

### PROJECT CONSULTANCY - IN DEPTH PERSPECTIVE BY

## SMB ENVIRONMENTAL PROJECTS (P) LTD. – NAGPUR



## 1. FIRST AND MOST IMPORTANT STEP VISUALIZE A PROJECT



2. SELECT A COMPETENT CONSULTANT

## SIGN A MEMO OF UNDERSTANDING FOR SINGLE POINT RESPONSIBILITY



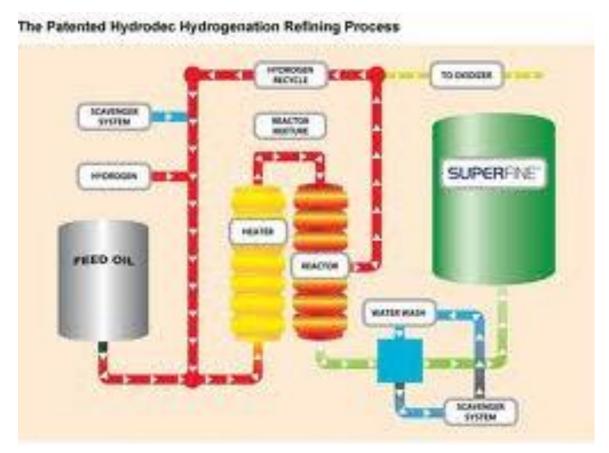
#### 3. CLIENT & LOCATION REQUIREMENTS

## GATHER ALL LOCATION AND CLIENT SPECIFIC INFORMATION



#### 4. PROJECT PLANNING

A BROAD OUTLINE AND BASIC ASPECTS OF THE PROJECT IS ADEQUATE AT THIS STAGE BEFORE COMMENCING THE DETAILING



### 5. SELECTION OF TECHNICAL KNOW HOW AND TECHNOLOGY

TECHNICAL TIE – UP WITH TECHNOLOGY SUPPLIER OR PROCESS LICENSOR MAY BE NEEDED IN CERTAIN PROJECTS

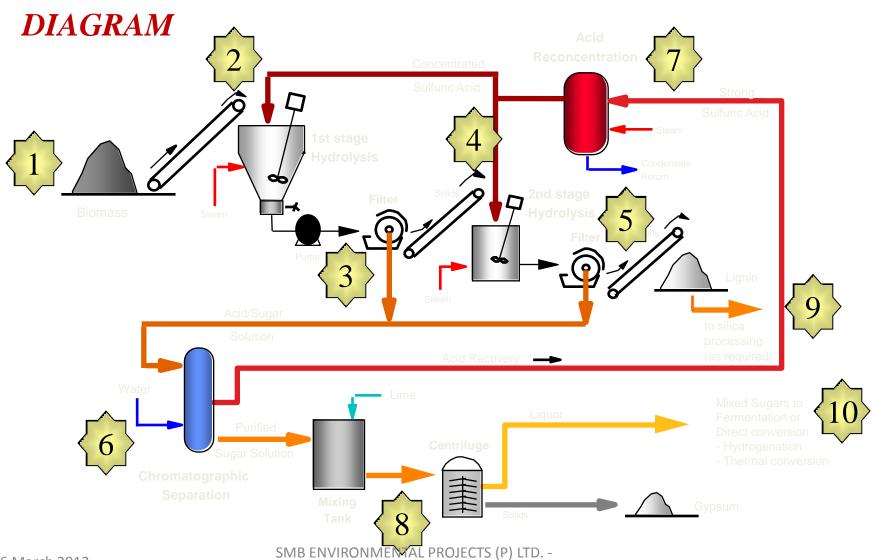


#### **6. Environmental Impact Assessments**

The project must meet all prevalent Pollution Control limits – Be it Air, Water or Solid waste

## 7. PROCESS FLOW

#### Conversion of Cellulose / Hemi-cellulose to Mixed Sugars Using Process Technology of Concentrated Acid Hydrolysis



NAGPUR - INDIA MOB: +91 9860240852



#### 8. PLANT LAYOUT

LEADS TO EXACT ESTIMATION OF LAND REQUIREMENT FOR PRODUCTION FACILITIES



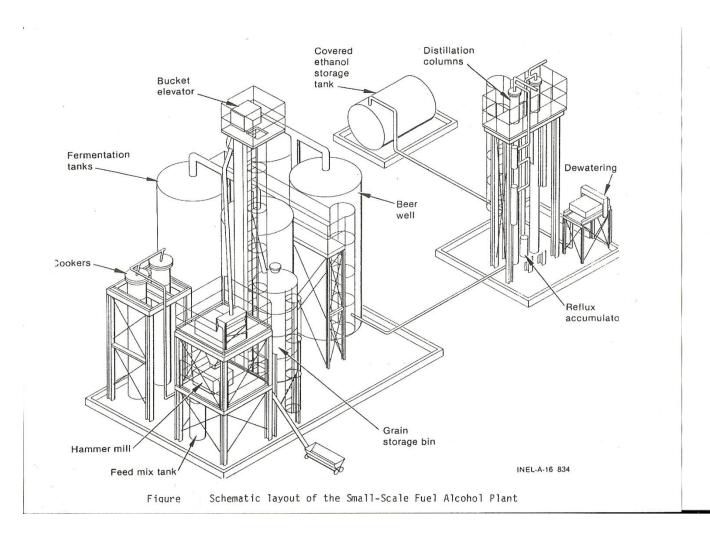
#### 9. EQUIPMENT SPECIFICATIONS

VERY IMPORTANT FOR NEXT STEP OF DETAILING AND COSTING AND LATERON FOR TENDERING / ORDERING



#### 10. DETAILED ENGINEERING

### IMPORTANT AND PRACTICAL ASPECTS TO GET REALISTIC COST ESTIMATE

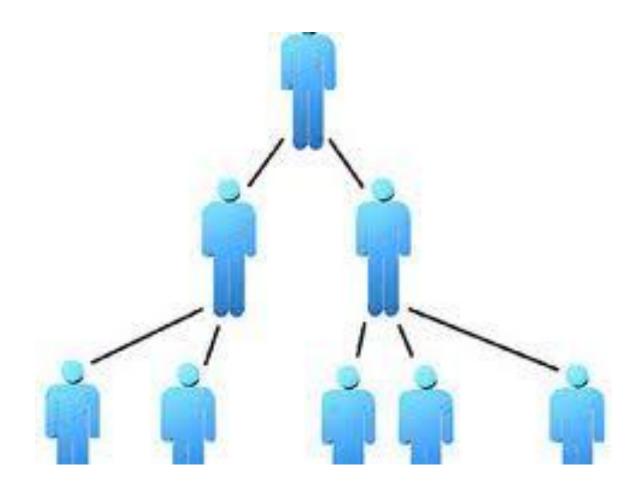


#### 11. PLANT & MACHINERIES AND ITS DETAILED ENGG. ENABLES TO GET SUCH AN OVERVIEW THOUGH STILL ON PAPER



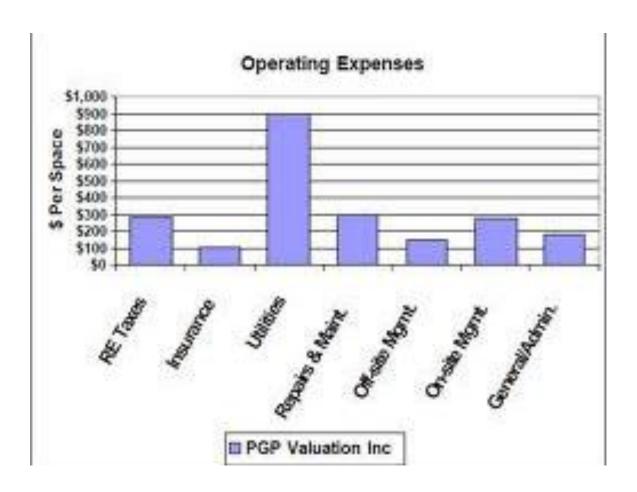
#### 12. LAND AND BUILDING

SHOULD INCLUDE INFRASTRUCTURAL FACILITIES LIKE ELECTRICAL POWER, WATER STORAGE, FIRE FIGHTING, SECURITY MEASURES ETC.



#### 13. MANPOWER REQUIREMENT

UNSKILLED, SEMI SKILLED, SKILLED, SUPERVISORY AND MANAGERIAL MANPOWER TO BE DETERMINED



#### 14. OPERATING EXPENSES

INCLUDES UTILITIES, POWER, MANPOWER AND OTHER VARIABLE COSTS



#### 15. COST ESTIMATION & CASH FLOW

WITH DETAILED ENGG. DONE, IT IS EASY
TO GET REALISTIC COSTING AND HENCE
PROFITABILITY / CASH FLOW COMPUTATTION

#### 16.1 PROJECT REPORT

- 1. EXECUTIVE SUMMARY
- 2. INTRODUCTION
- 3. QUALITY STANDARDS
- 4. MARKET & EXPORT POTENTIAL
- 5. BASIS & ASSUMPTIONS
- 6. PRODUCTION & TECHNICAL ASPECTS
- 7. PROJECT FACILITES & COST ESTIMATION
  - 7.1 Land & Building
  - 7.2 Plant & Machineries
  - 7.3 Pollution Control & Energy Conservation

#### 16.2 PROJECT REPORT

- 8. COST SUMMARY & OPERATING EXPENSES
- 9. FINANCIAL ANALYSIS ( Projected cash flow )
- 10. SENSITIVITY ANALYSIS (Effect of price variations
- 11. LATEST PLANT & MACHINERIES SUPPLIERS
- 12. HOW TO SET UP AN INDUSTRIAL ENTERPRISE
- 13. GOVT. POLICIES AND INCENTIVES FOR EOU
- 14. TAXATION PROVISIONS & BENEFITS

#### 16.3 PROJECT REPORT

- 15. SSI IMPORTANT PROVISIONS
- 16. THE FACTORIES ACT
- 17. THE INDUSTRIAL ESTABLISHMENT ACT
- 18. THE MINIMUM WAGES ACT
- 19. FINANCING ARRANGEMENTS



# 17. A DETAILED PROJECT REPORT HERE IS A MASTER PLAN NOW AVAILABLE WITH YOU



#### 18. FINANCIAL APPROVALS

ARRANGE FROM OWN SOURCES, PROMOTERS OR FINANCING INSTITUTIONS, PRIVATE EQUITY PLACEMENT IS PREFERABLE TO

#### AVOID INTEREST COMPONENT



#### 19. PROJECT MONITORING

AN IMPORTANT ASPECT IN IMPLEMENTATION TO CONTROL COST AND TIME OVER RUN



#### 20. ORDERING INDIVIDUAL EQUIPMENTS

TENDERING, ORDERING AND CLEARING DISPATCHES FROM THE SUPPLIERS' WORKS



# 21. PLANT ERECTION EITHER A TURN KEY CONTRACT OR SECTION – WISE



# 22. PROJECT EXECUTION THE SKY LINE CHANGES ON THE SITE



23. THE PROJECT IS COMMISSIONED
THE DREAM COMES TRUE