

Tungsten Carbide Rod Manufacturing Industry.

Attractive Opportunities in “ Tungsten Carbide Rod Production” for Mining & Construction Industries



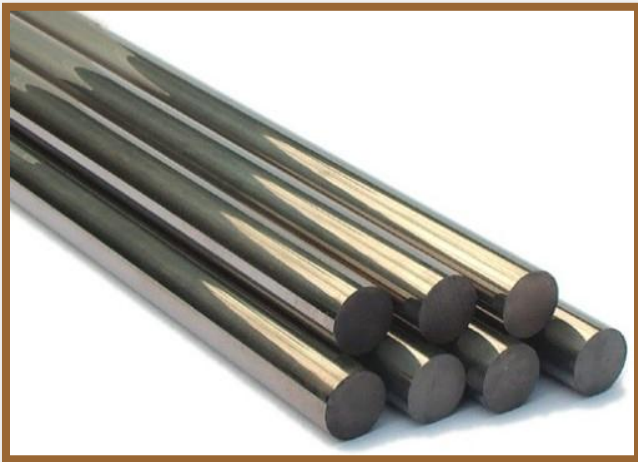
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Introduction

Tungsten carbide, an important member of the class of inorganic compounds of carbon, used alone or with 6 to 20 percent of other metals to impart hardness to cast iron, cutting edges of saws and drills, and penetrating cores of armour-piercing projectiles. Tungsten carbide (WC) is an inorganic non-natural compound composed of tungsten (W) and carbon (C). Mono-tungsten carbide (WC), which is stable at room temperature, is of major technical relevance.



Tungsten carbide rods, commonly used to make drill bits, PCB board micro-drill, mold thimble, die top, electrode rods, gong knife, textile industry shuttle, machine journal, machine axis and so on.

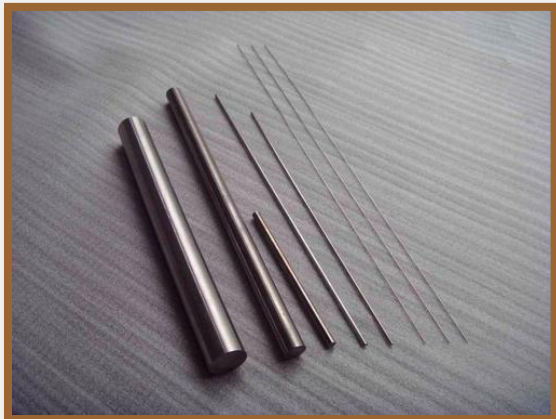
Tungsten carbide rods include rods with the shapes of round, rectangular and square, solid rods and rods with one or more straight or coolants. The grades are mostly fine and super fine grain with high performance. Tungsten Carbide Rods are manufactured as standards with one, two, or three holes, straight or twisted to a 30 or 40 degree helix, or solid with no holes. All rods are available in standard lengths of 310 and 330 mm.



Market Outlook

Exports

Exports of tungsten and alloys including scrap decreased drastically to 314 tonnes in 2015-16 from 475 tonnes in the previous year. Exports were mainly to Germany (25%), USA (20%), Sweden (10%), UK and Austria (8% each). In 2015-16, exports of tungsten ore & concentrates decreased drastically to only 1 tonne as against 175 tonnes in the preceding year. Exports were solely to Nepal (100%).



Imports of Tungsten Ores & Conc. (By Countries)

Country	2014-15		2015-16 (P)	
	Qty (t)	Value (₹'000)	Qty (t)	Value (₹'000)
All Countries	191	61582	78	34081
Rwanda	10	10008	15	13200
USA	2	9146	2	10128
Uganda	35	36904	9	8996
Singapore	-	-	52	1566
Germany	++	326	++	191
France	144	5198	-	-
Other countries	-	-	-	-

In India, the entire demand can only be met by imports and recycling, as there is no indigenous production of tungsten concentrates. High content of WO₃ in the tailing dumps of Kolar can be worked on priority basis to meet the demand.

Tungsten carbide are used in various end use industries such as mining and construction, automobile, electronics, and defense among others. The growing demand from the developing region throughout the globe are the major factors driving the global market of tungsten carbide. The growing government investments in the infrastructural development coupled with the augmenting demand from the automobile sector are other factors contributing to the growth of the market.

Among the various end-use industry mining and construction is the dominant segment and expected to show the same trend during the forecast years. The properties such as high tensile strength, corrosion and impact resistance, has increased the demand for tungsten carbide in the mining and construction industry.

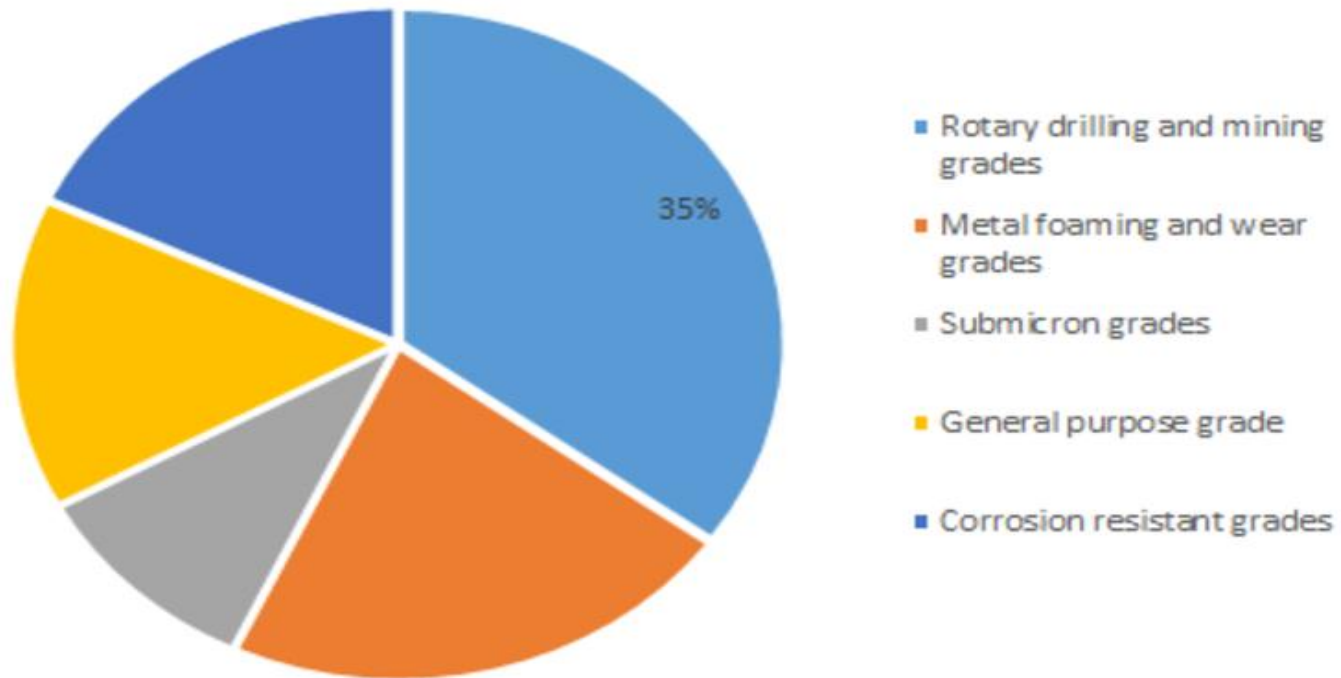
Tungsten carbide is one of these metal carbides and exhibits the aforementioned properties. It is produced by the reaction of tungsten hexachloride with methane or methanol, which is the source of carbon in the reaction. Tungsten carbide is an inorganic chemical compound, represented by the chemical formula WC and physically, it is in the form of a fine grey powder. The formation of tungsten carbide involves an equal number of carbon and tungsten atoms. In terms of properties, tungsten carbide is much stiffer than steel and denser than titanium.

Its hardness is comparable with precious metals, such as ruby, sapphire and corundum. Owing to tungsten carbide's high resistivity to abrasion, it is widely used in the manufacturing industry for cutting tools. The only drawback in the application of tungsten carbide is that it can decompose at high temperatures and separate into its initial form, i.e. as tungsten and a carbide.

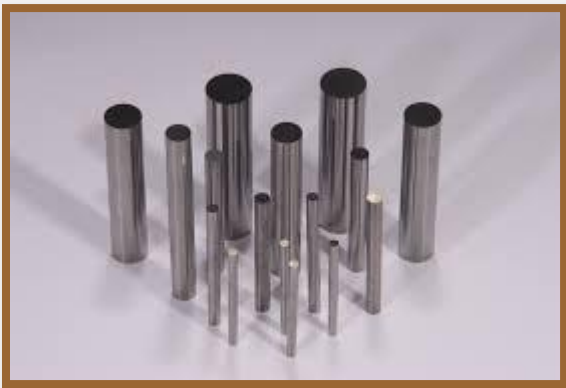
Tungsten carbides are progressively becoming a part of our daily lives and it is anticipated that their application will increase significantly in the coming future, as they are being produced in large quantities for usage in a diverse variety of products. Growing research & development activities to enhance growth in technology are anticipated to drive the tungsten carbide market, and furthermore support its application in ammunition, jewellery and others over the forecast period.

Increasing high quality demand in end use industries is expected to drive demand for the tungsten carbide market during the forecast period. Superior properties of final finished products of tungsten carbide are expected to fuel demand for the tungsten carbide market in the future. Tungsten carbide has become a popular material in the manufacturing of jewellery, due to its high resistance to scratching and the hardness of the material. Despite these positive attributes, the tungsten carbide market is expected to be restrained by its relatively high cost when compared to other metal carbides. Tungsten carbide is a good replacement for uranium in the manufacturing of ammunition and in many other end use applications. Therefore, the lack of availability of uranium in some regions, and its severe ill effects on the human body is expected to create a significant opportunity for tungsten carbide manufactures. Tungsten Carbide (WC) Market Expected to Boost the Global Industry Growth in the Near Future.

The Global Tungsten Carbide Market Share by End Use Industry



Growing end use industries such as automotive industries and increase in the demand of wear resistant materials is anticipated to boost the market of cemented carbide and ultimately will drive the global tungsten market. Tungsten has its application in electronic and electrical components such as electron emitters, lead-in wires and electrical contacts and these industries are forecasted to grow, leading to the increase in global tungsten market. The ability of tungsten to withstand arcing and resistant to corrosion makes it suitable to be used in voltage regulators, though demand of these application is minor but it still contributes in the global tungsten market.



The global tungsten carbide market is segmented into grade type and end user industry. On the basis of grade the market is segmented into general purpose grade, metal foaming and wear grades, submicron grades, rotary drilling and mining grades, and corrosion resistant grades. On the basis of end user industry the global tungsten carbide market is segmented into mining and construction, oil and gas, electrical and electronics, automobiles, defense and others.



Machinery Photographs



Ball Mill



Carbide Powder Extrusion Press



Vacuum sintering Furnace



Spray Drying Granulation Equipments

Project at a Glance

PROJECT AT A GLANCE				(in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	0.00	0.00	Capital	0.00	94.22	94.22
Buildings	0.00	0.00	0.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	86.00	86.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	44.25	44.25	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	282.66	282.66
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	8.00	8.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	208.64	208.64				

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No.of Times	%
1-2	6.79	9.15	16.79	24.00	0.00	100.00	6.79	0.00	6.79	1.00	0.00
2-3	9.36	11.42	26.15	18.00	0.00	100.00	9.36	0.00	9.36	1.00	0.00
3-4	12.24	14.04	38.39	12.00	0.00	100.00	12.24	0.00	12.24	1.00	0.00
4-5	15.04	16.61	53.43	6.00	0.00	100.00	15.04	0.00	15.04	1.00	0.00
5-6	17.70	19.08	71.13	0.00	0.00	100.00	17.70	0.00	17.70	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.34	1.34		1.43	1.43	11.74	2.43%	0.84%	0.57%	464.46	4.11%	5.66	1.11	
2-3	1.63	1.48		0.69	0.69	8.32	2.56%	1.03%	0.67%	541.81	4.11%	5.79	1.12	
3-4	2.02	1.64	2.02	0.31	0.31	6.26	2.64%	1.20%	0.76%	619.21	4.11%	5.77	1.14	
4-5	2.48	1.82		0.11	0.11	4.92	2.70%	1.32%	0.83%	696.61	4.11%	5.72	1.16	
5-6	3.03	2.02		0.00	0.00	4.01	2.74%	1.40%	0.88%	774.01	4.11%	5.63	1.22	

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	64.26%
Total BEP (% of Installed Capacity)	65.94%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	32.76%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	243.761

Major Queries/Questions Answered in the Report?

- 1. What is Tungsten Carbide Rod Manufacturing industry ?**
- 2. How has the Tungsten Carbide Rod Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Tungsten Carbide Rod Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Tungsten Carbide Rod Manufacturing plant ?**

- 5. What is the structure of the Tungsten Carbide Rod Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Tungsten Carbide Rod Manufacturing Business?**
- 7. What are the operating costs for setting up Tungsten Carbide Rod Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Tungsten Carbide Rod Manufacturing plant ?**

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Tungsten Carbide Rod Manufacturing plant ?

10. What are the requirements of raw material for setting up Tungsten Carbide Rod Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Tungsten Carbide Rod Manufacturing Business?

12. What is the Manufacturing Process of Tungsten Carbide Rod?



- 13. What is the total size of land required for setting up Tungsten Carbide Rod Manufacturing plant ?**
- 14. What will be the income and expenditures for Tungsten Carbide Rod Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Tungsten Carbide Rod Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Tungsten Carbide Rod Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Tungsten Carbide Rod Manufacturing Business?**

18. What are the Personnel (Manpower) Requirements for setting up Tungsten Carbide Rod Manufacturing Business?

19. What are Statistics of Import & Export for Tungsten Carbide Rod?

20. What is the time required to break-even of Tungsten Carbide Rod Manufacturing Business?

21. What is the Break-Even Analysis of Tungsten Carbide Rod Manufacturing plant?

22. What are the Project financials of Tungsten Carbide Rod Manufacturing Business?

- 23. What are the Profitability Ratios of Tungsten Carbide Rod Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Tungsten Carbide Rod Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Tungsten Carbide Rod Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Tungsten Carbide Rod Manufacturing project?**

- 27. What are the Market Opportunities for setting up Tungsten Carbide Rod Manufacturing plant?**
- 28. What is the Market Study and Assessment for setting up Tungsten Carbide Rod Manufacturing Business?**
- 29. What is the Plant Layout for setting up Tungsten Carbide Rod Manufacturing Business?**

Table of Contents of the Project Report

1. PROJECT LOCATION

- 1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
 - 1.1.1. General
 - 1.1.2. History
 - 1.1.3. Demographics
 - 1.1.4. Map
 - 1.1.5. Tourism
 - 1.1.6. Minerals
 - 1.1.7. Economy
 - 1.1.8. Power Supply Network
 - 1.1.9. Transport

2. INTRODUCTION

3. USES AND APPLICATION

4. PROPERTIES

5. TUNGSTEN ROD

6. B.I.S. SPECIFICATION

- 6.1. IS: 4005 – 1967 SPECIFICATION FOR TUNGSTEN CARBIDE FOR MINING TOOLS
- 6.2. IS: 8368 – 2010 SPECIFICATION FOR TUNGSTEN CARBIDE POWDER FOR HARD METALS
- 6.3. IS: 8486 – 1977 SPECIFICATION FOR MAINTENANCE OF TUNGSTEN CARBIDE TIPPED INTEGRAL STEMS
- 6.4. IS: 13751 – 1993 SPECIFICATION FOR TUNGSTEN ORE FOR HARD METAL INDUSTRY

- 7. MARKET SURVEY**
- 7.1. GLOBAL INDUSTRY ANALYSIS
 - 7.2. MARKET DYNAMICS
 - 7.3. MARKET SEGMENTATION
 - 7.4. MARKET REGIONAL OUTLOOK
 - 7.5. MARKET PARTICIPANTS

- 8. EXPORT & IMPORT: ALL COUNTRIES**
- 8.1. EXPORT: ALL COUNTRIES
 - 8.2. IMPORT: ALL COUNTRIES

- 9. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES**
- 9.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
 - 9.2. PROFITS & APPROPRIATIONS
 - 9.3. TOTAL LIABILITIES
 - 9.4. TOTAL ASSETS
 - 9.5. NET CASH FLOW FROM OPERATING ACTIVITIES
 - 9.6. SECTION – I
 - 9.6.1. Name of Company with Contact Details
 - 9.6.2. Name of Director(S)
 - 9.6.3. Credit Ratings
 - 9.6.4. Plant Capacity
 - 9.6.5. Location of Plant
 - 9.6.6. Name of Raw Material(S) Consumed With Quantity & Cost
 - 9.7. SECTION – II
 - 9.7.1. Assets
 - 9.7.2. Cash Flow
 - 9.7.3. Cost as % Ge of Sales

- 9.7.4. Forex Transaction
- 9.7.5. Growth in Assets & Liabilities
- 9.7.6. Growth in Income & Expenditure
- 9.7.7. Income & Expenditure
- 9.7.8. Liabilities
- 9.7.9. Liquidity Ratios
- 9.7.10. Profitability Ratio
- 9.7.11. Profits
- 9.7.12. Return Ratios
- 9.7.13. Structure of Assets & Liabilities (%)
- 9.7.14. Working Capital & Turnover Ratios

10. COMPANY PROFILE OF MAJOR PLAYERS

11. EXPORT & IMPORT: STATISTICS DATA OF INDIA

- 11.1. EXPORT STATISTICS DATA FOR TUNGSTEN CARBIDE ROD
- 11.2. IMPORT STATISTICS DATA FOR TUNGSTEN CARBIDE ROD

12. PRESENT MANUFACTURERS

13. MANUFACTURING PROCESS

14. PROCESS FLOW DIAGRAM

15. SUPPLIERS OF PLANT & MACHINERY

16. SUPPLIERS OF RAW MATERIAL

17. PHOTOGRAPHS/IMAGES FOR REFERENCE

- 17.1. PRODUCT PHOTOGRAPHS
- 17.2. MACHINERY PHOTOGRAPHS
- 17.3. RAW MATERIAL PHOTOGRAPHS

18. PLANT LAYOUT

Project Financials

Project at a Glance	Annexure
• Assumptions for Profitability workings	1
• Plant Economics.....	2
• Production Schedule.....	3
• Land & Building.....	4
Factory Land & Building	
Site Development Expenses	

- **Plant & Machinery.....5**
 - Indigenous Machineries**
 - Other Machineries (Miscellaneous, Laboratory etc.)**

- **Other Fixed Assets.....6**
 - Furniture & Fixtures**
 - Pre-operative and Preliminary Expenses**
 - Technical Knowhow**
 - Provision of Contingencies**

- **Working Capital Requirement Per Month.....7**
 - Raw Material**
 - Packing Material**
 - Lab & ETP Chemical Cost**
 - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**
 - Utilities & Overheads (Power, Water and Fuel Expenses etc.)**
 - Royalty and Other Charges**
 - Selling and Distribution Expenses**

- **Salary and Wages9**

- **Turnover Per Annum10**

- **Share Capital.....11**
 - Equity Capital**
 - Preference Share Capital**

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
 - **Revenue/Income/Realisation**
 - **Expenses/Cost of Products/Services/Items**
 - **Gross Profit**
 - **Financial Charges**
 - **Total Cost of Sales**
 - **Net Profit After Taxes**
 - **Net Cash Accruals**

• **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

• **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- **ROI (Average of Fixed Assets)**
- **RONW (Average of Share Capital)**
- **ROI (Average of Total Assets)**

- **Annexure 6 :: Profitability Ratios**

- **D.S.C.R**
- **Earnings Per Share (EPS)**
- **Debt Equity Ratio**

- **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**

- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**

- **Achievable Efficiency/Yield % of Products/Services/Items**

- **Net Usable Load/Capacity of Products/Services/Items**

- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21** :: **Employees Expenses**
- **Annexure 22** :: **Fuel Expenses**
- **Annexure 23** :: **Power/Electricity Expenses**
- **Annexure 24** :: **Royalty & Other Charges**
- **Annexure 25** :: **Repairs & Maintenance Expenses**
- **Annexure 26** :: **Other Manufacturing Expenses**
- **Annexure 27** :: **Administration Expenses**
- **Annexure 28** :: **Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Tungsten Carbide Rod.” provides an insight into Tungsten Carbide Rod market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Tungsten Carbide Rod project. The report assesses the market sizing and growth of the Indian Tungsten Carbide Rod Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Tungsten Carbide Rod sector in India along with its business prospects. Through this report we have identified Tungsten Carbide Rod project as a lucrative investment avenue.

Tags

Tungsten Carbide Rod, Tungsten Carbide Rod Production, Manufacturing of Tungsten Carbide Rod, Manufacture of Tungsten Carbide Rod, Tungsten Carbide Rod Manufacture, Tungsten Carbide Products, Cemented Carbide Rods, Cemented Carbide Rod Manufacturing, How is Cemented Tungsten Carbide Rods Made? Process of Manufacturing Tungsten Carbide, Tungsten and Tungsten Carbide Rod, Tungsten Carbide Manufacturing Process, Tungsten Carbide Composite Rods, Tungsten Carbide Round Rod Manufacture, Project Report on Tungsten Carbide Rod Production Industry, Detailed Project Report on Tungsten Carbide Rod Production, Project Report on Tungsten Carbide Rod Production, Pre-Investment Feasibility Study on Tungsten Carbide Rod Production, Techno-Economic feasibility study on Tungsten Carbide Rod Production, Feasibility report on Tungsten Carbide Rod Production, Free Project Profile on Tungsten Carbide Rod Production, Project profile on Tungsten Carbide Rod Production, Download free project profile on Tungsten Carbide Rod Production

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Contact us

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<https://goo.gl/VstWkd>



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