

# Stabilized Insoluble Sulfur Manufacturing Business.

## Production of Insoluble Sulphur Stabilizing Agent



# Introduction

**Insoluble sulfur (IS) is a type of sulfur polymer, which is insoluble in CS<sub>2</sub> and is a good rubber vulcanizing agent [1-4]. There are two types of IS, oil-filled and non-oil-filled. The production of IS usually adopts a high temperature method, which causes the liquid or gas sulfur to spray into cold liquids to obtain IS with a concentration of 30-60wt%. To obtain high concentrations of IS, solvent has been used to extract the soluble sulfur, followed by filling with oil to obtain oil-filled IS [2, 7-11].**



**Insoluble sulfur is an important rubber additive agent. It improves product quality, wearability and resistance to both fatigue and ageing. In addition to being universally recognized as the best vulcanizing agent, it is widely used in the manufacture of tire, rubber pipe, shoes, cable and wire insulating materials, latex, all kinds of automobile rubber parts and is also a necessary component of belt tires. Therefore, due to its non-blooming characteristic, insoluble sulfur is widely used in the manufacture of radial rubber and other synthetic rubber products, also in the light-colored rubber products in which common sulfur is incorporated in high proportion.**



**Sulphur is stabilised in a form wholly or partially insoluble in carbon disulphide by incorporating therewith a dixanthogen of the formula where R and R' are each independently an alkyl, cycloalkyl, aralkyl or aryl group and may be substituted by halogen or alkoxy and n is 2 or 4. The insoluble sulphur can for example be plastic sulphur or white sulphur or substantially wholly insoluble sulphur derived therefrom. The sulphur is particularly useful in the vulcanisation of rubber.**

**Insoluble sulphur is primarily used in the rubber industry. Its advantage over ground natural sulphur is that it does not cause bloom, and that it does not dissolve and migrate in rubber. The S<sub>8</sub> ring molecules present in soluble sulphur at room temperature open at temperatures above 158 °C, allowing chains of sulphur to combine with one another to form polymeric sulphur. Insoluble sulphur is produced by quenching the polymeric melt at low temperatures, preventing the reversion into S<sub>8</sub> rings, leaving the polymer structure meta-stable at room temperature.**

**Insoluble Sulfur is a common sulfur allotrope, which is hydrogen sulfide and sulfur dioxide by the reaction, and may be inclined to ordinary sulfur obtained by thermal polymerization. Its molecular structure of the sulfur is linear polymer with the characteristics of insoluble rubber, and are thus insoluble sulfur or sulfur polymerization. Insoluble Sulfur is currently mainly used in rubber industry. With the oblique side of sulfur, insoluble sulfur rubber vulcanization agent as its main features are:**

- Insoluble sulfur in the rubber in a state of scattered and therefore do not rubber spray frost, a good sticky, at the same time ensure the quality of the appearance of light-colored products.**

- Insoluble sulfur in the rubber compound spread uniformity, effectively inhibiting the aggregation of sulfur, is expected to reduce plastic storage process tend to scorch. 3) Oblique to S S. The higher the stability of the ring, cracking keys for 268kJ/molE, higher than the insoluble sulfur bond energy, so the process has the tendency to scorch earlier.

## Uses & Applications

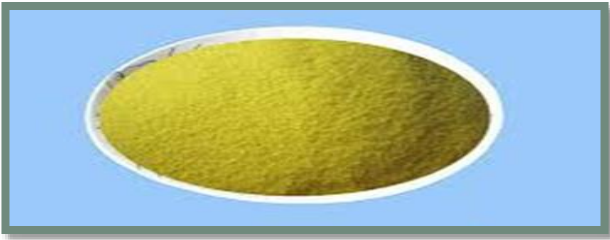
**Insoluble sulfur is used however, surface bloom is eliminated. Insoluble sulfur becomes evenly distributed throughout the rubber composition during the mixing (mastication) step, but does not go into solution in the rubber composition. The distribution of the insoluble sulfur remains as it was when dispersed, there is no concentration gradient formed; and migration does not occur.**

**Insoluble sulfur is used; bin scorch is retarded to a point where it ceases to be a problem. Since insoluble sulfur is available for reaction only when curing (vulcanizing) temperatures are reached, no significant reaction takes place at lower temperatures. At these lower temperatures the insoluble sulfur merely remains as a suspended solid surrounded by rubber, until vulcanization takes place.**

**Insoluble sulfur is the preferred curing agent for the majority of the rubber industry. By keeping insoluble sulfur dispersed in the oil, any risk of conversion is lowered, while still facilitating the incorporation of the curing agent into the rubber compound. The effectiveness of Naphthenic oil provides the advantage of easy wetting of the sulfur particles, which ensures a good level of dispersion, and improved stability.**

# Market Outlook

**Insoluble Sulphur is mainly used in tyre industry. The Indian market for Insoluble Sulphur is growing more than the growth rate for the tyre industry due to increasing share of radial tyres in commercial vehicles which consume more Insoluble Sulphur. With the revival of the global economy, the auto sector has picked up significantly resulting in huge demands and huge growth in the auto companies. This has trickled down to the auto ancillary sector and hence the demand for Insoluble Sulphur is growing at a robust pace and this trend is expected to continue in the coming year as new tyre capacities are being added in India.**





**Insoluble Sulfur Market is categorized based on product types such as Oil Filled, Others. The market is categorized based on application into Automotive, Industrial, Medical, Consumer Goods and Other.**

**Therefore, the demand for quality Insoluble Sulphur may be estimated at about 2, 25,000 Mtpa. The current demand of Insoluble Sulphur in India is estimated at 14500 Mtpa. This is expected to continue to grow in double digits on the back of the following factors:**

**Demand of Insoluble Sulphur is expected to grow with ratio of Radial Tyres and high performance and safety tyres to total production growing. Growth rate of Radicalization of Commercial Vehicle tyres which is currently at less than one third of the total demand of CV Tyres. India emerging as a hub for exports of tyres. New Capacities being set up in India for Tyre manufacturing by international players such as Bridgestone, Michelin and Yokohama as well as domestic players to cater to international market also.**

**Insoluble Sulfur Market is categorized based on geography into Asia Pacific (China, India, ASEAN, Australia & New Zealand), Japan, Middle East and Africa (GCC countries, S. Africa, Rest Of MEA), North America (U.S., Canada), Latin America (Brazil, Rest of Latin America), Western Europe (Germany, Italy, France, England, Spain, Rest of Western Europe), and Eastern Europe (Poland, Russia, Rest of Eastern Europe).**

**Global Insoluble sulphur market is primarily used in the rubber industry. Its advantage over ground natural sulphur is that it does not cause bloom, and that it does not dissolve and migrate in rubber.**



**The S8 ring molecules present in soluble sulphur at room temperature open at temperatures above 158 °C, allowing chains of sulphur to combine with one another to form polymeric sulphur. Insoluble sulphur is produced by quenching the polymeric melt at low temperatures, preventing the reversion into S8 rings, leaving the polymer structure meta-stable at room temperature.**

**Global Insoluble Sulfur Market is expected to grow at a significant CAGR in the upcoming years as the scope, product types and its applications are increasing across the globe. Insoluble Sulfur is mainly used in the rubber industry. The advantage over the ground sulfur is that it does not cause blooming, and is soluble in rubber.**



**In addition, the insoluble sulfur additives can be added to more fully restore the carbon black in the iron and suppress and eliminate the production process of nitrosamines, the protection of the environment plays a significant role.**

**Globally, demand for insoluble sulphur is expected to grow at 5.2% CAGR in CY15-20E with demand in India growing at a CAGR of 10%+ due to robust automobile demand & increasing radialisation of tyres particularly in the CV space.**



# Machinery Photographs



**Intermediate Tanks**



**Mixing Tank**



**Fluidized Bed Dryer**



**Bagging Machine**

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site							
Development Exp.	0.00	440.00	440.00	Capital	0.00	335.27	335.27
Buildings	0.00	123.40	123.40	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	434.00	434.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	131.00	131.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	45.00	45.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			1005.8
Deposits	0.00	0.00	0.00	Borrowings	0.00	1005.82	2
Preliminary& Pre-							
operative Exp	0.00	4.00	4.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	40.20	40.20	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	108.49	108.49				
							1341.0
TOTAL	0.00	1341.09	1341.09	TOTAL	0.00	1341.09	9



# 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					
	USD	USD	USD	USD	USD	%	USD	%	USD	No. of Times	%
1-2	566.88	870.41	576.88	2400.00	0.00	100.00	566.88	0.00	566.88	1.00	0.00
2-3	888.20	1151.31	1465.08	1800.00	0.00	100.00	888.20	0.00	888.20	1.00	0.00
3-4	1198.39	1426.95	2663.46	1200.00	0.00	100.00	1198.39	0.00	1198.39	1.00	0.00
4-5	1491.20	1690.19	4154.66	600.00	0.00	100.00	1491.20	0.00	1491.20	1.00	0.00
5-6	1763.68	1937.33	5918.34	0.00	0.00	100.00	1763.68	0.00	1763.68	1.00	0.00





# Project at a Glance

Year	D. S. C. R.			Debt / - 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		
Initial	(Number of times)			(Number of times)		%	%	%	%	%	%			
1-2	1.29	1.29		3.00	3.00			12.08%	6.75%	4.68%	1505.56	37.09%	2.29	1.00
2-3	1.64	1.46		0.73	0.73	1.41		13.97%	9.60%	6.29%	1745.15	36.85%	2.43	1.24
3-4	2.05	1.64	2.03	0.33	0.33	0.85		15.19%	11.58%	7.42%	1994.19	36.84%	2.43	1.55
4-5	2.52	1.83		0.12	0.12	0.53		15.96%	12.92%	8.21%	2243.23	36.84%	2.33	1.91
5-6	3.07	2.03		0.00	0.00	0.34		16.40%	13.81%	8.74%	2492.26	36.84%	2.20	2.87

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	60.09%
Total BEP (% of Installed Capacity)	62.42%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	27.05%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	8.003

# Major Queries/Questions Answered in the Report?

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

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

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Stabilized Insoluble Sulfur Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Stabilized Insoluble Sulfur Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Stabilized Insoluble Sulfur Manufacturing Business?**

**12. What is the Manufacturing Process of Stabilized Insoluble Sulfur?**



- 13. What is the total size of land required for setting up Stabilized Insoluble Sulfur Manufacturing plant ?**
- 14. What will be the income and expenditures for Stabilized Insoluble Sulfur Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Stabilized Insoluble Sulfur Manufacturing plant ?**
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# 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 Stabilized Insoluble Sulfur.” provides an insight into Stabilized Insoluble Sulfur market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Stabilized Insoluble Sulfur project. The report assesses the market sizing and growth of the Indian Stabilized Insoluble Sulfur 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 Stabilized Insoluble Sulfur sector in India along with its business prospects. Through this report we have identified Stabilized Insoluble Sulfur project as a lucrative investment avenue.**

# Tags

#Production\_of\_Insoluble\_Sulfur, #Stabilization\_of\_Insoluble\_Sulfur, Stabilised Insoluble Sulphur Preparation, Preparation of Insoluble Sulfur, Making of Insoluble Sulphur, Stabilized Insoluble Sulphur, #Manufacture\_of\_Insoluble\_Sulphur, Insoluble Sulphur, Process for Production of Insoluble Sulfur, Process For Producing Insoluble Sulfur, Production Process of Insoluble Sulphur, Insoluble Sulfur Manufacturing Process, Treatment of Insoluble Sulphur, #Insoluble\_Sulfur\_(Is), #Stabilize\_Insoluble\_Sulphur\_Production, Manufacturing of Insoluble Sulfur, Insoluble Sulfur Stabilization, Stabilised Insoluble Sulphur Production, Stabilised Insoluble Sulphur Manufacturing Business, Stabilization for Manufacture of Insoluble Sulfur, Insoluble Sulfur Manufacturing Business, #Insoluble\_Sulfur\_Industry, Insoluble Sulfur Manufacturing Plant, Insoluble Sulphur Manufacturing Process, Set up a Unit for Manufacturing of Insoluble Sulfur, Manufacturing of Insoluble Sulfur (IS), #Project\_Report\_on\_Stabilised\_Insoluble\_Sulphur\_Manufacturing\_Industry, Detailed Project Report on Stabilised Insoluble Sulphur Production, Project Report on Stabilised Insoluble Sulphur Production, Pre-Investment Feasibility Study on Stabilised Insoluble Sulphur Manufacturing Business, Techno-Economic feasibility study on Stabilised Insoluble Sulphur Manufacturing Business, #Feasibility\_report\_on\_Stabilised\_Insoluble\_Sulphur\_Manufacturing\_Business, #Free\_Project\_Profile\_on\_Stabilised\_Insoluble\_Sulphur\_Manufacturing\_Business, Project profile on Stabilised Insoluble Sulphur Production, #Download\_free\_project\_profile\_on\_Stabilised\_Insoluble\_Sulphur\_Manufacturing\_Business

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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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## **NIIR PROJECT CONSULTANCY SERVICES**

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

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# Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *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

## NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,  
New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



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