

GOVERNMENT OF INDIA (MHA)

भारत सरकार, गृह मंत्रालय

DIRECTORATE GENERAL, SSB

महानिदेशालय, सशस्त्र सीमा बल

EAST BLOCK-5, R. K. PURAM

पूर्वी खण्ड-5, रामाकृष्ण पुरम

NEW DELHI-110066

नई दिल्ली - 110066

File No 102/VET/SSB/MOD/2013(Part File) - 879

Dated: 26.08. 2014

To

The ADG (Medical),
Dte. General Medical Services,
CAPFs, ITBP, Camp,
Tigri, PO: Madangir, New Delhi-110062
(FAX - 011-26042472).

Sub:- Sub-group meeting to formulate on QRs/Trial Directives for Veterinary items.

Sir,

Please refer to your UO. No. 24011/1/EC-VII/Vet/2014-1675, dated 08.08.2014 and FHQ SSB letter No. 102/Vet/SSB/MOD/2013(Part File)-832, dated 08.08.2014, on the subject cited above.

In this connection, it is intimated that the QRs of Veterinary Equipments/instruments has already been technically approved vide your UO under reference and Trial Directives of Veterinary Equipments have been recommended/finalized by the BOO, which was assembled in the chamber of DIG (Vet) on 21.8.2014 to 22.8.2014 at FHQ SSB.

It is requested that the Board Proceeding on Trial Directives of Veterinary Equipments/ instruments as recommended/finalized by the detailed BOO may also be approved and the Qualitative Requirements (QRs) and Trial Directives of Veterinary Equipments/Instruments are submitted in duplicate with the hard copies and soft copies in two CDs, so that this can be forwarded for final approval of MHA.

This issue with the approval of IG (Prov).

Encs: As above.

[Check list of QR's & Trial Directives in 2/0 Veterinary Instruments and equipments]

Yours faithfully,

[Signature]
26/8/14

(DR. S. K. TIWARI)

DY. INSPECTOR GENERAL (VET)

Tel/Fax No. 011-26166011

Received by

[Signature]
9/9/14

प्रेषक/Dispatcher
रेफरल अस्पताल, भा०ति०सी० पुलिस
Referral Hospital, ITB Police
गृह मंत्रालय भारत सरकार
MHA/Govt. of India
सिगरीज कैंप, नई दिल्ली-80
Tigri Camp, New Delhi-80

o/c
26/8/2014

BOARD PROCEEDING FOR PREPARATION OF TRIAL DIRECTIVE/SPECIFICATIONS OF VETERINARY EQUIPMENTS /INSTRUMENTS TO BE PURCHASED UNDER MODERNIZATION PLAN-II DURING THE YEAR 2013-14 AND ONWARD.

Proceeding of Submitting requisite information on Trial Directives/technical specification of Veterinary Equipments/Instruments in accordance to technically approved of QRs of Veterinary Equipments by ADG (Medical), CAPFs vide their letter UO No. 2411/1/EC-VII/Vety/2014-1675, dated 8.8.2014 to be procured under Modernization Plan-II in the year 2014-15 & onwards and updating of Veterinary Set-up.

Assembled at Office of the DIG (Vet), FHQ SSB, East Block-V, Sector-1, R. K. Puram, New Delhi-110066.

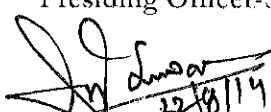
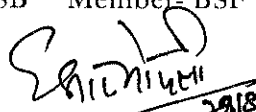
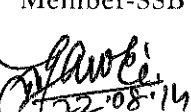
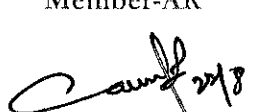
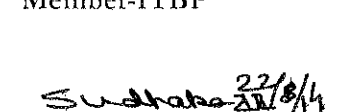
On 21.08.2014 to 22.08.2014

For the purpose To recommend/finalize the Trial Directives /specifications of Veterinary Equipments/Instruments be procured under Modernization Plan-II in the year 2014-15 & onwards.

By the Order of ADG (Medical), CAPFs ITBP vide their letter No. 24011/EC-VII/TD/2013-2687, dated 30.9.2013 and DIG (Vet), FHQ SSB letter No. 102/Vet/SSB/MOD/2013(Part File)-843-47 dated 12.8.14.

- Composition of the Board
- Presiding Officer : Dr. S.K.Tiwari, DIG (Vet)-SSB :
- Member-I : Dr. M.R.Popli, Comdt (Vet)-BSF
- Member-II : Dr. A.V. Gawai, Comdt (Vet)- SSB
- Member-III : Dr.Sudhakar Natarajan, Comdt (Vet) ITBP
- Member-IV : Dr. Raman Joshi, CVO,DGAR, A.R.

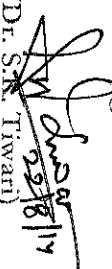
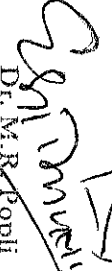

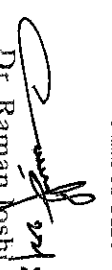
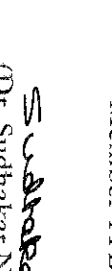
Pursuant to ADG (Medical) ITBP Order UO No. 2411/1/EC-VII/Vety/2014-1675, dated 8.8.2014 and DIG (Vet) letter No. 102/Vet/SSB/MOD/2013(Part File)-843-47 dated 12.8.14, the Board of Officers assembled at the Office of DIG (Vet), FHQ SSB, East Block-V, R.K.Puram, New Delhi w.e.f. 21.8.2014 to 22.8.2014 for recommendation/finalization of Trial Directive of Veterinary Equipments in accordance to technically approved of QRs by ADG (Medical) CAPFs, ITBP and standing instructions by MHA in this regard.


Presiding Officer-SSB	Member-BSF	Member-SSB	Member-AR	Member-ITBP
 (Dr. S.K. Tiwari) DIG (Vet)	 Dr. M.R. Popli Comdt (Vet)	 Dr. A.V. Gawai Comdt (Vet)	 Dr. Raman Joshi CVO (HQ DGAR)	 (Dr. Sudhakar Natarajan) Comdt (Vet)

TRIAL DIRECTIVE RECOMMENDED BY THE BOARD OF
OFFICERS, ASSEMBLED AT HQ SSB, NEW DELHI AND
APPROVED BY A.D.G. (MED), CAPF, ITRP
CAMP TIGRI, NEW DELHI,

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Presiding Officer-SSB  (Dr. S.K. Tiwari) DIG (Vet)
 Member-BSF  (Dr. M.R. Popli) Commndt (Vet)
 Member-SSB  (Dr. V. Gavai) Commndt (Vet)
 Member-AR  (Dr. Raman Joshi) CVO (HQ DGAR)
 Member-ITBP  (Dr. Sudhakar Natarajan) Commndt (Vet)



 Dr. A. K. Singh
 Addl. Director General (Med)
 CAPFs, NSG & AR
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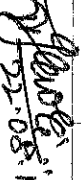
Trial Directive for Veterinary Laser Shower with Laser Comb


Sl No.	Parameters	Suggested Trial Procedure	Resulted/Desired
1	User- For treatment of bowed tendons, open wound healing and reduction of inflammation	<ul style="list-style-type: none"> • Check laser power physically on the screen/user manual 	To check its total utility in terms of Veterinary Specification, user friendly, various operation modes, working voltage, power supply, securing of the equipments and post sale service support facilities all over in India.
2	Should be veterinary specific semiconductor therapeutic laser 785mm/910 for optimal penetration in animal body.	<ul style="list-style-type: none"> • Check physically on live animal 	
3	Should have minimum area irradiation of 5500 mm ² to cover large affected areas of Dog & Horse	<ul style="list-style-type: none"> • Check physically laser shower, laser comb and interchangeability feature 	
4	Should emit laser rays via laser shower and laser comb interchangeable by the user at the click of a knob	<ul style="list-style-type: none"> • Check laser diode and ruby light emission physically 	
5	Should have maximum 21 simultaneously activated laser diodes with at least 4 intensive Ruby light diodes.	<ul style="list-style-type: none"> • Check filter glass physically 	
6	Should have filter glass for protection of laser diodes when used in field areas.	<ul style="list-style-type: none"> • Check for display on equipment screen 	
7	Should have minimum effective power of 50 mw in each laser diode with facility to adjust laser power from 5m w to 50mw depending on condition of the animal	<ul style="list-style-type: none"> • Check for display on equipment screen 	
8	Should have pulse duration of maximum 1m S and effective power of twice the peak power.	<ul style="list-style-type: none"> • Check operation modes display on screen 	
9	Should have multiple operation modes i.e. CT, multi frequency, Nogier A-G Bahr 1-7, Reminger 1-12 with all frequencies freely selectable on pulse modulation.	<ul style="list-style-type: none"> • Check manufacturer's certificate/user manual. 	
10	Should have multi-frequency random signal from quartz oscillator.	<ul style="list-style-type: none"> • Check screen display and radiation divergence via manufacturer's certificate physically. 	


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 Member-TTBP


 Member-AR

11	Should have color display screen with x-direction radiation divergence of 8° to 20° and y-direction divergence of 20° to 25°	<ul style="list-style-type: none"> • Check manufacturer's certificate /user manual 	<p><i>[Signature]</i> Addl. Director General (Med) CAPFs, NSG & AR WVA, Govt. Of India</p>
12	Should be 3B laser class with BF appliance classification good for working in extreme Indian conditions on 230 V, 50-60 Hz power supply.	<ul style="list-style-type: none"> • Check manufacturer's certificate /user manual 	
13	Should be supplied in sturdy metal carrying and storing case with laser shower and laser comb heads, laser safety glasses, operation manual and laser protection glass.	<ul style="list-style-type: none"> • Check standard set contents physically 	
14	Should be backed by manufacturer's certifications complying CE Market to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, ENAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	<ul style="list-style-type: none"> • Check manufacturer's certificate 	
15	Should be installed onsite with complete user technical training and backed by onsite after laser service support all over India including CAPF and paramilitary field units.	<ul style="list-style-type: none"> • Ensure proper installation and onsite technical training. 	

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 Member-A.R.

Trial Directive for Portable Hand-Held Veterinary Fiber Endoscope

Sl. No.	Parameters	Suggested Trial Procedure	Result Expected/Desired
1	Should be veterinary portable hand held fiber endoscope or Fiberscope weighing more than 500 gs for examination of respiratory, digestive, urogenital, ENT system for disease diagnosis.	<ul style="list-style-type: none"> • Check for portability, weight and hand held operation • Check weight by physical measurement 	To check total utility in terms of Veterinary specification, ultra portability, field view, securing of the equipments and post sale service support all over in India.
2	Should have fiberscope coated with vinyl or temperature compressed material for softness and flexibility.	<ul style="list-style-type: none"> • Check equipment physically. 	
3	Should have inbuilt LED/Halogen light source working on AA sized batteries.	<ul style="list-style-type: none"> • Check light source & power source physically. 	
4	Should have minimum fiberscope length of 50" for utility in nose, ear, sinus, cyst, urethra, esophagus and rectum of animals.	<ul style="list-style-type: none"> • Check length by physical measurement 	
5	Should have fiberscope field view of minimum 45 at ambient lighting conditions with viewing distance of minimum 10mm.	<ul style="list-style-type: none"> • Check manufacturer's certificate /user manual 	
6	Should have different insertion tube diameters of 6mm, 6.5mm and 9mm with external cleaning brush.	<ul style="list-style-type: none"> • Check diameter by physical measurement 	
7	Should be supplied in sturdy metal carrying and storing case with operation manual, angular reflector mirror and cleaning tissue.	<ul style="list-style-type: none"> • Check standard set contents physically. 	
8	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, ENMAS, CE UL. All manufacturer's certifications to be produced at the time of delivery/installation.	<ul style="list-style-type: none"> • Check manufacturer's certificate. 	
9	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	<ul style="list-style-type: none"> • Ensure proper installation and onsite technical training. 	

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Member-BSF

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Member-AR

Sl. No.	Parameters	Suggested Trial Procedure	Result Expected/Desired
1	User- For monitoring of ECG, SPO2, NIBP respiration and temperature		To check total utility of the equipment in terms of its veterinary specification, application modes, user friendly and portability, colour TFT LCD Screen Display, Non-Interference with Electro-Surgical Cautery and Defibrillator, in built applications, accessories backed by post sale support facilities all over in India.
2	Should be veterinary specific portable multiple parameters monitor for monitoring, diagnosis & operation	<ul style="list-style-type: none"> • Check physically for portability. 	
3	Should be handy and convenient with maximum weight of 2.5 kg for user even in extreme India field conditions working on rechargeable built – in battery.	<ul style="list-style-type: none"> • Check weight for physical measurement. 	
4	Should have minimum 10" color TFT LCD Screen with maximum- waveform display.	<ul style="list-style-type: none"> • Check size physically by measurement. • Check on screen display. 	
5	Should have facility of continuous data storage of minimum 3 days, with in-built printer.	<ul style="list-style-type: none"> • Check printer physically • Check manufacturer's certificate/user manual 	
6	Should have inbuilt non-interference feature against electro surgical device, electrical knife and defibrillator.	Check physically on live animal.	
7	Should have adjustable brightness function especially for user during nighttime	Check screen functions physically.	
8	Should have scope for software up-gradation.	Check manufacturer's certificate /user manual	
9	Should be supplied with data transmission cable, patient cable, equine and canine specific body clips/connectors, ECG gel.	Check standard set contents physically.	
10	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE U.L. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate.	
11	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation and on site technical training.	

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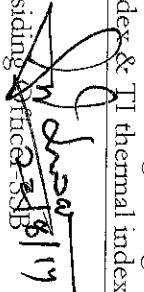
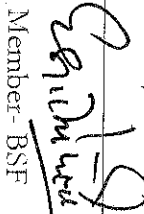
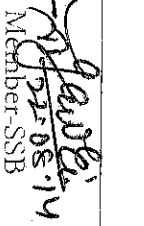
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Trial Directive for Portable Battery Operated Diagnostic Ultrasound Scanner

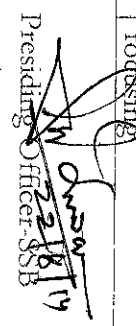
Sl.	Parameters	Suggested Trial Procedure	Result expected/Desired
1	User- This equipment is used in imaging, diagnosing and printing of general/abdominal/gynecology-obstetrics, small parts, superficial muscular-skeletal and fat measurement etc.	Check portability Check physically user on live animal	To check total utility of the equipment in terms of its veterinary specification, user friendly portability, usability Display High Resolution in colour on LDC Monitor, Accessories and securing backed by post sale support all over India.
2	Should be single man usable portable and lightweight exclusively for veterinary user on canine and equine	Check user manual Check presence on equipment physically.	
3	Should come with inbuilt color Doppler & pulse wave Doppler	Check scanning application physically.	
4	Should work on applications viz. general, abdominal, gynecology, obstetrics, small parts, superficial, musculoskeletal among others.	Check weight by physical measurement Check battery interchangeability and extractability physically.	
5	Should be easy to carry and weight should be between 3.0 kg to 3.5 kg including weight of inbuilt, interchangeable and user extractable battery.	Check operational manual.	
6	Should have battery back-up of minimum 5 working hours.	Check boot up time physically.	
7	Should be useful for immediate user, boot up time of maximum 20 seconds including inbuilt facility to restart without boot-up	Check by physical measurement.	
8	Should have minimum 7 TFT LCD monitor with VGA format Display size 640 x 480.	Check recording Check recording area size on screen.	
9	Should have inbuilt video recording facility with recording area size 640 x 480.	Check physically.	
10	Should have adjustable tilt with stereo sound via inbuilt facility with integrated loudspeaker.	Check physically on screen.	
11	Should have digital brightness adjustment, MI mechanical index & TI thermal index.		

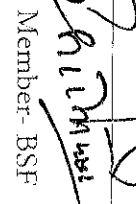
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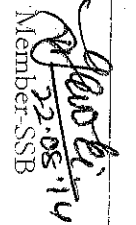
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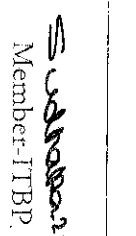

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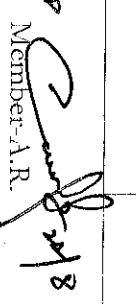
<p>12 Should have following multi-frequency probes with facility to interchange the probe without restarting the scanner to prevent any dynamic image loss:-</p> <ul style="list-style-type: none"> • Wideband convex probe of central frequency 3.5 MHz, B mode frequencies of 2.5 MHz, 3.5 MHz for applications on musculo- squeletteic, cardiac examination on equine, abdominal & small Parts on canine • Wideband linear probe with central frequency 7.5 MHz probe, B mode frequencies of 5.0 MHz, 7.5 & 10.0 MHz for applications on equine tendon diagnosis & canine Superficial parts. • Wideband linear rectal probe with central frequency 7.5 MHz, probe bandwidth of 5 MHz to 10 MHz, B code frequencies of 5.0 MHz, 7.5 MHz & 10.0 MHz for applications on obstetrics & gynecology. 	<p>Check individual probe bandwidth on screen</p>	
<p>13 Should have color Doppler and pulse wave Doppler as part of the standard configuration with color Doppler having velocity, color invert with on /off feature.</p>	<p>Check physically on screen</p>	
<p>14 Should have color Doppler with automatic CFM focus, adjustable and selectable area of interest, position, size of minimum 0-12- gain.</p>	<p>Check physically on screen</p>	
<p>15 Should have selectable and adjustable pulse wave gate position, gate size frequency & gain form 0-21.</p>	<p>Check physically on screen</p>	
<p>16 Should have adjustable baseline, adjustable audio, simplex mode and automatic measurements in pulse wave mode with user convertible presets & protocols.</p>	<p>Check physically on screen</p>	
<p>17 Should have input and output options on the scanner device itself for external screen display, thermal printer, DVI connection and USB port facility.</p>	<p>Check physically on equipments</p>	
<p>18 Should have processing via minimum 32 true emission channels with minimum 64 reception channels and multi-zone focusing.</p>	<p>Check physically on equipments</p>	

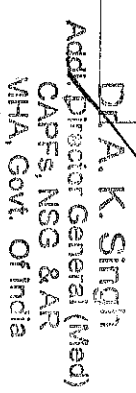

Presiding Officer-SSB


Member-BSF


Member-SSB


Member-ITBP


Member-A.R.


D/A. K. Singh
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19	Should have continues dynamic focusing in receive with FREE inbuilt ultrasound software upgrade (FPGA) for total warranty duration of the equipment.	Check manufacturer's certificate physically.	
20	Should have alphanumeric physical keyboard, touch-pad related keys for easy access to operation menus and audio adjustment.	Check physically on equipments	
21	Should have B, B+B, B+M & M operational modes with adjustable area region of interest, zoom and full screen zoom function and minimum 5 user selectable focus points for each focus.	Check physically on screen.	
22	Equipment should have cine loop, text & annotations, protocols, automatic and manual measurement and table.	Check physically on screen.	
23	Equipment should have storing facility for clips and images with facility to transfer to PC, laptop and DICOM feature supplied with minimum 32 GB USB stick.	Check computer connectivity.	
24	Equipment should have date entry setting for patient name, breed, species, body marks, image storage inl:jpeg & Bmp file formats, video clip storing format.	Check physically on screen	
25	Equipment should have individual user protocols, expert feature for images, clips, reports, patient files to review from USB, archiving of patient files and reports on USB.	Check physically on screen	
26	Equipment should be supplied in carry case with battery recharger, minimum 32 GN memory stick, minimum 5 liters ultrasound gel.	Check standard set contents physically.	
27	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/FEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate.	
28	Should be installed on site with complete user technical training and backed by onsite after sales service support all over India including CAPF and Paramilitary field units.	Ensure proper installation and on site technical training.	

[Signature]
President ITBP

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Member-BSF

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Member-ITBP

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Member-A.R.

DR A. K. Singh
Addl. Director General (Med)
CAPFs, NSG & AR
MHA, Govt. Of India

Contd...8...

Trial Directive for Therapeutic Veterinary Laser with Spot Diagnosis

Sl. No.	Parameters	Suggested Trial Procedure	Result Expected/Desired
1	User- Bowed tendons, accelerated tissue repair, acupuncture point finding device	Check laser power on screen physically Check user manual.	To check total utility in terms of Veterinary specification portability, user friendly, Multi-powers & Multi frequency Outputs, Multiple operation modes and safety against laser divergence.
2	Should be veterinary specific battery operated semi-conductor therapeutic laser 785nm/910nm	Check weight physically Check operation on live animal.	
3	Should be microprocessor control with automatic point-finder device weighing not more than 150 grams	Check power & pulse display on screen Check manufacturer's certificate.	
4	Should have minimum effective power of CW/20mW, 40mw & 60mW & multi-frequency 30m W and pulse duration of maximum 1ms.	Check on live animal	
5	Should have laser system using extended optical fiber for deep animal skin penetration.	Check on live animal Check display on screen Check manufacturer's certificate.	
6	Should have inbuilt acupuncture point finding device with automatic skin contact switch-on	Check on screen	
7	Should have power station, file laser power measurement, loading station, digital indicator and other freely selectable features.	Check operation on screen	
8	Should have single console operation for digital therapy display laser measurement, charging system and presenter.	Check manufacturer's certificate.	

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9	Should have X-direction radiation divergence of 8" to 20" and Y-direction radiation divergence of 20 to 25"	Check manufacturer's certificate.	
10	Should be 3B laser class with BF appliance classification and compatible to work in extreme Indian conditions on 230 V, 50-6-Hz power supply.	Check manufacturer's certificate.	
11	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, FMAS, CE UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate.	
12	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training	

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Trial Directive for Automatic Bio-Chemistry Analyzer

Sl. No.	Parameters	Suggested Trial procedure	Result Expected/Desired
1	Should be veterinary specific automatic biochemistry analyzer working on open system principle.	Check manufacturer's certificate physically	To check total utility in terms of veterinary specification, user friendly High Resolution with LCD display computer connectivity, comprehensive operation input systems all accessories backed by post sale support all over India.
2	Should have minimum 7 filters having wavelengths of 340, 405, 492, 510, 546, 578 and 630 nm.	Check physically on screen	
3	Should have test memory of minimum 100 programs.	Check manufacturer's certificate.	
4	Should have with facility to program parameters either beforehand or at current time as per need with automatic storage of scale parameters of the first detection.	Check parameters physically.	
5	Should have LCD/TFT display with user-friendly menu system and computer connectivity.	Check computer connectivity	
6	Should be capable le of completing comprehensive & statistical report, quality control for any item and provision for research and output function with data entry via key board and out put via laser printer.	Check display on screen	
7	Should have automatic storage and calculation of output control date, end-point, kinetic, 2-point, standard cure, conc & bi-chromatic detection.	Check equipments software features physically.	

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<p>8</p> <p>Should comply to following technical specifications:</p> <ul style="list-style-type: none"> • Wavelength Range 340nm 700nm • Measurement Range 0.001 3.000Abs • Precision + 0.001 Abs • Repeatability <0.005 Abs • Linearity <±1% • Cross Contamination <1% • Temperature Accuracy ±0.1° C • Test Temperature 25° C • Test Method End point, kinetic, 2 point, standard curve & single/double, wavelength exam. • Colorimetric Pool Titanium alloy • Reagents Open system • Display Absorbency, density, active unit, normal parameters 	<p>Check manufacturer's certificate.</p> <p>Check user manual.</p>	
<p>9</p> <p>Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL.</p> <p>All manufacturer's certification to be produced at the time of delivery / installation.</p>	<p>Check manufacturer's certificate physically.</p>	
<p>10</p> <p>Should be installed onsite with complete user technical training and backed by on site after sale service support all over India including CAPFs, and Paramilitary field units.</p>	<p>Check manufacturer's certificate physically.</p>	

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Trial Directive for Fully Automatic Veterinary Hematology Analyzer

Sr.#	Parameters	Suggested Trial Procedure	Result expected/Desired
1	Should be veterinary specific fully automatic hematology analyzer working on pen system principle.	Check manufacturer's certificate physically.	To check total utility of the equipments in terms of Veterinary specification, fully automatic operations, veterinary based software, screw transmission technology, in built capacity to save minimum 20,000 results, printing capacity, accessories backed by post sale service support all over in India.
2	Should perform quantitative analysis of blood cells for animals' i.e. red blood cells series and hemoglobin, platelet and leukocyte, in-vitro..	Check manufacturer's certificate physically on screen	
3	Should have analysis parameters on canine, equine, bovine, ovine and came line.	Check equipments software feature physically	
4	Should work on parameters of electrical impedance (E:I) used for quantitative measurement of the blood in minimum 19 parameters and 3 histograms.	Check equipments software feature physically	
5	Should use screw transmission technology having memory of minimum 20,000 test results.	Check display on screen	
6	Should have output via built-in thermal printer and RS232 joint, PS2 keyboard Interface, Printer Interface and USB	Check manufacturer's certificate Check user manual physically. Check equipments physically.	


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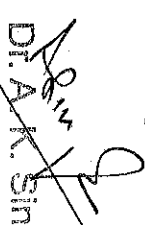
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<p>7</p> <p>Should comply to following technical specifications:</p> <ul style="list-style-type: none"> Parameters RBC,HGB, WBC, LY#, MO#GR#, LY% MO% GR%, MCV, MCH,MCHC,RDW, PLT,PCT, PDW. Linearity Range RBC 1.00~9.99x10¹²/L HGB 20g/L~200g/L WBC .5~99.0x10⁹/L PLT 50~999x10⁹/L Precision(CV) RBC ≤2.5% HGB ≤1.5% WBC ≤3.5% LY% ≤6% MO% ≤12% GR% ≤6% MCV ≤2% PLT ≤5% MPV ≤3% 	<p>Check manufacturer's certification physically for specifications.</p>	
<p>8</p> <ul style="list-style-type: none"> Dilution WBC/HGB 1:500 RBC/PLT 1:50000 Sample volume 20µl periphery whole blood 		
<p>9</p> <p>Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE UL. All manufacturer's certifications to be produced at the time of delivery/installation.</p>	<p>Check manufacturer's certificate</p>	
<p>10</p> <p>Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>	<p>Ensure proper installation Ensure onsite technical training.</p>	

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Trial Directive for Veterinary High Frequency Digital X-Ray Mobile Machine

Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be B.A.R.C (Bhabha Atomic Research Centre) certified for quality and safety assurance.	Check certificate	To check total utility of equipments in terms of veterinary specification, portability, mobility, user friendly, back up power supply, accuracy, global quality directives supported by post sale service backed up facilities all over India.
2.	Should be portable veterinary specific system for both large and small animal diagnosis combining portable X-Ray unit for outside examination with all characteristics, stationary column and mobile table of high range stationary system for user in Veterinary clinic and hospital.	Check portability, table, column, fixed and mobile user.	
3.	Should have 8kW Ultra-High Frequency Ripple 300KHz Inverter with 2-point radiographic technique operation mode viz. kV and mAs and inbuilt Animal Anatomical Programme or APR with minimum 20 memory positions.	Check equipments software features physically. Check display on screen	
4.	Should have kVp range in 1kVp steps from 40 to 115 with 20W super LED light source ensuring LOW thermal dissipation and minimum 1000 hours shelf life	Check equipments software features physically. Check display on screen	

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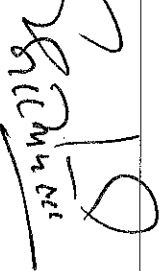
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<p>5. Should have very high accuracy of $\pm 5\%$ with minimum 14 mA stations viz. 5, 6, 4, 8, 10, 12, 5, 16, 20, 25, 32, 40, 50, 64, 80 and 100.</p>	<p>Check equipments software features physically.</p>	
<p>6. Should have inbuilt facility with automatic flexible exposure time ranging from 0.001 seconds to 10 seconds with 41 stations in 25% steps with capability to carry out unlimited amount of consecutive exposures.</p>	<p>Check equipments software features physically. Check display on screen</p>	
<p>7. Should have mA range 0.1 to 200mA with 34 stations in 25% steps with very high accuracy of $\pm 5\%$.</p>	<p>Check equipments software features physically.</p>	
<p>8. Should have X-Ray tube stationary anode with double focal spots of 0.6mm and 2.8mm and target angle of 12° with Red Laser Pointer and additional knob for remote switching of collimator LED light.</p>	<p>Check equipments software features physically. Check display on screen</p>	



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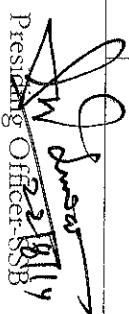

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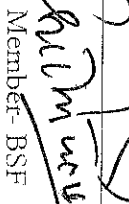

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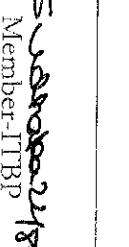

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9.	Should have anode heat storage capacity of minimum 76000 HU for user in different field and indoor environments	Check equipment software features Check red laser pointer physically Check display on screen	
10.	Should have wide line regulation of 90 to 285 volts requiring maximum 10 amps to operate for user in different environment with inbuilt single phase line automatic regulation including automatic output power adaption to power line conditions.	Check manufacturer's certificate.	
11.	Should weigh between 10Kg to 15kg for weight of standalone X-Ray equipment.	Check manufacturer's certificate	
12	Should be supplied with portable and very light weight data presenter, analyzer and recorder which should be battery operated with minimum 5 hour battery life with veterinary image editing feature and onboard LAN, Wi-Fi transmission, USB and facility to connect to external monitor.	Check equipments software features Check user manual. Check parameter physically.	
13.	Should be fully connectable to Small Animal X Ray table of the same manufacturer's and make via total tool free and quick assembly and disassembly.	Check table manufacturer's assembly procedure.	
14.	Should have Small Animal X Ray table fitted with brake enabled rugged wheels and grid cabinet table top with indication marks of different standard cassette sizes.	Check physically.	
15.	Should be supplied with portable, rugged and wheel fitted transportation and storage case with internal padding and cushioning.	Check equipments physically for smooth movement.	
16.	Should have portable digital imaging flat panel detector weighing between 3kg to 4kg supplied with the X ray equipment connectable to military grade PC/Laptop with touch screen control.	Check standard set contents physically.	



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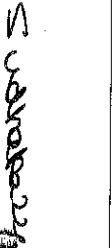


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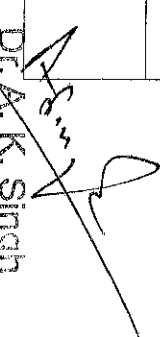
<p>17. Should have digital imaging flat panel detector with amorphous silicon type TFT, CSL-TT X Ray convertor with following specifications:-</p> <ul style="list-style-type: none"> • Pixel Pitch 0.127mm • Active Pixel Array 2080/2560 pixels • A/D 14 bits • Dynamic Range >73 dB • Energy Range 40kV - 120kV • Image Lag < 0.03% (after 10 seconds) • Preview Time ~ 4 seconds • Data Output Ethernet 100 Mbps 	<p>Check measure and weight physically.</p>	
<p>18. Should have dedicated Veterinary Anatomically Programmed Radiography (APR) software pre-installed with detailed diagnosis assistance for large and small animal species especially Dog and Horse for X Ray in all medical conditions and ailments working on the touch screen interface of the PC/Laptop.</p>	<p>Check equipments software feature physically.</p>	
<p>19. Should have built in interface panel for work in extreme conditions with PACS system supplied in soft cover carrying case with interface panel cover.</p>	<p>Check equipments software feature physically display on screen.</p>	


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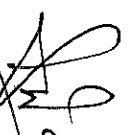
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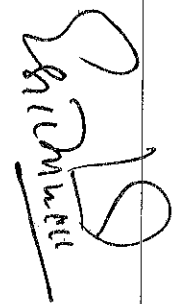
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<p>20</p>	<p>Should have military grade PC/Laptop with touch screen control for digital data acquisition with following specifications:-</p> <ul style="list-style-type: none"> • Make of Reputable manufacturer's viz. Dell, HP, Toshiba or any other or reputed and international standing. • Motherboard Intel Core 2 Duo P8700, 2.53GHZ, 1066MHz 3M L2 Cache, Dual Core 2GB, DDR2-800 SD RAM, 2 DIMM for Latitude OR better. • Internal Keyboard, English, and Backlit • Storage Capacity of 128GB (or more) Encrypted mobility solid state HDD • Display on 14.1" (or more) wide screen WXGA rugged touch screen LCD • WINDOWS Operating system with Data backup feature pre installed. • Connectivity with Internal MDC modem, Roxio creator for media, WLAN 1397 1/2 mini card, resource DVD with diagnostics and drivers for PC/Laptop. • Microsoft Office software pre-installed with facility to work on .JPEG, .BMP, .PNG, .PDF file formats. 	<p>Check laptop for manufacturer's specifications physically and display on screen.</p>	
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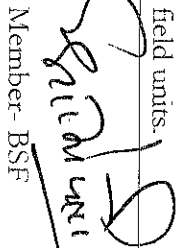

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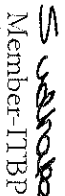
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21	Equipment should be supplied with portable, rugged and wheel fitted transportation and storage case with internal padding and cushioning.	Check physically Check equipment physically for smooth movement
22	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, ENAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate
23	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.


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 R. Prasad
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 S. Varadachari
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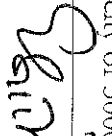

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Trial Directive for Equine Weighing Scale

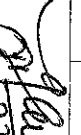
Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be sturdy, hardy, accurate and heavy duty equine weighing scale	Check physically	To check total utility of equipments in terms its sturdiness, all weather friendly, accuracy, memory function, accessories supported by post sale service backed up all over in India.
2.	Should be usable in Indian weather conditions and terrain all weathers and terrain with walk-on/walk-off platform made from aluminum and stainless steel.	Check manufacturer's certificate Check physically.	
3.	Should have robust aluminum construction with anti-skid rubber flooring for durability and safety and acoustic absorption.	Check manufacturer's certificate Check physically.	
4.	Should have horse standing area not less than 214cm(L) x 98cm(W) x 11 cms (H).	Check by physically measurement	
5.	Should be able to record and display weight accurately within 3 seconds without compulsion of horse to stand still during weighing process.	Check physically with live animal.	
6.	Should have maximum deviation of $\pm 1\%$ with inbuilt horse weight averaging software.	Check equipments software features.	
7.	Should display weight in KG with lowest weight increment of 100gms on weighing capacity of 1500kg, overload capacity of 3000kg	Check equipments software features.	


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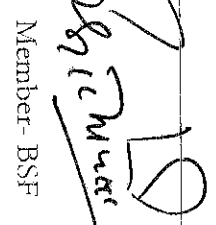

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8.	Should never require recalibration	Check manufacturer's certificate
9.	Should have memory facility function with 5 digits, backlit LED display with handheld/wall mounted display and read-out unit with rechargeable battery having capacity to weigh minimum 500 horses on full charge having battery life more than 15 hours.	Check equipments software features. Check manufacturer's certificate physically.
10.	Should be able to work accurately in temperatures from -10°C to +50°C, remain 100% water-proof and sand proof.	Check physically Check user manual.

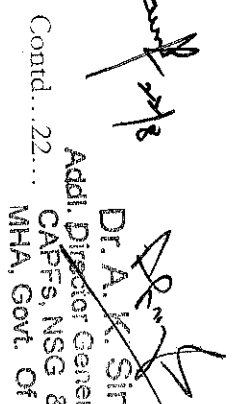

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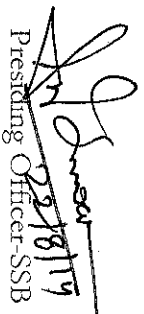

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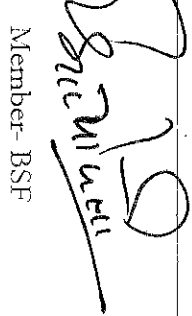

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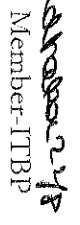
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<p>11. Should be transportable via transporting trolley not require any special storage conditions.</p>	<p>Check manufacturer's certificate</p>	
<p>12. Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.</p>	<p>Check manufacturer's certificate</p>	
<p>13. Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>	<p>Ensure proper installation Ensure on site technical training.</p>	

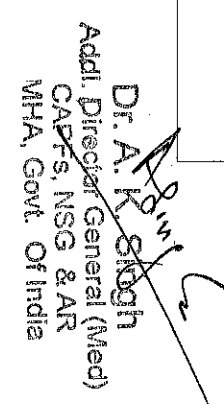

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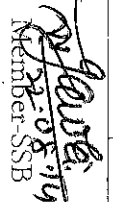
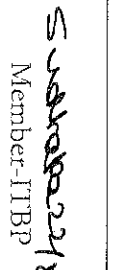

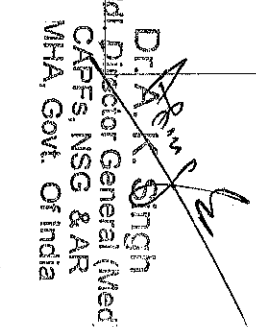

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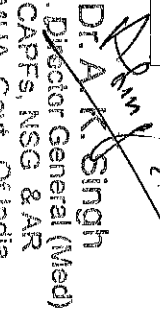

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Trial Directive for Horse Tooth Rasp

Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be ergonomically designed horse tooth rasping model weighing not more than 750gms	Check weight by physical measurement	To check total utility of
2.	Should have minimum 30mm disk diameter with 360° rotating head workable in 4 positions with simple twist system using pull and turn of the head to position the disk in required position.	Check physically, Check manufacturer's certificate Check user manual	equipments in terms of equine specification, rotating head, cordless
3.	Should be battery operated and cordless with rechargeable battery backup of 8 hours.	Check batter back-up physically Check manufacturer's certificate	operations, portability, user friendly, power backed up, sturdiness and
4.	Should have adjustable RPM between 2500 to 5000 with minimum 20" long curved stainless steel shaft with rubber handle.	Check RPM, length, shaft, curve & rubber physically. Check user manual	securing of the equipments. Skip
5.	Should have following different types of non heating diamond grinding and rasping disks each capable of performing approximately 400-500 rasping:- • Maxillary of minimum length 25cm and minimum diameter 15mm • Mandibular of minimum length 25cm and minimum diameter 20mm • Vestibular of minimum length 25cm and minimum diameter 15mm • Angle of minimum length 15cm and minimum diameter 15mm • Bowl of minimum length 15cm and minimum diameter 20mm • Disk of minimum length 15cm and minimum diameter 50mm with minimum disk thickness of 1mm • Bit seat of minimum length 15cm and minimum diameter 15mm	Check by physical measurement Check manufacturer's certificate Check user manual	


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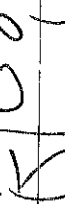
6.	Should have minimal maintenance with water resistant head capable of cleaning with water.	Check physically, Check manufacturer's certificate Check user manual.	
7.	Should have Ground Fault Circuit Interrupter for equipment protection during usage on DC.	Check user with DC physically Check manufacturer's certificate	
8.	Should be supplied in a sturdy and convenient transport and carry case.	Check standard set contents physically.	
9.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate.	
10.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.	


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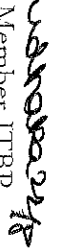
Trial Directive for UrineChemistryAnalyzer

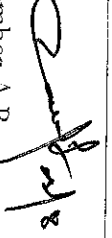
Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should have a facility to read minimum 11 Parameters Strip via Multiple Strip Reader and Analyzer.	Check physically, Check manufacturer's certificate Check user manual.	To check total utility of equipment in terms minimum strip reading features, in built cold light source, computer connectivity, memory storage, multiple equipment interfacing, bar code reader and post sale service support all over in India.
2.	Should have minimum output of 500 strips/hour via inbuilt cold light source.	Check physically, Check manufacturer's certificate Check user manual.	
3.	Should have option to read Micro Albumin as one of the parameter.	Check software. Check parameters Check user manual.	
4.	Should have 4 different wavelengths of 525nm, 572nm, 610nm & 660nm.	Check on screen display.	
5.	Should have inbuilt RS 232 port, computer connectivity with storage of minimum 2000 Patient Data, Multiple Equipment Interfacing with inbuilt facility to connect urine sediment analyzer and Barcode Reader.	Check physically on equipments Check on Screen display Check manufacturer's certificate	
6.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EBC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
7.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure onsite technical training.	



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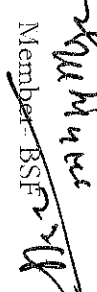




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Trial Directive for RapidDiseaseDiagnosisKitforCanineParvo, DistemperandHepatitis


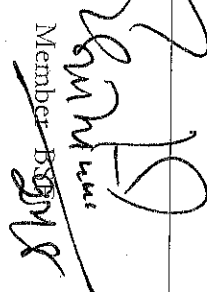
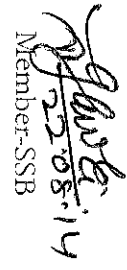


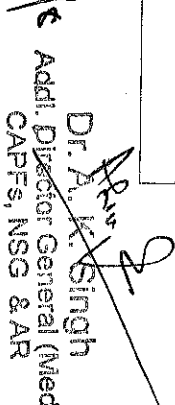
Sl. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be portable, simple to user with tests performed by veterinarian and laboratory technician under field conditions.	Check portability.	To check total utility of kit in terms of canine specification,
2.	Should provide ELISA based quantitative accurate results within 20-25 minutes.	Check manufacturer's certificate Check on live animal	simple to use, portable, able to provide accurate results of Canine Parvo, Distemper, Hepatitis, and
3.	Should have ability to individually test per dog with no compulsion of running a minimum batch of tests.	Check manufacturer's certificate Check on live animal	check for disease diagnosis kit backed by post sale support facilities all over India.
4.	Should provide accurate test results for multiple diseases viz. Canine Parvo, Distemper and Hepatitis Virus all in a single test.	Check manufacturer's certificate Check on live animal	
5.	Should be equipment free with no equipment needed to be attached while making tests or to generate results.	Check physically	
6.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, ENAS, CE, UI. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
7.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.	


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Trial Directive for RapidDiseaseDiagnosisKitforCanineEhrlichia

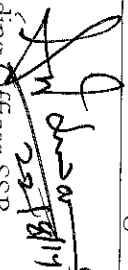

Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be portable, simple to user with tests performed by veterinarian and laboratory technician under field conditions.	Check portability.	To check total utility of kit in terms of canine specification,
2.	Should provide ELISA based quantitative accurate results within 20-25 minutes.	Check manufacturer's certificate	simple to user,
3.	Should have ability to individually test per dog with no compulsion of running a minimum batch of tests.	Check on live animal	portable, able to provide accurate results of canine Ehrlichiosis, check for disease diagnosis kit backed by post sale support facilities all over India.
4.	Should be equipment free with no equipment needed to be attached while making tests or to generate results.	Check manufacturer's certificate	
5.	Should be backed by manufacturer's certifications complying CE, Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, ENAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check on live animal	
6.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Check physically	

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Trial Directive for RapidDiseaseDiagnosisKitforCanineBrucella


Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be portable, simple to user with tests performed by veterinarian and laboratory technician under field conditions.	Check portability.	To check total utility of kit in terms of canine specification, simple to user, portable, able to provide accurate results of canine Brucellosis, check for disease diagnosis kit backed by post sale support facilities al over India.
2.	Should provide ELISA based quantitative accurate results within 20-25 minutes.	Check manufacturer's certificate Check on live animal	
3.	Should have ability to individually test per dog with no compulsion of running a minimum batch of tests.	Check manufacturer's certificate Check on live animal	
4.	Should be equipment free with no equipment needed to be attached while making tests or to generate results.	Check physically	
5.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
6.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.	


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Trial Directive for RapidDiseaseDiagnosisKitforCanineLeptospirosis

Sr. #	Parameters	Suggested Trial Procedure	Result expected/Desired
1.	Should be portable, simple to user with tests performed by veterinarian and laboratory technician under field conditions.	Check portability.	To check total utility of kit in terms of canine specification, simple to user, portable, able to provide accurate results of canine Brucellosis,, check for disease diagnosis kit backed by post sale support facilities al over India,
2.	Should provide ELISA based quantitative accurate results within 20-25 minutes.	Check manufacturer's certificate Check on live animal	
3.	Should have ability to individually test per dog with no compulsion of running a minimum batch of tests.	Check manufacturer's certificate Check on live animal	
4.	Should be equipment free with no equipment needed to be attached while making tests or to generate results.	Check physically	
5.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
6.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units	Ensure proper installation Ensure on site technical training.	


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Trial Directive for Equine Ultrasonic Nebulizer

Sl. #	Parameters	Suggested Trial Procedure	Result expected/desired
1.	Should be portable equine ultrasonic nebulizer with rechargeable battery operation.	Check portability Check power sources.	To check total utility in terms of its utility for equine with equine inhalation mask, should weight less than 250 gms with rechargeable battery securing of the equipments and post sale service support facilities all over India.
2.	Should have veterinary nebulization unit with equine mask all in one equipment for direct placement and administration on the horse for cordless operation and user.	Check physically on live animal	
3.	Should have basic ultrasonic nebulizer weighing less than 250grams working on rechargeable battery supply with II-B electrical protection class.	Check weight by physical measurement	
4.	Should have ultrasonic frequency of 120kHz with nebulization output from 0.35 through 0.70 ml/min.	Check powers sources. Check manufacturer's certificate	
5.	Should have nebulization unit weighing less than 100grams with minimum nebulization unit capacity of 10ml.	Check weight by physical measurement	
6.	Should have horse inhalation mask weighing between 500-600 grams made from all weather material safe for horses.	Check weight by physical measurement	
7.	Should have aerosol ambient temperature of 15°C through 35°C with aerosol relative humidity of 30% through 95%.	Check manufacturer's certificate	
8.	Should have ambient aerosol medication storage temperature with no need to store in all field conditions.	Check weight by physical measurement	

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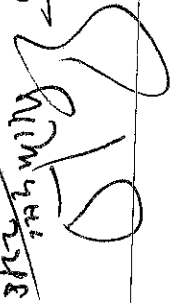




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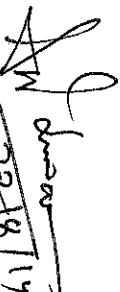

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<p>9. Should have ultrasonic nebulizer storage temperature from - 20°C through +60°C for user in tropical and extreme temperature and relative humidity of 15% through 95%.</p>	<p>Check manufacturer's certificate</p>	
<p>10. Should be supplied in safe and sturdy transportation and carry case.</p>	<p>Check standard set contents physical</p>	
<p>11. Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EBC, ISO 13485, ISO 14001, ISO 9001, ENAS, CE, U.I. All manufacturer's certifications to be produced at the time of delivery/installation.</p>	<p>Check manufacturer's certificate</p>	
<p>12. Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>	<p>Ensure proper installation Ensure on site technical training.</p>	

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Trial Directive for Equinelow-HighSpeedFloorMountedTreadmill

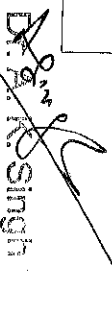
Sr. #	Parameters	Suggested Trail Procedure	Result excepted/desired
1.	Should be floor mounted equine high speed treadmill completely computerized system working fully via computer from start to stop with maximum running speed of 65KNMPH.	Check physically Check on screen	To check total utility of equipments in terms of its utility for equine computable with computer with maximum reading speed of 65 KNMph, supported by front and back RAM and safety rails and special cushion and posts sale service support facilities all over in India.
2.	Should be supported by front and back ramp of length 1.5 meter each and safety rails of minimum 3' in height fitted with special	Check by physical measurement	
3.	Should have horse running surface of 1.1 meter x 4.1 meter with anti skid rubber top, suspension to absorb hoof shock load, minimum cushioning of 3', very low friction & special arrangement to keep it to room temperature.	Check by physical measurement	
4.	Should be fitted with 3 phase, 40HP motor using transmission through gearbox and chain sprocket.	Check by physical measurement Check manufacturer's certificate	
5.	Should have 0° to 10° tilt supported by hydraulic system and operated through console.	Check by physical measurement Check manufacturer's certificate	
6.	Should have control system with variable port for staple speed variation, special frequency drive, 4 point emergency stop, back and front over shoot protection sensor for running horse, auto stop for final parameter running, starter, fusers, switches and earth grounding system.	Check by physical measurement Check manufacturer's certificate	


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7.	Should have computerized display for distance, time, speed, tilt, heart rate, and TPR, horse history, special program to store into Memory.	Check computer connectivity Check software features.	
8.	Should be fitted with horse heart rate monitoring unit completely connectable to PC/Laptop for data transmission into the computer.	Check heart rate monitor physical	
9.	Should have salient features viz. shock absorbing and straight running surface, automatic wind blower via 1 meter industrial fan, dung guide on belt, programmable logical controller for all parameters displayed on laptop with laser jet printer, 8 GB Ram & 1000GB HDD, separate program to store history of horse and exercise details.	Check physically Check manufacturer's certificate Check user manual.	
10.	Should have features for horse safety and running viz. longer width and length for safety of horse, suspension and friction less running offering actual job training to horses, superior quality belt of dual surface and all tie accessible emergency stop.	Check physically Check manufacturer's certificate Check user manual.	
11.	Should have conveyer belt made of high-density rubber, anti skid, 3 ply and minimum thickness 12mm.	Check physically Check manufacturer's certificate Check user manual.	
12.	Should be complete with full civil work including construction of concrete plinth area with 40' x 20'.	Check physically Check manufacturer's certificate Check user manual.	

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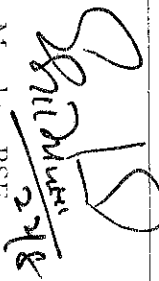
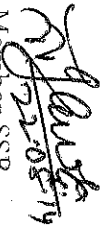
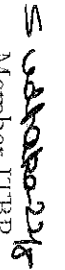


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<p>13. Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.</p>	<p>Check manufacturer's certificate</p>	
<p>14. Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>	<p>Ensure proper installation Ensure on site technical training</p>	

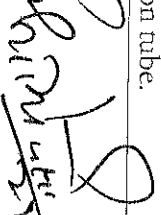
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Trial Directive for Flexible Endoscope for Canine User


Sr. #	Parameters	Suggested Trail Procedure	Result expected/ desired
1.	Should be flexible and soft fiber-optic endoscope for multiple utilities in canine diagnosis and procedures.	Check manufacturer's certificate	To check total utility of the equipments in terms of its utility fore canine species, coupled with video camera having endoscopic image display and digital zooming facilities supplied in sock proof carrying case and post sale service support facilities all over in India.
2.	Should be capable of gastrointestinal examination, fiberoptic doudenascopy, rectoscopy & easophagoscropy with fiberscopeworking length 150cm and insertion diameter of 7.9mm.	Check by physical measurement Check manufacturer's certificate	
3.	Should have 4 way tip articulation of 210° UP, 90° DOWN, 100° LEFT & 100° LEFT with field view ≥ 100°.	Check by physical measurement Check manufacturer's certificate	
4.	Should be coupled with a video camera connectable to portable endoscopy system.	Check physically Check connectivity	
5.	Should have portable endoscopy system with SVGA TFT screen of minimum 12" for viewing endoscopic images.	Check by physical measurement Check manufacturer's certificate	
6.	Should have TFT screen allowing clear view horizontally (1400) or vertically (1100).	Check physically Check manufacturer's certificate	
7.	Should have endoscopic image display on portable endoscopy system with swivel mounted camera control unit working by turning knob at camera head with snap system for the camera head to be attached to any and all types of rigid and flexible endoscopes.	Check physically Check manufacturer's certificate	
8.	Should have endoscopic camera control unit attachable to adapter of a microscope observation tube.	Check physically Check manufacturer's certificate	


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<p>9. Should have S-VHS endoscopic camera system with 1/3" CCD sensor, minimum resolution of 752 lines with PAL & NTSC systems.</p>	<p>Check manufacturer's certificate</p>	
<p>10. Should have multiple input and output facilities i.e. separate compact keyboard, operation by remote control, panel & foot switch, freeze frame control, provision to attach directly to a video printer, video recorder, second monitor, PC, TCP/IP network, LAN system, S-VHS video in and S-VHS video out.</p>	<p>Check physically on equipments Check manufacturer's certificate</p>	
<p>11. Should have endoscopic camera with rapid focusing device at the camera head including video adapter and camera system fully soak able in disinfectants liquid.</p>	<p>Check physically on equipments</p>	
<p>12. Should have endoscopic camera with automatic brightness, color balancing, digital zoom, menu guided user interface with on screen explanation.</p>	<p>Check physically on equipments Check display on screen.</p>	
<p>13. Should have minimum 32GB memory stick at the front panel for the storage of minimum 10000 digital images with 180W XENON light source, 1 horizontal light outlet providing continuously adjustable light intensity.</p>	<p>Check physically on equipments Check manufacturer's certificate</p>	
<p>14. Should be supplied in special shockproof case for canine fiberoptic endoscope and portable endoscopy system.</p>	<p>Check standard set of contents of portable endoscopy system.</p>	
<p>15. Should be supplied as complete set containing 2.0mm biopsy channel, air and water channels, standard fenestrated biopsy forceps, channel cleaning brush, all channel irrigator with 50cc syringe, water bottle for water irrigation, silicone oil, carrying case and LED light source with pump.</p>	<p>Check standard set of content of flexible endoscope for canine user.</p>	

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<p>16. Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.</p>	<p>Check manufacturer's certificate</p>	
<p>17. Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>	<p>Ensure proper installation Ensure on site technical training.</p>	

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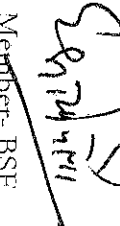
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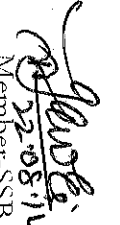
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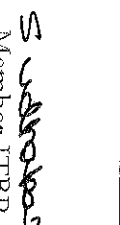
Trial Directive Veterinary/PeriodontalInstrumentKit

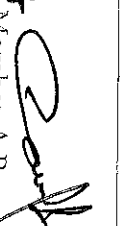
Sr. #	Parameters	Suggested Trial Procedure	Result Expected/Desired
1.	<p>Should be following contents in the standard set exclusively for veterinary Periodontal user:-</p> <ol style="list-style-type: none"> a. Mirror Handle, single-ended, cone-socket b. Cone Socket Front Surface Mirror # 3 c. Cone Socket Front Surface Mirror # 4 d. 18 mm Explorer Probe, Double ended e. Jaquette J33/1YS Scalar f. Morse 0-00 Scalar g. Columbia 13/14 Universal Curette h. Barnhart 1/2 Universal Curette i. Sharpening Test Sticks, Clear j. Conical Arkansas Sharpening Stone k. Flat Arkansas Sharpening Stone l. Sterilization & Storage Cassette. 	<p>Check standard set contents.</p>	<p>To check total utility of equipments in terms of veterinary specification, inclusive of all accessories with securing case, manufacturing holding, council directive certificate with post sale service support facilities all over in India.</p>
2.	<p>Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.</p>		
3.	<p>Should be backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>		

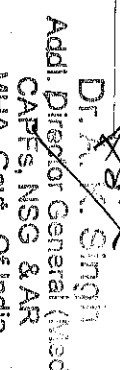

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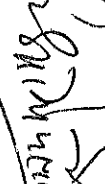

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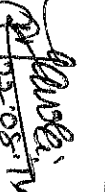

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Trial Directive Veterinary General Surgery Kit

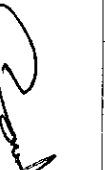
Sr. #	Parameter	Suggested Trial Procedure	Result expected/desired
1.	<p>Should be following contents in the standard set exclusively for veterinary general surgery user:-</p> <ol style="list-style-type: none"> a. Straight Mayo Scissors 3/4" b. Scalpel Handle # 3 c. Snook Ovariectomy Hook d. Mosquito Hemostat Forceps 5" Curved e. Kelly Hemostat 5 1/2" Straight f. Metzenbaum Scissors 7" Curved g. Brown-Adson Forceps 4 3/4" 7x7 Teeth h. Rochester-Carmalt Forceps 6 1/4" Curved i. Backhaus Towel Clamps 5 1/4" j. Olsen-Hegar Needle Holder 5 1/2" k. Sterilization/Storage Cassette 	<p>Check standard set contents.</p>	<p>To check total utility of the surgical kit in terms of Veterinary specification inclusive of all accessories having manufacturer's holding council certificate, securing case with post sale service support all over in India.</p>
2.	<p>Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.</p>		
3.	<p>Should be backed by onsite after sale service support all over India including CAPF and paramilitary field units.</p>		

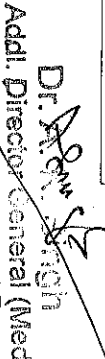

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Trial Directive Veterinary Orthopedic Surgery Kit

Sr. #	Parameters	Suggested Trial Procedure	Result expected/desired
1.	<p>Should be following contents in the standard set exclusively for veterinary Orthopedic Surgery user:-</p> <ul style="list-style-type: none"> a. Suture Wire, 20 Gauge b. Suture Wire, 30 Gauge c. Wire Cutter d. Senn Retractor, Sharp e. Senn Retractor, Blunt f. Weitlaner Retractor g. Freer Elevator h. Bone Curette i. Mallet j. Bone File k. Wire Twister l. Gigli Handles m. Gigli Saw n. Kern Bone Holding Forceps, Long o. Kern Bone Holding Forceps, Small p. Pin Cutter q. Bone Cutting Forceps r. Osteotome s. Sterilization/Storage Cassette 	<p>Check standard set contents</p>	<p>To check total utility of the orthopedic surgery kit in terms of Veterinary specification of manufacturer's holding council directive certificate, with post sale service support facilities all over in India.</p>

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2.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.		
3.	Should be backed by onsite after sale service support all over India including CAPF and paramilitary field units.		

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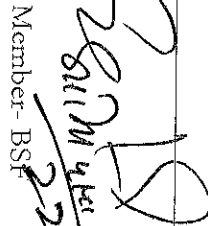
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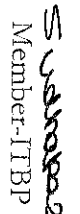
Trial Directive CanineEmergencyCarrierandStretcher

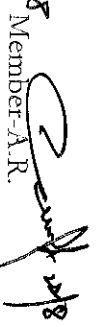
Sr. #	Parameters	Suggested Trial Procedure	Result expected/ desired
1.	Should be a complete immobilization device working as orthopedic stretcher and full backboard.	Check physically on live animal	To check total utility of the carrier and stretcher in terms of canine specification, with auto-lock latch system, concave patient surface, head support, foam feeling, X-ray compatible and post sale service support facilities all over in India.
2.	Should have simple to use auto-lock latch system recessed side latch positioned away from the dog's body that locks instantly during application, manual release required during removal from patient.	Check physically on live animal	
3.	Should have concave patient surface to provide lateral support, improve dog's sense of security and minimize movement of patient's spine during lifting and transport.	Check physically on live animal	
4.	Should work like a Traditional Backboard so that dog can be rotated and slid out onto the stretcher during auto extrication situation with complete seat belt type strap set included on the stretcher body.	Check physically on live animal	
5.	Should be able to separate in half for application with facility to separate at either end to eliminate unnecessary movement especially in cases of hip injuries.	Check physically	
6.	Should offer continuous head support surface and improve neutral alignment and minimize head movement during application and Removal.	Check physically on live animal	

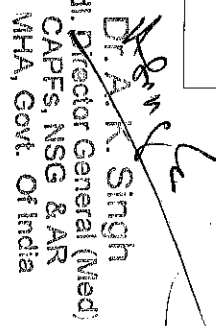

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7.	Should have seamless, very sturdy and break resistant construction with high density polyethylene with no rivets, drive screws or roll pins at any place on the stretcher and should be easily cleaned and disinfected.	Check physically Check manufacturer's certificate	
8.	Should have foam filling to make it ideal for water rescue situations.	Check physically Check manufacturer's	
9.	Should be X ray compatible with clear center section to provide unobstructed A/P view of dog's spine and split-design to allow for simple, easy removal and reapplication for detailed X ray examination if necessary.	Check physically Check manufacturer's certificate	
10.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EBC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
11.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.	

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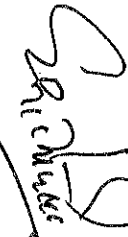
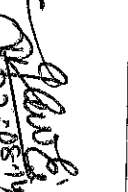


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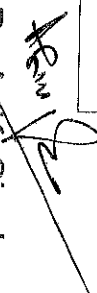
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Trail Directive for Equine Hydraulic Surgery & Examination Table


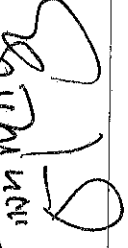
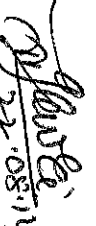



Sr. #	Parameters	Suggested Trail Procedure	Result expected/desired
1.	Should be custom-made Stainless Steel equine surgical and examination table crafted from durable, noncorrosive stainless steel to comfortably accommodate minimum 1250KG of weight.	Check physically Check manufacturer's certificate	To check total utility of the equipments in terms of its utility for equine specifically, made up of non-corrosive stain less steel with four heavy duty swivel casters and brakes, hydraulic system consisting of four lifting cylinders and 7.5 liter hydraulic tank powered by 1.5 hp motor operating on 220 V electrical current, all accessories backed by post sale service support facilities all over in India.
2.	Should have 4 heavy duty swivel casters with brakes removable for cleaning by pulling pins and sliding for making the table light, maneuverable and easily positioned by one person.	Check physically Check manufacturer's certificate	
3.	Should have main frame of 4.10"(W) & 7"(L) equipped with three removable dorsal props on both sides.	Check physically Check manufacturer's certificate	
4.	Should have hydraulic system consists of 4 lifting cylinders and 7.5 liter hydraulic tank powered by a 1.5HP motor operating on 220V electrical current.	Check physically Check manufacturer's certificate	
5.	Should have hydraulic system with easy access panel completely enclosed in waterproof casing and hydraulic lines made of complete Stainless Steel.	Check physically Check manufacturer's certificate	
6.	Should be easily cleanable and disinfected with stainless steel body wiped by hand or can be pressure-washed for thorough cleaning.	Check physically	

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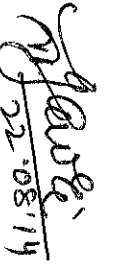
7.	Should have several drain holes throughout the table to ensure no water pools on any surface with the table motor completely enclosed in watertight casing and corrosion-resistant receptacles and switches.	Check physically	
8.	Should have 6° tilt capacity via manipulation of the self contained hydraulic system.	Check physically Check manufacturer's certificate	
9.	Should have center bed of table top of minimum 3'(W) x 7'(L) with very high grade padding of minimum 2" thickness.	Check physically Check manufacturer's	
10.	Should have maximum height of 37.5" and minimum height of 23" (without the wheels) or 26" (with the wheels) and anti-corrosion coating on the entire surface of the table.	Check physically Check manufacturer's certificate	
11.	Should have removable parts with push-button style pins with lanyards to ensure safety of pins and removable corner hinged wings of size 1' (W) x 3' (L) hinged on rod bar slide-able against center wing and to provide full 7 supports.	Check physically	
12.	Should have all wings with minimum 5 different tilt positions via manual prop bar with center hinged wings 1' (W) x 3' (L).	Check physically Check manufacturer's	
13.	Should have headrest options flat or V-Shaped removable and adjustable to varying angles and the headrest should have provision of placement on either end of the table giving the surgeon complete flexibility of operation &/OR examination.	Check physically	
14.	Should have flat lateral extensions for support of the legs that can be placed on either side of table in lateral recumbent surgery along with leg brackets to support the limbs during orthopedic or arthroscopic surgery.	Check physically Check manufacturer's certificate	


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15.	Should be supplied with following accessories:- a. V shaped or flat adjustable head extension with removable sides which can be removed and fixed to the either end of the table through push button style pins with lanyards b. Adjustable Stainless steel intestinal tray c. Free standing base for stainless steel intestinal tray d. Pair of Dorsal Arthroscopic Leg Brackets e. Pair of 18" x 30" Long Lateral Flat Extensions f. I.V. Bag Pole with 4 Hooks and Adjustable Height g. 3 #s, Removable Dorsal Padded Props h. Intestinal Retractor i. D/L extension storage cart.		
17.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation. Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.		

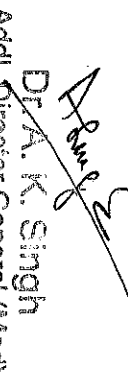

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Trial Directive Electrolyte&BloodGas Analyzer

Sr. #	Parameters	Suggested Trial Procedure	Result excepted/desired
1.	Should be rechargeable battery operated hand held dedicated veterinary electrolyte & blood gas analyzer weighing not more than 500 grams for ease in carrying to various field locations.	Check physically for operation Check weight by measurement.	To check total utility of the equipment in terms of veterinary specification, not weighing more than 500
2.	Should give accurate blood gas, electrolyte and critical care biochemistry results in maximum 30 seconds with minimum 0.1ml sample volume to eliminating problems of overflowing.	Check physically for operation	gms, cartridge storage at room temperature, portable, supplied with code smart cards for error free identification facility for storing minimum 2000 results option to run via direct current, option for connection via PC/laptop, various accessories user guide carrying case backed by post sale service support facilities all over in India.
3.	Should have cartridges storage at room temperature and integrated calibration and quality checks built in the equipment to give complete accuracy of minimum 50 tests in one battery discharge duration.	Check physically Check manufacturer's certificate	
4.	Should be ready to user anytime, anywhere in field or animal clinic/hospital and the equipment.	Check feasibility	
5.	Should have interface to any animal electronic data manager & blue tooth printer with no requirement of regular software updates.	Check manufacturer's certificate	
6.	Should have identification and storage facility of minimum 2000 patient results stored on analyzer with ability to input all patient data, temperature and even ventilator settings.	Check manufacturer's certificate	
7.	Should have option to run via DC with facility of error free functioning even on low input current and feature of recharging the battery during user of the equipment.	Check power source operation	
9.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
9.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.	

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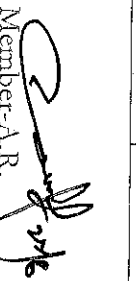
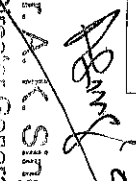
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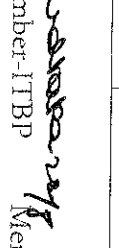
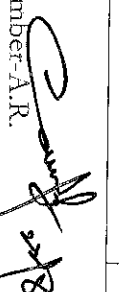
Trial Directive for Glucose and Blood Sugar Monitor

Sr. #	Parameters	Suggested Trial Procedure	Result expected/desired
1.	Should be hand held dedicated veterinary glucose and blood sugar monitoring system with inbuilt biosensor and automatic coding for result accuracy.	Check physically for operation Check manufacturer's certificate	To check total utility of the equipments in terms of veterinary specification options for connection via PC/Laptop, accessories, user guide, carry case backed by post sale service support all over in India.
2.	Should display results in maximum 10 seconds with sample size of maximum 1.5ul with hypoglycemic and hyperglycemic indicator alarms.	Check physically on live animal	
3.	Should have feature of reminder alarms with clear display for readings, date and time and facility to store minimum 300 results.	Check physically on screen	
4.	Should have option of connection via PC/Laptop with standard delivery set including veterinary glucose and blood sugar monitoring system, test strips, control, user guide, carry case, canine code chip, lancet and lancet tips.	Check computer connectivity	
5.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EBC, ISO 13485, ISO14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate	
6.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training	

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Trial Directive Canine Incubator

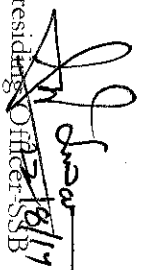
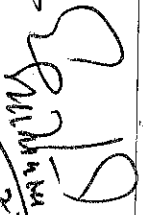

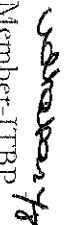

Sr. #	Parameters	Suggested Trial Procedure	Result expected /desired
1.	Should be canine incubation system with facility of micro adjustable temperature control changeable in increments of 1/10 of 1°C.	Check physically and manufacturer's certificate	To check total utility of the equipment in terms of canine species with micro adjustable temperature control, high and low temperature alarms, in built oxygen set-up with oxygen concentrator, digital read out controller, user guide, carry case backed by post sale service support all over in India.
2.	Should have high and low temperature alarms with pass code protection for preventing settings to be accidentally changed.	Check physically and manufacturer's certificate	
3.	Should be able to accommodate working pups with minimum dimensions of 32"(W) x 16"(F) x 18"(H) with incubator with inbuilt oxygen set up with oxygen concentrator, tubings and fittings for puppy user.	Check physically on live pups	
4.	Should have incubator fitted with a fan and digital readout controller with controls for temperature via inbuilt electronic humidity control system and adjustable water tray.	Check physically and display on screen	
5.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, EMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery / installation.	Check manufacturer's certificate	
6.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical training.	


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Trial Directive for Programmable Canine Motorized Treadmill

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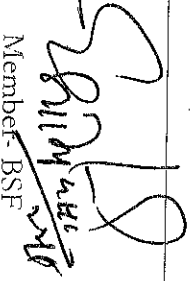
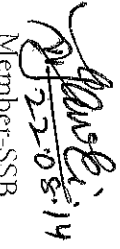
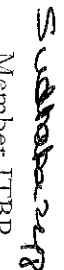

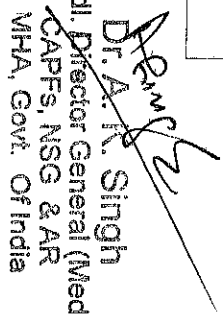
Sr. #	Parameters	Suggested Trial Procedure	Result excepted / desired
1.	Should be canine treadmill with capacity to exercise all dogs from 5kg to 85kg body weight.	Check physically Check manufacturer's certificate	To check total utility of equipments in terms of canine specification with dog weight ranging from 5 kg to 85 kg, light weight and portable equipment, foldable, multiple speed increment features backed by post sale service facility all over in India.
2.	Should have preinstalled exercising programs and facility for user to create own program depending on individual dog's training and exercise needs.	Check software Check manufacturer's certificate	
3.	Should be extremely lightweight with no special storage conditions and foldable body type and design for easy storing when not in user.	Check physically	
4.	Should have running area of minimum 70" to 75" x 16" to 18" with multiple speed increments feature from 800 meters per hour to 12 kilometers per hour in increments of 150 meters per hour.	Check physically by measurement	
5.	Should have inbuilt tilt feature with multiple angle adjustments viz. 1° to 5°, 2° to 6.5°, 3° to 7.5° and 4° to 9°.	Check physically	
6.	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, ENAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery/installation.	Check manufacturer's certificate Check manufacturer's certificate	
7.	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on site technical	

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Trial Directive Canine Hydraulic Surgery & Examination Table

Sr. #	Parameters	Suggested Trial Procedure	Result expected/ desired
1	Should be canine hydraulic surgery and examination table.	Check Physically Check manufacturer's certificate	To check total utility of the equipments in terms of its utility for equine specifically, made up of non-corrosive stain less steel with four heavy duty swivel casters and brakes, hydraulic system consisting of four lifting cylinders and 7.5 hp motor operating on 220 V electrical current, all accessories backed by supports sale service support facilities all over India.
2	Should have complete stainless steel construction with tilt-top mechanism.	Check Physically Check manufacturer's certificate	
3	Should be minimum 20" (w_x60" (L), x36" (H)	Check by physical measurement.	
4	Should have weight bearing capacity of minimum 150 Kg	Check by physical measurement. Check manufacturer's certificate	
5	Should have furnished with the down and duplex electric outlet.	Check physically Check user manual.	
6	Should be electric surgery table with smooth lowering and lifting function via hydraulic system operating on a 220 v electrical current.	Check physically Check user manual.	
7	Should be fitted with adjustable floor glides.	Check physically	

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8	Should have 5 heavy duty swivel casters with brakes removable for cleaning by pulling pins and sliding.	Check physically Check user manual.	
9	Should have hydraulic system with easy access panel completely enclosed in water proof casing and hydraulic lines made of complete Stainless steel.	Check by physical measurement. Check manufacturer's certificate Check user manual.	
10	Should be easily cleanable and disinfected with stainless steel body wiped by hand or can be pressure-washed for through cleaning.	Check physically Check user manual.	
11	Should have several drain holes throughout the table to ensure no water pools on any surface with the table motor completely enclosed in watertight casing and corrosion-resistant receptacles and switches.	Check physically	
12	Should be backed by manufacturer's certifications complying CE Marked to Council Directive, Directive 93/42/EEC, ISO 13485, ISO 14001, ISO 9001, FMAS, CE, UL. All manufacturer's certifications to be produced at the time of delivery / installation.	Check manufacturer's certificate	
13	Should be installed on site with complete user technical training and backed by onsite after sale service support all over India including CAPF and paramilitary field units.	Ensure proper installation Ensure on-site technical.	

It is hereby certified by the Board that this booklet consisting of the QRs of 28 Veterinary equipments/ instruments having 52 pages.

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