

Request for Quotation

RFQ NUMBER:	OVI012608RFQ00000023
CLOSING DATE:	Date: 21-August-2026 Time: 11:00
DESCRIPTION	Supply and delivery of Probang Cups
ADDRESS	OVI - Onderstepoort Veterinary Institute 100 old Soutpan Road Onderstepoort PRETORIA
ENQUIRY	Name: Emmy ME. Galane Supply Chain Management Email: GalaneM@arc.agric.za
COMPULSORY SITE BRIEFING	
Special Condition	

Research Consumable:

1. You are kindly requested to submit a written quotation to the Agricultural Research Council as per below or attached terms of reference (TOR).

Description	Quantity	Unit of Measure
Supply Probang Cups as per attached specifications	1.00	EA

2. Essential Administrative Requirements:

- 2.1. Only bidders registered on the Central Supplier Database (CSD) will be considered. Bidders shall include the CSD registration number and full CSD report with the bid proposal.
 - 2.2. Only bidders that claim specific goals will be considered for scoring on the 20 points as per the 80/20 principle.
 - 2.3. Completed and signed Standard Bidding Documents (SBD) forms included in the bid document.
 - 2.4. Submission should be sent to GalaneM@arc.agric.za
3. The above specified goods/services should be delivered / rendered to the ARC- Institute at above-mentioned delivery address.
 4. The particulars of the guarantee that will apply to the goods quoted for, with the particular regards to the period and extent of the warranty must be clearly stated. Where services are required, service providers must submit documentation pertaining the relevant experience.
 5. Your written quotation must be emailed depending on the instructions given in the email or advert .
 6. All price quotations that have a rand value of R 2,000.00 to below R 50,000,000.00, including VAT, will be evaluated by applying the 80/20 principle as prescribed by the Preferential Procurement Policy Framework Act 5 of 2022 and its Regulations.
 7. The lowest acceptable price will score 80 points, Specific goals for the tender and points claimed are indicate per the table below:

Specific Goals	Percentage Ownership (1%)	Points (20)	Ponts (10)
Ownership by HDIs	51%+	6	3
Ownership by Women	51%+	4	2
Ownership by Youth	51%+	4	2
Ownership by PwD	51%+	2	1
BEE Status	Level 1 - 4	2	1
RDP Goals	No RDP Goals	2	1
TOTAL POINTS		20	10

8. Standard conditions:

8.1 The validity of the quotations must be indicated.

8.2 Prices quoted should be in South African Rand and inclusive of VAT costs such as delivery, insurance, taxes, etc.

8.3 No price adjustments or amendment of the delivery particulars contained in paragraph 8.2 will be considered by the ARC.

8.4 The supplier accepts full responsibility for the proper execution and fulfilment of the goods/services quoted for.

8.5 ARC reserves the right to accept or reject any special terms and conditions that may qualify the goods/services to be provided.

8.6 Quotes should be submitted on an official letterhead and duly signed .

8.7 Goods and services should be supplied / rendered upon receipt of a purchase order from the ARC.

8.8 The General Conditions of Contract issued by National Treasury are applicable .

8.9 The ARC supply chain management code of conduct is applicable .

8.10 Standard Bidding Documents (SBD) forms must be signed and returned together with the quotation. Failure to comply may result to disqualification of your quotation.

8.11 Your quotation must indicate the delivery date .

8.12 The ARC reserve the right to do due diligence on the quotations .

8.13 The ARC reserves the right to benchmark prices quoted .

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the **90/10** preference point system.
- b) The applicable preference point system for this tender is the **80/20** preference point system.
- c) Either the **90/10 or 80/20 preference point system** will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

Price; and
Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = Price of highest acceptable tender

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

- 1.1 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.2 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

$$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) \text{ or } Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmin = Price of lowest acceptable tender

3.1. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.1.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \text{ or } Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

3. POINTS AWARDED FOR SPECIFIC GOALS

- 3.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 3.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of-
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

Specific goals	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Percentage (%) Ownership by HDI's		Points (6)		
51% and above		6		
Below 51%				
Percentage (%) Ownership by Women		Points (4)		
51% and above		4		
Below 51%				
Percentage (%) Ownership by Youth		Points (4)		
51% and above		4		
Below 51%				
Percentage (%) Ownership by PwD		Points (2)		
51% and above		2		
Below 51%				
RDP Goals		Points (2)		
No RDP Goals		2		
BEE Status		Points (2)		
Level 1-4		2		

DECLARATION WITH REGARD TO COMPANY/FIRM

- 3.1. Name of company/firm.....
- 3.2. Company registration number:
- 3.3. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
 - ☐ One-person business/sole propriety
 - ☐ Close corporation
 - ☐ Public Company
 - ☐ Personal Liability Company
 - ☐ (Pty) Limited
 - ☐ Non-Profit Company
 - ☐ State Owned Company
- [Tick applicable box]

3.4. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have -
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....

SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

.....

DATE:

.....

ADDRESS:

.....

.....

.....

.....

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise,
employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

1. the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:
.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:
.....
.....

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by

2 Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

.....
Signature

.....
Date

.....
Position

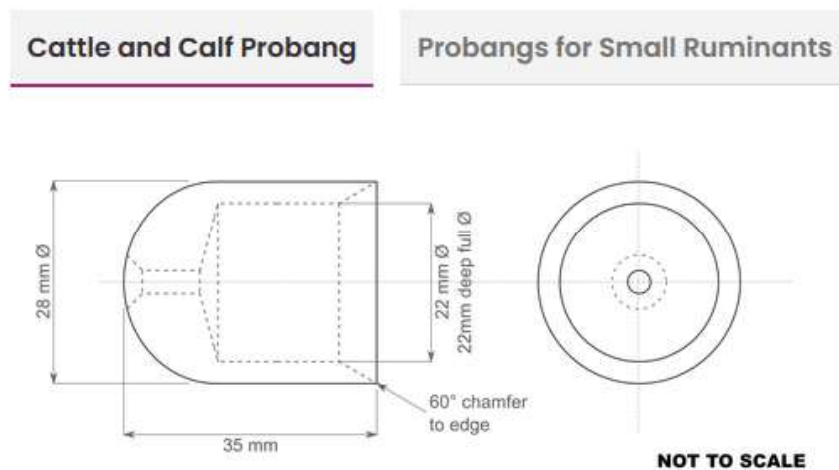
.....
Name of bidder

FMD Probang Cups for Directorate of Veterinary Services, Namibia

Specifications for manufacture of probang cups can be found on the website of the Pirbright OIE Reference Laboratory at <http://www.wrlfmd.org/>

Item	Specifications	Quantity
Probang for Cattle	Brass Cup: The cup is turned from free cutting brass . Cup stock diameter: 1 1/8 inch (28 mm) for the cattle. Wire handle: 10 S.W.G. stainless steel wire in a hard drawn state to provide 'spring'. It is important to have this supplied in coil form so that the handle follows the natural curve of the wire coil, safety chain loop attached.	150
Probang for Calf	Brass Cup: The cup is turned from free cutting brass . Cup stock diameter 7/8 inch (22 mm) for calf probang. Wire handle: 10 S.W.G. stainless steel wire in a hard drawn state to provide 'spring'. It is important to have this supplied in coil form so that the handle follows the natural curve of the wire coil, safety chain loop attached.	150
Probang: Small Stock	Brass Cup: The cup is turned from free cutting brass . Cup stock diameter stock diameter 3/4 inch (19 mm). Wire handle: 10 S.W.G. stainless steel wire in a hard drawn state to provide 'spring'. It is important to have this supplied in coil form so that the handle follows the natural curve of the wire coil, safety chain loop attached.	150

Probang for Cattle and Calfs

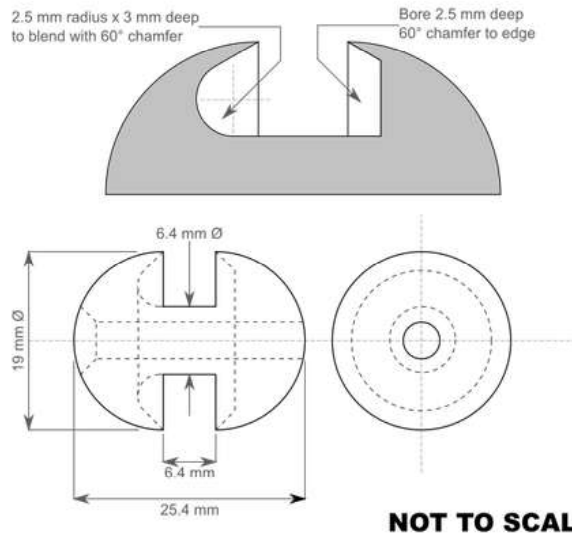


<https://www.wrlfmd.org/laboratory-protocols/probang-manufacturing>

Probang Cup for Small Ruminants

Cattle and Calf Probang

Probangs for Small Ruminants



<https://www.wrlfmd.org/laboratory-protocols/probang-manufacturing>





INSTITUTE FOR ANIMAL HEALTH

Director: Dr C. J. Bostock, PhD

Head of Laboratory:

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PIRBRIGHT LABORATORY

Ash Road, Pirbright
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<http://www.iah.bbsrc.ac.uk/>

PROBANG MANUFACTURING NOTES

Cattle and Calf Cup

The cup is turned from free cutting brass stock diameter $\frac{7}{8}$ inch (22 mm) for calf probang and $1\frac{1}{8}$ inch (28 mm) for the cattle. Machining sequence as follows:

1. Mount in chuck, face, centre drill.
2. Pilot drill to full depth, finish drill to drawing.
3. Bore chamfer at 60° to edge, remove sharp edge to provide scraping not cutting edge.
4. Part off to drawing.
5. Reverse in chuck, centre drill, drill through No 30 diameter and countersink to $\frac{1}{4}$ inch (6 mm) diameter.
6. Turn profile with form tool and blend by hand with fine emery cloth.

Cattle and Calf Wire Handle

The handle material for all probangs is 10 S.W.G. stainless steel wire in a hard drawn state to provide 'spring'. It is an advantage to have this supplied in coil form so that the handle follows the natural curve of the wire coil.

The first operation, at this stage of manufacture, is to cut to length and form an eye at one end as per drawing. The rivet head will be formed later during assembly.

Assembly Cattle and Calf Probang

Proceed as follows:

1. Slide brass cup, cattle or calf size down the wire.
2. Mount wire in head forming fixture and form head. This operation is simplified if the wire is locally heated to red before hammering into shape.
3. Clean off heating discolouration from around rivet head, flux area with 'Easy flo' silver solder flux and slide cup into position.
4. Silver solder in position, quench and allow to soak to remove flux residue.

cont'd ...

Finishing and Final Assembly

Excess solder and any wire that protrudes from the end of the cup is filed and hand polished to blend with the cup profile. The final finish to the whole outside of the cup is achieved with a cloth buffing wheel.

To complete the assembly, a loop of brass safety chain is passed through the eye in the wire handle, as per sketch.

Pig and Sheep Probang Head

The head is turned from free cutting brass, stock diameter $\frac{3}{4}$ inch (19 mm). Machining sequence as follows:

1. Mount bar in chuck, face and centre drill.
2. Drill No 30 diameter to $1\frac{1}{4}$ inch (32 mm) deep, countersink to $\frac{1}{4}$ inch (6.4 mm) diameter.
3. Turn profile with form tool and blend by hand with fine emery cloth.
4. Plunge centre groove $\frac{1}{4}$ inch (6.4 mm) wide x $\frac{1}{4}$ inch (6.4 mm) deep.
5. Bore recesses with form tools as per drawing.
6. Part off to 1 inch (25.4 mm) long.
7. Reverse in chuck, mount in chuck fixture and turn other profile, see fixture sketch.

Assembly and Finishing

Proceed as for Cattle and Calf.

Enclosed:

Drawings:

Cattle Probang Head
Pig and Sheep Probang Head
Assembly of Cattle and Calf Probang
Assembly of Pig and Sheep Probang
Calf and Probang Head
Sketch of fixture for machining profile
Sketch of safety chain assembly
Sketch of wire head forming

February 1998

PART OF

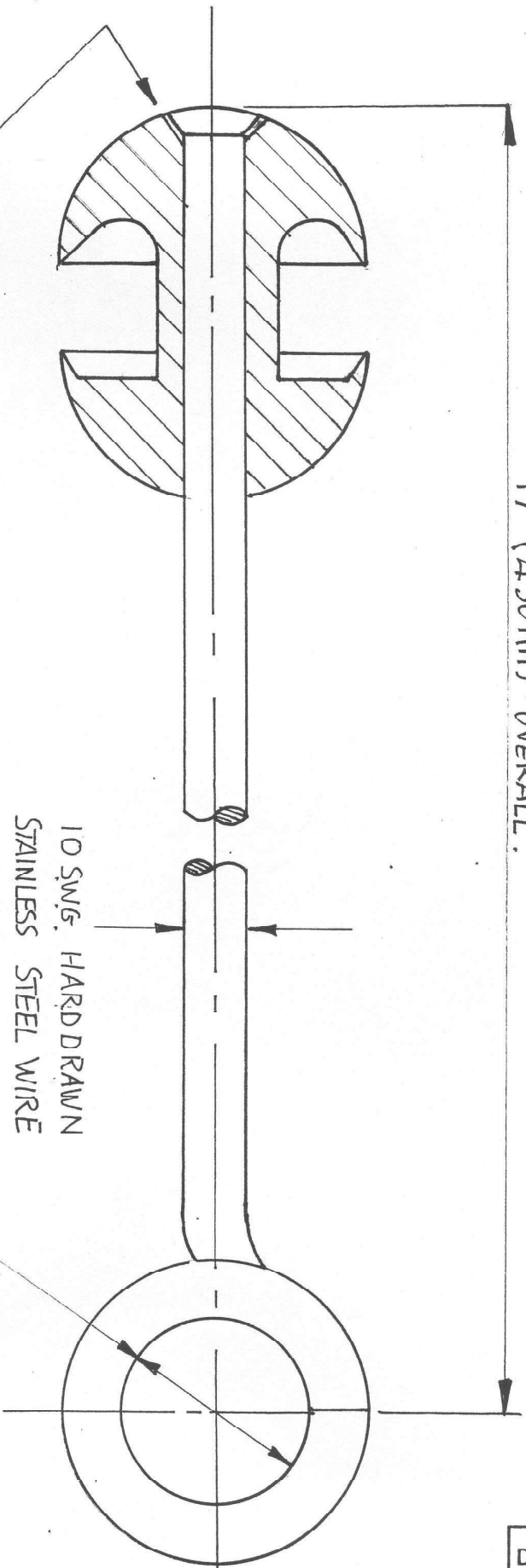
DO NOT SCALE

NOT TO SCALE

SHEET OF

DRG. No.

17" (430mm) OVERALL.



WIRE SILVER SOLDERED IN POSITION
FORMED END OF WIRE AND EXCESS
SOLDER FILED OFF AND POLISHED
TO CUP PROFILE.

INSTITUTE FOR ANIMAL HEALTH

ASH ROAD

PIRBRIGHT

SURREY

GU19 4 QNF

TITLE
PIG AND SHEEP
PROBANG ASSY.

DRAWN TRACED CHECKED APPROVED DATE
DRAWING No. 0453

ISSUE DESCRIPTION APPD DATE

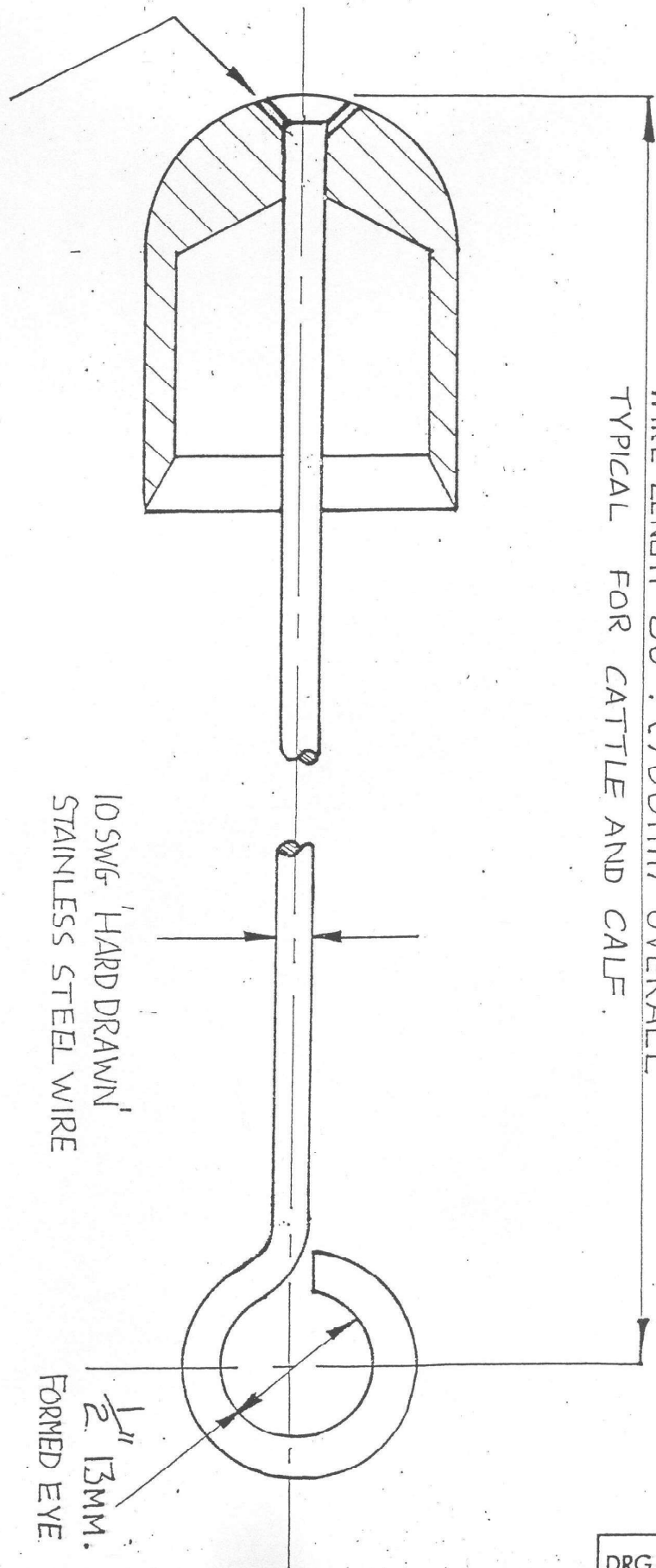
PART OF

DO NOT SCALE

SHEET OF

DRG. No.

WIRE LENGTH 30". (760MM) OVERALL
TYPICAL FOR CATTLE AND CALF.



WIRE SOLDERED IN POSITION
SOLDER MUST RUN THROUGH JOINT.
FORMED END OF WIRE AND EXCESS SOLDER
FILED OFF AND POLISHED TO CUP PROFILE.

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

ISSUE	DESCRIPTION	APPROVAL	DATE	DRAWN	TRACED	CHECKED	APPROVED	DATE
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TITLE
ASSY CATTLE
AND
CALF PROBANG

DRAWING No.

642

PART OF

1

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4

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6

7

8

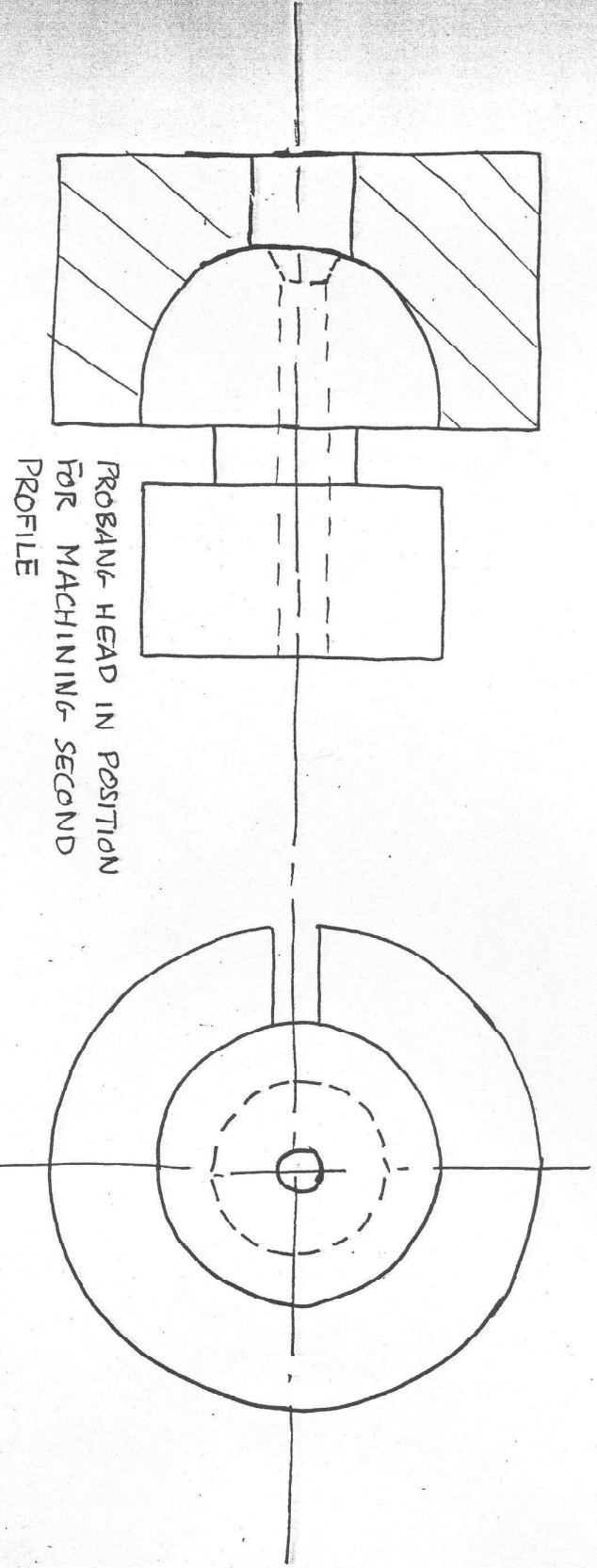
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10

DO NOT SCALE

SHEET OF

DRG. No.



PROBANG HEAD IN POSITION
FOR MACHINING SECOND
PROFILE

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

ISSUE

DESCRIPTION

APPD DATE

TITLE SKETCH OF
FIXTURE/SPLIT
BUSH FOR MACHINING
SECOND PROFILE

DRAWN

TRACED

CHECKED

APPROVED

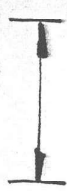
DATE

DRAWING No.

PART OF

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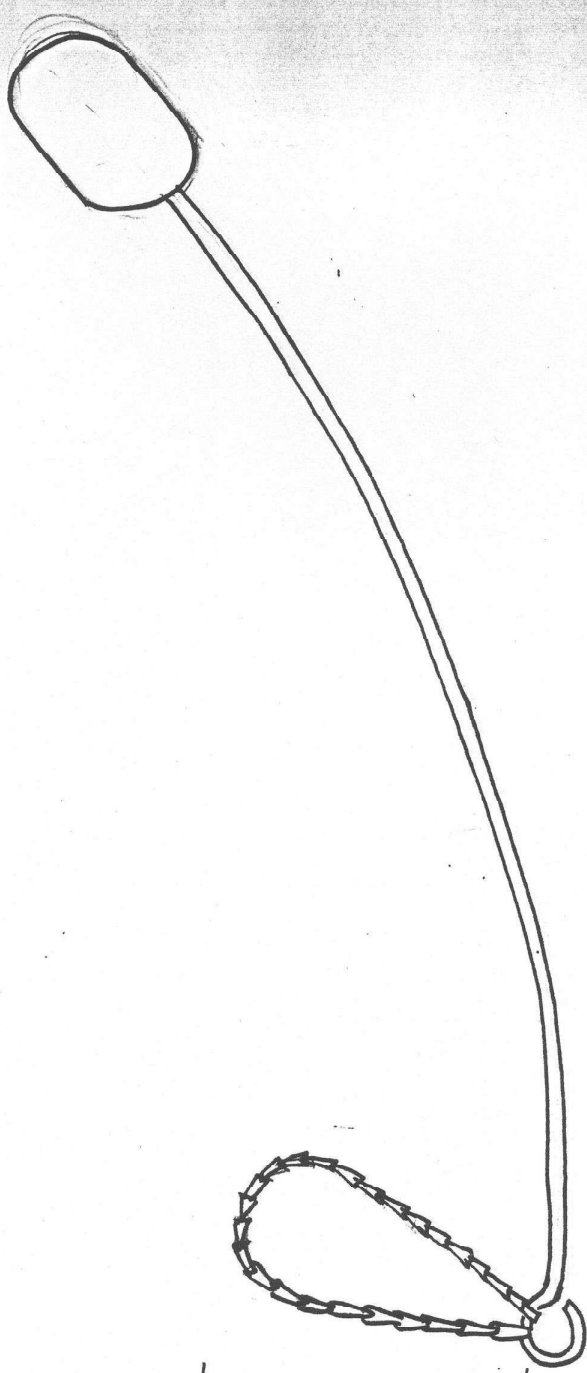
SHEET OF



APPROX

$\frac{1}{2}$ " (12MM)

TYPICAL SAFETY CHAIN



APPROX 12"
(300MM)

DRG. No.

ISSUE DESCRIPTION

APPD DATE

DRAWN

TRACED

CHECKED

APPROVED

DATE

TITLE
SKETCH, SAFETY
CHAIN

DRAWING No.

052

PART OF 1 2 3 4 5 6 7 8 9 10

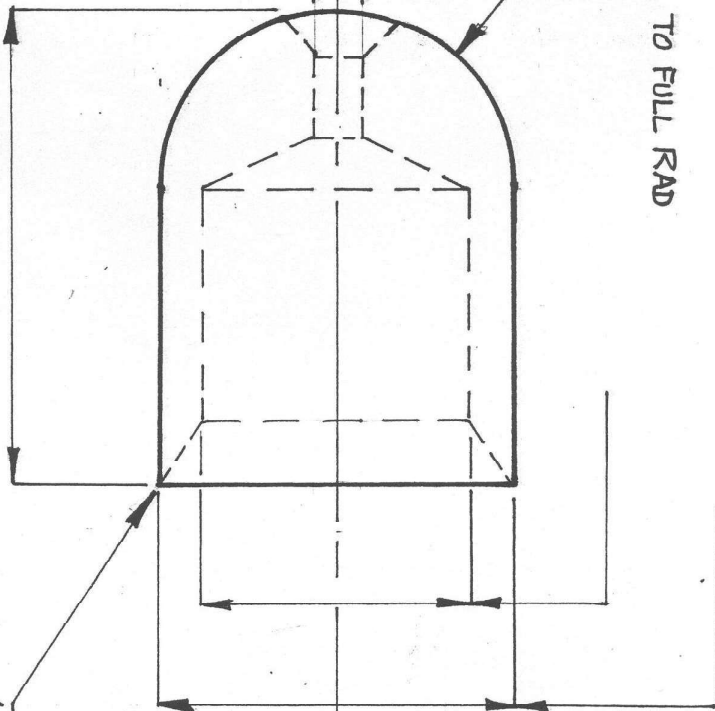
DO NOT SCALE

SHEET OF

DRG. No.

TURN PROFILE TO FULL RAD

DRILL THRO
NØ30 DIA
CSNK 90°

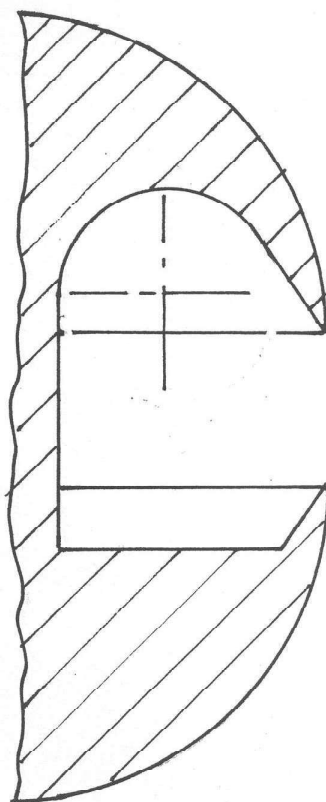


TURN 60° CHAMFER TO EDGE.
SHARP EDGE REMOVED WITH FINE
ABRASIVE CLOTH TO REMOVE
CUTTING-EDGE

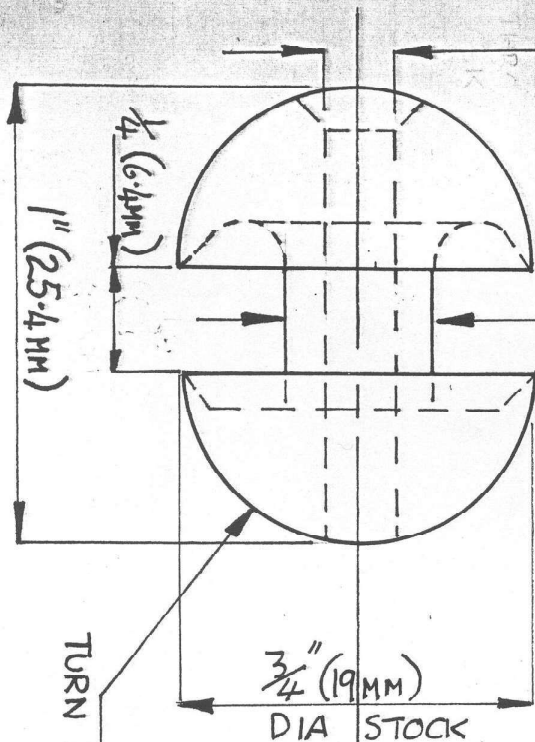
INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

ISSUE	DESCRIPTION	APPD	DATE	MATERIAL	TITLE	DRAWN	TRACED	CHECKED	APPROVED	DATE
				FREE CUTTING BRASS.						

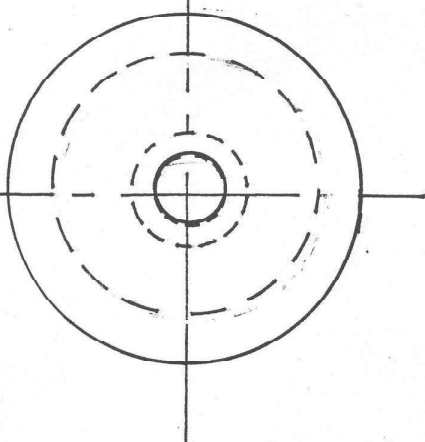
DRAWING No. 051



$\frac{1}{4}$ " (6.4MM) DIA
DRILL THRO' NO 30
CSNK 90°



TURN PROFILE TO FULL RADIUS



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ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF**

[illegible]

PART OF

2

3

4

5

6

7

8

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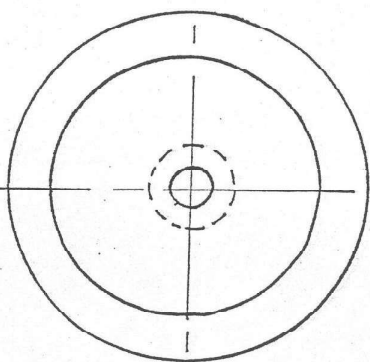
10

DO NOT SCALE

SHEET OF

 $1\frac{1}{8}$ " (28mm) STOCK DIA

TURN PROFILE TO FULL RAD

DRILL $\frac{7}{8}$ " (22mm) DIA
X $\frac{7}{8}$ " (22mm) DEEP
FULL DIADRILL THRU
NO 30 DIA
CSNK 90° $1\frac{3}{8}$ " (35mm)TURN 60° CHAMFER TO EDGE.
SHARP EDGE REMOVED WITH FINE
ABRASIVE CLOTH TO REMOVE
CUTTING-EDGE.

DRG. No.

ISSUE

DESCRIPTION

APD DATE

MATERIAL

FREE CUTTING BRASS.

TITLE

CATTLE PROBANG
HEAD

DRAWN

TRACED

CHECKED

APPROVED DATE

DRAWING No.

056

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIREBRIGHT
SURREY
GU24 0NF

PART OF

1 2 3 4 5 6 7 8 9 10

0.1" (2.5mm) RAD X .125" (3mm) DEEP
TO BLEND WITH
60° CHAMFER
BORE 0.1" (2.5mm) DEEP
60° CHAMFER TO EDGE

DRG. No.

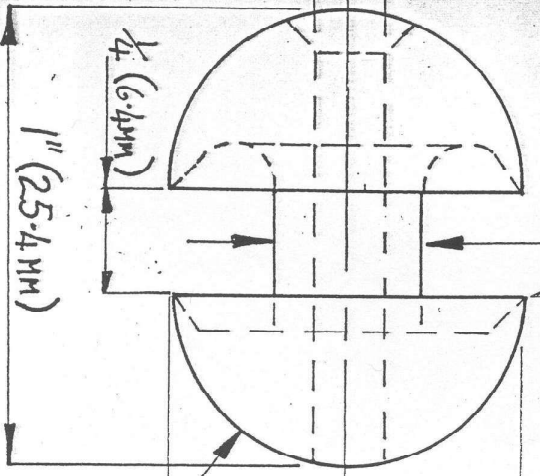
1/4" (6.4mm) DIA

DRILL THRO' No 30
CSNK 90°

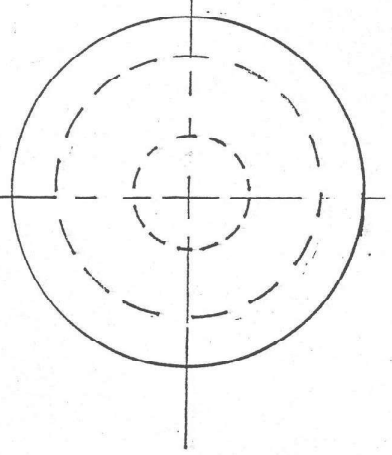
REMOVE CUTTING EDGE WITH FINE ABRASIVE CLOTH

CENTRE SECTION DETAIL

3/4" (19mm)
DIA STOCK



TURN PROFILE TO FULL RADIUS



NOT TO SCALE

ISSUE	DESCRIPTION	APD	DATE	MATERIAL	TITLE	DRAWN	TRACED	CHECKED	APPROVED	DATE
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FREE CUTTING-
BRASS

PIG-AND SHEEP
PROBANG HEAD

DRAWING No.

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

PART OF

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SHEET OF

0.1" (2.5mm) RAD X .125" (3mm) DEEP
TO BLEND WITH
60° CHAMFER

BORE 0.1" (2.5mm) DEEP
60° CHAMFER TO EDGE

DRG. No.

$\frac{1}{4}$ " (6.4mm) DIA

DRILL THRO' No 30
CSNK 90°

REMOVE CUTTING EDGE WITH FINE ABRASIVE CLOTH

CENTRE SECTION DETAIL

$\frac{3}{4}$ " (19mm)
DIA STOCK

$\frac{1}{4}$ " (6.4mm)
1" (25.4mm)

TURN PROFILE TO FULL RADIUS

NOT TO SCALE

INSTITUTE FOR ANIMAL HEALTH

ASH ROAD

PIRBRIGHT

SURREY

GU24 0NF

ISSUE

DESCRIPTION

APPD DATE

MATERIAL

TITLE

PIG- AND SHEEP
PROBANG HEAD

DRAWN

TRACED

CHECKED

APPROVED

DATE

DRAWING No.

FREE CUTTING-
BRASS

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DO NOT SCALE
NOT TO SCALE

$\frac{7}{8}$ " (22mm) STOCK DIA

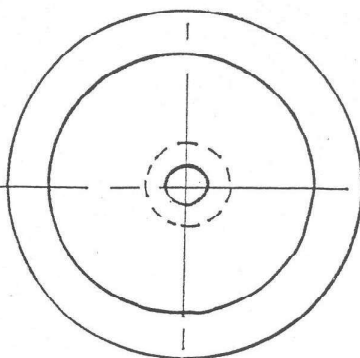
TURN PROFILE TO FULL RAD

DRILL $\frac{3}{4}$ " (19mm) DIA
X $\frac{3}{4}$ " (19mm) DEEP
FULL DIA

DRILL THRO
N°30 DIA
CSNK 90°

$1\frac{1}{8}$ " (28mm)

TURN 60° CHAMFER TO EDGE.
SHARP EDGE REMOVED WITH FINE
ABRASIVE CLOTH TO REMOVE
CUTTING- EDGE.



INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

ISSUE	DESCRIPTION	APPD DATE	MATERIAL	TITLE	DRAWN	TRACED	CHECKED	APPROVED	DATE
G			FREE CUTTING BRASS.	CALF PROBANG HEAD.					

DRAWING No.

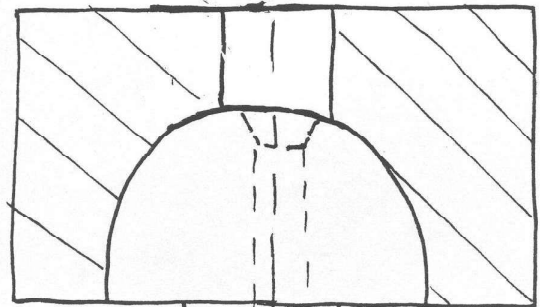
046

PART OF

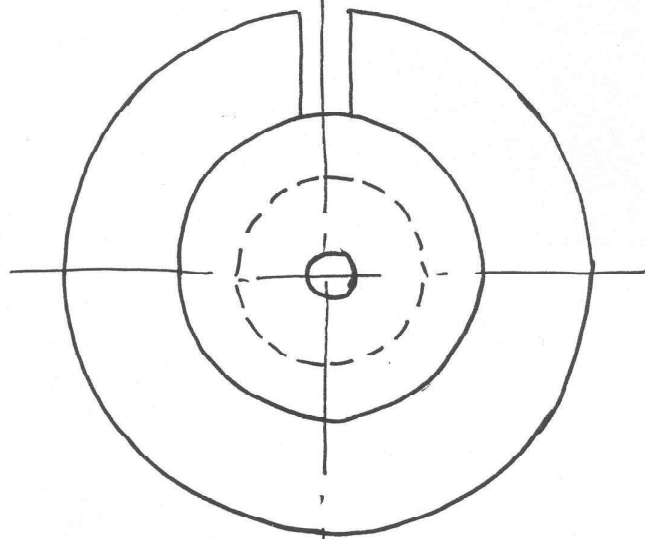
DO NOT SCALE

SHEET OF

DRG. No.



PROBANG HEAD IN POSITION
FOR MACHINING SECOND
PROFILE



ISSUE	DESCRIPTION	APPD	DATE

TITLE SKETCH OF
FIXTURE / SPLIT
BUSH FOR MACHINING
SECOND PROFILE

DRAWN	TRACED	CHECKED	APPROVED	DATE

DRAWING No.

045

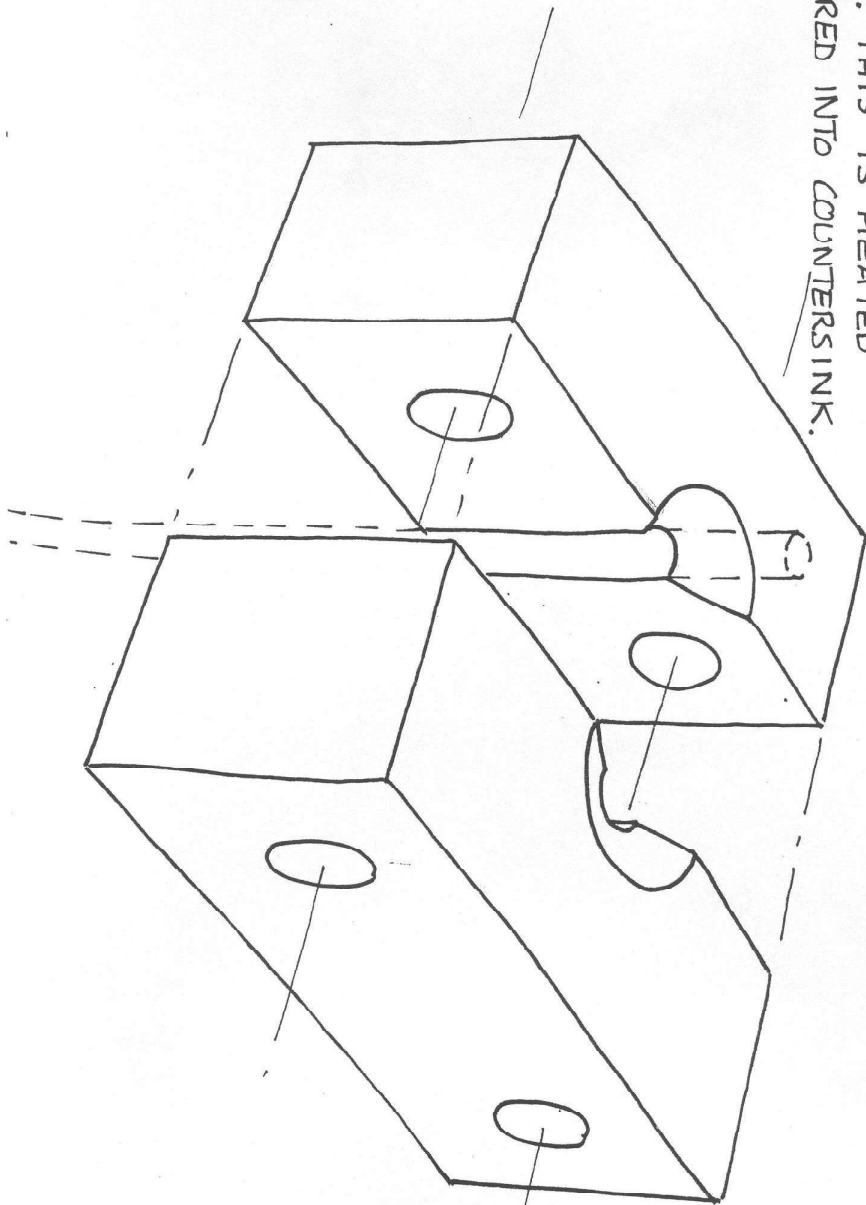
PART OF

DO NOT SCALE

SHEET OF

DRG. No.

THE WIRE IS CLAMPED
BETWEEN THE BLOCKS
LEAVING APPROX 4MM PROTRUDING
ABOVE SURFACE. THIS IS HEATED
RED AND HAMMERED INTO COUNTERSINK.



ISSUE	DESCRIPTION	APPD	DATE	TITLE	DRAWN	TRACED	CHECKED	APPROVED	DATE
				SKETCH OF WIRE HEAD FORMING JIG.					
				DRAWING No.					

PART OF

0.1" (2.5mm) RAD X .125" (3mm) DEEP
TO BLEND WITH
60° CHAMFER

BORE 0.1" (2.5mm) DEEP
60° CHAMFER TO EDGE

DRG. No.

$\frac{1}{4}$ " (6.4mm) DIA

DRILL THRO' No 30
CSNK 90°

CENTRE SECTION DETAIL

REMOVE CUTTING EDGE WITH FINE ABRASIVE CLOTH

$\frac{3}{4}$ " (19mm)
DIA STOCK

TURN PROFILE TO FULL RADIUS

$\frac{1}{4}$ " (6.4mm)
1" (25.4mm)

NOT TO SCALE

INSTITUTE FOR ANIMAL HEALTH

ASH ROAD

PIRBRIGHT

SURREY

GU24 0NF

ISSUE

DESCRIPTION

APPROD DATE

MATERIAL

FREE CUTTING-
BRASS

TITLE

PIG- AND SHEEP
PROBANG HEAD

DRAWN

TRACED

CHECKED

APPROVED

DATE

DRAWING No.

049

RS 561.448

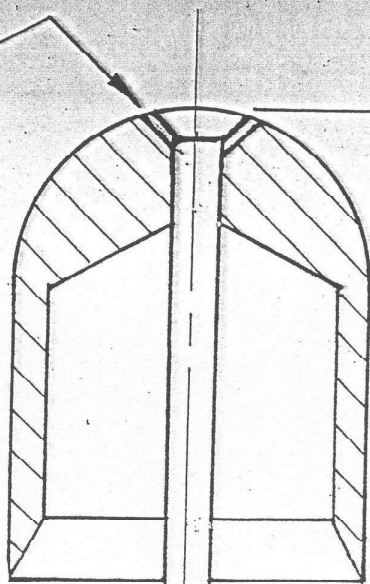
210 x 297mm A4

PART OF

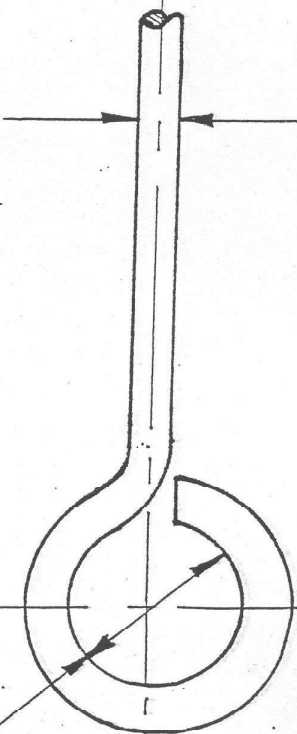
DO NOT SCALE

SHEET OF

WIRE LENGTH 30". (760mm) OVERALL
TYPICAL FOR CATTLE AND CALF.



10 SWG 'HARD DRAWN'
STAINLESS STEEL WIRE



1 1/2" 38mm.
FORMED EYE

WIRE SILVER SOLDERED IN POSITION
SOLDER MUST RUN THROUGH JOINT.
FORMED END OF WIRE AND EXCESS SOLDER
FILED OFF AND POLISHED TO CUP PROFILE.

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY

GU24 0NF

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PART OF

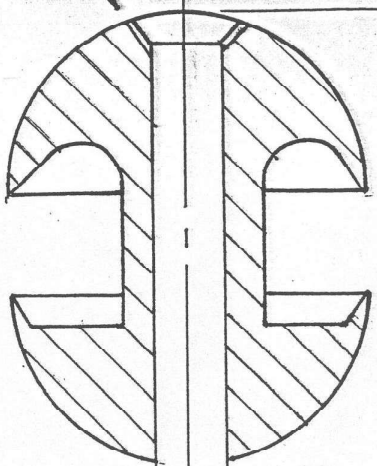
DO NOT SCALE

NOT TO SCALE

SHEET OF

17" (430mm) OVERALL.

DRG. No.



WIRE SILVER SOLDERED IN POSITION
FORMED END OF WIRE AND EXCESS
SOLDER FILED OFF AND POLISHED
TO CUP PROFILE.

10 SWG. HARD DRAWN
STAINLESS STEEL WIRE

1 1/2 TURNS OF WIRE
TO FORM EYE 1/2" (19mm) DIA.

INSTITUTE FOR ANIMAL HEALTH
ASH ROAD
PIRBRIGHT
SURREY
GU24 0NF

INSTITUTE FOR ANIMAL HEALTH
PROBANG ASSY.

DRAWN TRACED CHECKED APPROVED DATE
DRAWING No. *047*

DESCRIPTION

APPROVED DATE

TITLE

DRAWN

TRACED

CHECKED

APPROVED

DATE