



Terms of Reference: Linux High-Performance Server for Animal Breeding & Genetics Programme

The ARC requests service providers to provide a quote for the procurement of a high-performance server for use in genetic analysis of cattle.

Specifications:

The solution must include not only the hardware, but also the setup, configuration, and installation of the server. In addition, a resource will need to be made available for a period of at least 3 weeks for hand-over and user training. In particular at least one person will need to be trained as the sysadmin for the system. When completed the users of the system should be able to immediately commence with the analysis of genetic sample information.

Item	Count	Description	Notes
1	1	2U SFF Rack Mount Server	8 x SAS Bays
2	2	Intel Xeon 5220 CPU	18 Core / 36 Thread (72 Thread Total)
2a	4	Intel Xeon 5220 CPU	18 Core / 36 Thread (144 Thread Total)
3	4	16Gb DDR4 2933MT Memory (RAM)	Total 64Gb
3a	4	128Gb DDR4 2933MT Memory (RAM)	Total 512Gb
4	2	480GB SATA 6G Mixed Use SFF (2.5in) Smart Carrier Multi Vendor SSD	OS / Boot Drive
5	2	480GB SATA 6G Mixed Use SFF (2.5in) Smart Carrier Multi Vendor SSD	Computation Disk
6	6	960GB SATA 6G Read Intensive SFF (2.5in) Smart Carrier Multi Vendor SSD	Storage Disk
7	1	Installation	Installation into rack
8	1	Configuration	OS Installation and setup for HPC use
9	1	Software Installation	Installation of software used for analysis of genetic data etc.
10	1	3 Year Warranty	
11	1	7 Year Extended warranty	
12	1	Hand-over and user training (3 Weeks)	