



पुण्यश्लोक अहिल्यादेवी
महाराष्ट्र मेंढी व शेळी विकास महामंडळ पुणे
(महाराष्ट्र शासनाची कंपनी)

www.mahamesh.co.in

email : mdsagpune@gmail.com



सत्यमेव जयते

डॉ. शशांक कांबळे

MVSc, MBA

व्यवस्थापकीय संचालक

"दरपत्रक मागविणे करिता सूचना"

विषय : राष्ट्रीय पशुधन अभियान अंतर्गत प्रक्षेत्र अंबाजोगाई येथे शेळ्यांमध्ये कृत्रिम रेतना करिता
Digital AI GUN, Digital Thawing Unit खरेदी करण्याकरीता दरपत्रक
मागविणे बाबत.....

शेळ्यांमध्ये अनुवंशिक सुधारणा कार्यक्रम राबविण्याकरिता उत्कृष्ट जातीच्या विर्यापासून तयार करण्यात आलेल्या गोठीत शितरेत मात्रा वापरून शेळ्यांमध्ये कृत्रिम रेतन कार्यक्रम राबविणे काळाची गरज निर्माण झालेली आहे. शेळ्यांमध्ये कृत्रिम रेतन कार्यक्रम राबविताना यामध्ये सुलभता व परिणामकारता वाढावी याकरिता अत्याधुनिक तंत्राचा वापर होणे आवश्यक आहे.

व्यवस्थापकीय संचालक, पुण्यश्लोक अहिल्यादेवी महाराष्ट्र मेंढी व शेळी विकास महामंडळ, गोखलेनगर, पुणे यांचे अंतर्गत राष्ट्रीय पशुधन अभियान अंतर्गत महामंडळाचे मेंढी व शेळी विकास प्रक्षेत्र, अंबाजोगाई प्रक्षेत्राचे बळकटीकरण व आधुनिकीकरण करणे या योजनेमधून सदर प्रक्षेत्रावरील शेळ्यांमध्ये कृत्रिम रेतन कार्यक्रम राबविणेकरीता खालील तक्त्यामध्ये नमूद केल्यानुसार Digital AI GUN व Digital Thawing Unit खरेदी करण्याकरीता सर्व करासहित दर मागविण्यात येत आहे. तरी संबंधित साहित्य उत्पादक कंपनी किंवा त्यांचे अधिकृत विक्रेता यांनी दिनांक २३/०९/२०२१ पर्यंत दर पत्रक महामंडळाचे मुख्य कार्यालय गोखले नगर पुणे येथे पोहोच करावे. तसेच सोबत Pan card जोडणे आवश्यक आहे.

Sr. No.	Name of Instrument	Specification of Instrument	Place of Supply	Qts	FOR rate including all taxes and charges
1	Digital AI GUN for Goats	As per Annexure – I Enclosed herewith	Punyashlok Ahilyadevi Sheep and Goat Development Farm, Anbajoga i, Dist. Beed	2	Rs..... /- (In words Rs.)
2	Digital Thawing Unit	As per Annexure – II Enclosed herewith	Farm, Anbajoga i, Dist. Beed	2	Rs..... /- (In words Rs.)

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Annexure – I

General Technical Specifications of Digital AI Gun

Auxilliary Light Source	6 LED auxiliary bright adjustable array
Battery Charger	Input: 110-240V~50/60Hz, 0.5Amp / Output:5V/3.5Amp dual USB charger with usb cable
Battery Charging Time	Between 1 - 2 hours upto full charge
Battery Type	In-built Li-ion 650mAH - 1100 mAH with atleast 2 hours backup (approx. 15-18 AI)
Camera	Minimum 2.0 MP HD housed in SS Pipe 316 medical grade
Camera Intensity	Should be adjustable during the viewing process (from low intensity to bright intensity)
Camera Protection	IP67 waterproof
Camera Resolution	640*480 / 1280*720
Charging Indication-Battery	Required
Charging Indication-Mains	Required
Focal Distance	Between 3cm to 6cm
Format	MJPEG
Speculum	Speculum to be provided for insertion in vaginal tract with Length of the blades is 20cm, Working length is 17.5cm, Maximum opening 11.5cm, Working Diameter 5cm
Housing	To be housed in a waterproof bag with ease of carrying on a motorcycle for field operations
Mobile Holder	Facility to attach the smartphone to a mobile holder, which should be adjustable for viewing clarity and should be able to attach/detach to the main Digital AI Gun. The mobile holder attachment should be in line of sight of the user (stright line view) while performing the AI process
Photo Capture	Supported Photo format (JPEG)
Power Supply	3.7V
Universal SS AI Gun	Should be between 12 to 14 inches for proper isemination of semen straw
USB	Internal 2.0 micro USB
Video Capture	Supported Video format (MP4)
Viewing Angle	Between 50 to 65 degree
WhatsApp/Email Transfer	Facility to share/send the photo/video capture via WhatsApp/Email option in the mobile app
Wi-Fi	Should have In-built Wi-Fi module and support Android / iOS platforms
Wi-Fi Connectivity	Should be compatible with a mobile app for photo and video capture
Wi-Fi Distance	Between 5m - 10m
Minimum Compatible Standard Recommended Mobile Handset Specs : (Handset is not in scope of supply)	
Monitor Size	5 inch / touch screen
Monitor Resolution	1280x800
Memory	1GB inbuilt / 16GB external



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विकास महामंडळ लि. गोखलेनगर, पुणे-१६.

Annexure - II

General Technical Specifications of Digital Thawing Unit

Adaptor:	Input -100-240VAC; 50/60 Hz; Output -12V 5A, with mains cord and 3-pin top
Battery Cable:	Battery Cable (min. 1 mtr) for connecting to vehicle (motorcycle) battery and thawing unit; Soft bag for carrying device
Device Indicators:	Seven segment display for temperature and set-point indication, unit default; Audio indication (buzzer) while Unit ON/OFF and thawing cycle completion.
Enclosure Body:	ABS Body (External); Aluminum tube inside for semen straw
Operating Temperature:	+5 to +45 degree centigrade
Packing:	Bubble Sheet & Carton Packing
Power Supply:	Device should have inbuilt feature to connect with the motorcycle battery via a battery cable
Size:	Height of device – 178 mm; Flask Diameter – 62 mm; Flask Height – 140 mm
Temperature Sensor:	PT 100 or equivalent; $\pm 0.01^{\circ}\text{C}$ to $\pm 0.02^{\circ}\text{C}$
Temperature Set Points for Thawing of Straw:	37/38 degree centigrade for Cow; 39/40 degree centigrade for Buffalo; or fixed temperature as per requirement
Thawing Details:	Programmable heating cycle from 4 minutes to 6 minutes (Factory default : 4 minutes); PID control action for accurate temperature control;
Thawing Methodology:	Water as a medium for thawing (approx. 40 ml); Vertical thawing methodology
User Operation:	Easy operation by using 2 keys (Up & Down Arrow Key); Built-in Vibrator for uniform distribution of Semen.
Weight:	0.5 Kg (only device); 0.9 Kg (With adaptor)
Device Test Certification:	Temperature (hot & cold); Vibration (1-axis)



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