

PLEASE RETAIN  
ORIGINAL ORDER

UNCLASSIFIED  
EL/WG MAY 2009

UNARCHIVES  
SERIES S-1062  
BOX 33  
FILE 5  
ACC. 1998/0284

ISSUE GRABAT NIGHT !! CRITICAL PASPORT  
INCORPORATE PRG/ISSUE WITH HLTH TASKS. DESTINATIONS.

**CORRESPONDENCE DISTRIBUTION**  
**COVER SHEET**

File No: 994-1-1

To: FMO Remarks/Action: 1/1/1

Med Ops

Med Log

FHO

GEORGE: - PROGRAM

Q4 Advised that items were to be produced

PEST control PRG 1055. 2 DAYS. 1st week, delivered next week.

FOR ALL CONTINGENTS

Please initial and date when action complete then pass quickly

PRG will need to occur. Follow  
or a avail at Raffiro Wed 31  
160



**MINUTE PAPER**

REF: SO LOG 278/95

TO: CISS

INFO: DCOS SP  
FMO  
CPO  
SUMMO

FROM: SO LOG

**SUBJECT: IOR - MALARIAL PROTECTIVE EQUIPMENT**

Reference:

- A. SO LOG MEMO 216/95 dated 22 Apr 95
- B. IOR LOG /HQ - 20340 dated 26 Apr 95
- C. Discussions Mr Kinyshwe Procurement Section/SO LOG of 13 Jun 95

1. Ref A details the requirement for the urgent procurement of insecticidal sprayers as needed by the Force Health Officer to combat the spread of Malaria within UNAMIR. Note that this was raised on 23 Apr 95.

2. Ref B is the IOR raised and approved on 26 Apr 95. Included on the IOR were details of the availability of the items, including the supplier and costs. These items were included due to the urgency of the request and after discussions with the then CILM and Procurement Section. The Force Health Officer had contacted the supplier and the availability of the items was confirmed.

3. Discussions at Ref C reveal that for some reason the order was split between Purchase Orders MIR5-1500 and MIR5-1501. With the purchase order for main item (the sprayer unit) being placed with the recommended supplier and the other essential items being placed with a South African firm. Further the required delivery dates for an IOR for such a

*This is fairly consistent  
with my experience*

*24*

significant health item are listed as 9 Jun and 15 Jun. One of those dates having already passed.

4. Given the urgent nature of the items being requested:

- a. Why has the item not yet been procured despite being given a guaranteed supplier in April 1995.
- b. Why was the order split thereby ensuring that the procurement of all the items required will be delayed whilst waiting for two separate orders to be delivered.

5. If the requisitioning agent (in this case the Force Health Officer) is being required to provide details of suppliers and cost, surely the function and purpose of the procurement section, then why is that advice ignored.

6. There seems to be no urgency afforded this request once it has reached procurement section, no follow up action taken to ensure its delivery and the methodology of procurement appears to contribute to further delays in its delivery and final application in Rwanda.

7. I request that this matter is investigated and advice is provided on when the items will be delivered to the Force Health Officer.



S.A. TAYLOR  
MAJ  
SO LOG  
G4 LOG PLANS  
Ext 11118  
13 JUN 95

- Enclosures:
1. SO LOG MEMO 216/95 dated 22 Apr 95
  2. IOR LOG /HQ - 20340 dated 26 Apr 95
-

UNITED NATIONS ASSISTANCE MISSION FOR RWANDA  
REQUISITION FOR SUPPLIES

Procurement: KYNOSH-OF  
ST 1510

Requisition #: UNAMIR - LOG/HQ - 20340

Date: 26 APRIL 1995

TO: Procurement Section  
ATT: HUGO VALDEZ

FROM: LOGISTICS SECTION Tel. Ext. 11102

DELIVER TO: ALLY H. GOLO, C/O UNAMIR  
Name Room No.

APPROVED BY: MINAS LESSANI  
Name Title

THIS BLOCK FOR USE OF CONTRACT,  
PURCHASE OR LOGISTICS UNITS

Case No.:

Acc. No.: RNA-30310-513

Date Charged:

ITEM	STOCK NO	DESCRIPTION	UNIT	QUANTITY REQUIRED	QUANTITY ISSUED	UNIT COST	TOTAL COSTS
I.O.R. FOR							
1		INDOGO 5 SPRAYER	EA	20		KSH 1,600	KSH 32,000
2		HOBRA 18 KNAPSACK SPRAYER	EA	11		KSH 5,500	KSH 60,500
3		RESPIRATOR TYPE C121W	EA	22		KSH 1,200	KSH 26,400
4		CARTRIDGE FOR RESPIRATOR C121W	EA	84		KSH 200	KSH 16,800
5		DUST/CHEMICAL GAS MASK TYPE 708P	EA	26		KSH 300	KSH 7,800
6		GLOVES (NEOPRENE/NITRILE)	PAIR	42		KSH 300	KSH 12,600
XXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX
		THIS REQUISITION IS BASED ON BASIS TO					
		PROCURE THE PESTICIDES/SPECIAL EQUIPMENT					
		AND PERSONAL PROTECTIVE EQUIPMENT FOR					
		MALARIA PREVENTION					
		THE SUPPLIER RECOMMENDS					
		ORION EAST AFRICA LTD. TRADING & MANUFACTUR					
		RAILWAY GOODS DEPOT - HALE SELASSIE AV.					
		P.O. BOX 8422 - NAIROBI - KENYA					
		TEL. 330381/330381/2 FAX 354 2 339288					
		TOTAL COST IS KSH. 156,100					
		THE SUPPLIER REQUESTS THAT 10% DISCOUNT					
		WOULD APPLY TO ANY ORDER					
		ALL DETAILS ARE OBTAINED IN THE ATTACHED					
		MEMO AND BROCHURE					
						TOTAL	KSH. 156,100

ORIGINATOR REF.: SR/LOG/MO/CILM

SPECIAL INSTRUCTIONS: SUPPLEMENT TO BE VISIT  
MEMO NUMBER AND LOGISTICS SECTION FOR MED BRANCH

RECEIPT OF GOODS ACKNOWLEDGED	
NAME:	
TITLE:	
DATE:	

RECEIVED



INTER OFFICE MEMORANDUM



FROM: SO LOG  
TO: CILM  
INFO: Med Br  
REF: LOG 216/95  
DATE: 23 Apr 95

**SUBJECT: PROCUREMENT OF INSECTICIDAL SPRAYERS**

Reference

- A. Med Br Memo 429/95 dated 22 Apr 95
1. Enclosed find a request for the procurement of insecticidal sprayers, prepared by the Force Health Officer
  2. There have already been a number of cases of malaria in contingent personnel. Though chemoprophylaxis is provided, eradication of the vector is an equally important measure in preventing this disease. The request is therefore supported by G4 Logistics.
  3. Request you have an IOR requisition raised, for action as soon as possible. The supplier, and quoted prices, are included in the reference to assist with procurement

G.A. CLARKE  
MAJ  
SO LOG  
Ext 11118

23 Apr 95

(2) 2016

Please see...

11/4



UNAMIR MINUAR

HQ UNAMIR MED BR

FILE 994-1-1

MED 429/95

→ To: SO LOG

From: FMO

Date: 22 Apr 95

Subject: REQUEST FOR PESTICIDE DISPERSAL EQUIPMENT

1. With the advent of the wet season throughout Rwanda and the increase in malaria cases within the force the procurement of the following pesticide dispersal equipment and personal protective equipment is recommended.

2. The following table outlines the proposed allocation for the pesticide dispersal equipment and personal protection equipment:

UNIT	ndogo 5 Sprayer	Hobra 18 Sprayer	Respirator C123W	Cartridge for C123W	Gloves (pr)	Goggles Type 708P	
AUS MED	2	1	2	6	4	2	
ETIOBATT	2	1	2	6	4	2	TRC
GHANBATT	2	1	2	6	4	2	
INDBATT	2	1	2	6	4	2	TRC
MALAWICOY	1	1	2	6	2	2	TRC
MALICOY	1	1	2	6	2	2	TRC
NIBATT	2	1	2	6	4	2	
SENBATT	2	1	2	6	4	2	TRC
TUNBATT	2	1	2	6	4	2	TRC
ZAMBATT	2	1	2	6	4	2	TRC
WAREHOUSE (reserve/spares)	2	1	2	24	6	6	
TOTAL	20	11	22	84	42	26	

3. Commercial brochures of the pesticide dispersal equipment are included with this proposal. Details of the specific pesticide dispersal equipment are as follows:

- ndogo 5 Sprayer - Brass double action sprayer with hose, spray lance and nozzle complete with 5 litre container and shoulder strap; and
- Hobra 18 Knapsack Sprayer - all parts which come into contact with chemicals are made of brass with soldered joints to prevent corrosion, all working parts are mounted externally and easily accessible, an agitator provides continued mixing of the chemicals in the 18 litre tank and the sprayer is designed for left-handed or right-handed operations.

4. Details of the specific personal protective equipment are as follows.
- Respirator Type C121W - lightweight and easy maintenance with replaceable cartridge.
  - Cartridge for respirator C121W - Cartridge must be for protection against organic vapour.
  - Dust/Chemical Goggle Type 708P - protects against acid/chemical splashes; and
  - Gloves (Neoprane and Nitrile) - resistant to oil, grease, chemical and solvents
5. The following outlines the costings for the pesticide dispersal equipment and personal protection equipment

ITEM	QTY	COST (KSh)	TOTAL (KSh)
Ngodo Sprayer	20	1,600	32,000
Hobra 18 Sprayer	11	5,500	60,500
Respirator	22	1,200	26,400
Cartridge	84	200	16,800
Gloves	42	300	12,600
Goggles	26	300	7,800
Total			156,100

6. The total cost of the consignment is quoted as 156,100KSh. The supplier indicated that a 10% discount would apply to any order. Calculating this discount and using the conversion rate of 45KSh to \$1US, the projected cost would be \$US3100.00 (140490KSh)

7. Details of the Nairobi supplier of these items is as follows:

ORION EAST AFRICA LTD

Trading & Manufacturing

Railway Goodshed No. 4K

Haile Selassie Avenue

P.O. Box 8422

Nairobi, Kenya

Tel: 339384/339361/212237

Fax 254-2-339268

8. This proposal is for non-consumable items, the consumable items will be forecast in a separate submission.

9. Training of personnel from each Unit within the force will be conducted by AUS MED prior to issue of any pesticide dispersal equipment or pesticides to Units.

J.E. NERNEY  
CAPT  
For FMO



## MAINTENANCE

The Hobra Ndogo 5 sprayer is carefully made from the best materials and designed for durability. However, agricultural chemicals are aggressive substances. REGULAR CLEANING and OILING are IMPORTANT to ensure trouble free service and a long life for the pump.

## DAILY MAINTENANCE AFTER USE

Empty out any chemical residue, fill tank with clean water and flush sprayer through with water. Wash outside of sprayer body with clean water and dry with cloth. Clean filter in tank.  
Unscrew the gland cap Pt. No. 8, slide the 'O' ring bush gland up the piston tube, and inject oil into the cylinder and around 'O' ring bush.

## SERVICING

The sprayer can be easily dismantled and serviced in the field to remedy the following problems:-

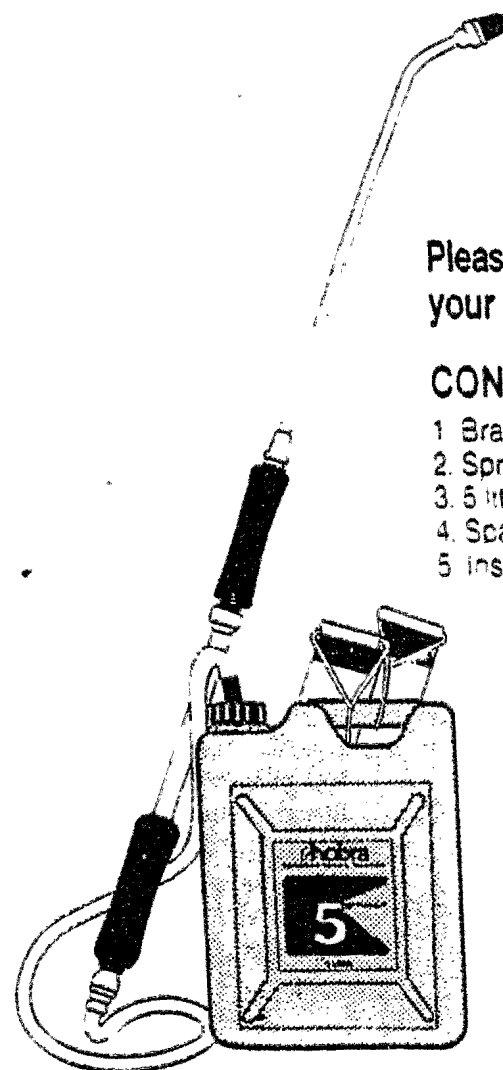
- 1) Inability to establish pressure in one or both directions. The ball valves Pts. 12 & 24 may be stuck on their seatings or have dirt in the housing.  
or delivery valve Pt. 12, remove the piston tube (6) unscrew the piston valve assembly Pt. 13 with a pair of pliers, (mind the ball inside) clean and oil. Replace ball and ensure it is loose.  
or Non-return valve Pt. 24, unscrew hose nipple at rear of pump (M17 spanner). TAKE CARE NOT TO LOSE THE SPRING AND BALL INSIDE). Clean and oil, ensure that ball moves freely. Replace ball in hose nipple, large end of spring in pump body.
- 2) Leaking from gland nut Pt. 8. Remove piston tube, unscrew piston valve assembly (mind the ball inside) and replace 8 x 2 'O' ring Pt. No. 11 (Spare provided), oil 'O' ring, ball valve and piston washers.
- 3) Poor suction. Remove piston tube, adjust piston leathers Pts. Nos. 16 & 17 by tightening nut and lock nut Pt. No. 18. If badly worn replace with new leathers (spares provided). Clean and oil. Clean filter in tank.
- 4) Poor spray pattern. Unscrew nozzle Pt. No. 1. Clean and oil vortex Pt. No. 2.

## CAUTION

Agricultural chemicals can be dangerous. Improper selection or use can seriously injure persons, animals or plants. Select the right chemicals for the job and follow the instructions carefully. Wear proper clothing, and avoid contaminating water courses when mixing, spraying, or cleaning equipment.

# **ndogo 5 sprayer**

## INSTRUCTION MANUAL AND SPARE PARTS LIST



Please read this manual before using your sprayer.

## CONTENTS OF PACKING CARTON.

1. Brass double action sprayer with hose.
2. Spray lance and nozzle.
3. 5 litre container with shoulder strap.
4. Spare Parts Nos. 11, 16, 17
5. Instruction manual.

## HOBRA MANUFACTURING LTD

OFFICE PO BOX 43340, NAIROBI, KENYA TEL. 822617/8/9 FAX 822623 822603  
FACTORY PO BOX 209, NAIVASHA, KENYA.

# hobra ndogo 5 sprayer

## INSTRUCTIONS FOR USE

### to assemble

Screw the spray lance on to the pump. Ensure plastic washer is in place.

### to operate

Fill container with spray liquid. Pumping is achieved by sliding upper part of sprayer into lower part. Initially, point sprayer upwards and give a few strokes to charge cylinder. Pump with long easy strokes to maintain a continuous spray.

After use CLEAN AND OIL as per instructions overleaf

## JINSI YA KUTUMIA

### Kuunganisha

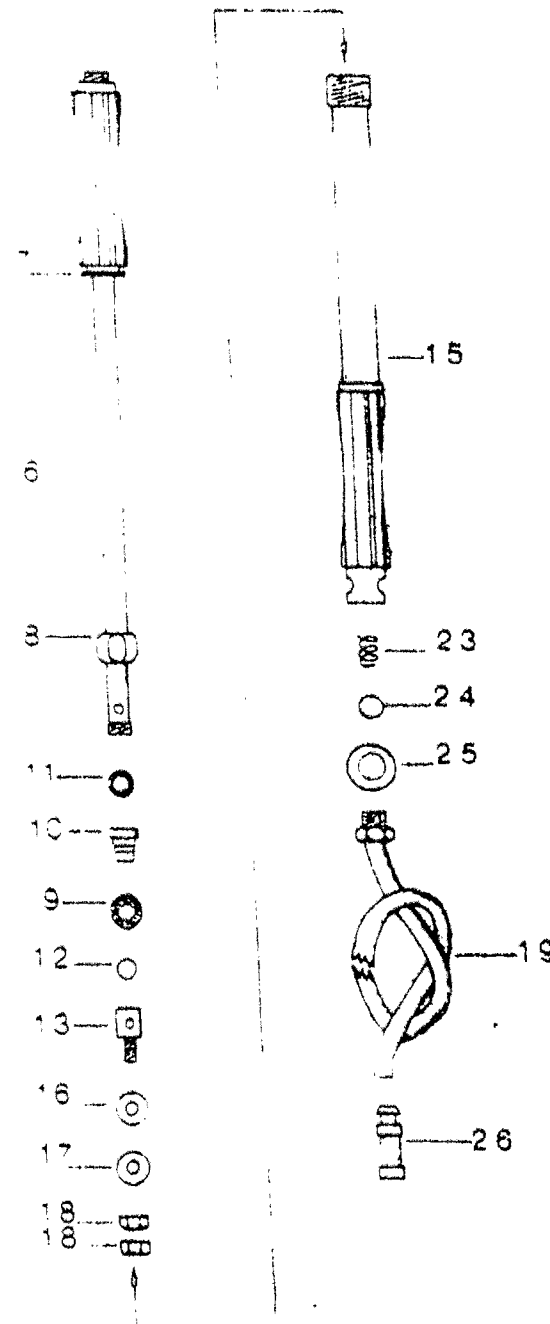
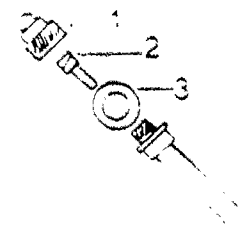
Jifungie spray lance kwa bomba kwa njia ya screw. Hakikisha plastic washer kwa spray lance ilimewekwa.

### Kuifanyiza kazi

Jaza chombo cha kuwekea dawa. Pampu hufanya kazi baada ya kubonyeza kinyunyizio juu na chini. Mwanzoni angalishe sprayer juu halafu fanyize sprayer kazi kwa pampu ili cylinder pumpiwe na nguvu na kunyunyizaji uwe wakufaa. Baada ya kutumia, isafishe kabisa kwa maji safi. Iweke ikiwa imewekwa oil ilivyoelezwa.

## SPARE PARTS LIST

- |                                 |                                      |
|---------------------------------|--------------------------------------|
| 1. Nozzle                       | 15. Cylinder tube                    |
| 2. Vortex                       | 16. Piston leather                   |
| 3. Washer 13 x 11 x 3           | 17. Piston leather                   |
| 4. Spray lance                  | 18. Piston nut and lock nut          |
| 5. Washer 13 x 11 x 3           | 19. Hose complete with n.r.v. nipple |
| 6. Piston tube                  | 20. Plastic tank 5l                  |
| 7. Leather cushion buffer       | 21. Strap complete with hooks        |
| 8. Gland cap                    | 22. Strap hook 2 pcs                 |
| 9. O'ring 9x2 for gland bush    | 23. N.R.V. spring                    |
| 10. Gland bush                  | 24. Stainless steel ball 6.35mm      |
| 11. O'ring 8x2 for piston tube  | 25. Washer 13 x 11 x 3               |
| 12. Stainless steel ball 7.15mm | 26. Tank strainer                    |
| 13. Piston and delivery valve   | 27. Extension lance 500mm (extra)    |



# **THE HOBRA 18 KNAPSACK SPRAYER INSTRUCTION MANUAL AND LIST OF SPARE PARTS.**

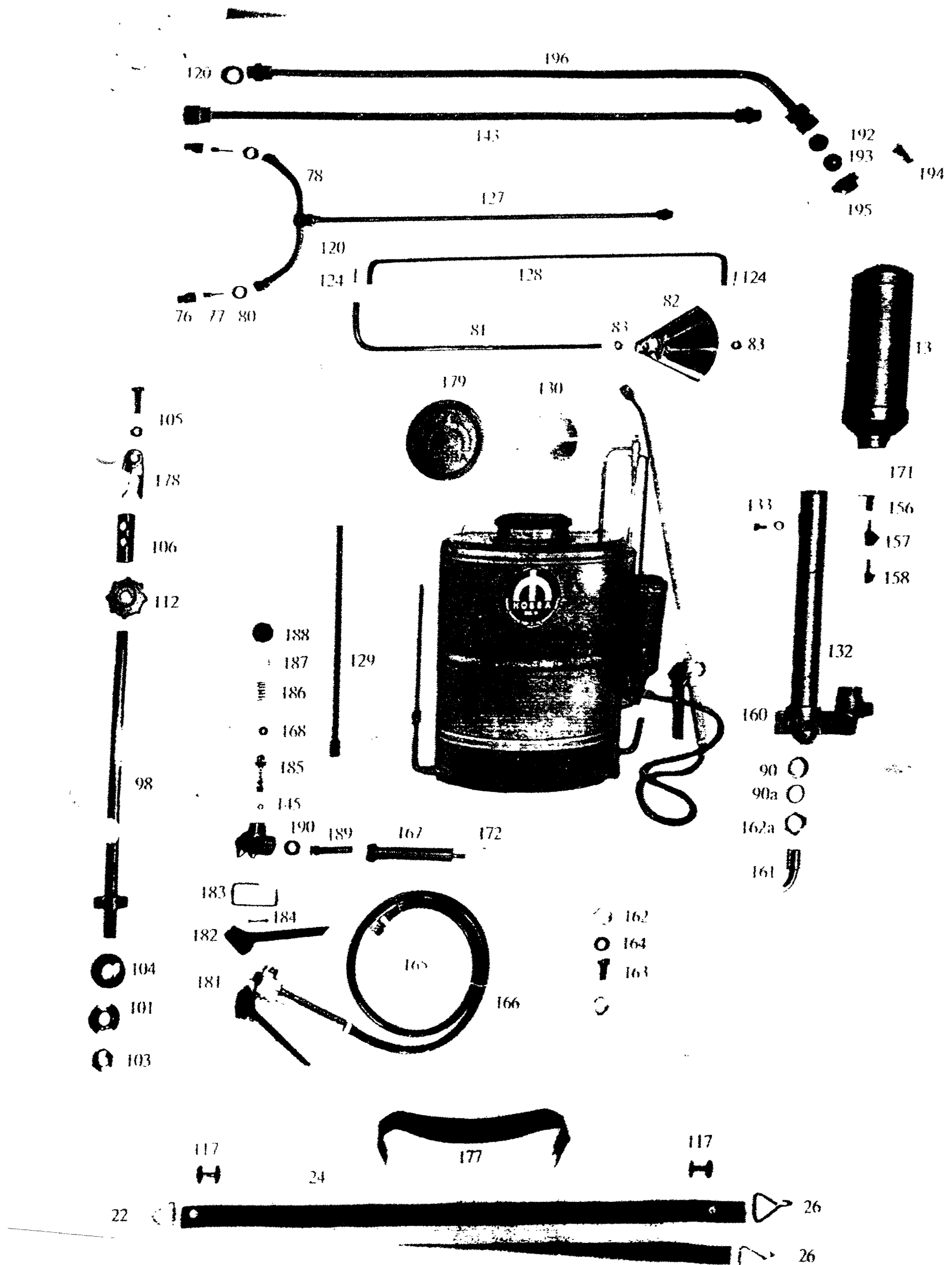


**BOMBA LA KUNYUNYIZIA LA HOBRA 18  
MAELEZO YA KUTUMIA NA ORODHA YA VIPURI VYAKE**

**LE PULVERISATEUR A DOS HOBRA 18  
MANUEL D'ENTRETIEN ET LISTE DE PIÈCES DE RECHANGE**

**EL PULVERIZADOR PORTATIL HOBRA 18  
MANUAL DE INSTRUCCIONES Y LISTA DE PIEZAS DE RECAMBIO**

**HOBRA MANUFACTURING LIMITED,  
NAIROBI OFFICE: P.O. BOX 4340, NAIROBI  
TEL: 561164 TELEX: 25572 ODC KE  
FACTORY: MOI SOUTH LAKE ROAD  
P.O. BOX 289, NAIVASHA.**



OUTSTANDING FEATURES:

- a) All parts which come into contact with spray liquid are brass with soldered joints to prevent corrosion
- b) All working parts are mounted externally - all easily accessible
- c) An agitator connected to the pumping system provides continual mixing of contents during operation. This is particularly useful when applying wettable powder formulations
- d) Output pressure of up to 100 p.s.i. (7 bars) maintained with ease
- e) Designed for left-handed or right-handed operators

YANAYOVUTIA ZAIDI:

- a) Schemu zote zinazogusana na mchanganyiko unaoonyviziwa ni za shaba na chumvi vimewa usiku kutua kuto
- b) Schemu zote zinazotumika zime wakwa kwa njia na hutofu wa kwa urahisi
- c) Kichanganayo kilichounganishwa na pampu huinguka wakati wote kukusaga mchanganyiko mmoja wa kila kinaunviziwa kina potomoka. Hiki ni cha muhimu unapoumewa mchanganyiko wa unga na maji
- d) Nguvu ya pumzi hadi enofa usi hadi 100 Bars (7) hudumishwa kwa urahisi
- e) Imetengenezwa kutumwe kwa mkono wa kulia au wa kushoto

CARACTERISTIQUES PARTICULIERES:

- a) Toutes les parties en contact avec liquide sont en cuivre à pointures soudées contre la corrosion
- b) Toutes les parties pratiques sont montées à l'extérieur et sont d'accès facile
- c) L'Agitateur spécial fournit un mélange des contenus pendant l'opération du système de pompage. C'est très pratique surtout quand il s'agit des formulations de poudre mouillable
- d) Des pressions montent jusque à 7 Bars (10) pourvus sans aucun problème
- e) Manufacturé spécialement pour les opérateurs gauchers ou droitiers

DATOS MAS RELEVANTES:

- a) Todas las piezas que se ne en contacto con el liquido pulverizador son de latón con puntas soldadas para prevenir la corrosión
- b) Todas las piezas del funcionamiento están montadas externamente y fácilmente accesibles
- c) Un agitador conectado al sistema de bombeo provee la continua mezcla del contenido durante su funcionamiento. Es muy particularmente útil al aplicar formulas de polvo humedecibles
- d) Capacidad de presiones de hasta 100 p.s.i. (7 Bars) que se mantiene con facilidad
- e) Diseñado para operadures zurov o diestros

INSTRUCTIONS FOR USE

- Assembly Put the correct gasket from the packet of spare parts into the spray lance, and then screw the spray lance into the trigger valve. Screw pump handle onto pump shaft on either the left or right side
- Oiling BEFORE USE OIL THE FOLLOWING PARTS LIBERALLY
  - Oil pump piston rubber through the two holes in the pump cylinder cap
  - Oil pump shaft through the two holes in the bushes
  - Oil agitator shaft where it passes through the top of the tank
- Operation Fill sprayer. Pump the handle. Press the trigger valve. Pump faster to achieve higher pressure
- Maintenance After use wash sprayer with clean water and flush hose and lance by pumping water through the system
- Oil the piston cylinder, pump shaft and agitator irregularly
- Precautions Do not spray compounds containing Mercury and Ammonia or has sublimates, sodium arsenite and ammonium compounds. Do not use chemicals containing corrosive acids. Do not leave chemicals in the sprayer overnight

JINSI YA KUTUMIA

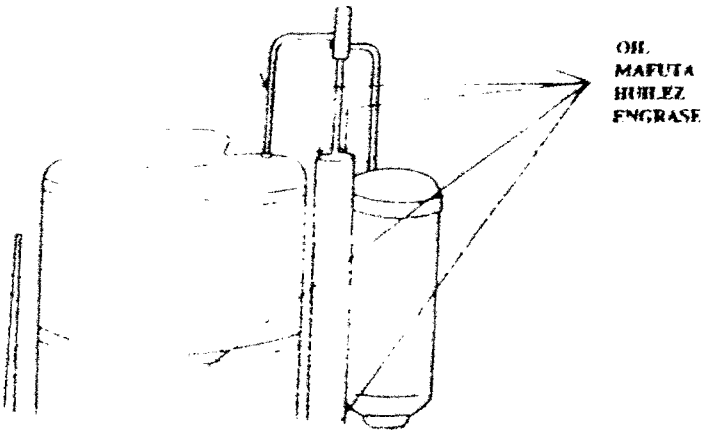
- Kuangansa KABLA YA KUTUMIA TIA MAFUTA YA KUTOSHA SEHEMU ZIUA LA/O
  - Tia mafuta kwa pampu mkono unaoshika mpira kugusa vidimo vya ndani ya kitaniko cha chumba cha pampu
  - Tia mafuta mdale wa pampu kwa vidimo vya kwenye bushes
  - Tia mafuta mdale wa kichanganayo unapopita njia ya mungu
- Kukitumia Tia mungu. Puhiza pumzi kwa pampu. Bombeza uhungu. Piga pampu upesi zaidi ili pawe na pumzi mpya
- Kuitunza Baada ya kukitumia kuyonyiza kioche kwa maji safi na kuware mferiji wa mpira na fimba ya mpira kwa kupuliza maji kwenye mpira wote
- Jihadhari Tia mafuta kizimba cha kivotio pamoja na mdale wa pampu na kichanganayo mara kwa mara
- Jihadhari Juvunviziwa mchanganyiko wenye "Mercuriv na "Amoma kama sublimat" sodium arsenite" na mchanganyiko wa ammonia. Tiatumie madawa venye asidi au avetiwa kutu
- Jihadhari Huache madawa yalaye kucha ndani ya kinaunviziwa

INSTRUCTIONS D'EMPLOI

- Montage Sertez le joint convenable et posez le à la tache ensuite vissez le à la soupape de détente. Vissez la manche de pompe à la tige de pompe ou de vite gauche ou du cote droit
- Huilage AVANT D'EMPLOYER HUILEZ LIBERALEMENT LES PARTIES SUIVANTES
  - Huilez le caoutchouc à travers les deux trous dans la capsule du cylindre. Huilez la tige de pompe à travers les deux trous dans les bagues. Huilez la manche de l'agitateur là où elle traverse le couvercle du récipient
- Mode d'emploi Remplissez le pulvérisateur. Pompez la manche. Appuyez sur la soupape de détente. Pompez assez vite pour arriver à une très haute pression
- Mainien Après chaque emploi nettoyez votre pulvérisateur à l'eau propre et nettoyez le tuyau à grande en pompant à travers le système entier. Huilez régulièrement le cylindre du piston, la tige de pompe et l'agitateur
- Précautions Ne pulvérisiez pas de composés contenant le Mercure et l'Ammoniaque tels que le Sublimé, l'arsénite de sodium et les composés ammoniacaux. N'Utilisez pas de produits chimiques contenant les acides corrosifs. Ne laissez pas les produits chimiques dans votre pulvérisateur pendant la nuit

INSTRUCCIONES PARA EL USO:

- Montaje Encaja la pieza correcta (del paquete de piezas de repuesto) en el lanzador y luego enrosca el lanzador dentro de la válvula de disparo. Enrosca el mango de la bomba en una de las
- Engrase ANTES DE USARLO ENGRASE GENEROSAMENTE LAS SIGUIENTES PIEZAS
  - Engrase la goma del pistón de la bomba a través de los dos agujeros de la capota del cilindro de la bomba
  - Engrase el eje de la bomba a través de los dos agujeros de las escobillas
  - Engrase el eje del agitador por donde pasa a través de la parte superior del depósito
- Funcionamiento Rellene el pulverizador. Bombee el mango. Comprima la válvula del disparador. Bombee más rápidamente para alcanzar una presión más alta
- Mantenimiento Después de su uso lavar el pulverizador con agua limpia y limpiar a chorro la manguera y el lanzador bombeando el agua a través de todo el sistema
- Precauciones Engrase el pistón de cilindro, bombee regularmente el eje y la varilla del agitador
- Precauciones No pulverice mezclas que contengan Mercurio, Ammonia o como sublimado, sodio arsenito y compuestos del amoníaco. No usar productos químicos que contengan ácidos corrosivos
- Precauciones No deje productos químicos en el pulverizador durante la noche



**UNITED NATIONS ASSISTANCE MISSION FOR RWANDA  
KIGALI - RWANDA**

**PURCHASE ORDER**

**NO.**

**MIR5-1500**

Req. No. LOG/HQ 20340	Account Code RNA 30310 513	Amount US\$1,890.20	<b>IMPORTANT</b> ALL SHIPMENTS ALL INVOICES ALL CORRESPONDENCE MUST SHOW THIS NUMBER Date: 24 May 1995
Requisitioner LOGISTICS SECTION	Freight Account	US\$555.60	
To: EXPORT TRADING CO. LTD WOODLAND ROAD, P.O. BOX 57661 FAX: 726943, TEL: 721 889, 722626/7 Nairobi, Kenya.		Deliver to: CAO, UNAMIR UNAMIR WAREHOUSE (TRAFIPRO) KIGALI, RWANDA.	

Item No.	Articles or Services	Quantity	Unit	Unit Price	Amount
As per your Proforma No. 4028 dated 10 May 1995 Please deliver following items.					
01	NDOGO 5 sprayer complete.	20	Ea	32.25	645.00
02	HOBRA 18 Knapsack sprayer complete	11	Ea	113.20	1,245.20
	Transport from nbl to Kigali .....				500.00
	Insurance .....				55.80
<b>Note to vendor:</b> Delivery: 9 June 1995 Mark Shipment as follows: UNAMIR Headquarters P.O. MIR5-1500 - LOG/HQ-20340 UNAMIR Warehouse (Trafipro) Kigali, Rwanda. Attn: Logistics  Payment: To be made by cheque in US Dollars within 15 30 days after complete/satisfactory delivery and the receipt of certified invoice with all supporting documents.  1. strict adherence to the special instructions to vendors & special conditions, attached hereto and made part hereof as annex "B", is required. 2. The terms and conditions for United Nations, general contracts, attached hereto as annex "A" are made a part hereof by reference. Buyer Kym Shawe, Ext 15106					
<b>TOTAL CIF</b>					<b>US\$2,446.00</b>

UNAMIR  
 FINANCE SECTION  
 OBLIGATED/RECORDED/RECEIVED  
 1995 MAY 21 10:06

**HUGO VALDES**  
 CHIEF PROCUREMENT OFFICER

**UNITED NATIONS ASSISTANCE MISSION FOR RWANDA  
KIGALI - RWANDA**

**PURCHASE ORDER**

**NO.**

**MIR5-1501**

Req. No. LOG/HQ 20340	Account Code RNA-30310 513	Amount US\$453.64	<b>IMPORTANT</b> ALL SHIPMENTS ALL INVOICES ALL CORRESPONDENCE MUST SHOW THIS NUMBER Date: 24 May 1995
Requisitioner: LOGISTICS SECTION	Freight Account	US\$95.00	
To: SOGIL (PTY) LTD. JOHANNESBURG, JEPPESTOWN 2043 FAX: 27-011-402 0102, TEL: 27-011-402 4230 Alt.: REPUBLIC OF SOUTH AFRICA.		Deliver to: CAO, UNAMIR UNAMIR WAREHOUSE (TRAFIPRO) KIGALI, RWANDA.	

Item No.	Articles or Services	Quantity	Unit	Unit Price	Amount
	As per your Proforma No. 2101/03/95 dated 10 May 1995. Please deliver following items.			US\$	US\$
01	Respirator, type R744D half mask (Double cartridge) quick release	22	Ea	7.00	154.00
02	Cartridge for R744D	84	Ea	1.50	126.00
03	Dust/chemical goggle type 180 for protection against acid and chemical splash	26	Ea	2.80	72.80
04	Gloves (Neoprene & Nitrile) resistant to oil/grease/chemical/solvents, elbow length	42	Pair	2.52	105.84
	Air freight charges .....				95.00
<b>Note to vendor:</b> Delivery: 15 June 1995 Mark Shipment as follows: UNAMIR Headquarters P.O. MIR5-1501 - LOG/HQ-20340 UNAMIR Warehouse (Trafipro) Kigali, Rwanda. Attn: Logistics  Payment: To be made by cheque in US Dollars within 15-30 days after complete/satisfactory delivery and the receipt of certified invoice with all supporting documents.  1. strict adherence to the special instructions to vendors & special conditions, attached hereto and made part hereof as annex "B", is required. 2. The terms and conditions for United Nations, general contracts, attached hereto as annex "A" are made a part hereof by reference.  Buyer: Kyri Stowe, Ext 15106					
TOTAL DDU					US\$553.64

UNAMIR  
 FINANCE SECTION  
 OBLIGATED/RECORDED/RECEIVED  
 1995 MAY 27 10:06

  
**HUGO VALDES**  
 CHIEF PROCUREMENT OFFICER



UNAMIR - MINUAR

HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 638/95

→ To: FMO  
From: FHO  
Date: 15 Jun 95

Handwritten notes: "How to mod" and "Ode2."

Subject: CONSIDERATIONS ON REPATRIATION OF UN FACILITIES PRIOR TO HANDOVER

1. A number of factors, from a health viewpoint, will need to be considered to ensure that a streamline approach to the repatriation of UN utilised facilities occurs prior to handover to the appropriate authorities.
2. Details of the factors are as follows:
  - a. De-commissioning of deep trench latrines to ensure contamination to the environment does not occur.
  - b. Removal of all rubbish and sanitary closing of any refuse pits.
  - c. Pump out of any sullage or septic tank system within the facilities.
  - d. Return/reallocation of medical stores/equipment into central UNAMIR stores.
  - e. Return/reallocation of UNAMIR owned pvnt med assets.
  - f. Residual treatment of buildings if time and resources permit.
  - g. Provision of a clearance certificate indemnifying the UN of further costs.
3. WO2 Attard will be able to furnish the technical data on closing of facilities and may also have added points.

1. A good start  
2. ph Hunk.



**CORRESPONDENCE DISTRIBUTION**  
**COVER SHEET**

File No: 775-2-1

To: FMO      Remarks/Action: X 17/4.

~~Med Ops~~

~~Med Log~~

X FHO

1. Add date when action complete then pass quickly



UNAMIR - MINUAR

**INTER-OFFICE MEMORANDUM**

13 June 1995

**TO:** Col. R. Manzl, DHAC

**INFO:** Mr. J. Karlsson, FSACoord.  
Mr. W. Clive, CISS  
Mr. M. Lessanu, TOM  
Mr. B. McKechnie CAA4

**FROM:** Mr. G. Brière, CMCO *Brière*

**SUBJECT:** KIGALI MARKET - SEPTIC TANK

1. Under the terms of the new contract, we have a very limited budget and after discussions with CISS, it has been decided not to entertain these requests in future. Please ensure that this information is conveyed to your contact at the Health Department.
2. Should you have any questions regarding this decision please contact the CMC at 11138.

*HANNA*  
*SEND A COPY TO*  
*THE FOREST HEALTH OFFICER*  
*WITH ALL ATTACHMENTS*  
*[Signature]*  
*June 16th 1995*

UNAMIR - MINUAR

WORK ORDER REQUEST

CUSTOMER #  
F.S.A.#  
CMC#

DATE OF REQUEST: 12/6/95  
Description of work. (Attach sheet if necessary)

WORK LOCATION: Kigali Centre Market

See annexed copy -  
req. by. Health Department

Point of contact: D Mac HQ Phone/Call Sign 11250 FSA Sign [Signature]

Priority of work: ☐ Flash ☐ Immediate ☒ Urgent ☐ Routine

Requested completion date:

<b>TASK ORDER MANAGER (Only)</b>		Task WO number: _____	
Priority of work:	<input checked="" type="checkbox"/> 2 Days <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> 21 Days Plus		
Detailed Cost reporting required:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Comments: _____ _____ _____ _____			
Task Order Manager: _____		Date: _____	
FSA Coordinator: _____		Date: _____	

<b>CONTRACT MANAGEMENT CELL (Only)</b>		Work order # _____	
Cost Estimate:	<input type="checkbox"/> No Cost Estimate required <input checked="" type="checkbox"/> Need Detailed Cost Estimate Provide estimate in _____ day(s) <input type="checkbox"/> Need Rough Estimate Provide estimate in _____ day(s)		
Action:	<input type="checkbox"/> Do not begin work until directed by The Contract Administrator. <input type="checkbox"/> Begin work immediately.		
Comments: _____ _____ _____ _____			
AUTHORISED BY: _____		(G. Briere, CMC)	
		DATE: _____	

DUTY OFFER		
DUTY OFFER		
CC		

LI PREFECTURE

BOX 2285

KIGALI-RWANDA

08/06/1995

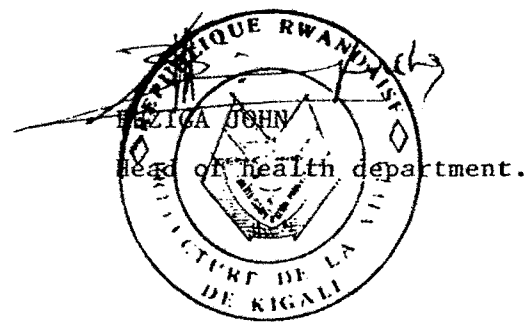
*CHAC*

UNAMIR  
KIGALI-RWANDA  
REPRESENTATIVE

RE : ASSISTANCE OF CESSPIT EMPTIER VEHICLE

We appeal for assistance of cesspit Emptier vehicle to empty Toilet cesspits of Kigali Centre Market which is full of sewage, because it can cause epedermic disease if it is not emptied.

Thanking you in advance.




*UNAMIR  
HL-24  
Mr. Boyd  
CMC*



UNAMIR - MINUAR

HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 636/95

To: AUS MED  
From: FMO   
Date: 15 Jun 95  
Subject: HEALTH TASKING REQUEST - AUS MED

1. It is requested that AUS MED conduct health support to sector 4C ZAMBATT. 26-28
2. Details of the tasking is as follows:
  - a. evaluation of the extent of mosquito breeding within the Bn area and implementation of control measures if necessary;
  - b. implementation of a control program to flying ants;
  - c. Treatment to control crawling insects; and
  - d. evaluation of potability of water supply.
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.

HQ + S Coy

Spray HQ.

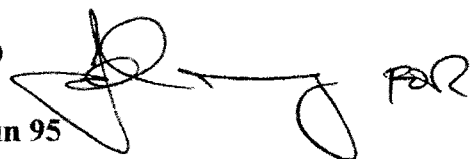
Fax - Patient Ausmed.

PTE BUKOWA.



UNAMIR - MINUAR

→ HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 635/95


**To:** AUS MED  
**From:** FMO   
**Date:** 15 Jun 95  
**Subject:** HEALTH TASKING REQUEST - AUS MED

1. It is requested that AUS MED conduct health support to sector 1 NIBATT.
2. Details of the tasking is as follows:
  - a. evaluation of the extent of mosquito breeding within the Bn area and implementation of control measures if necessary;
  - b. implementation of a control program to control bees; and
  - c. evaluation of potability of water supply.
3. The requirement for this spraying task is due to the inability to procure spare parts for Bn equipment. NIBATT Hlth pers will be able to assist with the control program.
4. Humanitarian Health assistance to the orphanage and hospital adjacent to the Byumba location is authorised.
5. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.



UNAMIR - MINUAR

→ HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 634/95

**To:** AUS MED  
**From:** FMO   
**Date:** 15 Jun 95  
**Subject:** HEALTH TASKING REQUEST - AUS MED

1. It is requested that AUS MED conduct health support to Force Commanders Residence and 95 FLSG.
2. Details of the tasking is as follows:
  - a. evaluation of the extent of mosquito breeding within the complex and implementation of control measures if necessary; and
  - b. evaluation of potability of water supply.
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.

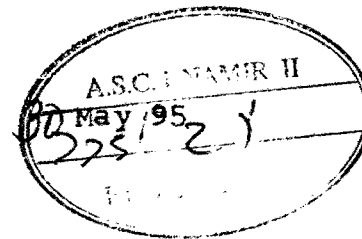


UNAMIR

UNITED NATIONS ASSISTANCE MISSION FOR RWANDA



300/UNAMIR/11/Q



From : INDBATT

To : 95 FLSG


Info : G4 Logistics

: FMO, UNAMIR HQ ✓

SUBJECT : CHLORINATION : WATER

1. The drinking water supplied to Indbatt is being tested for residual chlorine by our Health Staff.
2. The residual chlorine content checked from 25 May 95 till date has been 5 PPM which is much above the consumable residual chlorine.
3. Necessary action may please be taken at your end to ensure the optimum chlorine content in drinking water for the troops.

*RESUMED PRE TASKING.  
0750 TO HQ REQ ANSWER  
BY HQO VERBAK. J. 3/5.*


  
(Debashish Pal)  
Captain  
Logistics Officer  
for CO INDBATT





UNAMIR - MINUAR

→ HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 623/95

**To:** AUS MED  
**From:** FMO   
**Date:** 12 Jun 95  
**Subject:** HEALTH TASKING REQUEST - AUS MED

1. It is requested that AUS MED conduct health support to MALAWICOY.
2. Details of the tasking is as follows:
  - a. evaluation of the extent of mosquito breeding within the complex and implementation of control measures if necessary;
  - b. assessment and advise to MALAWICOY on matters of food hygiene; and
  - c. evaluation of potability of water supply.
3. Equipment for the task can be transported by 95 FLSG, when they deploy in support of MALAWICOY.
4. AUSMED pers are authorised to deploy by helo with the expected duration of the task to be four hours.
5. Point of contact at 95 FLSG is the OPS OFFR.
6. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.



UNAMIR - MINUAR

→ HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 620/95

**To: AUS MED**

**From: FMO**

A handwritten signature in black ink, appearing to be 'FMO', written over the 'From: FMO' text.

**Date: 12 Jun 95**

**Subject: HEALTH TASKING REQUEST - AUS MED**

1. It is requested that AUS MED conduct health support to Belgium Village.
2. Details of the tasking is as follows:
  - a. evaluation of the extent of mosquito breeding within the complex and implementation of control measures if necessary; and
  - b. evaluation of potability of water supply.
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.



UNAMIR - MINUAR

HQ UNAMIR MED BR  
→ FILE: 775-2-1  
MED 619/95

**To: AUS MED**

**From: FMO**

**Date: 12 Jun 95**

**Subject: HEALTH TASKING REQUEST - AUS MED**

1. It is requested that AUS MED conduct humanitarian health support in Sect 1 and Sect 4A.
2. The tasking has resulted from a request from the World Health Organisation following a solicitation for technical assistance from SOS Kinderdorf Gikongoro.
3. Details of the tasking is as follows:
  - a. evaluation of possible health threats within orphanages;
  - b. evaluation of adequacy and potability of water supply; and
  - c. assessment of necessity for pest control and if required conduct of an effective control program to target pests.
4. The orphanage's children have been assessed by WHO as being infected by scabies and lice. WHO has provided SOS with technical information on preventive measures, as well as requirements to control the pathology, and has secured from Pharmaciens sans Frontier - Butare the necessary curative medication for the skin lesions.
5. Location of orphanages are as follows:
  - a. Ngarama, Ngarama sub-prefecture, Byumba Prefecture (GR 2629 black); and
  - b. Gikongoro (GR 5227 black).
6. Points of contact are Dr George Ionita, WHO - ph 7682/ext 21 and Mr Alfred, SOS Kinderdorf Rwanda - ph 30702.
7. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.



UNAMIR - MINUAR

HQ UNAMIR MED BR  
FILE: 775-2-1  
MED 580/95

To: SO FOOD

From: CAPT JOHN NERNEY  
FHO

Date: 29 May 95

Subject: INTERPRETATION OF RESULTS - GERMAN RATION PACKS

1. Samples of German Ration Packs were forwarded by SO FOODS UNAMIR to SGS Kenya Limited on 5 May 95 for laboratory analysis to determine if they are fit for human consumption.
2. The laboratory reports are attached to this memo, with a summary of the results listed in the following table:

Serial	ITEM	TYPE	SER No	RESULTS
(1)	MRE Hamburger/Tomatoe	I	3,903	Unobjectionable
(2)	MRE Erbesen Eintopf	I	3,903	<i>Microbiological Contamination</i>
(3)	MRE Baverntopf	II	3,902	Unobjectionable
(4)	MRE Schweifleisch	II	3901-02	<i>Microbiological Contamination</i>
(5)	MRE Linsceneintopf	III	3,901	<i>Microbiological Contamination</i>
(6)	MRE Goulasch	IV	3,904	<i>Microbiological Contamination</i>
(7)	MRE Italienisches	IV	3,904	Unobjectionable
(8)	Biscuits	I-II-III-IV	3848-51	<i>Yeasts/Mould Present</i> <i>Microbiological Contamination</i>
(9)	Coffee Extract	I-II-III-IV	3856-59 3916-19	Characteristic
(10)	Jam	I-II-III-IV	3874-77	<i>Microbiological Contamination</i>
(11)	Chocolate	I-II-III-IV	3880-83	<i>Microbiological Contamination</i> <i>Yeasts/Mould Present</i> <i>Objectionable Taste/Appearance</i>
(12)	Sugar	I-II-III-IV	3852-55	Normal
(13)	Water Treatment Tablet	I-II-III-IV	3841-2, 3846-7	Normal
(14)	Spread	I-II-III-IV	3884-87	<i>Microbiological Contamination</i>
(15)	Coffee Whitener	I-II-III-IV	3860-63	<i>Objectionable Taste/Smell</i> <i>Yeast/Mould Present</i>

Serial	ITEM	TYPE	SER No	RESULTS
(16)	Instant Fruit Drink	I-II-III-IV	3868-71	<i>Microbiological Contamination</i>
(17)	Tea Extract	I-II-III-IV	3864-67 3912-15	<i>Yeast/Mould Present</i>

3. Analysis by SGS revealed that adverse results were recorded against eleven of the seventeen ration components examined, most of the major components of the ration has been compromised.
4. Adverse results were in the areas of microbiological contamination, growth of mould and yeast, as well as objectionable taste, smell and appearance.
5. As the Force Health Officer, it is my professional opinion that the German Combat Rations currently held within UNAMIR are **"UNFIT FOR HUMAN CONSUMPTION"**.
6. The statement that the Rations are **"UNFIT FOR HUMAN CONSUMPTION"** is based on the following points:
  - a. Laboratory analysis confirms that breakdown in the rations has occurred and integrity of the product has been compromised;
  - b. The German Ration packs are past their use by date by three to five years;
  - c. Some rations are contaminated by weevils;
  - d. The nutritional value of the rations cannot be guaranteed; and
  - e. Incomplete history/record of the shipment and storage of the rations.
7. As a result of laboratory analysis and detailed research it is my recommendation that the German Combat Ration packs, currently held within UNAMIR, should not be issued to Units as they are unfit for human consumption and if consumed could have detrimental health effects on UNAMIR personnel.



LABORATORY SERVICES  
Jubilee Insurance Building  
Moi Avenue  
P.O. Box 90264  
Mombasa, Kenya.  
Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

Test Report No. 95/1017A(1)

SERIAL No. TR/ No. 3841

RODUCT : COMBAT RATION (WATER TREATMENT TABLETS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST	METHOD	RESULTS	
		A	B
Chlorine content % by wt	ASTM D 2022	24.55	25.21
*****			

/jnk

May 16, 1995

THIS REPORT REFERS TO  
SUBMITTED SAMPLE AND ALL  
DETAILS IN REPE  
QUANTITIES & MARKS  
VERIFIED OR CONFIRMED.

For and on behalf of SGS Kenya Limited

DOMINIC M. MUREITHI  
LABORATORY MANAGER

Member of the SGS Group ( Societe Generale de Surveillance )



LABORATORY SERVICES  
Jubilee Insurance Building  
Moi Avenue  
P.O. Box 90264  
Mombasa, Kenya.  
Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

Test Report No. 95/1017A(2)

SERIAL No. TR/ No. 3842

PRODUCT : COMBAT RATION (WATER TREATMENT TABLETS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST	METHOD	RESULTS	
		A	B
Chlorine content % by wt	ASTM D 2022	27.00	27.25
*****			

/jnk

May 16 1995

THIS REPORT REFERS TO A  
SUBMITTED SAMPLE AND ALL  
DETAILS IN REFERENCE TO  
QUANTITIES & MARKS ARE NOT  
VERIFIED OR CONFIRMED.

For and on behalf of SGS Kenya Limited

DOMINIC M. MUREITHI  
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Mombasa, Kenya.  
Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

**Test Report No.**

95/1017A(3)

SERIAL No. TR/ **No. 3846**

PRODUCT : COMBAT RATION (WATER TREATMENT TABLETS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Available Cl % by wt	ASTM D 2022	28.24	28.24
	*****		

/jnk

May 16, 1995

THIS REPORT REFERS TO A  
SUBMITTED SAMPLE AND ALL  
DETAILS IN TYPE AND SOURCE  
QUANTITIES & MARKS ARE NOT  
VERIFIED OR CONFIRMED.

For and on behalf of SGS Kenya Limited

DOMINIC MUREITHI  
LABORATORY MANAGER

Member of the SGS Group (Societe Generale de Surveillance)





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Cables: Supervise  
Telefax: 21276

UNAMIR

**Test Report No.**

95/1017A(4)

SERIAL No. TR/ No. **3847**

PRODUCT : COMBAT RATION (WATER TREATMENT TABLETS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Chlorine Content % by wt	ASTM D 2022	27.50	27.74

\*\*\*\*\*

/jnk

May 16, 1995

THIS REPORT REFERS TO A  
SUBMITTED SAMPLE AND ALL  
DETAILS IN RESPE  
QUANTITIES & MARKS ARE NOT  
VERIFIED OR CONFIRMED.

For and on behalf of SGS Kenya Limited

DOMINIC MUREITHI  
LABORATORY MANAGER

Member of the SGS Group ( Societe Generale de Surveillance)



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Mombasa, Kenya.  
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Cables: Supervise  
Telefax: 21276

UNAMIR

**Test Report No.**

95/1017B(1)

SERIAL No. TR/ **No. 3848**

PRODUCT : COMBAT RATION (BISCUITS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	20
Total Plate Count (colonies/gm)	" "	NIL	30
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection Limit 5ppb)	
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"

\*\*\*\*\*

THIS REPORT REFERS TO A  
SUBMITTED SAMPLES AND ALL  
DETAILS IN PIPE SOURCE,  
QUANTITIES & MARKS ARE NOT  
VERIFIED OR CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

DOMENICO M. MURETTI  
LABORATORY MANAGER

Member of the SGS Group (Societe Generale de Surveillance)



LABORATORY SERVICES  
Jubilee Insurance Building  
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P.O. Box 90264  
Mombasa, Kenya.  
Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

**Test Report No.**

95/1017B(2)

SERIAL No. TR/ **No. 3849**

PRODUCT : COMBAT RATION (BISCUITS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection Limit 5ppb)	
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"

\*\*\*\*\*

THIS REPORT REFERS TO A  
SUBMITTAL FOR ANALYSIS  
DET. NO. 95/1017B(2) OF 5TH MAY 1995  
QUANTITATIVE ANALYSIS ARE NOT  
VERIFIED OR CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

DOMINIC MUREITHI  
LABORATORY MANAGER

Member of the SGS Group (Société Générale de Surveillance)



LABORATORY SERVICES  
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Moi Avenue  
P.O. Box 90264  
Mombasa, Kenya.  
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Telefax: 21276

UNAMIR

**Test Report No.**

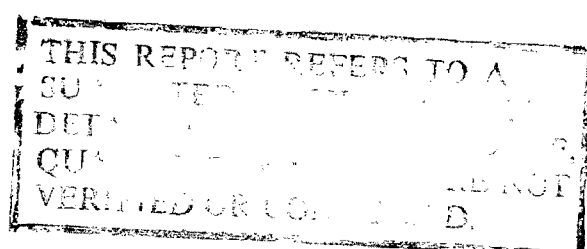
95/1017B(3)

SERIAL No. TR/ No. **3850**

PRODUCT : COMBAT RATION (BISCUITS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	3
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection Limit 5ppb)	
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"

\*\*\*\*\*



/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

DOMINIC M. MUREITHI  
LABORATORY MANAGER

Member of the SGS Group (Societe Generale de Surveillance)



LABORATORY SERVICES  
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Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

**Test Report No.**

95/1017B(4)

SERIAL No. TR/ **No. 3851**

PRODUCT : COMBAT RATION (BISCUITS)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	1	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection Limit 5ppb)	
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"

\*\*\*\*\*

THIS REPORT REFERS TO A  
SUBMITTED SAMPLES AND ALL  
DETAILS IN REFERENCE TO SOURCE,  
QUANTITIES & MARKS ARE NOT  
VERIFIED OR CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

DOMINIC M. MUREITHI  
LABORATORY MANAGER

Member of the SGS Group (Societe Generale de Surveillance)



LABORATORY SERVICES  
Jubilee Insurance Building  
Moi Avenue  
P.O. Box 90264  
Mombasa, Kenya.  
Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

95/1017C(1)

**Test Report No.**SERIAL No. TR/ **No. 3852**

PRODUCT : COMBAT RATION (SUGAR)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Appearance	Visual	Normal	Normal
Acidity % by wt as Citric acid	AOCS 3a-63	<0.01	<0.01
Taste	Organoleptic	Normal	Normal
Smell	"	"	"
Moisture % by wt	AOAC 925.45B	0.01	0.03

\*\*\*\*\*

THIS REPORT REFERS TO A  
EDUCATED JUDGE AND ALL  
DETERMINED BY SOURCE,  
QUANTITIES NOT  
VERIFIED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

DOMINIC M. MUREITHI  
LABORATORY MANAGER

Member of the SGS Group (Société Générale de Surveillance)



LABORATORY SERVICES  
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Mombasa, Kenya.  
Telephones: 315271  
Cables: Supervise  
Telefax: 21276

UNAMIR

**Test Report No.**

95/1017C(2)

SERIAL No. TR/ **No. 3853**

PRODUCT : COMBAT RATION (SUGAR)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	1
Appearance	Visual	Normal	Normal
Acidity % by wt as Citric acid	AOCS 3a-63	<0.01	<0.01
Taste	Organoleptic	Normal	Normal
Smell	"	"	"
Moisture % by wt	AOAC 925.45B	0.08	0.69

\*\*\*\*\*

NOT REPEATED  
WITH SAMPLE A  
IN THE  
PLANT TO A REASON  
RIFIED TO CONFIRM

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017C(3)

SERIAL No. TP/ **No. 3854**

PRODUCT : COMBAT RATION (SUGAR)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Appearance	Visual	Normal	Normal
Acidity % by wt as Citric acid	AOCS 3a-63	<0.01	<0.01
Taste	Organoleptic	Normal	Normal
Smell	"	"	"
Moisture % by wt	AOAC 925.45B	0.01	0.07

\*\*\*\*\*

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DETAILS IN REPE. SOURCE,  
QUANTITIES & MARKS ARE NOT  
VERIFIED OR CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

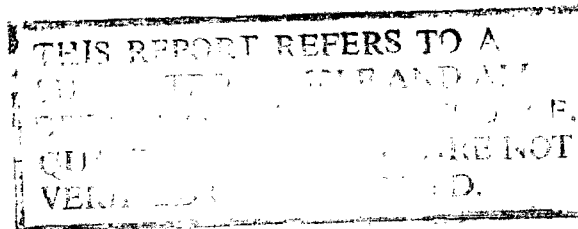
95/1017C(4)

SERIAL No. TR/ **No. 3855**

PRODUCT : COMBAT RATION (SUGAR)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Appearance	Visual	Normal	Normal
Acidity % by wt as Citric acid	AOCS 3a-63	<0.01	<0.01
Taste	Organoleptic	Normal	Normal
Smell	"	"	"
Moisture % by wt	AOAC 925.45B	0.05	0.09

\*\*\*\*\*



/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited  
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UNAMIR

**Test Report No.**

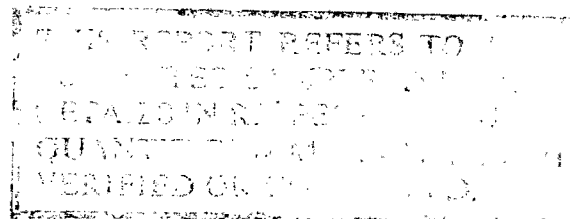
95/1017D(1)

SERIAL No. TR/ No. **3856**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free flowing powder	Brown, free flowing powder

\*\*\*\*\*



/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017D(2)

SERIAL No. TR/ **No. 3857**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free flowing powder	Brown, free flowing powder

\*\*\*\*\*

THIS REPORT REFERS TO A  
SUBMITTED SAMPLE AND ALL  
DETAILS OF THE SOURCE.  
QUALITY OF THE SAMPLES ARE NOT  
VERIFIED OR CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

95/1017D(3)

**Test Report No.**SERIAL No. TR/ **No. 3858**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free flowing powder	Brown, free flowing powder

\*\*\*\*\*

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SUBMITTED SAMPLE AND ALL  
DETAILS OF THE SOURCE  
QUANTITIES ARE NOT  
VERIFIED OR GUARANTEED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017D(4)

SERIAL No. TR/ No. **3859**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST	METHOD	RESULTS	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free flowing powder	Brown, free flowing powder

\*\*\*\*\*

THIS REPORT REFERS TO A  
SAMPLE OF THE TYPE AND ALL  
DATA IN THE REPORT ARE THE  
PROPERTY OF SGS. THE  
QUANTITIES OF THE SAMPLE ARE NOT  
VERIFIED UNLESS CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited  
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UNAMIR

**Test Report No.**

95/1017E(1)

SERIAL No. TR/ No. **3860**

PRODUCT : COMBAT RATION (COFFEE WHITENER)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Objectionable	
Smell	"	"	"
Appearance	Visual	Brown Caked Material	Brown, Caked Material

\*\*\*\*\*

THIS REPORT REFERS TO A  
SPECIFIC SAMPLE AND ALL  
DATA IN REFERENCE TO IT  
QUANTITATIVE MARKS ARE NOT  
VERIFIED OR CONFIRMED.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

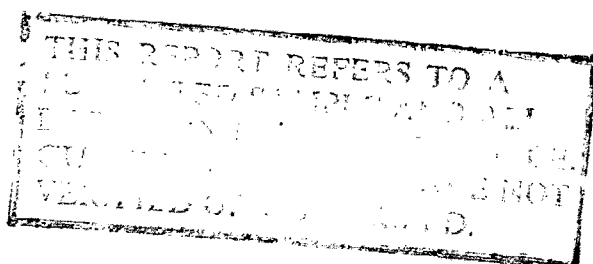
95/1017E(2)

SERIAL No. TR/ No. **3861**

PRODUCT : COMBAT RATION (COFFEE WHITENER)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	15	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Objectionable	
Smell	"	"	"
Appearance	Visual	Brown Caked Substance	Brown, Caked Substance

\*\*\*\*\*



/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

95/1017E(3)

**Test Report No.**SERIAL No. TR/ **No. 3862**

PRODUCT : COMBAT RATION (COFFEE WHITENER)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	15	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Objectionable	
Smell	"	"	"
Appearance	Visual	Brown Caked Material	Brown Caked Material

\*\*\*\*\*

THIS REPORT REFERS TO A  
SUBMITTED SAMPLE AND ALL  
DETAILS IN RESPECT THEREOF  
QUANTITATIVE & METEOROLOGICAL  
VERIFIED ON 10/05/95.

/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

95/1017E(4)

**Test Report No.**SERIAL No. TR/ **No. 3863**

PRODUCT : COMBAT RATION (COFFEE WHITENER)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	32	5
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Objectionable	
Smell	"	"	
Appearance	Visual	Brown Caked Substance	Brown Caked Substance

\*\*\*\*\*

THIS REPORT REFERS TO A  
SUGGESTED SAMPLE AND ALL  
DETAILS OF THE SOURCE,  
QUANTITIES AND ARE NOT  
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/jnk

May 16, 1995

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**Test Report No.**

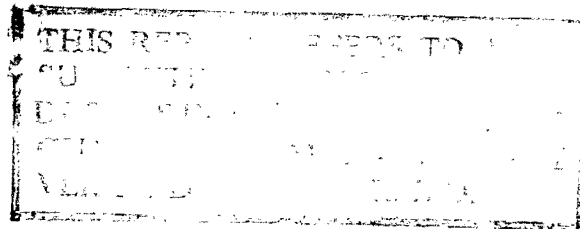
95/1017F(1)

SERIAL No. TR/ **No. 3864**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free Flowing Powder	Brown Free Flowing Powder

\*\*\*\*\*



/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

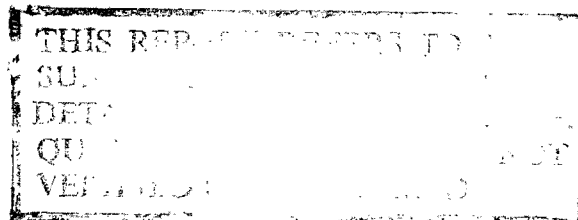
95/1017F(2)

**Test Report No.**SERIAL No. TR/ **No. 3865**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST	METHOD	RESULTS	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free Flowing Powder	Brown Free Flowing Powder

\*\*\*\*\*



/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017F(3 )

SERIAL No. TR/ No.

**3866**

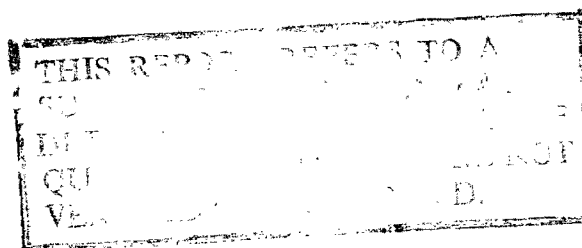
PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free Flowing Powder	Brown Free Flowing Powder

\*\*\*\*\*

/jnk

May 16, 1995



For and on behalf of SGS Kenya Limited

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UNAMIR

95/1017F(4)

**Test Report No.**SERIAL No. TR/ **No. 3867**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	2	NIL
Aflatoxin B <sub>1</sub>	Gafta 27B	Not detected (detection limit 5ppb)	
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	Brown free Flowing Powder	Brown Free Flowing Powder

\*\*\*\*\*

/jnk

May 16, 1995

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For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017G(1)

SERIAL No. TR/ **No. 3868**

PRODUCT : COMBAT RATION (INSTANT FRUIT DRINK)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	5.94	6.09
*pH	pH meter	2.32	2.22

\*\*\*\*\*

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QUANTITIES & METHODS ARE NOT  
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/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017G(2)

SERIAL No. TR/ **No. 3869**

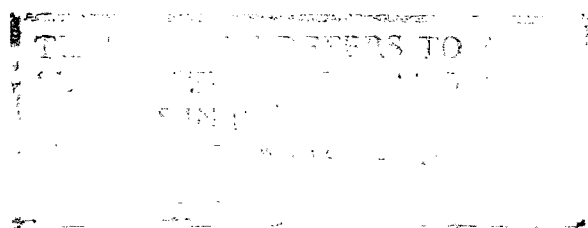
PRODUCT : COMBAT RATION (INSTANT FRUIT DRINK)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	1
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	5.72	5.93
*pH	pH meter	2.30	2.20

\*\*\*\*\*

/jnk

May 16, 1995



For and on behalf of SGS Kenya Limited  
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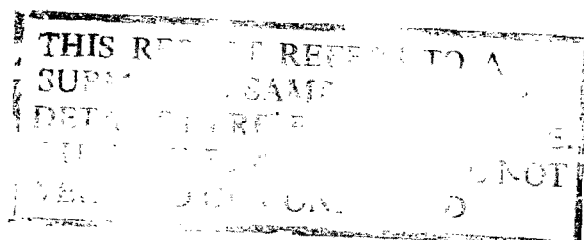
95/1017G(3)

**Test Report No.**SERIAL No. TR/ **No. 3870**

PRODUCT : COMBAT RATION (INSTANT FRUIT DRINK)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	4.77	5.12
*pH	pH meter	2.32	2.20

\*\*\*\*\*



/jnk

May 16, 1995

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UNAMIR

**Test Report No.**

95/1017G(4)

SERIAL No. TR/ **No. 3871**

PRODUCT : COMBAT RATION (INSTANT FRUIT DRINK)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	5.05	2.85
pH	pH meter	2.41	2.22

\*\*\*\*\*

/jnk

May 16, 1995

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For and on behalf of SGS Kenya Limited  
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UNAMIR

**Test Report No.**

95/1017H(1)

SERIAL No. TR/ **No. 3874**

PRODUCT : COMBAT RATION (JAM)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.83	0.96
pH	pH meter	3.17	3.16

\*\*\*\*\*

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/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

SGS Kenya Limited  
*[Signature]*

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UNAMIR

**Test Report No.**

95/1017H(2)

SERIAL No. TR/ No.

**3875**

PRODUCT : COMBAT RATION (JAM)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.85	1.04
pH	pH meter	3.25	5.26

\*\*\*\*\*

/jnk

May 16, 1995

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SGS Kenya Limited  
*[Signature]*

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UNAMIR

**Test Report No.**

95/1017H(3)

SERIAL No. TR/ No. **3876**

PRODUCT : COMBAT RATION (JAM)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	5	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	1.17	0.69
pH	pH meter	5.23	3.11

\*\*\*\*\*

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/jnk

May 16, 1995

For and on behalf of SGS Kenya Limited

S G S Kenya Limited

Member of the SGS Group (Societe Generale de Surveillance)



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UNAMIR

**Test Report No.**

95/1017H(4)

SERIAL No. TR/ **No. 3877**

PRODUCT : COMBAT RATION (JAM)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	NIL
Total Plate Count (colonies/gm)	" "	NIL	NIL
Taste	Organoleptic	Characteristic	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.93	1.06
pH	pH meter	3.26	3.27

\*\*\*\*\*

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May 16, 1995

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*[Signature]*

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UNAMIR

**Test Report No.**

95/1017I(1)

SERIAL No. TR/ **No. 3880**

PRODUCT : COMBAT RATION (CHOCOLATE)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	10	NIL
Total Plate Count (colonies/gm)	" "	13	NIL
Taste	Organoleptic	Objectionable	
Smell	"	Characteristic	
Appearance	Visual	Objectionable	
Acidity % by wt as Citric Acid	AOCS 3a-63	0.40	0.53
pH (on 10% Aqueous sol.)	pH meter	5.40	5.42

\*\*\*\*\*

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May 16, 1995

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UNAMIR

**Test Report No.**

95/1017I(2)

SERIAL No. TR/ **No. 3881**

PRODUCT : COMBAT RATION (CHOCOLATE)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	10	NIL
Total Plate Count (colonies/gm)	" "	5	4
Taste	Organoleptic	Objectionable	
Smell	"	Characteristic	
Appearance	Visual	Objectionable	
Acidity % by wt as Citric Acid	AOCS 3a-63	0.41	0.46
pH (on 10% Aqueous sol.)	pH meter	5.75	5.88

\*\*\*\*\*

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UNAMIR

95/1017I(3)

**Test Report No.**SERIAL No. TR/ **No. 3882**

PRODUCT : COMBAT RATION (CHOCOLATE)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	2
Total Plate Count (colonies/gm)	" "	64	52
Taste	Organoleptic	Objectionable	
Smell	"	Characteristic	
Appearance	Visual	Objectionable	
Acidity % by wt as Citric Acid	AOCS 3a-63	0.44	0.43
pH (on 10% Aqueous sol.)	pH meter	5.48	5.72

\*\*\*\*\*

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UNAMIR

**Test Report No.**

95/10171(4)

SERIAL No. TR/ **No. 3883**

PRODUCT : COMBAT RATION (CHOCOLATE)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Yeasts/Moulds (colonies/gm)	KS-05-220	NIL	2
Total Plate Count (colonies/gm)	" "	16	17
Taste	Organoleptic	Objectionable	
Smell	"	Characteristic	
Appearance	Visual	Objectionable	
Acidity % by wt as Citric Acid	AOCS 3a-63	0.52	0.47
pH (on 10% Aqueous sol.)	pH meter	5.95	5.98

\*\*\*\*\*

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UNAMIR

95/1017J(1)

**Test Report No.**SERIAL No. TR/ **No. 3884**

PRODUCT : COMBAT RATION (SPREAD)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----	
		A	B
Total Plate Count (colonies/gm)	KS-05-220	NIL	NIL
Total Coliform Count (colonies/gm)	" "	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.49	0.67
pH (on 10% Aqueous sol.)	pH meter	6.00	4.77

\*\*\*\*\*

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**SGS Kenya Limited**  
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UNAMIR

**Test Report No.**

95/1017J(2)

SERIAL No. TR/ **No. 3885**

PRODUCT : COMBAT RATION (SPREAD)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST -----	METHOD -----	RESULTS -----	
		A	B
Total Plate Count (colonies/gm)	KS-05-220	NIL	NIL
Total Coliform Count (colonies/gm)	" "	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.24	0.21
pH (on 10% Aqueous sol.)	pH meter	6.49	6.32

\*\*\*\*\*

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May 16, 1995

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SGS Kenya Limited



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UNAMIR

**Test Report No.**

95/1017J(3)

SERIAL No. TR/ **No. 3886**

PRODUCT : COMBAT RATION (SPREAD)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----	
		A	B
Total Plate Count (colonies/gm)	KS-05-220	NIL	NIL
Total Coliform Count (colonies/gm)	" "	900	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	1.19	0.34
pH (on 10% Aqueous sol.)	pH meter	5.90	6.16

\*\*\*\*\*

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UNAMIR

95/1017J(4)

**Test Report No.**SERIAL No. TR/ **No. 3887**

PRODUCT : COMBAT RATION (SPREAD)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST -----	METHOD -----	RESULTS -----	
		A	B
Total Plate Count (colonies/gm)	KS-05-220	200	NIL
Total Coliform Count (colonies/gm)	" "	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g
Taste	Organoleptic	Unobjectionable	
Smell	"	"	"
Appearance	Visual	"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.20	0.25
pH (on 10% Aqueous sol.)	pH meter	6.67	6.49

\*\*\*\*\*

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/jnk

May 16, 1995

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**SGS Kenya Limited**



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UNAMIR

**Test Report No.**

95/1017K(1)

SERIAL No. TR/ No. **3903**

PRODUCT : COMBAT RATION (READY TO EAT MEAL)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I  
A. & B. HAMBURGER MIT TOMATENSOBE  
C. & D. ERBESEN EINTOPF

TEST -----	METHOD -----	RESULTS -----			
		A	B	C	D
Total Plate Count (colonies/gm)	KS-05-220	NIL	NIL	300	400
Total Coliform Count (colonies/gm)	" "	NIL	NIL	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g	Absent in 25g	Absent in 25g
Taste	Organoleptic	U n o b j e c t i o n a b l e			
Smell	"	"		"	"
Appearance	Visual	"		"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.36	0.43	0.27	0.12
Rancidity (Peroxide Value % by wt on extracted oil)	The Chemical Analysis of Foods (Pearson)	NIL	NIL	NIL	NIL

\*\*\*\*\*

/jnk

May 16, 1995

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For and on behalf of SGS Kenya Limited

**DOMINIC M. MUREITHI**  
LABORATORY MANAGER

Member of the SGS Group ( Societe Generale de Surveillance)



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UNAMIR

**Test Report No.**

95/1017K(2)

SERIAL No. TR/ No. **3902**

PRODUCT : COMBAT RATION (READY TO EAT MEAL)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II  
A. & B. BAVERNTOPF  
C. & D. SCHWEIFLEISCH MIT GRUNEN BOHNEN

TEST -----	METHOD -----	RESULTS -----			
		A	B	C	D
Total Plate Count (colonies/gm)	KS-05-220	NIL	NIL	300	400
Total Coliform Count (colonies/gm)	" "	NIL	NIL	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g	Absent in 25g	Absent in 25g
Taste	Organoleptic	U n o b j e c t i o n a b l e			
Smell	"	"		"	"
Appearance	Visual	"		"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.24	0.18	0.16	0.19
Rancidity (Peroxide Value % by wt on extracted oil)	The Chemical Analysis of Foods (Pearson)	NIL	NIL	NIL	NIL

\*\*\*\*\*

/jnk

May 16, 1995

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For and on behalf of SGS Kenya Limited

DOMINIC M. MUREITHI  
LABORATORY MANAGER



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UNAMIR

**Test Report No.**

95/1017K(3)

SERIAL No. TR/ **No. 3901**

PRODUCT : COMBAT RATION (READY TO EAT MEAL)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III  
A. & B. LINSCHNEINTOPF  
C. & D. SCHWEIFLEISCH MIT GRUNEN BOHNEN

TEST -----	METHOD -----	RESULTS -----			
		A	B	C	D
Total Plate Count (colonies/gm)	KS-05-220	NIL	300	200	300
Total Coliform Count (colonies/gm)	" "	NIL	NIL	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g	Absent in 25g	Absent in 25g
Taste	Organoleptic	U n o b j e c t i o n a b l e			
Smell	"	"		"	"
Appearance	Visual	"		"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.16	0.15	0.15	0.17
Rancidity (Peroxide Value % by wt on extracted oil)	The Chemical Analysis of Foods (Pearson)	NIL	NIL	NIL	NIL

\*\*\*\*\*

/jnk

May 16, 1995

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UNAMIR

**Test Report No.**

95/1017K(4)

SERIAL No. TR/ No. **3904**

PRODUCT : COMBAT RATION (READY TO EAT MEAL)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV  
A. & B. GOULASCH (AUSRIND-UND SCHWEINFLEISH)  
C. & D. ITALIENISCHES NUDELGERITCHT

TEST -----	METHOD -----	RESULTS -----			
		A	B	C	D
Total Plate Count (colonies/gm)	KS-05-220	100	NIL	NIL	NIL
Total Coliform Count (colonies/gm)	" "	NIL	NIL	NIL	NIL
Salmonella	ISO 6579	Absent in 25g	Absent in 25g	Absent in 25g	Absent in 25g
Taste	Organoleptic	U n o b j e c t i o n a b l e			
Smell	"	"		"	"
Appearance	Visual	"		"	"
Acidity % by wt as Citric Acid	AOCS 3a-63	0.25	0.17	0.29	0.32
Rancidity (Peroxide Value % by wt on extracted oil)	The Chemical Analysis of Foods (Pearson)	NIL	NIL	NIL	NIL

\*\*\*\*\*

/jnk

May 16, 1995

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For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017F(1)

ADENDUM 95/1017F(1) SERIAL No. TR/ No. **3912**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST -----	METHOD -----	RESULTS -----
		A      B
Acidity % by wt as Citric Acid	AOCS 3a-63	7.65    7.65
	*****	

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/jnk

May 18, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.**

95/1017F(2)

ADENDUM 95/1017F(2)

SERIAL No. TR/ No. **3913**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST	METHOD	RESULTS
-----	-----	-----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	6.50 6.54
	*****	

THIS REPORT REFERS TO A  
COLLECTED SAMPLE  
DETAILS IN REFERENCE  
QUANTITIES & METHODS NOT  
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/jnk

May 18, 1995

For and on behalf of SGS Kenya Limited

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UNAMIR

**Test Report No.** 95/1017F(3) ADENDUM 95/1017F(3) SERIAL No. TR/ No. **3914**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST -----	METHOD -----	RESULTS -----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	6.74 6.70
	*****	

/jnk

May 18, 1995

For and on behalf of SGS Kenya Limited

---

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UNAMIR

**Test Report No.** 95/1017F(4) ADENDUM 95/1017F(4) SERIAL No. TR/ **No. 3915**

PRODUCT : COMBAT RATION (TEA EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST	METHOD	RESULTS
-----	-----	-----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	4.43 4.45
	*****	



/jnk

May 18, 1995

For and on behalf of SGS Kenya Limited

DOUGLAS M. MURPHY  
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UNAMIR

**Test Report No.** 95/1017D(1)  
ADENDUM 95/1017D(1) SERIAL No. TR/ **No. 3916**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE I

TEST	METHOD	RESULTS
-----	-----	-----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	7.82 7.65
	*****	

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May 18, 1995

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UNAMIR

**Test Report No.** 95/1017D(2) **ADENDUM** 95/1017D(2) **SERIAL No. TR/ No.** **3917**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE II

TEST	METHOD	RESULTS
-----	-----	-----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	1.14 1.14
	*****	

A handwritten signature in dark ink, appearing to be "J. N. K.", written over a faint, rectangular stamp or watermark.

/jnk

May 18, 1995

For and on behalf of SGS Kenya Limited

---

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UNAMIR

**Test Report No.** 95/1017D(3)  
ADENDUM 95/1017D(3) SERIAL No. TR/ **No. 3918**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE III

TEST	METHOD	RESULTS
-----	-----	-----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	5.35 5.30
	*****	

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May 18, 1995

For and on behalf of SGS Kenya Limited

Member of the SGS Group ( Societe Generale de Surveillance)





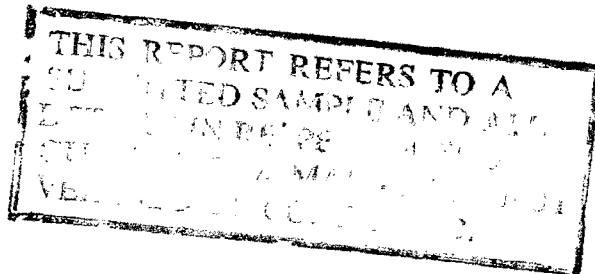
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UNAMIR

**Test Report No.**95/1017D(4)  
ADENDUM 95/1017D(4) SERIAL No. TR/ **No. 3919**

PRODUCT : COMBAT RATION (COFFEE EXTRACT)  
DATE SUBMITTED : 5TH MAY 1995  
MARKS : TYPE IV

TEST	METHOD	RESULTS
-----	-----	-----
		A B
Acidity % by wt as Citric Acid	AOCS 3a-63	5.57 5.35
	*****	



/jnk

May 18, 1995

For and on behalf of SGS Kenya Limited

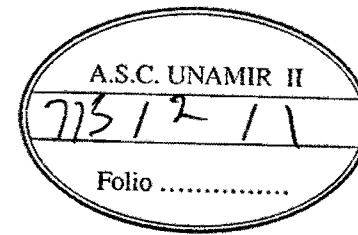
**DOMINIC M. MUREITHI**  
LABORATORY MANAGER

Member of the SGS Group (Societe Generale de Surveillance)

ASC 2 UNAMIR II (RWANDA)



MINUTE



454-1-1  
EHS 131 /95

UNAMIR HQ

Attention FHO

For information:

ZAMBATT RMO  
ZAMBATT HO  
OIC EHS

**PREVENTIVE MEDICINE SPT TO ZAMBATT**

Reference:

A. WNGO 142

1. HLTH SPT was conducted during the period 10-12 APR 95 by CPL M TREVITT and CPL M KENT Contingent Health Assistants. The following locations were visited:

- a. ZAMBATT HQ,
- b. TAC HQ,
- c. KITABI,
- d. RURAMBA,
- e. RWAMIKA,
- f. KIBEHO.

2. Two ZAMBATT locations were inaccessible due to inclement weather conditions which made travelling on dirt roads unsafe.

3. All locations visited were inspected , vector control programs introduced and water analysis was conducted.

#### OBSERVATIONS

4. The following observations were made throughout the respective ZAMBATT locations visited.

#### VECTOR CONTROL

5. Wet spraying of residual insecticide (Beta Cyfluthrin 1%) was conducted in all the ZAMBATT locations to control biting insects, cockroaches etc.

6. 1kg of Rat baits , 1 litre of perigen and 1pr of toxicological gloves were given to the ZAMBATT Health Officer to control vermin, impregnate mosquito nets and provide personal protection when handling chemicals.

#### WATER QUALITY

7. Water quality is poor in all the inspected locations with varying levels of chlorine and heavy coliform contamination. Nearly all the water testing resulted in concentrations of coliforms "Too numerous to count". Continual use of this contaminated source will probably expose ZAMBATT personnel to potentially dangerous water born illnesses.

#### ZAMBATT HQ

8. The standard of health maintained was good. Accommodation for the HLTH SPT was within this LOC and the hospitality was exceptional. Accommodation consisted of double brick buildings with the interior walls being rendered to a smooth surface. Cement floors were painted in various areas and plastic sheeting was used as a improvisational tool for windows due to the lack of glass sheeting. Renovational work was being carried out in certain areas for the duration of our stay.
9. Contaminated waste is being placed in the general waste pits and then the practice of burning and burying is considered a normal practice.
10. Biting insects are suspected of envenomating 3 ZAMBATT soldiers and the symptoms are quite extreme with facial and genital oedema, malaise, headaches etc. The suspected insect was collected for identification/investigation . Although not positively identified, it is considered doubtful that the insects examined are responsible as they do not appear to have any means of evenomation.
11. Kitchen facilities consisted of a KFM (Kitchen Field Mobile) ,open fires and large cooking cauldrons. The kitchen is located so it is an extension of the main mess area with dirt floors and a corrugated iron roof. The hygiene and meals provided were of an acceptable standard.

12. There was adequate deep trench latrines and urinals to facilitate all the staff and visitors to the ZAMBATT HQ area. Toilets were well maintained with cleanliness, lighting , roofing and totally odourless.

#### TAC HQ

13. The TAC HQ is situated approximately 3kms from ZAMBATT HQ and is adjoining to an orphanage. No ill health repercussions have been experienced due to co-location of the orphanage and TAC HQ because both facilities practice good hygiene skills.

#### CO ZAMBATT 's RESIDENCE

14. No problems were identified within this area due to the high standard of health and hygiene principles applied.

#### KITABI/RURAMBA/RWAMIKO

15. All of the above mentioned locations displayed a good working knowledge of sufficient preventive measures to reduce the risk of spreading or becoming a viable source for communicable disease i.e. Adequate accommodation and maintained very well, safe food handling and the use of mosquito nets/repellents.

#### KIBEHO

16. The two ZAMBATT locations visited were situated within the largest DP camp in Rwanda and were approximately 400mtrs apart. The major problem identified here was the amount of filth flies present due to surrounding environment. It is extremely hard to control this problem and ZAMBATT are employing various means to combat this difficult situation, namely being the use of fly spray, mosquito nets and diligent food handling.

#### RECOMMENDATIONS

17. The following recommendations are advised:
- a. Hand dosing of the water sources throughout ZAMBATT with chlorine as soon as possible to minimise the risk of an outbreak of water born diseases and a thorough investigation be carried out by EHS to identify the contaminated source and or sources,
  - b. UN Water point raise the Chlorine level to 5ppm for issue to UN units in distant locations to alleviate a probable source for water born illnesses to breed,
  - c. ZAMBATT Health officer procure a suitable water testing kit to monitor the water supply so that immediate action can be carried out to isolate a contaminated source,

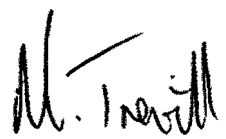
- d. ZAMBATT HO liaise with UNAMIR FHO regarding correct contaminated waste disposal procedures, and
- e. wet spraying of the remaining ZAMBATT locations be conducted and mosquito nets be treated as directed by the ZAMBATT HO,
- f. further investigation will be required if subsequent cases of suspected insect bites occur.

SUMMARY

17. The majority of problems identified were rectified immediately. ZAMBATT's Health officer was advised about the correct method of impregnating mosquito nets and was very co-operative throughout every location visited.

CONCLUSION

16. ZAMBATT displays one of the higher standards of hygiene in UNAMIR. The risk of illness due to food and water borne disease will remain minimal if the current practices are maintained.



M.M. TREVITT  
CPL  
HEALTH ASST  
EHS

20 Apr 93

### WATER ANALYSIS

1. **Ordered By:** FHO
2. **Location Of Source:** ZAMBATT B COY HQ
3. **Date Of Collection:** 11APR 95
4. **Date Of Testing:** 12 APR 95
5. **Reference:** MLW Pt 2 Vol 3 Pam 10 Water Supply
6. **Results of Chemical Analysis**

	Desirable Limit	Allowable Limit	Result
Colour (Hazen units)	5 TCU	15 TCU	4.3 TCU
Turbidity	5 NTU	25 NTU	N/T
TDS	1000mg/l	1000mg/l	N/T
pH	7.0-8.5	6.5-9.2	6.8
Ammonia, free and saline	0.1mg/l	0.5mg/l	N/T
Manganese	0.05mg/l	0.1mg/l	N/T
Fluoride	1.0mg/l	1.5mg/l	N/T
Iron	0.1mg/l	0.3mg/l	N/T
Nitrate	nil mg/l	45mg/l	5.1mg/l
Nitrite	nilmg/l	45mg/l	N/T
Chlorides	200mg/l	600mg/l	N/T
Sulphates	nil mg/l	400mg/l	8.0mg/l
Sulphides	nil mg/l	400mg/l	N/T
Hardness, calcium	300mg/l	500mg/l	N/T
Hardness, magnesium	300mg/l	500mg/l	N/T
Hardness, total	300mg/l	500mg/l	6 mg/l
Chlorine, total	ppm	ppm	0.3ppm
Chlorine, free	ppm	ppm	0.08ppm

7. **Results of Biological Analysis (in coliforms per 100ml)**

Total coliform	TNTC
Faecal coliform	NIL

8. **REMARKS**

*This water is not fit for human consumption until it has been treated*

M.TREVITT CPL

### WATER ANALYSIS

1. Ordered By: FHO
2. Location Of Source: ZAMBATT A COY
3. Date Of Collection: 11APR 95
4. Date Of Testing: 12 APR 95
5. Reference: MLW Pt 2 Vol 3 Pam 10 Water Supply
6. Results of Chemical Analysis

	Desirable Limit	Allowable Limit	Result
Colour (Hazen units)	5 TCU	15 TCU	6.4 TCU
Turbidity	5 NTU	25 NTU	N/T
TDS	1000mg/l	1000mg/l	N/T
pH	7.0-8.5	6.5-9.2	6.8
Ammonia, free and saline	0.1mg/l	0.5mg/l	N/T
Manganese	0.05mg/l	0.1mg/l	N/T
Fluoride	1.0mg/l	1.5mg/l	N/T
Iron	0.1mg/l	0.3mg/l	N/T
Nitrate	nil mg/l	45mg/l	2.2mg/l
Nitrite	nilmg/l	45mg/l	N/T
Chlorides	200mg/l	600mg/l	N/T
Sulphates	nil mg/l	400mg/l	40.0mg/l
Sulphides	nil mg/l	400mg/l	N/T
Hardness, calcium	300mg/l	500mg/l	N/T
Hardness, magnesium	300mg/l	500mg/l	N/T
Hardness, total	300mg/l	500mg/l	4.0 mg/l
Chlorine, total	ppm	ppm	0.12ppm
Chlorine, free	ppm	ppm	0.52ppm

7. Results of Biological Analysis (in coliforms per 100ml)

Total coliform	TNTC
Faecal coliform	NIL

8. REMARKS

*This water is not fit for human consumption until it has been treated*

M.TREVITT CPL

### WATER ANALYSIS

1. **Ordered By:** FHO
2. **Location Of Source:** ZAMBATT A COY HQ
3. **Date Of Collection:** 11APR 95
4. **Date Of Testing:** 12 APR 95
5. **Reference:** MLW Pt 2 Vol 3 Pam 10 Water Supply
6. **Results of Chemical Analysis**

	Desirable Limit	Allowable Limit	Result
Colour (Hazen units)	5 TCU	15 TCU	8.1 TCU
Turbidity	5 NTU	25 NTU	N/T
TDS	1000mg/l	1000mg/l	N/T
pH	7.0-8.5	6.5-9.2	6.8
Ammonia, free and saline	0.1mg/l	0.5mg/l	N/T
Manganese	0.05mg/l	0.1mg/l	N/T
Fluoride	1.0mg/l	1.5mg/l	N/T
Iron	0.1mg/l	0.3mg/l	N/T
Nitrate	nil mg/l	45mg/l	4.8mg/l
Nitrite	nilmg/l	45mg/l	N/T
Chlorides	200mg/l	600mg/l	N/T
Sulphates	nil mg/l	400mg/l	39.0mg/l
Sulphides	nil mg/l	400mg/l	N/T
Hardness, calcium	300mg/l	500mg/l	N/T
Hardness, magnesium	300mg/l	500mg/l	N/T
Hardness, total	300mg/l	500mg/l	4.8 mg/l
Chlorine, total	ppm	ppm	0.1ppm
Chlorine, free	ppm	ppm	0.45ppm

7. **Results of Biological Analysis (in coliforms per 100ml)**

Total coliform	TNTC
Faecal coliform	NIL

8. **REMARKS**

*This water is not fit for human consumption until it has been treated*

M.TREVITT CPL



### WATER ANALYSIS

1. **Ordered By:** FHO
2. **Location Of Source:** ZAMBATT B COY
3. **Date Of Collection:** 11APR 95
4. **Date Of Testing:** 12 APR 95
5. **Reference:** MLW Pt 2 Vol 3 Pam 10 Water Supply
6. **Results of Chemical Analysis**

	Desirable Limit	Allowable Limit	Result
Colour (Hazen units)	5 TCU	15 TCU	10.2 TCU
Turbidity	5 NTU	25 NTU	N/T
TDS	1000mg/l	1000mg/l	N/T
pH	7.0-8.5	6.5-9.2	6.9
Ammonia, free and saline	0.1mg/l	0.5mg/l	N/T
Manganese	0.05mg/l	0.1mg/l	N/T
Fluoride	1.0mg/l	1.5mg/l	N/T
Iron	0.1mg/l	0.3mg/l	N/T
Nitrate	nil mg/l	45mg/l	5.1mg/l
Nitrite	nilmg/l	45mg/l	N/T
Chlorides	200mg/l	600mg/l	N/T
Sulphate	nil mg/l	400mg/l	1.0mg/l
Sulphide	nil mg/l	400mg/l	N/T
Hardness, calcium	300mg/l	500mg/l	N/T
Hardness, magnesium	300mg/l	500mg/l	N/T
Hardness, total	300mg/l	500mg/l	2.8 mg/l
Chlorine, total	ppm	ppm	0.8ppm
Chlorine, free	ppm	ppm	0.10ppm

7. **Results of Biological Analysis (in coliforms per 100ml)**

Total coliform	TNTC
Faecal coliform	NIL

8. **REMARKS**

*This water is not fit for human consumption until it has been treated*

M.TREVITT CPL

**CORRESPONDENCE DISTRIBUTION**  
**COVER SHEET**

File No. 075-2-1

Correspondence No. \_\_\_\_\_

To: FMO

Remarks/Action: X 16/5.

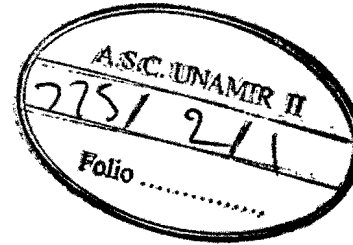
~~Med Ops~~

~~Med Log~~

FHO

JAN 17/5 ADVISED R+I  
FHO  
+ GAZONS HAVE BEEN  
TRANSFERRED

Please initial and date when action complete then pass quickly.



141/95 EHS

UNAMIR HQ

Attention: FHO

**WATER ANALYSIS - BREAKFREE NATURAL SPRING WATER**

**References:**

- A. HQ UNAMIR MED BR File: 538-12-1, Med 486 '95
- B. MLW Pt 2, Vol 3, Pam 10, Water Supply

**General**

- 1. As requested at Reference A, and in accordance with Reference B, a complete water analysis of Breakfree Natural Springwater was conducted by Environmental Health Section, Ausmed.

**Results**

- 2. Two separate samples were tested. Both batches showed no excessive chemical or bacterial contamination and were within the prescribed limits for potable water set down in Reference B. Analysis sheets are contained at Annex A.
- 3. The samples were taken from two (2) connexes at Magerwa. the container reference numbers are as follows:

	Total Coliform per/100ml	Chemical Analysis
a. MAXU 470003 - 2,	4	satisfactory
b. MAX 470160 - 9	0	satisfactory

**Statement of Potability**

3. The water is potable and considered fit for human consumption.



G.R. ATTARD  
WO2  
OIC EHS

/s/ May 95

**Annexes:**

- A. Complete Water Analysis Results -MAXU 470003 - 2
- B. Complete Water Analysis Results - MAXU 470160 - 9

**ENVIRONMENTAL HEALTH SECTION (AUSMED)  
COMPLETE WATER ANALYSIS RESULTS**

**Ordered By:** FHO

**Date:** 08 May 95

**Sample No.** 0-9

**1. Location of Source:** Magerwa Connex No. MAXU 470160 - 9

**2. Map Sheet      Series      Edition      Scale      Description/Location**

**3. Results of Chemical Analysis in parts per million stated**

Chemical	Mg/Lt	Allowable Limits	Remarks
Colour (Hazen Units)	2.4	15	
Turbidity Units	1	25	
Total Solids	94.3	1500	
Reaction pH Value	7.0	6.5 - 9.2	
Ammonia free and Saline	NT	0.5	
Nitrates	2.0	45	
Chlorides	NT	600	
Sulphates	1.0	400	
Hardness Temporary	NT	500	
Hardness Permanent	NT	500	
Hardness total	NT	500	
Chlorine Free	0.08	ppm	

**4. Results of Biological Analysis in Coliforms per 100ml**

Total Coliform - 0

Faecal Coliform - NT

**5. Statement: Including suitability for use and recommendations for treatment. Is source suitable for use after sedimentation, filtration and chlorination.**

The results indicate the sample of Breakfree Springwater is suitable for human consumption.

**6. Analysing Officer**

ASC 2 UNAMIR 11 Signature

Date 15/5/95

**ENVIRONMENTAL HEALTH SECTION (AUSMED)  
COMPLETE WATER ANALYSIS RESULTS**

**Ordered By:** FHO

**Date:** 08 May 95

**Sample No.** 3-2

**1. Location of Source:** Magerwa Connex No MAXU 470003 - 2

**2. Map Sheet      Series      Edition      Scale      Description/Location**

**3. Results of Chemical Analysis in parts per million stated**

Chemical	Mg/Lt	Allowable Limits	Remarks
Colour (Hazen Units)	2.5	15	
Turbidity Units	0	25	
Total Solids	103.3	1500	
Reaction pH Value	7.0	6.5 - 9.2	
Ammonia free and Saline	NT	0.5	
Nitrates	1.7	45	
Chlorides	NT	600	
Sulphates	1.0	400	
Hardness Temporary	9.9	500	
Hardness Permanent	NT	500	
Hardness total	NT	500	
Chlorine Free	0.06	ppm	

**4. Results of Biological Analysis in Coliforms per 100ml**

Total Coliform - 4

Faecal Coliform - NT

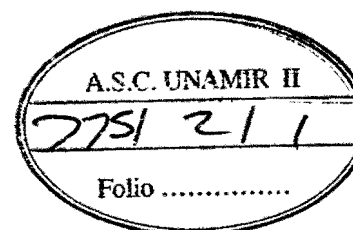
**5. Statement: Including suitability for use and recommendations for treatment. Is source suitable for use after sedimentation, filtration and chlorination.**

The results indicate that Breakfree Springwater is suitable for human consumption.

**6. Analysing Officer**

ASC 2 UNAMIR 11 Signature

Date 15/5/95



## MINUTE

144/95 EHS

CAPT M. Sinyinja, Clinical Officer  
ZAMBATT LOG COY - MURAMBI

UNAMIR HQ

**Attention:** FHO

### WATER ANALYSIS - LOG COY ZAMBATT - MURAMBI

#### References:

- A. MLW Pt 2, Vol 3, Pam 10, Water Supply

#### General

- In accordance with Reference A, a bacterial water analysis of water samples supplied from Kitarvi Tea Factory by CAPT M Sinyinja, Clinical Officer, Zambatt Log Coy, MURAMBI was conducted by Environmental Health Section, Ausmed.

#### Results

- Samples showed no excessive bacterial contamination and were within the prescribed limits for potable water set down in Reference A.
- The results are as follows:


	Total Coliform per/100ml	Chemical Analysis
a. Sample 1	0	Chlorine Nil
b. Sample 2	0	Chlorine Nil

**Statement of Potability**

4. The water is potable and considered fit for human consumption.

**Recommendation**

5. The water supplied for testing had no chlorine levels. It is recommended that only UN supplied water be used for drinking and cooking.
6. The local water can be used for non-potable purposes eg; bathing.



G.R. ATTARD  
WO2  
OIC EHS

30 May 95



**CORRESPONDENCE DISTRIBUTION**  
**COVER SHEET**

File No. 775/2/1 Correspondence No. \_\_\_\_\_

To: FMO

Remarks/Action: X 16/5

Med Ops

Med Log

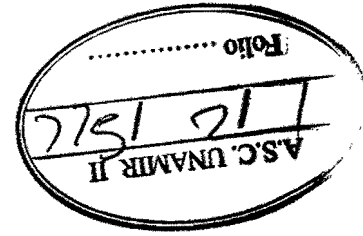
FHO

pl cph 20/5  
Area has been cleaned  
externally

Please initial and date when action complete then pass quickly.

Aus Med Spt Force

MINUTE



111/95EHS

UNAMIR FHO  
For Information:  
CO AUS MED  
EHS OIC

#### HEALTH INSPECTION-FORMER FORCE ENG COY

Reference:

A. MPA Vol 3 Chap 37

#### INTRODUCTION

1. A health inspection was conducted at the former force engineer lines on the 22APR95. The inspection was conducted by Sgt E. Guttridge (Health Inspector), accompanied by Cpl Kent and Cpl Reeves (Health Assistants). This inspection was conducted to access if there was a health threat to Ausmed personnel.

#### OBSERVATIONS

2. The following observations were made:

- a. The lower floor (SALS) of the high density block are in poor condition. Faeces, urine and general rubbish has been left in the toilets. The smell of urine and faeces was strong throughout these SALS,
- b. Two toilets are beyond repair. It appears that they have recently been damaged as water from a broken pipe fitting was flooding the SAL floor. Due to this damage there was faeces on the floor,
- c. There was faeces on the toilet seats. This was apparrant by the foot print marks on the toilet seats. These toilets were designed for people to sit on, not to squat on the seat, therefore putting excess weight on the toilet foundations,
- d. All the sinks throughout these SAL'S were left in a disgusting state. Rubbish, condoms, dye and food waste was left in this area, and

- e. A human lower jaw bone was found in the lower floor airduct. It appears, that the former occupants did not have the decency to remove this bone. The bone was relocated by the inspecting team to Ausmed Hospital for disposal.

#### LIVING ACCOMODATION-HIGH DENSITY

- 3. An inspection of the lower levels (FORCE ENG COY) was conducted:
  - a. All rooms were left in untidy and dirty condition, with general rubbish and food waste left in the rooms, cupboards and sinks.

#### LIVING ACCOMODATION-FORCE ENG COY HQ

- 4. All rooms were left untidy and dirty as per paragraph 3a. Other observations were made:
  - a. There was cat faeces in some rooms. It is not known if local cats were harboured as pets. Cats in this country pose a health risk due to the spread of rabies and other communicable diseases. It has been noted that the cat population within the Ausmed compound has increased. It was reported via the security piquet that up to twenty(20) animals have been observed during the night hours.
  - b. A large quantity of pharmaceutical drugs were found in one room. These drugs appear to have been used for intensive care purposes. They have been taken to the Ausmed Hospital for assessment,
  - c. All toilets throughout this building were left in a dirty, unwashed state. Left like this, the toilets will attract filth flies which can spread diseases to Ausmed personnel,
  - d. The majority of drains around this building were blocked with food debris. This not only diverts sullage water to other unwanted places, but provides a perfect media for filth flies to breed and spread insect borne diseases,
  - e. The drains near the speed bump have been used to dump sump oil. This is unacceptable as the oil will not break down, contaminating surrounding areas,
  - f. Unopened yoghurt containers, bags of rotting chillies, onions and other perishables were seen throughout the building, and
  - g. A water well to the front of the building has been used by the eng coy to dispose of food waste. Rubbish of all types was scattered throughout the front and back of this

HQ building. This will attract filth flies, cats and rats which will spread disease throughout the compound.

#### SUMMARY

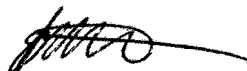
5. Although the former inhabitants have moved, their filth will become a health risk to Ausmed personnel. The condition that these buildings were left in, is one of the worst this inspector has seen.

#### RECOMMENDATIONS

6. The following recommendations are advised:
- a. That the Force Eng Coy return to this location for the sole purpose of cleaning this location to the satisfaction of the inspecting officer(FHO),
  - b. Damage to the toilets be repaired by Force Eng Coy, and
  - c. A solution to decrease the cat numbers be investigated.

#### CONCLUSION

7. These buildings require a complete clean up. They (Force Eng Coy) must be held responsible for damage that they have caused and the filthy state they left these lines in. Only after this clean up has been conducted would the health risk to Ausmed personnel be removed.



E. GUTTRIDGE  
SGT  
INSP HLTH  
21C EHS

22APR95

## UNITED NATIONS

## NATIONS UNIES

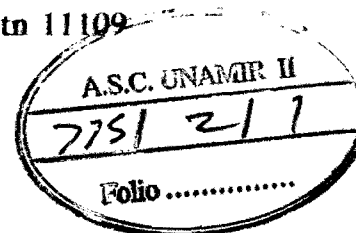
ASSISTANCE MISSION FOR RWANDA

MISSION POUR L'ASSISTANCE AU RWANDA

From: Col K M Tutt  
DCOS (Sp)  
HQ UNAMIR



Extn 11109



To: CISS

Info: FC thro COS, [REDACTED], DCOS(Ops), CLOGO

File Reference: 4000.1/LOG-40

Date: 30 May 95

Subject: QUALITY OF GERMAN RATION PACKS

Reference:

A. Force Health Officers letter 775-2-1 MED 580/95 dated 29 May 1995(Copy Attached).

1. There has always been some concern that the out of date German Ration Packs might not be suitable for consumption.
2. Reference A is scientific confirmation that in each of the four different types of ration most of the peripheral luxuries such as chocolate, spread and bisuits are not fit for consumption, but additionally and more importantly that at least one of the main meals in each pack is also not fit for consumption.
3. The Force Health Officer recommends that these rations should therefore be written off and destroyed. The Force Medical Officer has always strongly resisted the issue of these out of date rations on both scientific and morale grounds and supports their destruction.
4. Consideration could be given to salvaging the few good main meals and offering them up, as we did sustainment rations for use by the major aid agencies.

**FUTURE REQUIREMENTS**

5. The force holds 30 days of combat rations, ten days at first line and 20 days within Kigali at second line. Our current calculations show us to be holding 27 days of German rations. We therefore only have 3 days of consumable combat rations and this needs to be rectified urgently.

6. We are aware that there may be 57,000 US Meals ready to Eat amongst those containers awaiting shipment from Mobassa and Dar Es Salaam. The quality (expiry date) and quantity of those rations should be confirmed and if they prove to be suitable they should be transported as a high priority as they could provide 10 days of rations.

7. SO Food has had informal preliminary discussions with the current food contractor ECONOMAT and if they prove to be the best and most economic means of restocking with consumable combat ration they state that they could provide 15,000 rations in one week and a further 50,000 in three weeks.

8. During the recent use of combat rations to meet the shortfall of fresh rations it became apparent that current stocking policy for combat rations does not take into account the religious requirements within certain contingents concerning Halal rations, pork or beef. We are now looking at the particular preferences to ensure that future holdings take these needs into account.



UNAMIR - MINUAR

HQ UNAMIR MED BR  
FILE. 775-2-1  
MED 580/95

To: SO FOOD

From: CAPT JOHN NERNEY  
FHO

Date: 29 May 95

Subject: INTERPRETATION OF RESULTS - GERMAN RATION PACKS

1. Samples of German Ration Packs were forwarded by SO FOODS UNAMIR to SGS Kenya Limited on 5 May 95 for laboratory analysis to determine if they are fit for human consumption.
2. The laboratory reports are attached to this memo, with a summary of the results listed in the following table:

Serial	ITEM	TYPE	SER No	RESULTS
(1)	MRE Hamburger/Tomatoe	I	3,903	Unobjectionable
(2)	MRE Erbesen Eintopf	I	3,903	<i>Microbiological Contamination</i>
(3)	MRE Baverntopf	II	3,902	Unobjectionable
(4)	MRE Schweifleisch	II-III	3901-02	<i>Microbiological Contamination</i>
(5)	MRE Linseneintopf	III	3,901	<i>Microbiological Contamination</i>
(6)	MRE Goulasch	IV	3,904	<i>Microbiological Contamination</i>
(7)	MRE Italienisches	IV	3,904	Unobjectionable
(8)	Biscuits	I-II-III-IV	3848-51	<i>Yeasts/Mould Present</i> <i>Microbiological Contamination</i>
(9)	Coffee Extract	I-II-III-IV	3856-59 3916-19	Characteristic
(10)	Jam	I-II-III-IV	3874-77	<i>Microbiological Contamination</i>
(11)	Chocolate	I-II-III-IV	3880-83	<i>Microbiological Contamination</i> <i>Yeasts/Mould Present</i> <i>Objectionable Taste/Appearance</i>
(12)	Sugar	I-II-III-IV	3852-55	Normal
(13)	Water Treatment Tablet	I-II-III-IV	3841-2, 3846-7	Normal
(14)	Spread	I-II-III-IV	3884-87	<i>Microbiological Contamination</i>
(15)	Coffee Whitener	I-II-III-IV	3860-63	<i>Objectionable Taste/Smell</i> <i>Yeast/Mould Present</i>

Serial	ITEM	TYPE	SER No	RESULTS
(16)	Instant Fruit Drink	I-II-III-IV	3868-71	<i>Microbiological Contamination</i>
(17)	Tea Extract	I-II-III-IV	3864-67 3912-15	<i>Yeast/Mould Present</i>

3 Analysis by SGS revealed that adverse results were recorded against eleven of the seventeen ration components examined, most of the major components of the ration has been compromised.

4 Adverse results were in the areas of microbiological contamination, growth of mould and yeast, as well as objectionable taste, smell and appearance

5 As the Force Health Officer, it is my professional opinion that the German Combat Rations currently held within UNAMIR are **"UNFIT FOR HUMAN CONSUMPTION"**

6. The statement that the Rations are **"UNFIT FOR HUMAN CONSUMPTION"** is based on the following points:

- a. Laboratory analysis confirms that breakdown in the rations has occurred and integrity of the product has been compromised;
- b. The German Ration packs are past their use by date by three to five years;
- c. Some rations are contaminated by weevils;
- d. The nutritional value of the rations cannot be guaranteed; and
- e. Incomplete history/record of the shipment and storage of the rations.

7. As a result of laboratory analysis and detailed research it is my recommendation that the German Combat Ration packs, currently held within UNAMIR, should not be issued to Units as they are unfit for human consumption and if consumed could have detrimental health effects on UNAMIR personnel.



**CORRESPONDENCE DISTRIBUTION**  
**COVER SHEET**

File No: \_\_\_\_\_

To: FMO      Remarks/Action: Δ 7/16.

Med Ops \_\_\_\_\_

Med Log Good report w/ ph from thanks

FHO para 18 → surgical capacity?

para 24 Report? ph. para 19. → minutes to  
demo re absolute necessity  
to be one megaphone & request  
that be disseminated info.

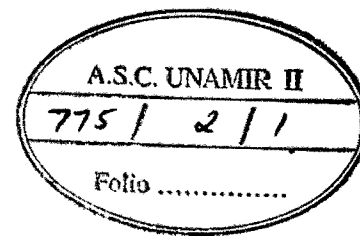
Please initial and date when action complete, then pass quickly

.....

AUSTRALIAN MEDICAL SUPPORT FORCE (RWANDA)



MINUTE



EHS/95

FHO

HEALTH INTELLIGENCE REPORT - CYANGUGU

Reference

A. WNGO 171

1. As per the above REF, EHS was deployed to the Cyangugu area for preventive medicine support. The following Health Intelligence was gathered by CPL Michael Trevitt and CPL Michael Kent Contingent Health Assistants on the 30 MAY - 2 JUN 95.

GEOGRAPHICAL / GEOPHYSICAL FACTORS

2. Cyangugu is situated at the southern end of Lake Kivu. It's 90km south west of Kigali. Cyangugu is located amongst some of the most picturesque and mountainous country in Rwanda. The Zaire border is 1km from Cyangugu. The weather is generally tropical with an average temperature of 20 degrees celcius and humidity at 70%. The rainfall for 1994 was 2154.3mm. The surveyed area was 142km squared with northern most village being kibogara and the southern most town of Bugarama, this area was all within sector 4C. Cyangugu is at 1800mtrs above sea level.

3. Lake Kivu, Gatandura river, Kamabuye river, Gitinda river and the Butabagire are the major sources in the surveyed area and are sufficient to use as a potable source as long as correct water treatment occurs. Red Clay is the soil type to a depth of at least 5mtrs.

4. Burwa (Zaire) is the largest city in the area. Bukvva (Zaire) and Gikongoro are the closest areas of importance with Bukvva 5kms away and Gikongoro 130kms away.

5. Geographical and Geophysical factors that have health implications associated with them are, Neighbouring countries Zaire and Burundi, Lake Kivu, the forest and the wet seasons.

DEMOGRAPHIC FACTORS

6. The population of Cyangugu and the surveyed area is approximately 345,000 people. ANNEX A indicates the break up of population in sector 4C. ~~The life expectancy for males and~~

7. The life expectancy for males and females is 48 yrs. The mean age is between 25 - 30 years of age. People are generally not fixed and tend to move around. Other demographic factors that may have health implications is people migrating from the neighbouring countries and bringing endemic diseases into Rwanda and spreading them through the communes and general population.

#### **SOCIAL FACTORS**

8. The major religious beliefs in the surveyed area is Christian (65%) Tribal (15%) and Muslims the remaining (10%) are Muslims. There have been no major customs continued since the Genocide. The main social classes are Military/Non government organisations (5%), Civilian Hutu, Tutsi and Twa (75%), Displaced persons (15%) and free traders from Zaire (5%). Compared to Australia the majority of the population are poor. The dwellings in the area are , Mud houses (90%) and brick houses are (10%).

9. The language taught is Kinde Rwandan as a medium in primary school and French is taught at secondary school. The average level of education attained within the area is grade four. Primary schools are only open in the area surveyed. The main meal of the day is lunch which consists of, beans, rice and potatoes.

10. The attitude of the local population towards UN personnel was very good . The health implications associated with social factors is the serious distrust and hatred between races which at times encites violence within the population.

#### **POLITICAL FACTORS**

11. The popularity of the government at present appears to be good within Cyangugu. There is no government supported health care guidelines set at present , therefore; There is no government health care facilities established and facilities at the present time are supported by Non Government Organisations.

12. Banditry activity is evident within the surveyed area especially at night under the cover of darkness. The RPA are causing tension within the community with the illegal arrests increasing and the legal arrests declining. Relations between the RPA and neighbouring countries is poor. Travel restrictions exists via RPA TCP's and the border crossing.

13. There are no other significant political factors that have any health implications associated with them.

#### ECONOMIC FACTORS

14. The major sources of income in the area is Tea, White lime and bananas. The whole of the surveyed area appears to be improving due to the amount of workers employed within the various plantations and factories.

15. The communication system exists by road, talking to one another and the postal service has been reestablished. Satellite phone call exists via the use of IMMAR SAT which is only used by UN and NGO,s. The development with the infrastructure is only happening with foreign aid.

16. The major industries in the area is Tea, White lime and bananas. The percentage of industrial output vs industrial output capacity is 45%. The ability to produce local medical stores is impossible and all the stores are transported in by road

#### MEDICAL FACTORS

17. Endemic diseases within the surveyed area are as follows:

- a. Malaria.  
p.Falciparum,  
p.Ovate malaria,
  - b. Dysentery  
diarrhoea caused by enterotoxigenic strains,  
shigellosis (bacillary dysentery)  
balantidiasis (balantidial dysentery)
  - c. AIDS/STD,s
  - d. Rabies,
  - e. Flu/pneumonia,
  - f. Cholera,
  - g. Schistosomias,  
schistosomias haematobiun;  
schistosomias intercalatum
  - h. Scabies,
-

- i. Food borne illness  
staphylococcal food poisoning;  
clostridium perfringens  
gastroenteritis (rotaviral enteritis)
- j. Worms (tape, thread, hook and heart), and
- k. Brucellosis.

18. At present there are 2 hospitals operating in this area , one is at the Ethiobatt position and another at Bugarama. Both are sponsored by Medicine de monde and are staffed with both Rwandan and NGO physicians, nurses etc. There is also a military treatment facility at Ethiobatt which is staffed by 1 doctor and 5 medics.

19. Chemoprophylaxis isn't being used by some Mil Obs or the NGO's in this area which is quite dangerous considering the prevalence of Malaria in the area. Lake Kivu has a continual contamination from the active volcano in the area which inturn is releasing gases and is settling on the surface water and presents a asphyxiation hazard.

#### ENVIRONMENTAL FACTORS

20. Insect vectors present in the local areas are as follows:

- a. Mosquitoes (aedes aegypti),
- b. Mites,
- c. Spiders,
- d. Flies,
- e. Worms; and
- f. Cockroaches.

21. Animal hosts prevalent in the area are as follows:

- a. Rats,
- b. Mice,
- c. Cats,

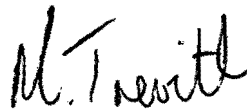
- d. Dogs;
- e. Monkeys , and
- f. Pigs.

22. There is no existing control measures for vectors, hosts or reservoirs. The local water for Cyangugu is the river Cyunyu. It's collected via two pipelines then is treated at the water treatment plant and then the water is pumped to the local community. The chlorine levels in the water at the treatment plant were at 4ppm prior to being circulated throughout the community. Ethiobatt is using this source for their potable water.

23. All waste water is disposed of via ground soakage pits then it runs of into Lake Kivu. There is a minimal amount of septic tanks throughout the surveyed area. Food handling practices are poor which is evident via the amount of food borne diseases in Cyangugu. Wet and dry refuse is left where it is and in some areas burning and burying is practiced.

24. There are other poisonous / dangerous animals present in the area i.e. snakes , spiders and scorpions ,although not seen we were well informed that these animals do exists in the Cyangugu area (especially in the mountains). The only other Environmental factor is foot injuries because of the lack footwear, (especially farmers).

25. The overall Health Intelligence report was compiled via a variety of sources i.e. NGO's, EHS ASC I and Mil Obs.

  
M.M.TREVITT  
CPL  
EHS

04JUN 95

1. As discussed, the following is concerning duties of.  
CAPT Wanel - Rwanda  
for  
WO2 Lewis

ASC UNAMIR II



MINUTE

436/1/1  
ASC UNAMIR II 3/94

CO

For information:

HQ UNAMIR (FOR FMEDO)  
OPSO

**DUTY STATEMENT ENVIRONMENTAL HEALTH OFFICER ASC UNAMIR**

1. The Environmental Health Officer ( EHO ) ASC UNAMIR is responsible to the DCOMASC for:
  - a. acting as the Force Health Officer;
  - b. the provision of Environmental Health and Occupational Health & Safety advice to unit and sub- unit commanders;
  - c. the liaison with Non Government Organisations with reference to Public Health issues;
  - d. the conduction of Health Intelligence surveys of all AO's and potential AO's;
  - e. the correlation of health briefs and reports from the Environmental Health Sections ( EHS );
  - f. the tasking of the EHS commander; and
  - g. the conduction of Health Surveys of the food and water contractors on a monthly basis.
2. The EHS Commander is responsible to DCOMASC for:
  - a. the conduction of Health inspections of the AUSMED Hospital and the barrack complex on a monthly basis;
  - b. the administration and tasking of the EHS; and

c. the completion of tasks as directed by the FHO.

( M.WAIXEL )

CAPT

FHO

SEP 94