



PORTFOLIO COMMITTEE ON SCIENCE AND TECHNOLOGY

OVERSIGHT VISIT 27-30 MARCH 2017

OUDTSHOORN, EAST LONDON AND KWAZULU NATAL

**MONDAY, 27 March 2017: FOCUS – INDIGENOUS KNOWLEDGE SYSTEMS
(OUDTSHOORN)**

7:45 – 11:00	Departure from Hotel to Klippie Teater	Attequa region history of the Attequa Community Visit to the Cango Caves
11:00	Arrivals and refreshments	
11:15 – 11:30	Welcome and Introductions	Chief Mooney/ Ms Maseko (Committee Chairperson)
11:30 – 12:00	Attequa Community Projects	Headman Stuurman
12:00 – 12:30	Bio-Cultural Protocol and work done to date	Chief Van Wyk
12:30 – 13:00	IKS Documentation project	Ms Ndwandwe
13:00 – 14:00	LUNCH	
14:00 – 14:30	Documentation operations in the community: IK Recorders experiences	Chief Van Wyk
14:30 – 15:00	Discussion	Committee questions and responses
15:00	Way Forward and Closure	Chief Mooney/ Ms Maseko

TUESDAY, 28 March 2017: FOCUS ON CSIR PROJECTS (KZN)

9:30 - 10:30	Institute for Commercial Forestry Research	The DST's Sector Innovation Fund (SIF) programme includes seven SIFs in different sectors. It is aimed at incentivizing the private sector to invest more in research, development and innovation – to improve their competitiveness. One of these is with Forestry SA, who represent the majority of growers (small and large scale) in the Forestry Sector. The ICFR is a key research service provider in for the FSA SIF and the visit is intended to give the PC a sense of some of the SIF supported projects and how these are benefitting industry.
11:00 - 12:30	Pfisterer – a beneficiary of the DST's Technology Localisation Implementation Programme	Pfisterer is one of the beneficiaries of the DST's Technology Localisation Implementation Programme, managed by the Technology Localisation Implementation Unit, at the CSIR. The enterprise is a black woman owned foundry, who has received assistance through the TAP/SWTAP which has resulted in them landing a contract with Eskom, among others.
13:00 – 13:30	Lunch	
14:15 – 16:15	CSIR Biorefinery Facility DBN	The DST's Industry Innovation Programme is a partnership with the CSIR to develop capability to assist industry to more competitive. It includes four facilities: Biomanufacturing Industry Development Centre, Nanomaterial Industrial Development Facility, the Biorefinery Facility and the Photonics Prototyping Facility. The Biorefinery Facility is at the Durban campus of the CSIR, and will integrate biomass conversion processes and equipment to produce fuels, power and chemicals from biomass. The DST's investment, through CSIR Parliamentary Grant funding, as well as the IIP, has been with respect to renovations to building to upgrade the facility, and providing equipment and other infrastructure to the facility. In addition, students are co-supported with the Waste RDI roadmap support.

Wednesday, 29 March 2017: FOCUS ON TIA PROJECTS (KZN)

Starts off in the South of Durban with a visit to the TIA Bioprocessing Platform in Umbogintwini, then proceed to MUT and finally Food and Cosmetic Technologies which is in Glenwood.

TIME	Programme	Description
8:30-8:45	Arrival, Welcome and Tea TIA Bioprocessing Platform- Umbogintwini	
8:45-9:30	TIA Bioprocessing Platform Briefing Tour Interns Testimonials Project pitch: Enzyme Technologies	<p>TIA Bioprocessing Platform provides infrastructural and technical support to entrepreneurs with ideas that are microbiology, biotechnology, biochemistry and chemically based. It is located at the Umbogintwini industrial Complex in the south of Durban. The Platform is available for use by both TIA Funded projects and non-TIA funded projects and addresses the shortage of science entrepreneurs and bioprocess development in South Africa. It does so by providing an environment that is otherwise costly to obtain and maintain, thereby lowering the business risk, both to TIA and the entrepreneurs. The Platform is the epicenter for activities that support bioprocessing projects with a commercial potential. It allows additional technical focus and technology development to be channelled into the scale up of technologies within a business environment allowing the development of new biotechnology processes, products and companies within South Africa.</p> <p>Enzyme Technologies Enzyme Technologies (PTY) Ltd is a South African based biotechnology company that has developed world class technology to manufacture bromelain from waste pineapple stems. 10 years of research has enabled the company to produce the most stable bromelain product. The product is produced in accordance with pharmaceutical standards. Bromelain offers benefits to both humans and animals, most notably as a potent digestive aid, de-wormer, anti-inflammatory and anti-diarrhoea agent.</p>

		<p>Bromelain can also degrade poultry feathers into a digestible, protein-rich feather meal. With R9m funding secured to date from TIA and private entities, Enzyme Technologies has optimised the process and conducted limited animal trials. Enzyme Technologies has secured a further R8.9m from TIA to demonstrate scalability and efficacy in animal trials before delivering the final product to market. The project is incubated at the Bioprocessing Platform.</p>
9:30-10:00	Drive to MUT (Umlazi)	
10-10:15	<p>Arrival & Tea at MUT</p> <p>Welcome by the Vice Chancellor/ DVC Research & Innovation</p>	
10:15-11:30	<p>MUT Centre for the Development of Green Technologies (CDGT)</p> <p>Briefing Session</p> <p>Tour of CDGT</p> <p>Student Pitching Session & Testimonials</p>	<p>The Centre for Development of Green Technologies has been set up to find viable and sustainable alternatives to energy crisis faced in the country. The Umlazi-based centre, serves to lead the way in developing energy efficient resources that are in keeping with the national development priorities. The centre integrates all aspects of energy efficiency and renewable energy into the MUT brand and carry that forward to the community, industry, local government, national government and international arena. TIA provided funding for the establishment of the centre.</p>
11:30-13:00	<p>MUT Technology Station in Chemicals</p> <p>Briefing Session</p> <p>SMME Testimonials</p> <p>Tour of flagship Initiatives</p>	<p>The Technology Station in Chemicals offers technological support and services to industries involved or specializing in chemical and related operations. The scope of the Station ranges from SMMEs to large industries and corporate establishments. Its current geographical scope is Kwa-Zulu Natal and its current priority market sectors include, Detergents and disinfectants; Cosmetics; Water Management; Bio-Energy; Urban Agriculture and offers training targeted at SMMEs. The Technology Station has been quite instrumental in supporting a large number of SMMEs within the local communities with the development of chemical formulations and product improvement services.</p>
13:00-	LUNCH (at MUT)	

13:45	Technology Stations in Chemicals)	
13:45-14:00	Travel to Food and Cosmetic Technologies (Glenwood)	
14:00-16:00	<p>Food & Cosmetic Technology (FaCT)</p> <p>Briefing Session</p> <p>Tour of Lab Facilities</p> <p>Low GI Product Tasting</p> <p>Student project pitches</p>	<p>FaCT is an SMME involved in the formulation of Novel Low GI sugar and cosmetics products. Low GI sugar is a TIA funded project in the Health STA. FaCT was established in 1999 to provide a variety of laboratory and consulting services to the Food, Beverages, Cosmetics and Allied industries. The company provides research and innovation in product and processes for value-added product and processing technologies. Through TIA's continued support, it has developed a range of Low GI products that are supplied to many local companies, including multinationals such as Nestle'. FaCT is a good example of a small South African company that has broken into difficult niche markets and is engaged in effective collaborations with the local Universities and communities to develop talent in this sector</p>

Time	Program	Description
08h30 – 09h00	Arrival at University of KwaZulu-Natal (UKZN)	Ms Zodwa Masinga, Co-ordinator, DST/IKS Documentation Centre, UKZN
09h00 – 11h20	Visit to Maphephetheni Community, Inanda, KwaZulu-Natal	Ms Zodwa Masinga, Co-ordinator, DST/IKS Documentation Centre, UKZN and Ms Kedi Aphane, Deputy Director: Knowledge Management, NIKSO, DST
	Welcome by Traditional Leader Overview of DST IKS Documentation Centre at UKZN	Nkosi Gwala, Community Leader
	Indigenous Knowledge Holders Perspectives on IKS Documentation Project	Dr Nkomo, Traditional Healer
	Visit to the DST- NRF Centre in Indigenous Knowledge Systems	Prof HO Kaya, Director DST-NRF Centre in Indigenous Knowledge Systems
	Participation at the Mother Tongue Language in Science and Technology Curriculum Colloquium for Student Teachers	
	Presentation of the Indigenous Knowledge Systems Treasure Hub	Kedi Aphane, Deputy Director: Knowledge Management, NIKSO, DST and Joyce Myeza, Director: Library and Information Services, UKZN
15h00 – 16h00	Visit to UKZN South African Research Chair in Indigenous Healthcare Systems	Prof E Gomo, SARChI Indigenous Healthcare Systems, UKZN

