



**KCSAP COLLABORATIVE APPLIED RESEARCH GRANTS
AWARDED PROPOSALS**

SECTION 1: LEAD INSTITUTION AND PRINCIPAL INVESTIGATOR (PI) PARTICULARS			
1.1	LEAD INSTITUTION:	Kenya Agricultural and Livestock Research Organization (KALRO)	
1.2	Principle Investigator:		
	Name: Mr. Tura Isako		
1.3	Mailing Address:	P.O Box 3840-20100 Lanet	
1.4	E-Mail Address:	turaisiko@yahoo.co.uk/tura.isako@kalro.org)	
1.5	Collaborators and their affiliate Institutions		
	Patrick G. Mwangi- BRI Lanet Lenah Muema - BRI Lanet Dr. Elizabeth muthiani- BRI, Mariakani Dr. Thomas K. Muasya- Egerton University, Njoro Mr. Leonard Mukhabi- Kenya Stud Book, Nakuru. Boran Cattle Breeders Association KAGRIC Commercial ranches Pastoralists and Agro-pastoralists County Government		
SECTION 2: PROJECT PARTICULARS			
2.1	PROJECT No. & TITLE:	SS02/2/2/5 Germplasm multiplication of improved Boran cattle, Orma Boran and their crosses for ASAL Counties of Kenya	
2.2	KCSAP Livestock Value Chain (i.e. Dairy, Red Meat, Indigenous Chicken, Apiculture, Aquaculture including Animal Health and Pastures and Fodder:	Red Meat	
2.3	Value Chain:	Red meat	
2.4	Location (Area)	KALRO LANET	
	Date of Commencement:		Expected Date of Completion:
	April 2020		December 2021
			Total Duration in Months:
			20 months
2.6	Total Cost of the Project (KES):	19,000,000	

3.1	Executive Summary	<p>Alternative non-conventional feeds could be a solution to adapt livestock systems to adverse impacts of climate change. Such negative impacts include frequent droughts leading to scarcity for livestock. As a result, livestock-based enterprises viz feedlots are in danger of crumbling, leading to chronic poverty along the value chain. Encroacher bush species, which are a menace in rangelands are rich sources of bound nutrients, with low digestibility. The current study is aimed at enhancing the feed value of these encroacher bushes through biotechnological approaches and other selected feed additives.</p>
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