BRINGING NEW PRODUCTS/TECHNOLOGIES TO COMMERCIALIZATION

A TTS CASE STUDY

Tamrat Tekle, TTS inc.
9527-49th Avenue
Edmonton, AB, CANADA, T6E 5Z5
September 2014

www.ttsfpl.com

BACKGROUND

- Operating since 1998 as an applied R & D operation with consulting services
- Fully equipped composite testing lab
- Competent in applied biocomposite products and technology development
- Leader in Engineered wood composites development
- Expertise in microwave applications in composite manufacture
- Evolved into a biocomposites incubator facility in 2008
TECHNOLOGY INTERESTS & EXPERTISE

Development of value-added products utilizing agricultural fibres, forestry residue and municipal fiber waste

- Engineered fibre mats
- Structural Insulated Panels (SIP’s)
- Composite Panels
- Fibre Cement Composites
- Fibre Plastic composites

FACILITY – TESTING

TESTING

TWO UNIVERSAL TESTING MACHINES
FACILITY–TESTING

FULL SIZE BEAM TESTER

GUARDED HOT PLATE THERMAL INSULATION TEST
FACILITY—TESTING

CHEMICAL TEST CENTRE

FACILITY—INCUBATOR

SIP PILOT LINE
FACILITY–INCUBATOR

FIBRE-CEMENT BLOCKS PILOT LINE

FACILITY–INCUBATOR

COMPOSITES PILOT PRESS

CONTINUOUS MICROWAVE LINE
FACILITY–INCUBATOR

COMMERCIAL EFM PLANT
COMPRESSION MOULDING APPLICATIONS

INFUSION MOULDING APPLICATIONS
CONCEPTUAL APPLICATIONS
- Furniture components
- Acoustic dividing walls
- Sustainable emergency housing
- Etc.
TTS OPERATIONS FLOW CHART

SERVICES
- TESTING LAB
- PRODUCT DEVELOPMENT
- PROCESS IMPROVEMENT
- PROCESS DEVELOPMENT

INTERNAL R & D
- NEW POTENTIAL WHICH MEETS STRATEGIC REQUIREMENT
- LITERATURE REVIEW
- UNIVERSITY ASSOCIATES
- OTHER RESEARCH PARTNERS
- STRATEGIC ALLIANCES

INTERNAL R & D
- KNOWLEDGE AVAILABLE?
- COMMISSION BRANCH WORK
- R&D COMPLETE?
- FINANCING AVAILABLE?

MARKETING & PROMOTION
- CUSTOMER AVAILABLE?

GENERATE CASH FLOW

THANK YOU