



An ISO 9001 - 2008
Organization



TWG GROUP

THE WORD OF GOD

INTERNATIONAL STANDARD

ISO/IEC-17025:2005 NABL ACCREDITED FOR NDT

(Dept. of Science and Technology, Government of India)



Accreditation Certificate No: T - 2387
Metal Lab



सत्यमेव जयते
Government of India

PROCESS ENGINEERING

CONTENT

1. INTRODUCTION :

- INTRODUCTION TO PROCESS
- RESPONSIBILITIES OF PROCESS

ENGINEER/DESIGNER

- SCOPE OF PROCESS - INPUTS AND OUTPUTS

2. INTRODUCTION TO OIL AND GAS INDUSTRY

3. SYMBOLS FOR P & ID

4. PROCESS FLOW DIAGRAMS (PFD) PREPARATION

5. UTILITY FLOW DIAGRAMS (UFD) PREPARATION

6. PIPING AND INSTRUMENTATION DIAGRAM (P&ID) PREPARATION

7. SPECIALITY FITTINGS

8. INSTRUMENTATION AND PROCESS CONTROL OVERVIEW

9. LINE SIZING FOR VARIOUS SERVICES

10. BASICS OF PIPE SELECTION

11. SIZING AND SPECIFICATIONS OF VARIOUS PRESSURE VESSELS

12. PUMP DESIGN

13. HEAT EXCHANGER DESIGN

14. EVALUATION OF CONTROL VALVES

15. PRESSURE RELIEF DEVICES

16. HAZOP REVIEW DEMONSTRATION

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KOCHI

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