IN 1ST QUARTER% of Annual51WORK IN 3RD QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales50DIRECTORS' REMUNERATIONS% Sales51EMPLOYEE BENEFITS% Sales52COMMISSIONS & INCENTIVES PAID% Sales53RENTAL & LEASING: STRUCTURES% Sales56RENTAL & LEASING: STRUCTURES% Sales56RENTAL & LEASING: STRUCTURES% Sales56RENTAL & LEASING: STRUCTURES% Sales56RENTAL & LEASING: STRUCTURES% Sales  | 35  | MISCELLANEOUS CURRENT ASSETS                      | % Sales     |
| 38CREDITORS% Sales39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN STQ UARTER% of Annual49WORK IN STQ UARTER% of Annual50WORK IN NAD QUARTER% of Annual51WORK IN MATH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales50DIRECTORS' REMUNERATIONS% Sales51EMPLOYEE BENEFITS% Sales52OTAL LEMUNERATIONS% Sales53TOTAL REMUNERATIONS% Sales54SUB CONTRACTORS% Sales55FUEL CORS' REMUNERATIONS% Sales56EMPLOYEE BENEFITS% Sales57TOTAL LEMUNERATIONS% Sales58RENTAL & LEASING: STRUCTURES% Sales59RENTAL  | 36  | TOTAL CURRENT ASSETS                              |             |
| 39SHORT TERM LOANS% Sales40MISCELLANEOUS CURRENT LIABILITIES% Sales41TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKENSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 3RD QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL IMPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COST% Sales59WAGES% Sales50DIRECTORS' REMUNERATIONS% Sales51EMPLOYEE BENEFITS% Sales52COMMISSIONS & INCENTIVES PAID% Sales54EMPLOYEE BENEFITS% Sales55FUEL COST% Sales56RENTAL & LEASING: STRUCTURES% Sales56RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 37  | TOTAL ASSETS                                      | % Sales     |
| INSCELLANEOUS CURRENT LIABILITIES     % Sales       11     TOTAL CURRENT LIABILITIES     % Sales       12     NET ASSETS / CAPITAL EMPLOYED     % Sales       13     SHAREHOLDERS FUNDS     % Sales       14     LONG TERM LOANS     % Sales       15     MISCELLANEOUS LONG TERM LIABILITIES     % Sales       16     WORKERS     persons       17     HOURS WORKED     Hours       18     WORK IN ST QUARTER     % of Annual       19     WORK IN 2ND QUARTER     % of Annual       10     WORK IN 3ND QUARTER     % of Annual       11     WORK IN 3ND QUARTER     % of Annual       12     TOTAL EMPLOYEES     persons       13     RAW MATERIALS COST     % Sales       14     FINISHED MATERIALS COST     % Sales       15     FUEL COST     % Sales       16     ELECTRICITY COST     % Sales       17     TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS     % Sales       18     WAGES     % Sales       19     WAGES     % Sales       10     INPUT SUPPLIES / MATERIALS AND ENERGY COSTS     % Sales       15     FUEL COST     % Sales       16     INPLOYEE BENEFITS     % Sales       16     ENPLOYEE RENEFITS     % Sales<  | 38  | CREDITORS   | % Sales     |
| 11TOTAL CURRENT LIABILITIES% Sales42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 1ST QUARTER% of Annual50WORK IN SAD QUARTER% of Annual51WORK IN ATH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales50INRECTORS' REMUNERATIONS% Sales60DIRECTORS' REMUNERATIONS% Sales61SUB CONTRACTORS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 39  | SHORT TERM LOANS                                  | % Sales     |
| 42NET ASSETS / CAPITAL EMPLOYED% Sales43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN ATH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 40  | MISCELLANEOUS CURRENT LIABILITIES                 | % Sales     |
| 43SHAREHOLDERS FUNDS% Sales44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 41  | TOTAL CURRENT LIABILITIES                         | % Sales     |
| 44LONG TERM LOANS% Sales45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63RENTAL & LEASING: STRUCTURES% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 42  | NET ASSETS / CAPITAL EMPLOYED                     | % Sales     |
| 45MISCELLANEOUS LONG TERM LIABILITIES% Sales46WORKERSpersons47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 43  | SHAREHOLDERS FUNDS                                | % Sales     |
| 46WORKERSpersons47HOURS WORKEDHours48WORK IN ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 44  | LONG TERM LOANS                                   | % Sales     |
| 47HOURS WORKEDHours48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 45  | MISCELLANEOUS LONG TERM LIABILITIES               | % Sales     |
| 48WORK IN 1ST QUARTER% of Annual49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: TRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 46  | WORKERS   | persons     |
| 49WORK IN 2ND QUARTER% of Annual50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 47  | HOURS WORKED                                      | Hours       |
| 50WORK IN 3RD QUARTER% of Annual51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 48  | WORK IN 1ST QUARTER                               | % of Annual |
| 51WORK IN 4TH QUARTER% of Annual52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 49  | WORK IN 2ND QUARTER                               | % of Annual |
| 52TOTAL EMPLOYEESpersons53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 50  | WORK IN 3RD QUARTER                               | % of Annual |
| 53RAW MATERIALS COST% Sales54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 51  | WORK IN 4TH QUARTER                               | % of Annual |
| 54FINISHED MATERIALS COST% Sales55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 52  | TOTAL EMPLOYEES                                   | persons     |
| 55FUEL COST% Sales56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 53  | RAW MATERIALS COST                                | % Sales     |
| 56ELECTRICITY COST% Sales57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 54  | FINISHED MATERIALS COST                           | % Sales     |
| 57TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS% Sales58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 55  | FUEL COST   | % Sales     |
| 58PAYROLL COSTS% Sales59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 56  | ELECTRICITY COST                                  | % Sales     |
| 59WAGES% Sales60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 57  | TOTAL INPUT SUPPLIES / MATERIALS AND ENERGY COSTS | % Sales     |
| 60DIRECTORS' REMUNERATIONS% Sales61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales  | 58  | PAYROLL COSTS                                     | % Sales     |
| 61EMPLOYEE BENEFITS% Sales62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 59  | WAGES   | % Sales     |
| 62COMMISSIONS & INCENTIVES PAID% Sales63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 60  | DIRECTORS' REMUNERATIONS                          | % Sales     |
| 63TOTAL REMUNERATIONS% Sales64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 61  | EMPLOYEE BENEFITS                                 | % Sales     |
| 64SUB CONTRACTORS% Sales65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 62  | COMMISSIONS & INCENTIVES PAID                     | % Sales     |
| 65RENTAL & LEASING: STRUCTURES% Sales66RENTAL & LEASING: PLANT AND EQUIPMENT% Sales   | 63  | TOTAL REMUNERATIONS                               | % Sales     |
| 66     RENTAL & LEASING: PLANT AND EQUIPMENT     % Sales  | 64  | SUB CONTRACTORS                                   | % Sales     |
|   | 65  | RENTAL & LEASING: STRUCTURES                      | % Sales     |
| 67 TOTAL RENTAL & LEASING COSTS % Sales   | 66  | RENTAL & LEASING: PLANT AND EQUIPMENT             | % Sales     |
|   | 67  | TOTAL RENTAL & LEASING COSTS                      | % Sales     |

| 9       MAINTENANCE: PLANT AND EQUIPMENT       % Sales         0       TOTAL MAINTENANCE COSTS       % Sales         1       SERVICES PURCHASED       % Sales         2       COMMUNICATIONS COSTS       % Sales         3       MISCELLANEOUS EXPENSES       % Sales         4       SALES EXPENSES AND COSTS       % Sales         5       SALES EXPENSES AND COSTS       % Sales         6       SALES EXPENSES AND COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         8       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING VARIABLE COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL PROCESS VIEW COSTS       % Sales         5       PHYSICAL PROCESS VIEW COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLINC COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLINC COSTS       % Sales         7       MALING & CORRESPONDENCE COSTS       % Sales   | Row | TITLE  | LEGEND  |
|--|-----|--|---------|
| 0       TOTAL MAINTENANCE COSTS       % Sales         1       SERVICES PURCHASED       % Sales         2       COMMUNICATIONS COSTS       % Sales         3       MISCELLANEOUS EXPENSES       % Sales         3       SALES PERSONNEL VARIABLE & COMMISSION COSTS       % Sales         5       SALES PERSONNEL VARIABLE & COMMISSION COSTS       % Sales         6       SALES MATERIALS COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING VARIABLE COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL PROCESS VARIABLE COSTS       % Sales         5       PHYSICAL PROCESS VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         6       TOTAL DERRIBURG COSTS       % Sales         7       MAILINS & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales  | 68  | MAINTENANCE: STRUCTURES                      | % Sales |
| SERVICES PURCHASED       % Sales         I       SERVICES PURCHASED       % Sales         I       MISCELLANEOUS EXPENSES       % Sales         I       SALES PERSONNEL VARIABLE & COMMISSION COSTS       % Sales         SALES EXPENSES AND COSTS       % Sales         SALES EXPENSES AND COSTS       % Sales         SALES MATERIALS COSTS       % Sales         SALES MATERIALS COSTS       % Sales         DISTRIBUTION VARIABLE COSTS       % Sales         WAREHOUSING FIXED COSTS       % Sales         WAREHOUSING FIXED COSTS       % Sales         WAREHOUSING FIXED COSTS       % Sales         PHYSICAL HANDLING VARIABLE COSTS       % Sales         PHYSICAL PROCESS FIXED COSTS       % Sales         PHYSICAL PROCESS VARIABLE COSTS       % Sales         PHYSICAL PROCESS VARIABLE COSTS       % Sales         MAILING & CORRESPONDENCE COSTS       % Sales         MAILING & CORRESPONDENCE COSTS       % Sales         MAILING & CORRESPONDENCE COSTS       % Sales         POS & DISPLAY COSTS       % Sales         POS & DISPLAY COSTS       % Sales         PODUCT INSTALLAS & PRINT COSTS       % Sales         PODUCT INSTALLAS & PRINT COSTS       % Sales         PODUCT INSTALLAS & REJECTION COST  | 69  | MAINTENANCE: PLANT AND EQUIPMENT             | % Sales |
| 2       COMMUNICATIONS COSTS       % Sales         3       MISCELLANEOUS EXPENSES       % Sales         4       SALES PERSONNEL VARIABLE & COMMISSION COSTS       % Sales         5       SALES EXPENSES AND COSTS       % Sales         5       SALES EXPENSES AND COSTS       % Sales         6       SALES COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         8       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING FIXED COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING VARIABLE COSTS       % Sales         3       PHYSICAL PROCESS FIXED COSTS       % Sales         4       PHYSICAL PROCESS VARIABLE COSTS       % Sales         5       PHYSICAL PROCESS VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING MATERIALS & PRINT COSTS       % Sales         9       POSA DIPLAY COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales   | 70  | TOTAL MAINTENANCE COSTS                      | % Sales |
| 3       MISCELLANEOUS EXPENSES       % Sales         4       SALES PERSONNEL VARIABLE & COMMISSION COSTS       % Sales         5       SALES EXPENSES AND COSTS       % Sales         6       SALES EXPENSES AND COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         8       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING FIXED COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING VARIABLE COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL HANDLING VARIABLE COSTS       % Sales         5       PHYSICAL HANDLING VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING MATERIALS & PRINT COSTS       % Sales         10       POS & DISPLAY COSTS       % Sales         21       FOTAL ADVERTISING COSTS  | 71  | SERVICES PURCHASED                           | % Sales |
| 4       SALES PERSONNEL VARIABLE & COMMISSION COSTS       % Sales         5       SALES EXPENSES AND COSTS       % Sales         6       SALES MATERIALS COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         8       DISTRIBUTION VARIABLE COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         1       WAREHOUSING FIXED COSTS       % Sales         2       PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING FIXED COSTS       % Sales         4       PHYSICAL PROCESS FIXED COSTS       % Sales         5       PHYSICAL PROCESS VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING MATERIALS & PRINT COSTS       % Sales         9       TOTAL ADVERTISING COSTS       % Sales         10       EXHIBITION & EVENTS COSTS       % Sales         5       PRODUCT RETU   | 72  | COMMUNICATIONS COSTS                         | % Sales |
| 5       SALES EXPENSES AND COSTS       % Sales         6       SALES MATERIALS COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         9       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING FIXED COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL PROCESS FIXED COSTS       % Sales         5       PHYSICAL PROCESS FIXED COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING MATERIALS & PRINT COSTS       % Sales         9       ADVERTISING COSTS       % Sales         10       EXHIBITION & EVENTS COSTS       % Sales         11       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT RETURNS & REJECTION COSTS       % Sales      <  | 73  | MISCELLANEOUS EXPENSES                       | % Sales |
| SALES MATERIALS COSTS       % Sales         7       TOTAL SALES COSTS       % Sales         8       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING FIXED COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL HANDLING VARIABLE COSTS       % Sales         5       PHYSICAL PROCESS FIXED COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING MATERIALS & PRINT COSTS       % Sales         9       ADVERTISING COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT INSTALLATION COSTS       % Sales         4       PRODUCT INSTALLATION & EVENTS ALLATION COSTS       % Sales     <  | 74  | SALES PERSONNEL VARIABLE & COMMISSION COSTS  | % Sales |
| 7       TOTAL SALES COSTS       % Sales         8       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING FIXED COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL HANDLING VARIABLE COSTS       % Sales         5       PHYSICAL PROCESS FIXED COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING COSTS       % Sales         9       ADVERTISING COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT RETURNS & REJECTION COSTS       % Sales         4       PRODUCT INSTALLATION & EVENTS COSTS       % Sales         5       PRODUCT BERAKDOWN & POST INSTALLATION COSTS       % Sales         6       PRODUCT SERVICE & MAINTENNANCE COSTS   | 75  | SALES EXPENSES AND COSTS                     | % Sales |
| 8       DISTRIBUTION FIXED COSTS       % Sales         9       DISTRIBUTION VARIABLE COSTS       % Sales         0       WAREHOUSING FIXED COSTS       % Sales         1       WAREHOUSING VARIABLE COSTS       % Sales         2       PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL PROCESS FIXED COSTS       % Sales         5       PHYSICAL PROCESS VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING MATERIALS & PRINT COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT RETURNS & REJECTION COSTS       % Sales         4       PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         5       PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         6       PRODUCT SERVICE & MAINTENANCE COSTS       % Sales         7       PRODUCT SERVICE & MAINTENANCE COSTS       % Sales         8   | 76  | SALES MATERIALS COSTS                        | % Sales |
| DISTRIBUTION VARIABLE COSTS       % Sales         WAREHOUSING FIXED COSTS       % Sales         WAREHOUSING VARIABLE COSTS       % Sales         PHYSICAL HANDLING FIXED COSTS       % Sales         PHYSICAL HANDLING VARIABLE COSTS       % Sales         PHYSICAL PROCESS FIXED COSTS       % Sales         FHYSICAL PROCESS VARIABLE COSTS       % Sales         TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         MAILING & CORRESPONDENCE COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         POS & DISPLAY COSTS       % Sales         POS & DISPLAY COSTS       % Sales         PRODUCT RETURNS & REJECTION COSTS       % Sales         PRODUCT RETURNS & REJECTION COSTS       % Sales         PRODUCT RETURNS & REJECTION COSTS       % Sales         PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         PRODUCT SYSTEMS & CONFIGURATION COSTS       % Sales         PRODUCT SYSTEMS & CONFIGURATION COSTS       % Sales         PRODUCT SYSTEMS & CONFIGURATION COSTS       % Sales         OTOTAL AFTER-SALES COSTS       % Sales         OTOTAL AFTER-SALES COSTS       % Sales         OTOTAL AFTER-SALES COSTS       % Sales         OTOTAL A   | 77  | TOTAL SALES COSTS                            | % Sales |
| WAREHOUSING FIXED COSTS       % Sales         WAREHOUSING VARIABLE COSTS       % Sales         PHYSICAL HANDLING FIXED COSTS       % Sales         PHYSICAL HANDLING VARIABLE COSTS       % Sales         PHYSICAL PROCESS FIXED COSTS       % Sales         FHYSICAL PROCESS FIXED COSTS       % Sales         TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         POS & DISPLAY COSTS       % Sales         POS & DISPLAY COSTS       % Sales         POS & DISPLAY COSTS       % Sales         PRODUCT RETURNS & REJECTION COSTS       % Sales         PRODUCT RETURNS & REJECTION COSTS       % Sales         PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         PRODUCT SYSTEMS & CONFIGURATION COSTS       % Sales         PRODUCT SERVICE & MAINTENANCE COSTS       % Sales         CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS       % Sales         PRODUCT SERVICE & MAINTENANCE COSTS       % Sales         CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS       % Sales         O TOTAL AFTER-SALES COSTS       % Sales         O TOTAL AFTER-SALES COSTS       % Sales         <   | 78  | DISTRIBUTION FIXED COSTS                     | % Sales |
| WAREHOUSING VARIABLE COSTS       % Sales         PHYSICAL HANDLING FIXED COSTS       % Sales         PHYSICAL HANDLING VARIABLE COSTS       % Sales         PHYSICAL PROCESS FIXED COSTS       % Sales         FHYSICAL PROCESS VARIABLE COSTS       % Sales         TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         MAILING & CORRESPONDENCE COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         MEDIA ADVERTISING COSTS       % Sales         0       POS & DISPLAY COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT RETURNS & REJECTION COSTS       % Sales         4       PRODUCT RETURNS & REJECTION COSTS       % Sales         5       PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         6       PRODUCT INSTALLATION & POST INSTALLATION COSTS       % Sales         7       PRODUCT SYSTEMS & CUSTOMER COMPLAINT COSTS       % Sales         8       CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS       % Sales         9       TOTAL AFTER-SALES COSTS       % Sales         9       TOTAL AFTER-SALES COSTS       % Sales         10       NEW TECHNOLOGY EXPENDITURE  | 79  | DISTRIBUTION VARIABLE COSTS                  | % Sales |
| PHYSICAL HANDLING FIXED COSTS       % Sales         3       PHYSICAL HANDLING VARIABLE COSTS       % Sales         4       PHYSICAL PROCESS FIXED COSTS       % Sales         5       PHYSICAL PROCESS VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING MATERIALS & PRINT COSTS       % Sales         0       POS & DISPLAY COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT RETURNS & REJECTION COSTS       % Sales         4       PRODUCT INSTALLATION COSTS       % Sales         5       PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         6       PRODUCT SYSTEMS & CONFIGURATION COSTS       % Sales         7       PRODUCT SERVICE & MAINTENANCE COSTS       % Sales         8       CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS       % Sales         9       TOTAL AFTER-SALES COSTS       % Sales         9       TOTAL AFTER-SALES COSTS       % Sales         00       TOTAL MARKET  | 80  | WAREHOUSING FIXED COSTS                      | % Sales |
| 3PHYSICAL HANDLING VARIABLE COSTS% Sales4PHYSICAL PROCESS FIXED COSTS% Sales5PHYSICAL PROCESS VARIABLE COSTS% Sales6TOTAL DISTRIBUTION AND HANDLING COSTS% Sales7MAILING & CORRESPONDENCE COSTS% Sales8MEDIA ADVERTISING COSTS% Sales9ADVERTISING MATERIALS & PRINT COSTS% Sales0POS & DISPLAY COSTS% Sales1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 81  | WAREHOUSING VARIABLE COSTS                   | % Sales |
| 4       PHYSICAL PROCESS FIXED COSTS       % Sales         5       PHYSICAL PROCESS VARIABLE COSTS       % Sales         6       TOTAL DISTRIBUTION AND HANDLING COSTS       % Sales         7       MAILING & CORRESPONDENCE COSTS       % Sales         8       MEDIA ADVERTISING COSTS       % Sales         9       ADVERTISING MATERIALS & PRINT COSTS       % Sales         0       POS & DISPLAY COSTS       % Sales         1       EXHIBITION & EVENTS COSTS       % Sales         2       TOTAL ADVERTISING COSTS       % Sales         3       PRODUCT RETURNS & REJECTION COSTS       % Sales         4       PRODUCT INSTALLATION & RE-INSTALLATION COSTS       % Sales         5       PRODUCT BREAKDOWN & POST INSTALLATION COSTS       % Sales         6       PRODUCT SYSTEMS & CONFIGURATION COSTS       % Sales         7       PRODUCT SERVICE & MAINTENANCE COSTS       % Sales         8       CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS       % Sales         9       TOTAL AFTER-SALES COSTS       % Sales         00       TOTAL AFTER-SALES COSTS       % Sales         01       NEW TECHNOLOGY EXPENDITURE       % Sales         02       NEW PRODUCTION TECHNOLOGY EXPENDITURE       % Sales  | 82  | PHYSICAL HANDLING FIXED COSTS                | % Sales |
| 5PHYSICAL PROCESS VARIABLE COSTS% Sales6TOTAL DISTRIBUTION AND HANDLING COSTS% Sales7MAILING & CORRESPONDENCE COSTS% Sales8MEDIA ADVERTISING COSTS% Sales9ADVERTISING MATERIALS & PRINT COSTS% Sales0POS & DISPLAY COSTS% Sales1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales0TOTAL MARKETING COSTS% Sales0TOTAL MARKETING COSTS% Sales0TOTAL MARKETING COSTS% Sales0TOTAL AFTER-SALES COSTS% Sales0TOTAL MARKETING COSTS% Sales0TOTAL MARKETING COSTS% Sales0TOTAL MARKETING COSTS% Sales0TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales0TOTAL OPERATIONAL & PROCESS COSTS% Sales0DEBTORS WITHIN AGREED TERMS% Sales0DEBTORS OUTSIDE AGREED TERMS% Sales  | 83  | PHYSICAL HANDLING VARIABLE COSTS             | % Sales |
| 6TOTAL DISTRIBUTION AND HANDLING COSTS% Sales7MAILING & CORRESPONDENCE COSTS% Sales8MEDIA ADVERTISING COSTS% Sales9ADVERTISING MATERIALS & PRINT COSTS% Sales0POS & DISPLAY COSTS% Sales1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 84  | PHYSICAL PROCESS FIXED COSTS                 | % Sales |
| MAILING & CORRESPONDENCE COSTS% SalesMEDIA ADVERTISING COSTS% SalesADVERTISING MATERIALS & PRINT COSTS% SalesPOS & DISPLAY COSTS% SalesTOTAL ADVERTISING COSTS% SalesTOTAL ADVERTISING COSTS% SalesPRODUCT RETURNS & REJECTION COSTS% SalesPRODUCT RETURNS & REJECTION COSTS% SalesPRODUCT INSTALLATION & RE-INSTALLATION COSTS% SalesPRODUCT BREAKDOWN & POST INSTALLATION COSTS% SalesPRODUCT SYSTEMS & CONFIGURATION COSTS% SalesPRODUCT SYSTEMS & CONFIGURATION COSTS% SalesPRODUCT SYSTEMS & CONFIGURATION COSTS% SalesOTAL AFTER-SALES COSTS% SalesOTAL AFTER-SALES COSTS% SalesOTAL MARKETING COSTS% SalesOTAL MARKETING COSTS% SalesOTAL MARKETING COSTS% SalesOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% SalesOSTAL OPERATIONAL & PROCESS COSTS% Sales <td>85</td> <td>PHYSICAL PROCESS VARIABLE COSTS</td> <td>% Sales</td> | 85  | PHYSICAL PROCESS VARIABLE COSTS              | % Sales |
| 8MEDIA ADVERTISING COSTS% Sales9ADVERTISING MATERIALS & PRINT COSTS% Sales0POS & DISPLAY COSTS% Sales1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL ARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 86  | TOTAL DISTRIBUTION AND HANDLING COSTS        | % Sales |
| 9ADVERTISING MATERIALS & PRINT COSTS% Sales0POS & DISPLAY COSTS% Sales1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 87  | MAILING & CORRESPONDENCE COSTS               | % Sales |
| 0POS & DISPLAY COSTS% Sales1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 88  | MEDIA ADVERTISING COSTS                      | % Sales |
| 1EXHIBITION & EVENTS COSTS% Sales2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 89  | ADVERTISING MATERIALS & PRINT COSTS          | % Sales |
| 2TOTAL ADVERTISING COSTS% Sales3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 90  | POS & DISPLAY COSTS                          | % Sales |
| 3PRODUCT RETURNS & REJECTION COSTS% Sales4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 91  | EXHIBITION & EVENTS COSTS                    | % Sales |
| 4PRODUCT INSTALLATION & RE-INSTALLATION COSTS% Sales5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 92  | TOTAL ADVERTISING COSTS                      | % Sales |
| 5PRODUCT BREAKDOWN & POST INSTALLATION COSTS% Sales6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 93  | PRODUCT RETURNS & REJECTION COSTS            | % Sales |
| 6PRODUCT SYSTEMS & CONFIGURATION COSTS% Sales7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 94  | PRODUCT INSTALLATION & RE-INSTALLATION COSTS | % Sales |
| 7PRODUCT SERVICE & MAINTENANCE COSTS% Sales8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 95  | PRODUCT BREAKDOWN & POST INSTALLATION COSTS  | % Sales |
| 8CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS% Sales9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 96  | PRODUCT SYSTEMS & CONFIGURATION COSTS        | % Sales |
| 9TOTAL AFTER-SALES COSTS% Sales00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 97  | PRODUCT SERVICE & MAINTENANCE COSTS          | % Sales |
| 00TOTAL MARKETING COSTS% Sales01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 98  | CUSTOMER PROBLEMS & CUSTOMER COMPLAINT COSTS | % Sales |
| 01NEW TECHNOLOGY EXPENDITURE% Sales02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 99  | TOTAL AFTER-SALES COSTS                      | % Sales |
| 02NEW PRODUCTION TECHNOLOGY EXPENDITURE% Sales03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 100 | TOTAL MARKETING COSTS                        | % Sales |
| 03TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE% Sales04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales   | 101 | NEW TECHNOLOGY EXPENDITURE                   | % Sales |
| 04TOTAL OPERATIONAL & PROCESS COSTS% Sales05DEBTORS WITHIN AGREED TERMS% Sales06DEBTORS OUTSIDE AGREED TERMS% Sales  | 102 | NEW PRODUCTION TECHNOLOGY EXPENDITURE        | % Sales |
| 05       DEBTORS WITHIN AGREED TERMS       % Sales         06       DEBTORS OUTSIDE AGREED TERMS       % Sales   | 103 | TOTAL RESEARCH AND DEVELOPMENT EXPENDITURE   | % Sales |
| 06 DEBTORS OUTSIDE AGREED TERMS % Sales  | 104 | TOTAL OPERATIONAL & PROCESS COSTS            | % Sales |
|  | 105 | DEBTORS WITHIN AGREED TERMS                  | % Sales |
| 07 UN-RECOVERABLE DEBTS % Sales  | 106 | DEBTORS OUTSIDE AGREED TERMS                 | % Sales |
|  | 107 | UN-RECOVERABLE DEBTS                         | % Sales |

# FINANCIAL DATA DEFINITIONS

| Data given on:                      | Definition:  |
|-------------------------------------|--|
| % OF CUSTOMERS = 50%<br>Revenue     | The best estimate of the percentage of immediate customers accounting for 50% of the sales of the business.  |
| % SHARE OF 4 LARGEST<br>FIRMS       | The combined market shares of the four leading firms in the industry, expressed as a percentage.   |
| ACTUAL RETURN ON<br>INVESTMENT      | The actual, pre-tax net income expressed as a percentage of investment for the business, used to adjust the future estimates of ROI.   |
| ASSET UTILIZATION                   | Sales as a ratio of total sales.   |
| AVERAGE<br>REMUNERATION             | Total employee remuneration divided by the number of employees.  |
| BORROWING RATIO                     | Total debt as a ratio of net worth.  |
| CAPACITY UTILIZATION                | <ul><li>The average % percentage of standard capacity utilized during the year. Standard capacity is the sales value of the maximum output the business can sustain with:</li><li>a) facilities normally in operation and</li><li>b) current constraints (e.g. technology, work rules, labour practices, etc.)</li></ul> |
| CAPITAL EMPLOYED                    | The sum of long term liabilities. It represents the counterpart of the net assets employed by the firm.  |
| CREDIT PERIOD                       | Debtors over sales times 365 days.   |
| CREDITORS RATIO                     | Creditors over sales times 365 days.   |
| CREDITORS                           | Trade creditors and bills payable within one year.   |
| CURRENT RATIO                       | Current assets as a ratio of current liabilities.  |
| DEBT GEARING RATIO                  | Long term loans as a ratio of net worth.   |
| DEBTORS                             | Trade debtors and trade bills receivable due within one year.  |
| DEPRECIATION                        | Includes amounts written off tangible fixed assets, including leased assets.   |
| DIRECTORS<br>REMUNERATION           | Includes all payments made to directors including pension fund contributions, ex-gratia payments and payments to directors' family.  |
| DISCOUNT CASH FLOW<br>YIELD RATE    | The internal rate of return after tax earned in this business when this strategy is executed. It is the time discount rate at which discounted cash flow plus residual is equal to initial investment.   |
| DISCOUNTED CASH<br>FLOW             | The cash generated over ten years from net income, less the cash absorbed by increases in the net investment in the business. The annual cash flows are discounted to a present value, using the time discount rate.   |
| DISCOUNTED NET<br>INCOME (10 YEARS) | From pre-tax net income in each year is deducted a capital charge on the increase in investment since the base period to reflect the cost of these funds. The time discount rate is then applied to obtain the present value of the income stream for the 10 year period.  |
| DOMESTIC REVENUES                   | Wherever applicable, domestic Revenues represent the proportion of total turnover generated locally less exports produced by the same companies.   |
| EMPLOYEES UNIONIZED                 | The percentage of total employees of the business who are unionized.   |
| EQUITY GEARING                      | Shareholders' funds as a ratio of total liabilities.   |
| EXPORTS / REVENUES                  | Exports divided by Revenues.   |
| EXPORTS                             | This figure will be shown where it has been disclosed.   |
| FIFO VALUATION                      | The accounting method used for inventory valuation FIFO, or other method (e.g. LIFO).  |
| FIXED ASSETS /<br>EMPLOYEES         | Fixed assets divided by the number of employees.   |
| FIXED ASSETS                        | Property, plant, fixtures and fittings, office equipment and motor vehicles wholly owned and shown at their written down book value.   |
| FIXED CAPITAL<br>INTENSITY          | Gross book value of plant & equipment expressed as a percentage of Revenues. Gross book value includes original value of buildings, real estate manufacturing & transportation equipment.  |
|                                     |  |

| 2 .   |   |
|---|---|
| FIXED CAPITAL<br>INTENSITY                        | The gross book value of plant and equipment, expressed as a percentage of Revenues.   |
| FORECAST REAL<br>MARKET GROWTH RATE<br>(% / YEAR) | An estimate of the future annual real growth rate of the served market.   |
| FORECAST SELLING<br>GROWTH RATE % p.a.            | A forecast of the annual growth rate of the selling prices.   |
| IMMEDIATE CUSTOMER<br>FRAGMENTATION               | The proportion of the total number of immediate customers accounting for 50% of total Revenues, expressed as a percentage. For example, if 5 of a business's 100 immediate customers represent 50% Revenue, immediate customer fragmentation is 5%.   |
| INCOME GEARING                                    | Interest paid as a percentage of profit before tax and before interest paid.  |
| INDUSTRY (SIC/NAICS)<br>GROWTH, LONG RUN          | The annual long term (10 year) growth rate of the SIC/NAICS industry in which the business is located, expressed as a percentage.   |
| INDUSTRY<br>CONCENTRATION RATIO                   | The amount of industry shipments accounted for by the four largest firms in the industry expressed as a percentage.   |
| INTANGIBLE ASSETS                                 | Non-tangible assets such as good will, trademarks, patents and copyrights owned.  |
| INTEREST PAID                                     | Gross interest paid. It should be noted that many private companies either do not disclose this figure in full or aggregate short-term, long-term and hire purchase interest together.  |
| INTERMEDIATE ASSETS                               | Includes investments in subsidiary and associated companies, trade investments and other unquoted investments, insurance premiums on life policies, and Advanced Corporation Tax recoverable. In addition, amounts due from other Group companies (as necessary), associated and affiliated companies, receivable after one year and with no stated fixed repayment terms will be included. Long term portions of trade and sundry debtors will also be included, wherever they are disclosed separately in the accounts. |
| INVENTORY / REVENUES                              | The sum of raw materials, work-in-process inventory and finished goods inventory (each net of reserve for losses) as a percentage of Revenues.  |
| INVESTMENT /<br>REVENUES                          | Investment as a percentage of Revenues. Investment can be measured in any of the following ways:<br>a) net book value of plant and equipment plus working capital<br>b) equity plus long-term debt<br>c) total assets employed minus current liabilities attributable to the business.  |
| INVESTMENT / VALUE<br>ADDED                       | Investment expressed as a percentage of value added. Value added is adjusted for profits to minimize that portion of the relationship with ROI which is caused by under or overstated earnings.   |
| INVESTMENT PER<br>EMPLOYEE                        | Average investment, expressed in monetary units per employee.   |
| LONG TERM LOANS                                   | Includes long term portions of bank & other institutional loans, mortgages, hire purchase repayments<br>and leasing obligations, all of which are due after one year. Also, amounts due to group, associated &<br>affiliated companies payable after one year are included.   |
| MARKET POSITION                                   | A factor combining:   |
|   | <ul> <li>a) MARKET SHARE: the share of the served market for the business, expressed as a percentage.</li> <li>b) RELATIVE MARKET SHARE: the market share of the business relative to the combined market share of the three leading competitors, expressed as a percentage. For example if ones business has 30% of the market and the three largest competitors have 20%, 10% and 10%: 30 divided by (20+10+10) = 75%.</li> </ul>   |
| MARKET SHARE<br>GROWTH RATE                       | The annual growth rate of market share expressed as a percentage.   |
| MARKET SHARE<br>INSTABILITY                       | The instability of the market share of the business, measured as the sum of the absolute values of the business's annual market share changes.  |
| MARKET SHARE                                      | The share of the served market expressed as a percentage.   |
| MARKETING EXPENSES /<br>REVENUES                  | The sum of salesforce, advertising, promotion and other marketing expenses expressed as a percentage of Revenues. Does not include costs of physical distribution.  |
| MISCELLANEOUS<br>CURRENT ASSETS                   | Cash and near cash items such as quoted investments and tax reserve certificates. Also sundry debtors, prepayments & accrued income due within one year, plus amounts due from group companies, associated & affiliated companies receivable within one year.   |
| MISCELLANEOUS<br>CURRENT LIABILITIES              | Sundry creditors, accrued expenses and prepaid income including dividends, corporation tax, social security and other sundry amounts payable within one year.   |
|   |   |

| MISCELLANEOUS LONG<br>TERM LIABILITIES           | Deferred and future taxation, minority interests, pension funds and similar liabilities, provisions for liabilities and charges due.   |
|--|--|
| NET ASSETS                                       | The net assets employed are obtained by subtracting total current liabilities from the total assets.   |
| NET WORTH  | Equals shareholders' funds less the intangible assets.   |
| NEW PRODUCT SALES /<br>REVENUES                  | Percentage of sales accounted for by new products. New products are those products introduced during the three preceding years.  |
| NEWNESS OF PLANT &<br>EQUIPMENT (NBV / GBV)      | Newness of plant and equipment, measured as the ratio of Net Book Value to Gross Book Value.   |
| NON-TRADING INCOME                               | Comprises Investment income received, such as income from quoted & unquoted investments, rents received, share of profit from associated companies; as well as Reserves adjustments, such as transfers from capital grant reserve, interest relief grants.   |
| NUMBER OF<br>EMPLOYEES + THEIR<br>REMUNERATION   | The average number of employees together with their aggregate wages and salaries.  |
| OPERATING PROFIT<br>MARGIN                       | Operating profit as a percentage of sales.   |
| OPERATING PROFIT                                 | Pre-tax profit plus interest, less non-trading income.   |
| PRE-TAX PROFIT MARGIN                            | Pre-tax profits as a percentage of sales.  |
| PRE-TAX PROFIT                                   | The net trading profit figure declared after deducting all operating expenses including depreciation & finance charges but before deduction of tax, dividends, subventions or group relief and other appropriations. Consolidated data is included where applicable in respect of the share of profits & losses of associated companies. Items described as exceptional are included. Those described as extraordinary items are excluded.   |
| PROFIT / EMPLOYEES                               | Profit before tax divided by the number of employees.  |
| PURCHASE AMOUNT<br>IMMEDIATE CUSTOMERS           | The typical amount of products or services bought by an immediate customer in a single transaction.  |
| QUICK RATIO                                      | Current assets less stocks as a ratio of current liabilities.  |
| RESEARCH &<br>DEVELOPMENT<br>EXPENSES / REVENUES | Product or Service R & D expenses plus Process R & D expenses expressed as a % Revenue.<br>Product or Service R&D expenses include all expenses for innovation & advances in the products or<br>services; including improvements in packaging, product design, features and functions. Process R &<br>D expenses include all expenses for process improvements to reduce the cost of producing,<br>processing and handling of goods. Sales are the net Revenues billed including lease revenues. |
| REAL MARKET GROWTH,<br>SHORT-RUN                 | The annual growth rate of the size of served market, deflated by the selling price index, expressed as a percentage.   |
| REAL MARKET GROWTH<br>RATE                       | The historical annual real (unit) growth rate of the market which the business serves, expressed as a percentage.  |
| RELATIVE<br>COMPENSATION                         | The average of hourly wage rates relative to leading competitors and salary levels relative to competitors. Competitors' wage rates and salary levels are 100%; if ones wage rates and salary levels are 5% higher, ones relative hourly wage rates are 105%, relative salaries are 105%, and ones average relative compensation is 105%.  |
| RELATIVE INTEGRATION<br>BACKWARD                 | The degree of backward vertical integration (i.e. toward suppliers) of the business relative to its leading competitors.   |
| RELATIVE INTEGRATION<br>FORWARD                  | The degree of forward vertical integration (i.e. toward customers) of the business relative to its leading competitors (less than, the same as, more than).  |
| RELATIVE MARKET<br>SHARE                         | The market share of the business, relative to the combined market shares of the three leading competitors, expressed as a percentage.  |
| RELATIVE PRICE                                   | The average level of selling prices of the products & services relative to the average level of the leading competitors. The average price of the competitors is 100%; if the average prices of the business are 5% higher when its price relative to competition is 105%.   |
| RELATIVE PRODUCT<br>QUALITY                      | The percentage of sales volume from products and service that, from the perspective of the consumer, are judged as superior to those available from leading competitors minus the percentage judged as inferior.   |
| RETURN ON ASSETS                                 | Pre-tax profits as a percentage of total assets.   |
| RETURN ON CAPITAL                                | Pre-tax profits as a percentage of capital employed.   |
|  |  |

| RETURN ON<br>SHAREHOLDERS FUNDS  | Pre-tax profits as a percentage of shareholders' funds.  |
|----------------------------------|--|
| ROI = NET INCOME /<br>INVESTMENT | Pre-tax net income, including special non-recurring costs, minus corporate overhead costs, as a percentage of average investment including fixed and working capital at book value, but excluding corporate investment not particular to the business. |
| SALES / EMPLOYEES                | Sales divided by the number of employees.  |
| SALES / FIXED ASSETS             | Sales as a ratio of fixed assets.  |
| SALES                            | Gross turnover recorded, including overseas sales, inter-group sales and exports, but excluding Value Added Tax or Sales Tax.  |
| SALES                            | The net sales billed, including lease revenues.  |
| SELLING PRICE GROWTH<br>RATE     | The annual growth rate of selling prices charged, expressed as a percentage.   |
| SHAREHOLDERS FUNDS               | The sum of issued, ordinary, and preference share capital, all reserves, the profit and loss balance (retained profits) and government grants.   |
| SHORT TERM LOANS                 | Includes short term portions of loans, bank overdrafts, hire purchase repayments & leasing obligations, due within one year. Plus amounts due to affiliated entities within one year.  |
| STANDARD PRODUCTS /<br>SERVICES  | The products or services of the business more or less standardized for all customers, or are they designed or produced to order for individual customers.  |
| STOCK TURNOVER                   | Sales as a ratio of stocks.  |
| STOCKS                           | Stocks and work in progress (net of progress repayments) held.   |
| TOTAL CURRENT ASSETS             | The sum of stocks, debtors and other current assets, representing the portion assets which is realizable within a year.  |
| TOTAL CURRENT<br>LIABILITIES     | The sum of trade creditors, short term debt and other current liabilities.   |
| TOTAL DEBT / WORKING<br>CAPITAL  | Total debt as a ratio of working capital.  |
| TOTAL DEBT                       | This amount is obtained by adding short term loans to the long term loans.   |
| TOTAL LIABILITIES                | The sum of capital employed and total current liabilities.   |
| TRADING PROFIT MARGIN            | Trading profit as a percentage of sales.   |
| TRADING PROFIT                   | Operating profit plus depreciation.  |
| VALUE ADDED /<br>EMPLOYEES       | Value added (adjusted for profits) expressed in monetary terms per employee.   |
| VERTICAL INTEGRATION             | Value added as a percentage of sales. Both value added & sales are adjusted for profits to minimize that portion of the relationship with ROI affected by under or overstated earnings.  |
| WAGES / REVENUES                 | Employee remuneration divided by Revenues.   |
| WORKING CAPITAL /<br>REVENUES    | Working capital over Revenues.   |
| WORKING CAPITAL                  | The short-term funding to carry out day to day trading activities, it is obtained by subtracting total current liabilities from the current assets.  |
|                                  |  |

# **Industry Norms Definitions**

The data in this section derives data from 3,733 worldwide companies and organisations (Suppliers and Distribution Channel members).

Norms for the Product industry are shown in this section. This represents the major industry sector data for the industry in each country and as such forms the basis of international comparison.

Only the most critical factors should be compared with the various scenarios given above as industry averages can at best represent an indication and not a specific point of measure.

Reliance on Industry Norms is often used by analysts in order to support theories and suppositions and these are in turn used for investment scenarios. In fact Industry Norms or Averages are not tangible as they combine and manipulate data from companies in wide ranging activities.

Much of the benefit in the analysis of Industry Norms is to use the data to provide guide-lines or parameters which can be seen to define and identify issues for the target industry sector.

Since these Industry Norms should be representative of the entire industry it is wise to provide an average which encompasses all the major countries in the trade cell.

## **INDUSTRY NOTES + DEFINITIONS**

- 01. OEM & Manufacturers Market Level
- 02. Wholesale & Distributor Market Level
- 03. Retailer & Added Value Retailer Market Level
- 04. End User & Consumer Market Level
- 05. Discounted & Promotional Market Level
- 06. Plant & Equipment Average Annual Investment
- 07. Product Prices / Market Average Index
- 08. New Products Introduction Index
- 09. Relative output of Products of a Superior Quality Index
- 10. Index of Comparative Salesforce and Selling Expenditure
- 11. Index of Comparative Advertising Expenditure
- 12. Index of Comparative General Promotional Expenditure
- 13. Product Adoption Rates
- 14. Product Sales Conversion Rates
- 15. Average Annual Sales Growth Rate
- 16. Capacity Utilization as a measure of Standard Capacity
- 17. Standardized Products & Services Index
- 18. Relative Employee Compensation Index
- 19. Instable Market Share as an Index of Total Market Share
- 20. Relative Forward Integration Index
- Plant and Equipment Investment greater than Depreciation Plant and Equipment Investment Equal to Depreciation Plant and Equipment Investment Less than Depreciation Plant and Equipment Investment - Unallocated
- 22. Plant and Equipment in Use within the range 0-3 years Plant and Equipment in Use within the range 3-6 years

Plant and Equipment in Use within the range 6-9 years Plant and Equipment in Use over years 9 old / Unallocated

- 23. Supplier Concentration = 8 Largest
   Supplier Concentration = 20 Largest
   Supplier Concentration = 50 Largest
   Supplier Concentration = Unspecified / Unallocated
- 24. Immediate Wholesale & Retail Customers Immediate OEM and Manufacturing Customers Immediate Consumer and End User Customers Immediate Non-Specific Customers / Unallocated
- Enterprises within the Range 1-19 Employees
   Enterprises within the Range 20-99 Employees
   Enterprises within the Range 100+ Employees
   Enterprises within Unspecified / Unallocated Employee Ranges
- 26. Buyer Age Profile in the range 0-19 Years Buyer Age Profile in the range 20-24 Years Buyer Age Profile in the range 25-34 Years Buyer Age Profile in the range 35-44 Years Buyer Age Profile in the range 45-54 Years Buyer Age Profile in the range 55-64 Years Buyer Age Profile in the range 65+ / Unallocated Years
- 27. Buyer Profile in the AB Social Group
  Buyer Profile in the C1 Social Group
  Buyer Profile in the C2 Social Group
  Buyer Profile in the DE / Unallocated Social Group
- 28. End User Age Profile in the range 0-19 Years End User Age Profile in the range 20-24 Years End User Age Profile in the range 25-34 Years End User Age Profile in the range 35-44 Years End User Age Profile in the range 45-54 Years End User Age Profile in the range 55-64 Years End User Age Profile in the range 65+ / Unallocated Years
- 29. End User Profile in the AB Social Group End User Profile in the C1 Social Group End User Profile in the C2 Social Group
- 01. End User Profile in the DE / Unallocated Social Group

3,733 Entities Cordage & Ropes



# **Company Targets**

# Cordage & Ropes

# This database contains data on 3,733 significant worldwide Companies (Suppliers and Distribution Channel members).

Once users have identified from the Market document the Products or Services of interest, together with the Countries of interest (based on the Markets, Profitability, Industry data, and other criteria) a next step is to access data on the Company Targets, i.e. the individual Companies, Organisations and other Entities.

## Users can get the data in several sections.

The **Procurement Data** provides information on the \$ Values and/or Quantities/Volumes of Materials, Products and Services purchased by individual Companies and Organisations. In addition to the Materials, Products & Services listed above, additional breakdowns and more detailed product and service data is available from the raw surveys.

The **Sales Data** provides information on the \$ Values and/or Quantities/Volumes of Products and Services sold by individual Companies and Organisations. In addition to the Products & Services listed above, additional breakdowns and more detailed product and service data is available from the raw surveys.

The **Trade Buyer & End User Data** provides information on the Trade Buyers and End Users of individual Companies and Organisations.

The **Survey Data** provides information on the Surveys of Products & Services, Operations, Buyer & Decision Maker Profiles, Trading Area, and Competitors.

The **Corporate Data** provides information on target companies or organisations and this will give readers a detailed understanding of the target.

## **Cost + Delivery**

Costs depend on the data required. A quotation of cost and delivery will be provided on request from the After-Sales Service (see below).

# Procurement & Input Data

## **Demand for Input Materials, Products & Services**

The Procurement Data provides information on the \$ Values and/or Quantities/Volumes of Materials, Products and Services purchased by individual Companies and Organisations.

In addition to the Materials, Products & Services listed, additional breakdowns and more detailed product and service data is available from the raw surveys.

This will always include data, by year Historic: from 1997, and a Forecast by year to 2040. Data can be provided for up to 200 countries.

The client can specify Input Materials / Product / Services breakdowns as needed.

# Sales Data

## **Sales of Products & Services**

The Sales Data provides information on the \$ Values and/or Quantities/Volumes of Products and Services sold by individual Companies and Organisations.

In addition to the Products & Services listed above, additional breakdowns and more detailed product and service data is available from the raw surveys.

This will always include data, by year Historic: from 1997, and a Forecast by year to 2040. Data can be provided for up to 200 countries.

The client can specify Product / Services Market breakdowns as needed.

# Trade Buyers & End User Data

## **Trade Buyers**

This data can investigate the Trade Buyers in the selected industries. The data is based on a series of existing Databases and raw survey data. The client can specify information as needed.

## **End Users**

This data can investigate the End Users in the selected industries. The data is based on a series of existing Databases and raw survey data. The client can specify information as needed.

# Survey Data

## Survey Data for the Products & Industries

Each survey (Suppliers, Distribution Channels, Decision Makers, Trade Buyers and End Users) contains 5 sub-sets for Products, Physical Operations, Buyer & End Users, Trading Area, & Competitors in the selected Industries.

| Products                        | The client can specify information as needed. |
|---------------------------------|---|
| <b>Physical Operations</b>      | The client can specify information as needed. |
| Buyer & Decision Maker Profiles | The client can specify information as needed. |
| Trading Area                    | The client can specify information as needed. |
| Competitors                     | The client can specify information as needed. |

These surveys cover the Industries, Products, Competitors, Operations and Product Flows in terms of the Suppliers, Distributors, Decision Makers, and End Users.

## **Industry & Supplier Performance**

One can investigate the product Industry in the selected Industries. Industry Performance Survey results. The client can specify information as needed.

## **Distribution Channels**

One can investigate the product Distribution Channels in the selected Industries. Distribution Survey results. The client can specify information as needed.

## **Decision Makers**

One can investigate the product Buyers and Purchasing Decision Makers in the selected Industries. Purchasing Decision Makers Survey results. The client can specify information as needed.

## **Trade Buyers & End Users**

One can investigate the End Users in the selected Industries. Trade Buyer & End User Survey results. The client can specify information as needed.

# Corporate Data

This database contains data on 3,733 significant Companies (Suppliers and Distribution Channel members) worldwide.

The Corporate Data provides information on target companies or organisations and this will give readers a detailed understanding of the target company.

This part is provided as a PDF file or a 🖭 Word file, as specified by the client.

# Sample Data Objectives for each Target Company

The data objectives have to be set by the client and were possible these will be achieved by the research. For example:-

- 1. Financials: historical sales, forecasted sales, gross profit margin.
  - a. By industry sector and application sector as defined by the client.

For example, for the sales made by a Target Company those products sold to specific categories of customers, how much of their revenue is generated from providing various products, or application to specific categories of customers, et cetera.

- 2. A list of products produced by the Target Company or sourced from other suppliers.
- 3. Type of distribution channel, e.g. direct sales to End Users, OEM sales, via specifiers, via importers or distributor, partnering with third party providers, et cetera.
- 4. Partners by type (e.g. specifiers, product distributor, customer service partner) per country
- 5. Pricing by product sector defined by the client.
- 6. Discount structures
- 7. Capacity by product/market defined
- 8. Availability of products (% of product in stock versus product to be ordered)
- 9. Sales by the type of Support for all categories specified by the client.
- 10. The average Modernization and Upgrades period by Product Sector defined by the client.
- 11. Customer Perceptions
- 12. The size (in terms of number) of management team per country, number of field sales persons per country, number of customer service staff per country.
- 13. Countries covered by the competitors, production sites (city), customer service sites (city), headcount, documentation.
- 14. Technology and innovation: innovative technology or application developments.
- 15. Et cetera... The client can specify any particular data which needs to be covered.

# **List of Target Companies**

The Client may either select the target themselves, or can specify the Top 10 or Top 15 in the World / Europe / individual Country / et cetera. The client can specify here which Target Companies are to be covered.

# Base data objectives for the Target Company

### **Key Personnel**

- 1. Chairman
- 2. Chief Executive
- 3. Directors:
- 4. Executives:

#### **Corporate Summary**

- 5. Company Description
- 6. Company History
- 7. Legal Entity & Ownership
- 8. Company Facilities
- 9. Company Key Assets
- 10. Mainline product / service
- 11. Product / services provided
- 12. Parent Company
- 13. Bankers
- 14. Year established
- 15. Current employees
- 16. Issued capital
- 17. Shareholders
- 18. Last published turnover
- 19. Subsidiaries
- 20. Associated companies
- 21. Companies represented
- 22. Agencies
- 23. Physical processing locations
- 24. Capital investment
- 25. Advertising expenditure
- 26. Advertising media
- 27. Advertising posture
- 28. Sales promotion activity
- 29. Method of selling
- 30. Distribution
- 31. Distribution network
- 32. Use of distribution channels

#### **SWOT Analysis**

- 53. Strengths
- 54. Weaknesses
- 55. Opportunities
- 56. Threats

#### Goals

- 64. Renovating premises, stocking, staff & marketing.
- 65. Industry Penetration
- 66. Penetrate and raise awareness in target markets.
- 67. Achieving a higher profit margin.
- 68. Building the customer base.
- 69. Generate repeat and referral sales.
- 70. Expansion potential.
- 71. Reputation as a quality Supplier.

#### **Exit Strategies**

#### **Corporate Observations**

- . 33. Premises
- 34. Product Brands
- 35. Product Sales Channels
- 36. Products Carried & Services Offered
- 37. Consumer Features & Benefits
- 38. Current Industry Analysis
- 39. Competition
- 40. Competitive Advantage
- 41. Target Industries
- 42. Target Customers
- 43. Current Strategy & Implementation
- 44. Current Management
- 45. Current Financial Plan
- 46. Investment Fund Sources & Use of Funds
- 47. Future Target Customers
- 48. Future Process Trends
- 49. Future Industry Analysis
- 50. Projected Industry Size
- 51. Planned Products & Services
- 52. Development Plans

#### **Future Strategy Planning & Implementation**

- 57. Philosophy
- 58. Product Development
- 59. Internet Strategy
- 60. Marketing Strategy
- 61. Sales Strategy
- 62. Strategic Alliances
- 63. Operations

#### Management

- 72. Organisational Structure
- 73. Leadership
- 74. Staff Members

#### **Financial Plans**

- 75. Finance Requirements
- 76. Use of Funds
- 77. Cash Flow
- 78. Balance Sheet Topics
- 79. Financial Assumptions

# Specific Additional corporate data required on Target Companies

The client can specify any particular corporate data which is needed:

- 80. -81. -
- 82. Et cetera

These above items are a qualitative analysis of the Target Company. This data is derived from the Surveys of Industry sources, Distribution Channels and Buyers of the products supplied by the target company. This data is not quantified, but is presented as the qualified and subjective opinions of those responding to the surveys.

## **Financial Data for the Target Company**

The financial data is provided in sections:-

- 1. the most salient Management figures and margins, and
- 2. a full Balance Sheet and Management Accounts simulation.

## **Management Accounts**

Management figures for the Target Company: Management figures for the Target Company:

- 1. Product Revenue
- 2. Product Profitability as a % Revenue
- 3. Total Process Space
- 4. Average Site Process Space
- 5. Average Site Revenues
- 6. Average Site Establishment Cost
- 7. Fixed Assets: Premises
- 8. Fixed Assets: Equipment
- 9. Fixed Assets: Miscellaneous Items
- 10. Fixed Assets
- 11. Capital Expenditure on Premises
- 12. Capital Expenditure on Plant
- 13. Capital Expenditure on Equipment
- 14. Cap. Expend. on Data Processing
- 15. Capital Expenditure on Misc. Items
- 16. Total Capital Expenditure
- 17. Retirements: Premises
- 18. Retirements: Plant & Equipment
- 19. Retirements: Miscellaneous Items
- 20. Total Retirements

- 21. Total Fixed Assets
- 22. Finished Product Stocks
- 23. Work in Progress as Stocks
- 24. Materials as Stocks
- 25. Total Stocks / Inventory
- 26. Debtors
- 27. Miscellaneous Current Assets
- 28. Total Current Assets
- 29. Total Assets
- 30. Creditors
- 31. Short Term Loans
- 32. Miscellaneous Current Liabilities
- 33. Total Current Liabilities
- 34. Net Assets / Capital Employed
- 35. Long Term Loans
- 36. Miscellaneous Long Term Liabilities
- 37. Shareholders' Funds
- 38. Process Workers
- 39. Total Employees

## Specific Additional Financial data required on Target Companies

The client can specify any particular Financial data which is needed.

# **Balance Sheet and Management Ratios**

Balance Sheet and Management Accounts for the Target Company: 💹 as an Excel file:

- 1. Return on Capital
- 2. Return on Assets
- 3. Return on Shareholders' Funds
- 4. Pre-tax Profit Margins
- 5. Operating Profit Margin
- 6. Trading Profit Margin
- 7. Return on Investment
- 8. Assets Utilisation (Sales to Total Assets)
- 9. Sales as a ratio of Fixed Assets
- 10. Stock Turnover (Sales as a ratio of Stocks)
- 11. Credit Period
- 12. Creditors' Ratio (Creditors / Sales times 365 days)
- 13. Default Debtors / Ratio of Total Debtors
- 14. Un-Recoverable Debts Ratio of Total Debts
- 15. Working Capital / Sales
- 16. Materials & Energy Costs as a % Revenue
- 17. Added Value
- 18. Investment as a Ratio of Added Value
- 19. Value of Plant & Equipment % Revenue
- 20. Vertical Integration (Value Added % Revenue)
- 21. Research & Development Investment % Revenue
- 22. Capital Expenditure Investment % Revenue
- 23. Marketing Costs as a % Revenue
- 24. Current Ratio (Current Assets/Liabilities)
- 25. Quick Ratio
- 26. Borrowing Ratio Total Debt ratio of Net Worth)
- 27. Equity Ratio (Shareholders Funds : Total Liabilities)
- 28. Income Gearing
- 29. Total Debt as a ratio of Working Capital
- 30. Debt Gearing Ratio (Long Term Loans: Net Worth)
- 31. Average Remuneration (all employees)
- 32. Profit per Employee
- 33. Sales per Employee
- 34. Remunerations / Sales
- 35. Fixed Assets per Employee
- 36. Capital Employed per Employee
- 37. Total Assets per Employee
- 38. Value of Average Investment per Employee
- 39. Value Added per Employee
- 40. Materials Costs as a % Revenue
- 41. Wage Costs as a % Revenue
- 42. Payroll and Wages as a Ratio to Materials
- 43. Variable Costs as a % Revenue
- 44. Fixed Costs as a % Revenue
- 45. Fixed Costs as a Ratio of Variable Costs
- 46. Distribution Costs as a % Revenue
- 47. Warehousing Costs as a % Revenue
- 48. Physical Costs as a % Revenue
- 49. Fixed as a Ratio of Variable Distribution Costs
- 50. Fixed as a Ratio of Variable Warehousing Costs
- 51. Fixed as a Ratio of Variable Physical Costs
- 52. Fixed Ratio of Variable Total Distribution Costs
- 53. Product Returns Costs % Revenue
- 54. Product Installation Costs as a % Revenue
- 55. Product Breakdown Costs as a % Revenue
- 56. Product Systems Costs as a % Revenue
- 57. Product Service & Associated Costs % Revenue
- 58. Customer & Associated Costs % Revenue
- 59. Work in Progress / Materials Ratio Finished Products
- 60. Stock

- 61. Un-recoverable Debts Ratio of Total Debt
- 62. Un-recoverable Debts Ratio Within Terms
- 63. Total Sales Costs as a % Revenue
- 64. Total Distribution Costs as a % Revenue
- 65. Total Advertising Costs as a % Revenue
- 66. Total After-Sales Costs as a % Revenue
- 67. Total Customer Compensation Costs
- 68. Total Variable Marketing Costs % Revenue
- 69. Total Fixed Marketing Costs % Revenue 70. Total Fixed Marketing Costs : Ratio Variable Costs
- 71. Variable Sales Personnel Costs: Marketing
- 72. Variable Distribution Ratio Marketing Costs
- 73. Variable Advertising Costs : Marketing
- 74. Variable After-Sales Costs as a Ratio of Marketing Costs
- 75. Sales Personnel Variable Costs : Sales
- 76. Sales Personnel Variable Costs : Debtors
- 77. Sales Personnel Variable Costs
- 78. Exports as a % Revenue
- 79. \$ Hourly Pay Rate
- 80. \$ Hourly Wage Rate
- 81. Capital Employed
- 82. Return on Capital
- 83. Return on Assets
- 84. Return on Shareholders' Funds
- 85. Pre-tax Profit Margins
- 86. Operating Profit Margin
- 87. Trading Profit Margin
- 88. Return on Investment
- 89. Assets Utilisation (Sales : Total Assets)
- 90. Sales / Fixed Assets Materials Ratio Work in Progress

Value of Plant & Equipment as a % Revenue

Capital Expenditure Investment % Revenue

Total Debt as a ratio of Working Capital

Average Remuneration (all employees)

Value of Average Investment / Employee

33

Research & Development Investment as a % Revenue

- 91. Stock Turnover (Sales as a ratio of Stocks)
- 92. Credit Period
- 93. Creditors' Ratio
- 94. Default Debtors Ratio of Total Debtors

Vertical Integration Ratio

- 95. Un-Recoverable Debts Ratio of Total Debts
- 96. Working Capital / Sales

Current Ratio

**Borrowing Ratio** 

Income Gearing

**Debt Gearing Ratio** 

Profit per Employee

Sales per Employee

Remunerations / Sales Fixed Assets per Employee

Capital Employed per Employee

Total Assets per Employee

Value Added per Employee

Quick Ratio

Equity Ratio

97. Materials & Energy Costs as a % Revenue

Marketing Costs as a % Revenue

98. Added Value99. Investment as a Ratio of Added Value

100.

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# **Supplementary Data**

#### The client can specify information as needed.

This section can be used to specify non-Industry or non-Corporate data and research, for example:-

- Product Data
- Distribution Data
- Processes
- Technologies
- Macro-Economic Issues
- Political Issues
- National Legislation and Regulations
- Product Certification and Conformity Issues
- Demographic Data
- Physical & Geographical data (for example, Highways, Elevations, et al)
- Business Resources
- Et cetera...





# Cordage & Ropes

**Database** Editions

# Upgrade to the full Database Edition at a reduced cost

To upgrade to the full Database Edition you can use the coupon in the Market Edition to order the upgrade database edition you need at a reduced cost.

To claim your Coupon please contact your usual Dealer, and you will be supplied with the Database Edition of your choice.

World Database: Cost \$ 2850, less the Coupon value of \$500.

Regional Database: Cost \$ 1850, less the Coupon value of \$300.

Country & City Database: Cost \$ 2850, less the Coupon value of \$500.

Country Database: Cost \$ 1250, less the Coupon value of \$300.

Delivery

Online delivery of a Zipped file in 24 hours; plus an optional back-up DVD shipped in 1 working day.





# Cordage & Ropes

# **Database Editions**



www.datagroup.org



# Editions available

### Cordage & Ropes

The report on Cordage & Ropes is available is several editions, and also there are various additional elements available from the After-Sales Service.

### World Database

The World Database gives market data for Cordage & Ropes on each of the Product and Market Sectors for about 200 countries. There are data caveats on country data because in certain countries the data may not be available.

### **Regional Database**

There are 9 Regional Databases available which give market data for Cordage & Ropes on each of the Product and Market Sectors for countries in a particular Region. There are data caveats for some country data because in certain countries the data may not be available.

- 1. Canada & USA
- 2. Central America (31 Countries)
- 3. South America (13 Countries)
- 4. Europe (44 Countries)
- 5. Eurasia (4 Countries)
- 6. Middle East (19 Countries)
- 7. Africa (54 Countries)
- 8. Asia (24 Countries)
- 9. Oceania (17 Countries)

See the countries in each Regional Report : Appendix 1

## **Country Database**

There are Cordage & Ropes Country Database available for most countries. Country Reports provide detailed information on the target country.

# Country & City Database

The Cordage & Ropes Country + City Database provides users with commercial intelligence on markets and industry in a particular country, plus market, financial and industry data on each of the significant Cities and Towns in the country. For the larger countries, like China, India, the USA, Brazil, et al, the data is generally limited to the top 500 Cities and Towns within the country.

# Markets, Products & Services

The report will give Market data for each of the below Cordage & Ropes Product Sectors, by year Historic: from 1997, and a Forecast by year to 2040. Data will be given for about 200 countries.

To see what such Country spreadsheets looks like (*illustrative examples only*):

http://www.datagroup.org/XLS\_File\_Samples/M0M.xls http://www.datagroup.org/XLS\_File\_Samples/Germany\_Market.xls http://www.datagroup.org/XLS\_File\_Samples/Germany\_Market\_Values.xls (US\$, Euros, Yen & Yuan)

In addition aggregate Market data is given (illustrative examples only):

World / Global Totals (in US\$, Euros, Yen and Yuan) http://www.datagroup.org/XLS File Samples/WORLD Market Values Dollar Euro.xls http://www.datagroup.org/XLS\_File\_Samples/WORLD\_Market\_Values\_Yen\_Yuan.xls

9 Regional (Canada & USA, Central America, South America, Europe, Eurasia, Middle East, Africa, Asia, Oceania) Totals (in US\$, Euros, Yen and Yuan): <u>http://www.datagroup.org/XLS\_File\_Samples/Europe\_Market\_Values\_Dollar\_Euro.xls</u> <u>http://www.datagroup.org/XLS\_File\_Samples/Europe\_Market\_Values\_Yen\_Yuan.xls</u>

Year / Country Totals (1997 to 2040). http://www.datagroup.org/XLS\_File\_Samples/Year\_2010\_Country\_Values\_Dollars.xls

Code: W0283\_L Cordage and ropes

# **Products covered**

#### **CORDAGE + ROPES**

- 1. Cordage & ropes
- 2. Cables & lines, textile, industrial
- 3. Cargo slings, textile
- 4. Clothes lines, textile
- 5. Cords & lines, glass fibre
- 6. Cords for blinds
- 7. Cords for gaskets
- 8. Cords for sashes & pictures
- 9. Cords for the clothing industry
- 10. Cords for the textile industry
- 11. Cords, braided
- 12. Cords, endless
- 13. Cords, glass fibre reinforced
- 14. Cords, impregnated
- 15. Cords, man-made fibre
- 16. Cords, metallised
- 17. Cords, natural fibre
- 18. Cords, paper
- 19. Cords, parachute & similar
- 20. Cords, plastic or latex coated
- 21. Cords, silk & cotton waste
- 22. Ladders, rope
- 23. Lines, textile, rocket
- 24. Lines, textile, tracing
- 25. Ropes & halters for animals
- 26. Ropes for climbing & mountaineering
- 27. Ropes, braided
- 28. Ropes, coated
- 29. Ropes, handrail
- 30. Ropes, impregnated
- 31. Ropes, man-made fibre
- 32. Ropes, marine
- 33. Ropes, natural fibre
- 34. Ropes, restraining & lashing for cargo/freight
- 35. Ropes, stay, insulating, for radio masts & towers
- 36. Ropes, steel cable core
- 37. Ropes, tarred
- 38. Ropes, textile, transmission
- 39. Slings, rope
- 40. Tow ropes
- 41. Cordage & ropes, nsk

# **Geographic Coverage**

Albania Algeria Angola Argentina Armenia Aruba Australia Austria Azerbaijan Bahamas **Bahrain Bangladesh Barbados Belarus Belgium** Belize **Bhutan Bolivia** Bosnia + Herzegovina **Botswana** Brazil **Brunei** Bulgaria **Burma** Cambodia Cameroon Canada Chile China Colombia **Republic of Congo** D R Congo - Zaire Costa Rica Cote d'Ivoire Croatia Cuba Cyprus **Czech Republic** Denmark Dominica **Dominican Republic** Ecuador Egypt El Salvador Estonia Ethiopia Finland France French Guiana Gabon Gambia Georgia

Germany Ghana Greece Guadeloupe Guatemala Guinea Guinea-Bissau Guyana Haiti Honduras Hong Kong Hungary Iceland India Indonesia Iran Iraq Ireland Israel Italy Jamaica Japan Jordan Kazakhstan Kenva Korea South **Kuwait Kyrgyzstan** Laos Latvia Lebanon Lesotho Liberia Libya Lithuania Luxembourg Macedonia Madagascar Malawi Malaysia Martinique **Mauritius Micronesia** Mexico Moldova Mongolia Morocco Mozambique Namibia **Netherlands Netherlands Antilles New Zealand** 

Nicaragua Nigeria Norway Oman Pakistan Panama Papua Paraguay Peru **Philippines** Poland Portugal **Puerto Rico** Qatar Reunion Romania **Russia** Saudi Arabia Senegal Serbia + Montenegro Sierra Leone Singapore Slovakia Slovenia South Africa Spain Sri Lanka Sudan Suriname Swaziland Sweden Switzerland Syria Taiwan Tajikistan Tanzania Thailand Trinidad Tunisia Turkey Turkmenistan Uganda Ukraine **United Arab Emirates United Kingdom United States** Uruguay Uzbekistan Venezuela Vietnam Zambia Zimbabwe

See Data Caveat below.

# **Financial Data**

The databases will give Financial data for each of the below Cordage & Ropes Financial Data and Margins, by country, by year Historic from 1997, and a Forecast by year to 2040. Data will be given for EACH of the countries covered.

### **Balance Sheet Data**

To see what such a spreadsheet looks like: http://www.datagroup.org/XLS\_File\_Samples/FOM.xls

Total Revenues, Domestic Revenues, Exports, Pre-tax Profit, Interest Paid, Non-trading Income, Operating Profit, Depreciation: Structures, Depreciation: Plant and Equipment, Depreciation: Miscellaneous Items, Total Depreciation, Trading Profit, Intangible Assets, Intermediate Assets, Fixed Assets: Structures, Fixed Assets: Plant and Equipment, Fixed Assets: Miscellaneous Items, Fixed Assets, Capital Expenditure on Structures, Capital Expenditure on Plant and Equipment, Capital Expenditure on Vehicles, Capital Expenditure on Data Processing Equipment, Capital Expenditure on Miscellaneous Items, Total Capital Expenditure, Retirements: Structures, Retirements: Plant and Equipment, Retirements: Miscellaneous Items, Total Retirements, Total Fixed Assets, Finished Product Stocks, Work in Progress as Stocks, Materials as Stocks, Total Stocks / Inventory, Debtors, Total Maintenance Costs, Services Purchased, Miscellaneous Current Assets, Total Current Assets, Total Assets, Creditors, Short Term Loans, Miscellaneous Current Liabilities, Total Current Liabilities, Net Assets / Capital Employed, Shareholders Funds, Long Term Loans, Miscellaneous Long Term Liabilities, Workers, Hours Worked, Work in 1st Quarter, Work in 2nd Quarter, Work in 3rd Quarter, Work in 4th Quarter, Total Employees, Raw Materials Cost, Finished Materials Cost, Fuel Cost, Electricity Cost, Total Input Supplies Materials and Energy Costs, Payroll Costs, Wages, Directors' Remunerations, Employee Benefits, Employee Commissions, Total Employees Remunerations, Sub Contractors, Rental & Leasing: Structures, Rental & Leasing: Plant and Equipment, Total Rental & Leasing Costs, Maintenance: Structures, Maintenance: Plant and Equipment, Communications Costs, Miscellaneous Expenses, Sales Personnel Variable & Commission Costs, Sales Expenses and Costs, Sales Materials Costs, Total Sales Costs, Distribution Fixed Costs, Distribution Variable Costs, Warehousing Fixed Costs, Warehousing Variable Costs, Physical Handling Fixed Costs, Physical Handling Variable Costs, Physical Process Fixed Costs, Physical Process Variable Costs, Total Distribution and Handling Costs, Mailing & Correspondence Costs, Media Advertising Costs, Advertising Materials & Print Costs, POS & Display Costs, Exhibition & Events Costs, Total Advertising Costs, Product Returns & Rejection Costs, Product Installation & Re-Installation Costs, Product Breakdown & Post Installation Costs, Product Systems & Configuration Costs, Product Service & Maintenance Costs, Customer Problem Solving & Customer Complaint Costs, Total After-Sales Costs, Total Marketing Costs, New Technology Expenditure, New Production Technology Expenditure, Total Research and Development Expenditure, Total Operational & Process Costs, Debtors within Agreed Terms, Debtors Outside Agreed Terms, Un-recoverable Debts.

### Financial Margins & Ratios Data

To see what such a spreadsheet looks like: http://www.datagroup.org/XLS\_File\_Samples/GOM.xls

Return on Capital, Return on Assets, Return on Shareholders' Funds, Pre-tax Profit Margins, Operating Profit Margin, Trading Profit Margin, Return on Investment, Assets Utilisation (given as a ratio of Sales to Total Assets), Sales as a ratio of Fixed Assets, Stock Turnover (Sales as a ratio of Stocks), Credit Period, Creditors' Ratio (given as Creditors divided by Sales times 365 days), Default Debtors given as a Ratio of Total Debtors, Un-Recoverable Debts given as a Ratio of Total Debts, Working Capital / Sales, Materials & Energy Costs as a % Revenue, Added Value, Investment as a Ratio of Added Value, Value of Plant & Equipment as a % Revenue, Vertical Integration (Value Added as a % Revenue), Research & Development Investment as a % Revenue, Capital Expenditure Investment as a % Revenue, Marketing Costs as a % Revenue, Current Ratio (Current Assets as a ratio of Current Liabilities), Quick Ratio, Borrowing Ratio (or Total Debt as a ratio of Net Worth), Equity Ratio (Shareholders Funds as a ratio of Total Liabilities), Income Gearing, Total Debt as a ratio of Working Capital, Debt Gearing Ratio (Long Term Loans as a ratio of Net Worth), Average Remuneration (all employees - full and part), Profit per Employee, Sales per Employee, Remunerations / Sales, Fixed Assets per Employee, Capital Employed per Employee, Total Assets per Employee, Value of Average Investment per Employee, Value Added per Employee, Materials Costs as a % Revenue, Wage Costs as a % Revenue, Payroll and Wages as a Ratio to Materials, Variable Costs as a % Revenue, Fixed Costs as a % Revenue, Fixed Costs as a Ratio of Variable Costs, Distribution Costs as a % Revenue, Warehousing Costs as a % Revenue, Physical Costs as a % Revenue, Fixed as a Ratio of Variable Distribution Costs, Fixed as a Ratio of Variable Warehousing Costs, Fixed as a Ratio of Variable Physical Costs, Fixed as a Ratio of Variable Total Distribution & Handling Costs, Product Returns & Rejections Costs as a % Revenue, Product Installation & Associated Costs as a % Revenue, Product Breakdown & Associated Costs as a % Revenue, Product Systems & Associated Costs as a % Revenue, Product Service & Associated Costs as a % Revenue, Customer Complaint & Associated Costs as a % Revenue, Stock Work in Progress & Materials as a Ratio of Finished Products, Stock Materials as a Ratio of Work in Progress, Un-recoverable Debts as a Ratio of Total Debt, Un-recoverable Debts as a Ratio of Debts Within Agreed Terms, Total Sales Costs as a % Revenue, Total Distribution & Handling Costs as a % Revenue, Total Advertising Costs as a % Revenue, Total After-Sales Costs as a % Revenue, Total Customer Compensation Costs as a % Revenue, Total Variable Marketing Costs as a % Revenue, Total Fixed Marketing Costs as a % Revenue, Total Fixed Marketing Costs as a Ratio of Total Variable Marketing Co, Variable Sales Personnel Costs as a Ratio of Marketing Costs, Variable Distribution & Handling Costs as a Ratio of Marketing Costs, Variable Advertising Costs as a Ratio of Marketing Costs, Variable After-Sales Costs as a Ratio of Marketing Costs, Sales Personnel Variable Costs as a Ratio of Sales, Sales Personnel Variable Costs as a Ratio of Debtors, Sales Personnel Variable Costs as a Ratio of Un-Recoverable Debtors, Exports as a % Revenue, \$ Hourly Pay Rate, \$ Hourly Wage Rate, Capital Employed.

# **General Contents**

# Cordage & Ropes World Database

This report provides commercial intelligence on industries in over 200 countries. The report analyses the world Market with a basic point of reference, namely a base reference country.

These reports give both a narrative description of the matters covered as well as provide users the ability to directly use the Chapters (via Microsoft Word) to produce their own reports and documentation. Experienced users will be able to use the spreadsheet and databases to generate detailed narrative reports, charts and graphics - as well as sophisticated business and commercial forecasts and models. The databases are provided in both Excel spreadsheets and an Access database. Explanatory notes are provided as Word or PDF formats.

As an entry level product the narrative is necessarily illustrative in its terminology and seeks to provide a basic degree of business logic and theory which indicates the rational applied in the forecasting and modelling methodology.

The databases are specifically designed to provide users with a uniform and consistent numeric measure of both (normally) quantifiable values as well as conceptual factors which are (usually) only capable of qualification. Experienced users will know how to apply forecasting and modelling software to the numeric data provided to generate highly detailed and discrete business planning models. The databases provided in this report can be used directly with databases on other product, markets and industries in other countries. The databases are specifically designed to be transnational, currency neutral, inflation and purchasing parity adjusted, product parity and product equivalent adjusted, opportunity cost adjusted, and numerically compatible; they all can be linked or merged programmatically in business planning models to provide multi-national and multi-level analysis.

The databases are designed to give a common definition, unit of measure and quantification of markets in over 200 countries. These rely on data collection at various levels of the product flow; this effectively means: the producer, the distribution channels and the end user or consumers. This data is then correlated with any national and international statistical data produced by official agencies. Unfortunately, product flow data gathering in some countries is difficult, and furthermore the official statistical data is both inaccurate and sparse. In such circumstances, in some countries, we have to flag a Data Caveat as a warning.

### **Choice of Base Reference Country**

As report databases are generated specifically for each client order, the client can select which Base Country the database uses. The choice of a Base Country is important as it puts the database into the client's own perspective. This is important, for example, in respect of Purchasing Parity data or the results of End User Survey data where the world data is presented from the relative position of the Base Country.

# **Database Edition Market Research Contents**

Please also see the Notes to the contents: Notes

Within each heading there are links with detailed descriptions and explanation of the contents; these can be opened when the link is clicked.

| Chapters | Pages | Volumes Diagrams, Maps<br>& Illustrations |        | Spreadsheets &<br>Database tables               |  |  |
|----------|-------|---|--------|---|--|--|
| 59       | 2189  | Online & DVD                              | c. 500 | Excel Spreadsheets: 9877<br>Access tables: 9780 |  |  |

## **Databases & Structures**

|            | Cordage & Ropes Database  |
|------------|---|
| Root       | This folder contains a number of general files, plus the various main Chapter Files.  |
| Folder     | Summary Documents   |
|            | The Report contains 2 Summary documents for the Market Research which can be opened in a Browser or as a Word document and paginated.   |
|            | If required these files can then be saved as PDF files:-  |
|            | 1. MR_Executive_Summary_Brief.html will render into about 70 pages.   |
|            | 2. MR_Executive_Summary.html will render into about 950 pages.  |
| • 💼<br>• 💼 | This folder contains the main Market Research files.<br><b>Corporate Research</b><br>Where the database is specified as having Corporate Intelligence, this folder contains the main<br>Corporate Research files.<br><b>Research Data</b><br>This folder contains the Market Research files which are specific to this edition of the report.<br><b>BUSINESS PLANNING</b><br>This folder contains the Business Plan Documents & Boilerplates<br>Also see the Business Plan Images folder in Toolkit 1 |
| • 🛅        | BASE_FOLDERS Significant folders include:-  |
| •          | <b>CHAPTERS in HTM</b> HTM files listing the Chapter contents   |
| •          | <b>Cities</b> HTM files listing Cities & Towns in the database  |
| •          | HELP Help documents Also see the HELP folder in Toolkit 1   |
| •          | MAPS  |
| •          | <ul> <li>MDB Access databases</li> <li>MarketResearch mdb</li> </ul>  |
|            | MarketResearch.mdb  |

- 1

| • World.mdb<br>World.mdb Table List  |
|--|
| World_Product_Sectors.mdb     World_Product_Sectors.mdb Table List   |
| Corporate.mdb     Corporate.mdb Table List   |
| <ul> <li>Base.mdb General &amp; Database Reference tables in 'Base_mdb_Database.zip' file</li> <li>[Size 75.8MB]</li> </ul>                |
| <ul> <li>Data.exe Supplemental Database extraction [Optional. 547 databases for<br/>Modelling Level products. Size 2.56GB]</li> </ul>      |
| <ul> <li>Auxiliary_Data.exe Auxiliary Database extraction [Optional. 44 databases for<br/>Modelling Level products. Size 298MB]</li> </ul> |
| <ul> <li>Data_Help.exe Help file extraction [Optional. 10,400 help files for Modelling<br/>Level products. Size 34MB]</li> </ul>           |
| • NAICS Classifications  |
| <ul> <li>REFERENCE Reference documents: See the REFERENCE folder in Toolkit 1</li> </ul>   |
| • 🗀 XLS 🖾 Business Planning & Database Reference Spreadsheets  |
| <ul> <li>XLS_Corporate Spreadsheets</li> <li>Corporate File List</li> </ul>  |
| <ul> <li>XLS_MarketResearch Market Research Spreadsheets</li> <li>Market Research File List</li> </ul>                                     |
|  |

### **Documents & Manuals**

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There are additional resources to be found in Toolkit 1 which can be used to assist the interpretation and manipulation of the database. These are:-

- 1. Data Manuals on the Report Contents
- Documents & Templates on the Report Contents
   Help files on the Report Contents
   Manuals & Templates on the Report Contents

For a detailed Table of Contents for each chapter, database or spreadsheet: **click** on the **Blue headings shown below.** This will open a page in your browser which fully specifies the contents of that heading.

# **Spreadsheets**



## Chapters

- 1 OVERSEAS DEVELOPMENT
- 2 ADMINISTRATION
- 3 ADVERTISING
- 4 BUYERS COMMERCIAL OPERATIONS
- 5 BUYERS COMPETITORS
- 6 BUYERS MAJOR CITY
- 7 BUYERS PRODUCTS
- 8 BUYERS TRADE CELL
- 9 COMPETITIVE INDUSTRY ANALYSIS
- **10 COMPETITOR ANALYSIS**
- 11 COUNTRY FOCUS
- 12 DISTRIBUTION
- 13 FINANCIAL BUSINESS DECISION SCENARIOS
- 14 FINANCIAL CAPITAL COSTS FINANCIAL SCENARIOS
- 15 FINANCIAL CASHFLOW OPTION SCENARIOS
- 16 FINANCIAL COST STRUCTURE SCENARIOS
- 17 FINANCIAL HISTORIC INDUSTRY BALANCE SHEET
- 18 FINANCIAL HISTORIC MARKETING COSTS & MARGINS
- 19 FINANCIAL INVESTMENT + COST REDUCTION SCENARIOS
- 20 FINANCIAL MARKET CLIMATE SCENARIOS
- 21 FINANCIAL MARKETING COSTS
- 22 FINANCIAL MARKETING EXPENDITURE SCENARIOS
- 23 FINANCIAL MARKETING MARGINS
- 24 FINANCIAL STRATEGIC OPTIONS SCENARIOS
- 25 FINANCIAL SURVIVAL SCENARIOS
- 26 FINANCIAL TACTICAL OPTIONS SCENARIOS

- 27 GEOGRAPHIC DATA
- 28 INDUSTRY NORMS
- 29 MAJOR CITY MARKET ANALYSIS
- 30 MARKET CAPITAL ACCESS SCENARIOS
- 31 MARKET CASHFLOW SCENARIOS
- 32 MARKET ECONOMIC CLIMATE SCENARIOS
- 33 MARKET INVESTMENT + COSTS SCENARIOS
- 34 MARKET MARKETING EXPENDITURE SCENARIOS
- 35 MARKET RISK SCENARIOS
- 36 MARKET STRATEGIC OPTION SCENARIOS
- 37 MARKET SURVIVAL OPTION SCENARIOS
- 38 MARKET TACTICAL OPTION SCENARIOS
- 39 MARKETING EXPENDITURE -v- MARKET SHARE
- 40 MARKETING STRATEGY DEVELOPMENT
- 41 MARKETS
- 42 OPERATIONAL ANALYSIS
- 43 PERSONNEL MANAGEMENT
- 44 PHYSICAL DISTRIBUTION + CUSTOMER HANDLING
- 45 PRICING
- 46 PROCESS + ORDER HANDLING
- 47 PRODUCT ANALYSIS
- 48 PRODUCT DEVELOPMENT
- 49 PRODUCT MARKETING FACTORS
- 50 PRODUCT MIX
- 51 PRODUCT SUMMARY
- 52 PROFIT RISK SCENARIOS
- 53 PROMOTIONAL MIX
- 54 SALESFORCE DECISIONS
- 55 SALES PROMOTION
- 56 SURVEYS
- 57 TARGETS PRODUCT + MARKET
- 58 TECHNOLOGY
- 59 TRADE CELL ANALYSIS

| Countries            | Market | Market<br>Forecast | Financial<br>Forecast | Financial<br>Margins | Historic<br>Financial | Historic<br>Costs | Industry<br>Norms |
|----------------------|--------|--------------------|-----------------------|----------------------|-----------------------|-------------------|-------------------|
| Albania              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Algeria              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Angola               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Argentina            | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Armenia              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Aruba                | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Australia            | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Austria              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Azerbaijan           | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bahamas              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bahrain              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bangladesh           | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Barbados             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Belarus              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Belgium              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Belize               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bermuda              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bhutan               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bolivia              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bosnia & Herzegovina | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Botswana             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Brazil               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Brunei               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Bulgaria             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Cambodia             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Cameroon             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Canada               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Chad                 | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Chile                | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| China                | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Colombia             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Costa Rica           | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Cote d'Ivoire        | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Croatia              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Cuba                 | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Cyprus               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Czech Republic       | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Denmark              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Dominica             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Dominican Republic   | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Ecuador              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Egypt                | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| El Salvador          | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Estonia              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Ethiopia             | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Finland              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| France               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| French Guiana        | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Gabon                | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Gambia               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Georgia              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Germany              | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Ghana                | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Greece               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Guadeloupe           | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Guatemala            | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Guinea               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Guinea-Bissau        | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |
| Guyana               | Market | Forecast           | Forecast              | Forecast             | Historic              | Historic          | Norms             |

| 1154                 | Manlant          | <b>F</b>             | Freedow              | Francis              | 1. United at a       | 1. United at a       | Name           |
|----------------------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------|
| Haiti                | Market<br>Market | Forecast             | Forecast             | Forecast             | Historic<br>Historic | Historic<br>Historic | Norms<br>Norms |
| Honduras             | Market           | Forecast             | Forecast             | Forecast             |                      |                      | Norms          |
| Hong Kong            | Market           | Forecast<br>Forecast | Forecast             | Forecast<br>Forecast | Historic<br>Historic | Historic<br>Historic | Norms          |
| Hungary<br>Iceland   | Market           | Forecast             | Forecast<br>Forecast | Forecast             | Historic             | Historic             | Norms          |
| India                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Indonesia            | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Iran                 | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Iraq                 | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Ireland              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Israel               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Italy                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Jamaica              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Japan                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Jordan               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Kazakhstan           | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Kenya                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Kuwait               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Kyrgyzstan           | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Laos                 | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Latvia               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Lebanon              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Lesotho              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Liberia              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Libya                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Liechtenstein        | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Lithuania            | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Luxembourg           | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Macedonia            | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Madagascar           | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Malawi               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Malaysia             | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Malta                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Martinique           | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Mauritius            | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Mexico               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms<br>Norms |
| Moldova              | Market           | Forecast             | Forecast<br>Forecast | Forecast             | Historic             | Historic<br>Historic |                |
| Monaco               | Market           | Forecast             |                      | Forecast             | Historic             |                      | Norms          |
| Mongolia<br>Morocco  | Market<br>Market | Forecast<br>Forecast | Forecast<br>Forecast | Forecast<br>Forecast | Historic<br>Historic | Historic<br>Historic | Norms<br>Norms |
| Mozambique           | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Namibia              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Nepal                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Netherlands          | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Netherlands Antilles | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| New Caledonia        | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| New Zealand          | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Nicaragua            | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Nigeria              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Norway               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Oman                 | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Pakistan             | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Panama               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Papua New Guinea     | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Paraguay             | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Peru                 | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Philippines          | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Poland               | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Portugal             | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Puerto Rico          | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Qatar                | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Reunion              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |
| Romania              | Market           | Forecast             | Forecast             | Forecast             | Historic             | Historic             | Norms          |

| Russia               | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
|----------------------|--------|----------|----------|----------|----------|----------|-------|
| Saudi Arabia         | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Senegal              | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Serbia & Montenegro  | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Sierra Leone         | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Singapore            | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Slovakia             | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Slovenia             | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| South Africa         | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| South Korea          | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Spain                | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Sri Lanka            | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Suriname             | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Swaziland            | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Sweden               | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Switzerland          | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Syria                | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Taiwan               | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Tajikistan           | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Tanzania             | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Thailand             | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Trinidad & Tobago    | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Tunisia              | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Turkey               | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Turkmenistan         | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Uganda               | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Ukraine              | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| United Arab Emirates | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| United Kingdom       | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| United States        | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Uruguay              | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Uzbekistan           | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Venezuela            | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Vietnam              | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Virgin Islands       | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Zambia               | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |
| Zimbabwe             | Market | Forecast | Forecast | Forecast | Historic | Historic | Norms |

#### The Data Caveat

The report databases are designed to give a common definition, unit of measure and quantification of markets in over 200 countries. These reports rely on data collection at various levels of the product flow; this effectively means, the producer, the distribution channels and the end user or consumers. This data is then correlated with any national and international statistical data produced by official agencies. Unfortunately, product flow data gathering in some countries is difficult, and furthermore the official statistical data is both inaccurate and sparse. In such circumstances, in some countries, we have to flag a Data Caveat as a warning. What this means is that in some countries the data is not sufficiently verifiable for statistical purposes and in those cases the data may not be presented.

## Methodology

For more information on methodology please download a copy of the Methodology Manual:

http://www.datagroup.org/Methodology\_Manual.pdf

# Deliverables

The Database Edition is provided as follows:

- Executive Summary at a Word document (806 pages) + Executive Summary as a PDF (806 pages).
   World Edition: Executive Brief (90 html pages) + Executive Summary (900 html pages).
- 2. Online downloadable Zipped version of the report.
- 3. Back-up DVD with Report and Report Database (Optional).
- 4. 12 months After-Sales Service.
- 5. 1-2 hour Teleconference / Teamviewer presentation of the report findings if required. See After-Sales Service.
- 6. Dedicated web site access for the report & databases if required. See After-Sales Service.

## About this Database

As an entry level product the narrative is necessarily illustrative in its terminology and seeks to provide a basic degree of business logic and theory which indicates the rational applied in the forecasting and modelling methodology. First time users should read the Database Introduction as well as the Notes and Definitions links found in each Chapter. There are subtle statistical nuances to some of the spreadsheets and databases which will help the user to fine-tune their models and forecasts to obtain maximum effect and greater accuracy.

### **Data Product levels**

Because of the sheer volume of data potentially available it has been necessary to create a number of product levels which can provide clients with as little or as much data as needed. Clients can upgrade their Product level if required.

#### Database Entry level

Entry level products provide the most basic degree of information supplied. This product can be used to build upon for various business forecasting and planning application. A World Report will have a database of over 9,000 record sets.

#### Corporate Modelling level

The Corporate level modelling products provide the tools and information for medium and long term corporate forecasting and planning. Typically this level will produce a count of over 24,000 record sets.

#### Econometric Modelling level

The Econometric level modelling products provide the tools and information for industry level, national, and international medium & long term forecasting and planning. Typically this has a database of over 39,000 record sets.

#### Presentation level

The Presentation level products provide the information sought by a client company is a graphical or audio-visual format which is bespoke for the particular needs and applications of the client.

## **Real Time Support**

The After-Sales Service can offer client Real-Time Support. This usually involves using a software utility called TeamViewer (an installation program can be found in the Toolkit on your DVD or Hard Disk Drive) which allows the After-Sales Service support staff to directly link to the client's computer and work with the users in real time.

## Toolkits

To assist users there are various Toolkits available on request:

Toolkit 12

11. Database Utilities

The Files, Data, Documents, Software, Tools, Utilities and other items provided on these DVDs are supplied for the sole use of the recipient. These items are the property of the publishers concerned and they may not be released or distributed without the express permission of the publisher of each item.

### Toolkit 1

- 1. Data Manuals
- 2. Document Templates
- 12. Enterprise Resource Planning
   13. Integrated Development Environment
- 3. Help files
- 4. Manuals Templates
- 5. Microsoft Utilities
- 6. OpenOffice
- 7. Business Plan Images
- 8. Reference files
- 9. US Census Data
- Tools \*
- 10. Utilities & Tools

Integrated Development Environment
 If you intend to implement our databases online (internet or intranet) then an Integrated
 Development Environment is often the easiest route to data dissemination and data
 manipulation.

\* All our databases are directly compatible with U.S. Government databases (the Department of Commerce, US census, NIST, Treasury, et al) it is sometimes useful for users to use US Government data handling tools to manage not only US Government data, but also the data provided by us. Alternatively, if you are already using this US Government software you can simply access our databases with the same software. In general our databases use the same database parameters, structures and field names as those found in US Government databases, and thus uses can correlate and query databases without undue difficulty.

### Toolkit 3

There are about 40 Statistical packages provided in this Toolkit. These are Open-Source packages which are generally free to use. The following packages are available:-

acsIX, ADaMSoft, ADMB, AMPL, Analyse-it, Analytica, Angoss, APMonitor, ASReml, Automlab, Baudline, Bayesian Filtering Library, BMDP, BV4.1, CalEst, Ch, Chronux, COMSOL Script, CSPro, DADiSP, DAP, Data Applied, Dataplot, Demetra+, EJS, ELKI, Epi Info, Euler Mathematical Toolbox, EViews, FAME, FEniCS Project, Fityk, FlexPro, GAUSS, Genedata Analyst, GenStat, GeoDA, GLIM, GNU Data Language, GraphPad InStat, GraphPad Prism, gretl, Hermes, IBM SPSS Modeler, IBM SPSS Statistics, IDAMS/WinIDAMS, IDL, IGOR Pro, IMSL Numerical Libraries, Izenda, JAGS, JHepWork, JMP, JMuITi, Julia, KPP, LabPlot, LISREL, Macsyma, Madagascar, MadArtSoft, Madeline, Maple, Mathcad, Mathemagix,, Mathematica, MATLAB, MCSim, MedCalc, Minitab, MINUIT, MLwiN, Mondrian, NCAR Command Language, NCSS, NMath Stats, numberGo Publisher, NumXL, Octave, O-Matrix, OpenBUGS, OpenEpi, OpenMx, OptimJ, Orange, Origin, OriginPro, PARI/GP, Partek, PAW, Perl Data Language, Ploticus, Primer-E Primer, PSPP, PV-WAVE, Q research software, QtiPlot, Quantum, R, R Commander, R Rattle GUI, RapidMiner, RATS, Revolution Analytics, ROOT, Sage, SALOME, Salstat, SAS, scikit-learn, Scilab, SciPy, SHAZAM, Shogun, SigmaStat, SigmaXL, Simfit, Simul, SOCR, SOFA Statistics, SPC XL, Speakeasy, S-PLUS, SPSS, Stata, Statgraphics, STATISTICA, Statistical Lab, Stat-JR, Stats Helper, StatXact, SUDAAN, Systat, The Unscrambler, Trilinos, Unistat, VisSim, Waffles, Weka, WinBUGS, Winpepi, X-12-ARIMA, XLfit, Xlisp-stat, XploRe, Yorick.

### Toolkit 4

Microsoft Server 2003 utilities and resources. These are for clients implementing databases on Microsoft Server 2003 systems.

### Toolkit 5

Microsoft Server 2008 utilities and resources for clients implementing databases on those systems. Microsoft Server 2012 migration utilities are also in this Toolkit.

# Proprietary Software package compatibility

If you use proprietary corporate planning software then it is easy to use these databases as they are compatible with the following packages:-

#### Some Compatible Software products (See the Database Support site for a full list)

**Project Management Software**: 24SevenOffice, Assembla, AtTask, Basecamp, Central Desktop, Cerebro, Clarizen, codeBeamer, Collabtive, Concerto, Contactizer, CredAbility.info, dotProject, Easy Projects .NET, eGroupWare, FastTrack Schedule, Feng Office Community Edition, FogBugz, GanttProject, Gemini, Genius Inside, Glasscubes, Huddle, Hyperoffice, InLoox, JIRA, Journyx, Kayako, KForge, KPlato, Launchpad, LiquidPlanner, LisaProject, MacProject, MantisBT, MatchWare MindView 3 Business, Merlin, MicroPlanner X-Pert, Microsoft Office Project Server, Microsoft Project, Mingle, O3spaces, OmniPlan, Open Workbench, OpenProj, Oracle Project Portfolio Management, Planisware 5, Planner Suite, Pmplus+, Primavera Project Planner, Project KickStart, Project.net, Project-Open, Projectplace, ProjectSpaces, Projektron BCS, PSNext, QdPM, QuickBase, Redmine, Rachota, SAP RPM, Smartsheet, TaskJuggler, Teamcenter, Teamwork, Tenrox, Trac, TrackerSuite.Net, Ubidesk, VPMi, WorkLenz, WorkPLAN Enterprise, workspace.com, WebSPOC, Wrike, Zoho Projects

**ERP Packages**: Adempiere, BlueErp, Compiere, Dolibarr, Fedena, GNU Enterprise, JFire, Kuali Foundation, LedgerSMB, OFBiz, Openbravo, OpenERP, Opentaps, Postbooks, SQL-Ledger, Tryton, WebERP, 1C:Enterprise, 24SevenOffice Start / Premium / Professional, abas ERP, Accpac, Agresso Business World, AMS Advantage, BatchMaster ERP, Bowen & Groves, CGram Enterprise, Clear Enterprise, Comarch Altum, Compass ERP, Compiere, Comprehensive Patient Administrator, COA Solutions Ltd - Smart Business Suite, Consona Corporation – Intuitive / Made2manage / AXIS / Cimnet / Encompix / DTR, Epicor Enterprise, Global Shop Solutions One-System ERP Solutions, HansaWorld, ERP Adage (Adage), ERP LN (Baan), ERP LX (BPCS) , ERP SL (SyteLine), ERP Swan, ERP SX.Enterprise (SX.Enterprise), ERP VE (Visual Enterprise), ERP XA (MAPICS), IFS Applications, JD Edwards EnterpriseOne & JD Edwards World, JustFoodERP.com, kVASy4, Kingdee, Lawson M3 / Movex, Lawson S3, Log-net, Maximo (MRO), Microsoft Dynamics AX, Microsoft Dynamics GP, Microsoft Dynamics NAV, Microsoft Dynamics SL, Momentum, MyWorkPLAN, NetSuite, Openda QX, OpenMFG, Oracle e-Business Suite, Paradigm, PeopleSoft, Plex Online, QAD Enterprise Applications, Ramco Enterprise Series 4.x, Ramco e.Applications, Ramco On Demand ERP, MAS 90, MAS 200, MAS 500, Technology One, SAGE ACCPPAC, SAGE Pro ERP, SAGE ERP X3, SAP Business Suite, SAP Business ByDesign, SAP Business One, SAP Business All-in-One, TaskHub, SYSPRO, SYS-APPS, mySAP, Visibility.net, WorkPLAN Enterprise

Enterprise Feedback Management Systems: SynGro, Perseus (Vovici), Clicktools, DatStat, Inquisite, SPSS, FIRM (Confirmit), NetReflector, Allegiance, Enetrix, Satmetrix, RightNow Technologies, Mindshare Technologies, Data Illusion, KeySurvey (WorldAPP), Kinetic Data, CustomerSat, Medallia, Interview SA, Surveynomics, Invoke Solutions, Qualtrics, Fizzback, Grimmersoft, QuestManager, QuestBack, Globalpark, DataCycles, Dub Studios, eLustro, Kinesis Survey Technologies, Knowledge Wave, myK (myKnowledge), mySurveyLab.com, QuickSearch, Ransys, ResponseTek Networks Corp., TalkFreely, XTCO, Zarca

## **Resource Web**

Sometimes clients also want the data loaded onto a password protected dedicated website for the use of their staff and any other persons they may authorise.

The main benefit of these Resource Webs is that the data is available to all the client's staff and professional advisors wherever they may be, and also when data is updated, or new data is added, then there is a common point of access for that data. Resource Webs are maintained for the use of the client for a period of 12 months from the last update to that site. These dedicated web sites are provided by the After-Sales Service.

For a detailed view of a typical Resource Web: <u>http://www.eni-italy.info</u> produced for ENI, the Italian Oil group

# **Research & Survey Methodology Analysis**

Some client may wish to understand the statistical and methodological basis of the specific research conducted and this can be provided as part of the After-Sales Service.

### Statistical Appraisal of Datasets (via the After-Sales Service)

#### • Sampling

- External Validity
- Sampling Terminology
- $\circ~$  Statistical Terms in Sampling
- Probability Sampling
- Nonprobability Sampling

#### Measurement

- Construct Validity
  - o Measurement of Validity Types
  - o Construct Validity
  - o Convergent & Discriminant Validity
  - Threats to Construct Validity
  - Nomological Networks
  - Multi-trait / Multi-method Matrix
  - Pattern Matching Construct Validity
- Reliability
  - True Score
  - o Measurement Error
  - o Reliability
  - Type of Reliability Analysis
  - o Validity
- Levels of Measurement
- Survey Research
- Survey Type
  - Selecting the Survey Method
  - $\circ~$  Construction of the Survey
    - Questions
    - Question Content
    - Response Format
    - Question Wording
    - Question Placement
  - o Interviews
  - o Appraisal of Survey Method
- Scaling
  - o General Issues in Scaling
  - Thurstone Scaling
  - Likert Scaling
  - o Guttman Scaling
- Qualitative Measures
  - Qualitative Discussion
  - o Qualitative Data
  - Qualitative Approach
  - Qualitative Method
  - Qualitative Validity
- Unobtrusive Measures

### Design

- Internal Validity
  - Establishing Cause & Effect
  - Single Group Threats
     Regression to the Mean
  - Multiple Group Threats
  - Social Interaction Threats
- Design Development
- Design Type

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- Experimental Designs
  - Two-Group Experimental Design
    - Probabilistic Equivalence
    - Random Selection & Assignment
    - Classifying Experimental Designs
  - Factorial Design
    - Factorial Design Variations
    - Randomized Block Design
  - Covariance Design
  - Hybrid Experimental Design
- Quasi-Experimental Designs

   Non-equivalent Groups Design
  - Regression-Discontinuity Design
  - Other Quasi-Experimental Design
- Relationships of Pre-Post Designs
- Formulation of the Designs
- Modification & Experimentation
- Analysis
  - Conclusion Validity
    - Threats to Validity
    - Validity Improvements
    - Statistical Control
    - Data Preparation
  - Descriptive Statistics
    - Correlation
  - Inferential Statistics
    - T-Test
    - Indicator Variables
    - o General Linear Model
    - Post-test-Only Analysis
    - Factorial Design Analysis
    - o Randomized Block Analysis
    - Analysis of Covariance
    - Non-equivalent Group Analysis
    - Regression-Discontinuity Analysis
    - Regression Displacement Analysis

# Appendix 1 : Regional Report country coverage

Canada & USA Canada **United States Central America** Antiqua and Barbuda\* Aruba **Bahamas Barbados** Belize Bermuda\* Cayman Islands\* Costa Rica Cuba Dominica Dominican Republic El Salvador Grenada\* Guadeloupe Guatemala Haiti **Honduras** Jamaica Martinique Mexico **Netherlands Antilles** Nicaragua Panama Puerto Rico Saint Kitts and Nevis\* Saint Lucia\* Saint Vincent Grenadines\* Trinidad and Tobago US Virgin Islands\*

### South America

Argentina Bolivia Brazil Chile Colombia Ecuador French Guiana Guyana Paraguay Peru Suriname Uruguay Venezuela Europe Albania Andorra\* Armenia Austria Belarus Belgium Bosnia + Herzegovina Bulgaria Croatia Cyprus Czech Republic **Denmark** Finland France Eire Estonia Georgia Germany Greece Greenland\* Hungary Iceland Italy Latvia Liechtenstein\* Lithuania Luxembourg Macedonia Malta\* Moldova Mo<u>ntenegro</u> **Netherlands** Norway Poland Portugal Romania Serbia\* Slovakia Slovenia Spain Sweden Switzerland United Kingdom Ukraine Eurasia

<u>Kazakhstan</u> <u>Kyrgyzstan</u> <u>Russia</u> Uzbekistan Middle East Afghanistan\* Azerbaijan Bahrain Iran Iraq Israel Jordan **Kuwait** Lebanon Oman Pakistan Qatar Saudi Arabia Syria \* **Tajikistan** Turkey Turkmenistan **United Arab Emirates** Yemen\*

#### Asia

Bangladesh Brunei\* Burma\* Cambodia China India Indonesia Japan Laos <u>Malaysia</u> Mongolia\* Nepal\* North Korea\* **Philippines** Singapore South Korea Sri Lanka Taiwan Thailand Vietnam

#### Oceania

Australia Fiji Islands\* French Polynesia\* Kiribati\* Micronesia\* New Caledonia\* New Zealand Papua New Guinea Africa Algeria Angola Benin\* Botswana Burkina Faso\* Burundi\* Cameroon Cape Verde\* Cen African Rep\* Chad\* Cote d'Ivoire **Democratic** Republic Congo\* Djibouti\* Egypt Equatorial Guinea\* Eritrea Ethiopia Gabon Gambia Ghana Guinea Guinea-Bissau Kenva <u>Leso</u>tho Liberia Libya Madagascar Malawi Mali\* Mauritania\* Morocco Mozambique Namibia Niger\* Nigeria Republic Congo\* Rwanda\* S Tome Principe\* Senegal Seychelles\* Sierra Leone Somalia\* South Africa Sudan\* Swaziland Tanzania Tunisia Uganda Zambia Zimbabwe \*

The countries marked \* indicate a data caveat due to local survey conditions.

# Appendix 2 : About the After-Sales Service

The After-Sales Service is most effective if users plan their orders sequentially, i.e. extract the basic data which will then lead to more complex data or correlations. This also helps to reduce costs as the use of automated data processing and standard data formats are always less expensive to produce than Ad Hoc work.

## **Modular Research**

Once the After-Sales Service understands the general data requirements they will send the Client a Modular Proposal as a Word document. The Client can then select the Parts required, and amend or modify the information objectives.

The best method to organise the ordering of data is as follows:-

- **1** Research Data
- 2 Trade Buyers & End Users
- 3 Survey Data
- 4 Corporate Data
- 5 Additional Data Requirements

# **Database Compatibility**

The increased use of Database Management Systems, Business Planning and Control Systems, Enterprise Resource Planning, Management Information Systems, and other tools amongst management professionals has produced a critical need for the harmonisation of data across various software applications and systems platforms. The After-Sales Service ensures that its output, where required, will be fully compatible with every product and database.

For this reason all the databases use harmonised database and data sets; thereby users can obtain any database from any of the publishers, for any of their brands, with the assurance that these databases are fully compatible and can be used in conjunction with one another and the various platforms, operating systems and software.



Markets & Companies Worldwide has, since 2007, undertaken the harmonisation and convergence of the database specifications and definitions of the various database providers. This is to allow users a uniform and standardised reference to use with their planning and forecasting; and to allow cross-database functionality.

The data sets, modules and standards shown are now fully harmonised and standardised to allow data and software interflow and cross-platform usage of the databases. Users may obtain older data dictionaries and standards, and/or data sets and data dictionaries for their own national standards. The standard product and market definitions have been harmonised and are provided (in the standard database products supplied), often as the NAICS classifications. Users wishing to remain with the previous SIC classifications may obtain these databases under that classification system. Users requiring other (U.N., European, Japanese, et cetera) classification definitions and norms may obtain those as necessary. Accounting standards are also harmonised according to the U.S. regulatory norms; however other norms are available. Data dictionary and data definition bridges and converters are available to allow users to update or standardise their databases. Markets & Companies Worldwide has undertaken to maintain support for the older data dictionary standards and definitions until 2025; however users are urged to update at their earliest convenience.



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