



**KCSAP COLLABORATIVE APPLIED RESEARCH GRANTS  
AWARDED PROPOSAL SUMMARY**

SECTION 1: LEAD INSTITUTION AND PRINCIPAL INVESTIGATOR (PI) PARTICULARS			
1.1	LEAD INSTITUTION:	Jomo Kenyatta University of Agriculture and Technology (JKUAT)	
1.2	Principle Investigator:		
	Name: Dr Mathew G Gicheha		
1.3	Mailing Address:	P.O. BOX 62000-00200 Nairobi, Kenya	
1.4	E-Mail Address:	gicheham@jkuat.ac.ke	
1.5	Collaborators and their affiliate Institutions		
	1. Mr. Tura Isako; KALRO LANET 2. Dr Peter Kahenya; Email: pkahenya@jkuat.ac.ke 3. Dr Joyce Gikandi; Email: Jwgikandi@mku.ac.ke 4. Dr Leonard Mburu; Email: MBURU.LEONARD@ku.ac.ke		
SECTION 2: PROJECT PARTICULARS			
2.1	PROJECT No. & TITLE:	AR02/2/8 Climate Responsive Low-Input Grazed Production Systems Project for ASALS in Kenya (CRASALS)	
2.2	KCSAP Livestock Value Chain (i.e. Dairy, Red Meat, Indigenous Chicken, Apiculture, Aquaculture including Animal Health and Pastures and Fodder:	Climate Smart Livestock and Aquaculture	
2.3	Value Chain:	Red meat	
2.4	Location (Area)	Isiolo	
2.5	Date of Commencement:	Expected Date of Completion:	Total Duration in Months:
	April 2020	December 2021	20
2.6	Total Cost of the Project (KES):	KES 4,771,934.60.00	
3.1	Executive Summary	A team of scientists from different disciplines explored the nature of the arid and semi-arid (ASALs) agricultural systems from their respective training perspective. From the exploration, it was agreed that for any meaningful intervention to occur there was need to consider the ASALs production and profitability challenges and opportunities from a systems approach (Doyle 1950). This implies disaggregating and integrating all aspects (subsystems – animal, resources and human component representing management) in a system and testing the impact of each strategic or tactical decision. This informed the development of a tool based on all the aspects including climate risk management strategies.	