3.4 Stand-off-distance 24
3.5 Machining parameters 25
  3.5.1 Influence of process parameter 25
3.6 Abrasive slurry characterization 27
  3.6.1 Abrasives and their Influences 27
  3.6.2 Classification and properties of abrasive materials 27
  3.6.3 Slurry concentration 29
  3.6.4 Liquid media 29
3.7 Polymers in abrasive water jet cutting 30
3.8 Structure of abrasive water jet cut surface 30
3.9 Work material : Glass 32
3.10 Parameters influencing accuracy 32
3.11 Surface finish 34
3.12 Environment effect 36
  3.12.1 Cutting parameters 37
3.13 Problem formulation 37

CHAPTER 4: Experimental Set-up 40
  4.1 Introduction 40
  4.2 General description of AWJM 40
    4.2.1 The working tank 41
    4.2.2 Air compressor unit 41
    4.2.3 Abrasive water jet cutting head 41
    4.2.4 Work holding and cutting head holding arrangement 42
    4.2.5 Pressure hose 43
    4.2.6 Storage tank 43
  4.3 Preparation of abrasive slurry 44
  4.4 Experimental procedure 44

CHAPTER 5: Results and Discussions 47
  5.1 Introduction 47
  5.2 Material removal rate 47
    5.2.1 Nozzle diameter 50
    5.2.2 Stand-off-distance 55