

**Commissioner of Industries
Hyderabad
Andhra Pradesh**

Project Title	Castor Oil Derivatives														
Project Description	<p>The Project envisages setting up of a manufacturing unit for producing the various derivatives of Castor. The project will involve the purification of Castor oil and subjecting it to various treatments such as dehydration, hydrogenation, saponification, acidification etc. to extract various derivatives such as dehydrated castor oil, hydrogenated castor oil, 12-hydroxy stearic acid etc. There are about 200 castor oil derivatives, however the project will involve the production of only selected few that are commercially important and find applications in industrial products.</p> <p>India is the world's leading producer of castor oil. The manufacturing of castor oil derivatives has picked up momentum and many units have been installed in the recent past.</p> <p>The castor oil derivatives are used for various industrial and consumer products manufacturers in products including perfumes & cosmetics, plastics, rubber & allied products, paints, varnishes, inks & adhesives, pharmaceutical products, soaps & waxes, greases, engine oils & lubricants and many others.</p>														
Market Scenario	<p>There exists a wide opportunity to exploit the global market which is estimated at approximately USD 500 million for various castor oil derivatives.</p>														
Suggested Locations	Nalgonda, Kurnool, Mahaboobnagar.														
Raw Material/ Intermediates	The main raw material required for the project is BSS grade Castor Oil. For the suggested capacity plant approximately 9000 TPA BSS Grade castor oil will be required. Other required inputs would include Acids, Alkalies, Catalyst, etc.														
Estimated Capacity	<p>The proposed unit will process 9000 MT of BSS grade castor oil per annum which would produce hydrogenated castor oil, 12-hydroxy stearic acid (12-HSA) and dehydrated castor oil.</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Products</th> <th style="text-align: center;">Installed Capacity (TPA)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Hydrogenated Castor Oil</td> <td style="text-align: center;">3000</td> </tr> <tr> <td style="text-align: center;">12-Hydroxy Stearic Acid (HSA)</td> <td style="text-align: center;">2700</td> </tr> <tr> <td style="text-align: center;">Dehydrated Castor Oil</td> <td style="text-align: center;">2700</td> </tr> <tr> <td style="text-align: center;">Glycerin, Pure</td> <td style="text-align: center;">300</td> </tr> <tr> <td style="text-align: center;">Process Loss</td> <td style="text-align: center;">300</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">9000</td> </tr> </tbody> </table> <p>It is estimated that six such units could come up at the identified locations.</p>	Products	Installed Capacity (TPA)	Hydrogenated Castor Oil	3000	12-Hydroxy Stearic Acid (HSA)	2700	Dehydrated Castor Oil	2700	Glycerin, Pure	300	Process Loss	300	Total	9000
Products	Installed Capacity (TPA)														
Hydrogenated Castor Oil	3000														
12-Hydroxy Stearic Acid (HSA)	2700														
Dehydrated Castor Oil	2700														
Glycerin, Pure	300														
Process Loss	300														
Total	9000														
Estimated Cost	INR 130 million (USD 2.89 million) per unit.														