



*Particle Separation Systems has through unique paradigm thinking engineered several unique technologies. The invention of steel belt screens and the Parsep dryer using steel mesh belts have opened up an opportunity to enable complete new process development. Patented processes include the LaDePa (Latrine sludge dehydration and pasteurization) process, an environmental solution to clean up environment and process the harmful sludge into GROWETHEK – a pasteurized fertiliser.*

*The most recent invention is the Patented REFOSANDS process whereby foundry sands are recycled and, in doing so, produce a higher quality sand for the manufacture of engine blocks. The final engine blocks are of higher quality than using standard available sands. Up to 85 % of the sands are recovered and result in a substantial saving by reducing the disposal as hazardous waste sands.*

*In 2010 PSS formed Ferro Zore (Pty) Ltd, a BEEE-compliant company with Zola Kwela, a qualified Chemical Engineer. The patent uses the Parsep dryer technology to produce dry powdered +26% Fe analytical grade Ferric Sulphate, a technology which will commence production in 2012.*

#### **PSS**

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