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	MEDICAL EMERGENCY EVACUATION PROCEDURE	Document Owner:	OHS Manager
Revision:		02	
Approval Date		13th May 2023	

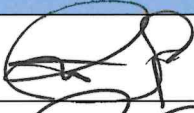
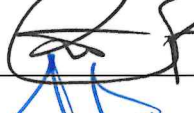

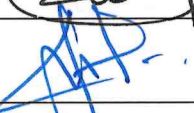

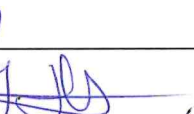
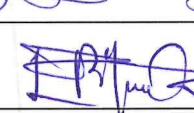
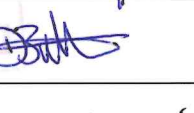


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APPROVALS:

Title	Name	Signature	Date
Author	Dr. PS Wanan		18/05/2023
Chairperson of the Standard Committee	Dr. PS Wanan		18/05/2023.
OHS Manager	ARICIA WACUA		18/5/2023
OH Lead	Dr PS Wanan		18/05/2023.
Safety Lead	ARICIA WACUA		18/5/23
Human Resources Manager	ANGELROSE MGALLAH		18/05/23
ERT Coordinator			
Safety & Training Specialist	J PP Ilwanda Ismael		18/05/23.
Workers Representative	ERNEST KUKARANGA		18/5/2023
Security Manager	DAVID BUTLER		18/05/23
General Manager	pp Michael Mhamuka		18/5/2023



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1. ABBREVIATIONS

All abbreviations are defined in the text.

2. DEFINITIONS

All definitions are defined in the text.

3. PURPOSE

The procedure describes the logistics and general protocol to be followed in a medical emergency that cannot be managed onsite. The patient should then be evacuated to the appropriate referral hospital for further treatment. The patient can be evacuated to the local hospitals around the mine site, tertiary Hospitals within the country or outside the country.

4. SCOPE

The procedure will cover all employees and contractors that are onsite. This procedure must comply with all contractors unless they have a better evacuation procedure than this procedure. The procedure will also include casual labour regardless of if they are under TNCL or contractor companies.

5. FINANCE


The employer of the employee will be responsible for the payment of the medical evacuation and treatment either through the insurer or out of pocket. Should the contractor delay or be unable to cover the cost of medical evacuation, TNCL will cover the cost of the medical evacuation and then back-charge the contractor.

6. CATEGORIES OF MEDICAL EMERGENCIES.

The medical evacuation procedure has the following categories of medical emergencies, which will help to inform which hospital and what type of transport will be used.

6.1 Category one: Acute/Severe and Life-Threatening Medical Conditions

- a) Heart attack
- b) Cardiac arrest
- c) Acute stroke
- d) Diabetic ketoacidosis with loss of consciousness
- e) Respiratory arrest
- f) Severe head injury
- g) Coma of any cause
- h) Profuse external or internal bleeding secondary to trauma
- i) Life-threatening Spine injury
- j) Fracture of the pelvic
- k) Pulmonary embolism
- l) Severe antepartum haemorrhage
- m) Postpartum haemorrhage
- n) Status asthmaticus

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- o) Status epilepticus
- p) Ruptured ectopic pregnancy.
- q) Chemical injury to the eyes
- r) Carbon monoxide poisoning
- s) Organophosphate poisoning
- t) Viral haemorrhagic fever
- u) Hydrogen sulphide or cyanide poisoning
- v) Any other medical emergency classified by a qualified medical practitioner in this group.

6.2 Category two: The medical emergencies that will require urgent treatment, however, don't pose an immediate risk of death.

- a) All fractures except for skull and pelvic fractures.
- b) Musculoskeletal injuries apart from fractures, i.e., Dislocations
- c) Pulmonary Tuberculosis
- d) Moderate Covid 19
- e) Pregnancy-related conditions were not mentioned in category one, i.e. threatened abortion.
- f) Asthmatic attack

6.3 Category three: Non-emergency evacuation medical conditions

- a) Chronic medical conditions, i.e., uncontrolled hypertension, diabetes
- b) Chronic Dermatological conditions, i.e., contact dermatitis.
- c) Mild Asthma
- d) Chronic eye conditions, i.e., cataracts
- e) Chronic musculoskeletal conditions, i.e., Chronic back pain

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7. DESCRIPTION OF SITE LOGISTICS

7.1 Road Transport

Road transport is the currently available option for travelling from the project site to Ngara, which is the closest airport. The larger proportion of the road is gravel which affects the travelling time.

Kabanga site is about 7-8 hours from Mwanza by road, with the **Bugando Medical Centre** as the lake zone referral hospital. This facility offers the best definitive surgical care in the area with multiple in-house specialities. Presently, it should only be used for definitive care where there is no option for Dar es Salaam or Nairobi.

The best private hospital for emergency surgical and medical care is Kamanga Medics Hospital, located at Mwanza as well. It has multidisciplinary specialists that can be made available to attend to emergencies within a relatively short notice period. Its services are relatively more expensive compared to Bugando.


Ngara district hospital is about one hour and thirty minutes away from the Kabanga site, with the **Ngara District Hospital** situated here. Care is extremely limited here, but this facility serves as the hospital of choice for cases that require quick road transport.

7.2 Air Transport

The following companies provide air ambulance services in the region:

- **AMREF flying doctors:** Based in Nairobi and is the provider of choice for regional movements. They operate dedicated aircraft with a doctor-based crew and can move the patient to Nairobi or Dar es Salaam.
- **Arusha Medivac Ltd:** Arusha Medivac is an air ambulance service operating from Arusha Airport. Provide rapid response medical air evacuations within Tanzania and to Nairobi, Kenya. They are dedicated service providers in Tanzania with their own aircraft and professional medical team.
- **Tindwa Medical and Health Services:** Based in Dar es Salaam, they have access to aircraft on an ad hoc basis. They offer intermediate life support personnel, and utilisation must be pre-authorised by the Site Management.
- **Dar es Salaam Flying Doctors (Dfd):** Based in Dar es Salaam Dfd owns a twin-engine jet and has contractual agreements with aircraft operators in the region and can offer air ambulance-configured aircraft to any destination in East Africa. The air ambulance evacuation crew is led by Emergency Medicine Doctors.

NB: Tanzanian air rescues are ONLY operational between **0600hrs** and **1800hrs** due to local regulations. AMREF Flying doctors flying from Nairobi can operate around the clock.


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Ngara Airstrip

The Ngara airstrip is about a 1 hour and 30 minutes' drive from the project area.

Details are as follows:

Runway length	1440 metres
Runway Description	Compacted soil
Runway position	4NM SE of the town
Elevation	5053FT AMSL
Surface	Compacted late rite with fine gravel
Location	02 32 32 28 S 030 4211.17E
Warnings	
Lighting	Unlit
Navigation aids	Windsock and NDB present
Operational Hours	Daylight hours
Contact Details	Airport Manager: +255784462125/+255282223601

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Mwanza Airport

This is the closest commercial airstrip with a customs and immigration facility that operates day and night.

Runway length	3200 metres
Elevation	1146 metres
Surface	Sealed surface
Location	South 2 degrees 26'59.8, East 32 degrees 56'0.3
Lighting	Available
Navigation aids	Windsock and NDB present
Operational Hours	It can be opened after hours for emergencies.
Contact Details	Airport Manager Phone: +255 (0) 28 256 0229

Chato Airport

Runway length	3000 meters
Runway Description	Hard surface
Runway position	13/31
Elevation	3898 feet MSL
Surface	Hard
Location	S2°44.54' / E31°42.41'
Warnings	Vodacom Mast, Power lines
Lighting	Nil
Navigation aids	Nil
Operational Hours	
Contact Details	(+255) 764 530 115

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8. EMERGENCY MEDICAL PROCEDURE

8.1 Category one evacuation

In the event of a category one medical emergency, the following procedures must be followed:

1. The onsite medical Doctor (s) will inform the OHS manager and General Manager.
2. The site Medical Doctor will call the insurance broker and arrange for Airambulance through the nearby airport practicable. The onsite doctors will have the final say regarding the decision of air ambulance.
3. The insurance broker will arrange the air ambulance and also facilitate contacting the referral hospital.
4. The onsite Doctors will facilitate the transport of the patient to the nearby airport by road ambulance.
5. The onsite Doctors will share the medical information of the patient with the referral Hospitals.
6. All cases of category one, except for antepartum and postpartum haemorrhage and contiguous diseases, will be referred to Aga Khan Hospital.
7. All contiguous diseases will be designated hospitals as prescribed by the government.
8. All antepartum, postpartum and pregnancy-related complications will be transferred through road transport to Rulenge or Ngara Hospital. Any further referrals will be processed from these two hospitals.

Should this be impossible for any reason, the site treating Doctor is to proceed as per this procedure until contact can be established.

Each case will be dealt with individually in terms of their need for urgent care. The final recommendation for offsite movement rests with the medical team on site and is based on the patient's requirements as determined by doctors' evaluations.


8.2 Category two evacuation

All category two evacuations will be transferred through the road ambulance should there a need arise. The following procedures will be followed:

1. The onsite medical doctors will inform the OHS manager.
2. The onsite medical doctors will make the arrangements with the referral hospitals
3. As per category one above, all obstetric cases will be referred to Ngara or Rulenge Hospital
4. All other trauma cases will be referred to Kamanga Hospital, Mwanza.


8.3 Category three evacuation

Unless it is a work-related condition or HIV-related condition, all further management of the cases in this category will be done by the employee under the guidance of the onsite medical Doctors.

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9. ONSITE CONTACT DETAILS

Name: Dr Kudra Said Job title: Occupational Health and Safety Manager Speciality: Occupational Health Specialist Mobiles: +255759340654 Email: Kudra.saida@kabanganickel.com	Name: Dr Ikunda Mbise Job title: Medical Doctor Speciality: General practitioner Mobiles: +255756595123 Email: dr.ikunda.mbise@kabanganickel.com
Name: Dr Fredrick J Weinand Job title: Occupational Health Lead Speciality: Occupational Physician Mobiles: +255786652325 Email: Fredrick.weinand@kabanganickel.com	Name: Dr Octavian Modest Job title: Medical Doctor Speciality: General practitioner Mobiles: +255713023097 Email: dr.octavian.modest@kabanganickel.com
<u>Paramedic:</u> Mobile: Gadiel Kirika Mobile: +255769085123	<u>Nurses:</u> Name: Diana Ladislaus Mobile: +255769093386

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10. MEDICAL INSURANCE/AUTHORISING PERSONNEL

10.1 Authorising Personnel TNCL


Onsite Clinic Doctor may request and authorise evacuations offsite. The Doctor must indicate who among the below Authorising Personnel has agreed to the evacuation. Doctors should indicate whether the patient being evacuated is an expatriate or a nation in the email subject heading so that all people in the communication are aware of this status and which medevac plan is being applied.

Name	Telephone No.	Email Address
Dr Kudra Said Mfaume OHS Manager	+255 759 340 654	Kudra.Said@kabanganickel.com
Dr Fredrick J Weinand	+255786652325	Fredrick.weinand@kabanganickel.com
Saimon Zawadi Sanga Head of Human Resource	+255 762 779 177	Saimon.Sanga@kabanganickel.com
Benedict Busunzu Country Manager	+255 754 569 788	benedict.busunzu@kabanganickel.com

This list is in order of priority, with the next listed person to be contacted in the event of failing to raise the former.


10.2 Strategies Insurance Key Responsibility

Name	Title	Telephone No.	Email Address
Dr Ismail Gatalya	Medical services manager	+255755732018	igatalya@strategis.co.tz
Pendo Lema	Managing Director, Gwen Insurance (Broker)	+255763513930	pendo@gwenconsults.co.tz

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10.3 Medical Service Provider Contact Details.

<p>Aga Khan Hospital Barack Obama Avenue, Dar es Salaam Tel + 255 22 211 5151 Fax Main + 255 22 211 5904 Casualty + 255 22 211 5151 Ext 4001 Point Person: Naaznin Bandali Tel +0786649983</p>	<p>AMREF Flying Doctors Kenya +254 (0) 206 992000 +254 (0) 730 811000 +254 (0) 709 962000 info@flydoc.org Inside Wilson Airport, P.O. Box 18617 – 00500, Nairobi, Kenya.</p>	<p>Aga Khan Hospital Nairobi Location: 3rd Parklands Avenue, Limuru Road, Nairobi, Kenya Phone: +254 (0) 111 011 888 or +254 (0) 730 011 888 Email: akuh.nairobi@aku.edu Patient Referral Office Phone: +254 (0) 20366 2888/2889 Mobile: +254 (0) 733889933 Email: patient.referral@aku.edu</p>
<p>Bugando medical Centre P.o.Box 1370, Mwanza. Tel: +255 028 2500513 Fax: +255 028 2500799 Email: info@bugandomedicalcentre.go.tz Email: hospbugando@gmail.com Website: www.bugandomedicalcentre.or.tz</p>	<p>AMREF Flying Doctors Tanzania +255 745 716 581 +255 684 818 071 info@flydoc.org Arusha Tanzania, Summit Center, 2nd Floor West Wing Block A, Sokoine Road</p>	<p>AMREF Flying Doctors Emergency Lines +254 (0) 206 992222 +254 (0) 730 811811 +254 (0) 709 962811 +255 789133133 emergency@flydoc.org +254 (0) 20 6000 665</p>

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12. REASONS FOR CHANGE

Table 2

A	As a result of incidents	F	Change in training requirements
B	As a result of the audit findings	G	Results of risk assessments
C	New / changes in governance documents	H	Change due to spelling or grammatical error
D	Changes in legislation	I	New document format
E	Changes in technology	J	To integrate special instruction into the document control system

13. HISTORY OF CHANGE


Table 3

Date of Change	Revised Item (paragraph Number reference if required)	Reason Code	Name of Reviewer

14. RECORD CONTROL

Table 4


Identification	Reference number	Responsible for Maintenance	Responsible for Filing	Location of Storage	Retention Period	Method of Disposal
Medvac SOP	Document Controller	Document Controller	Document Controller	OHS Department	Hard Copy two Years	Hard copy shared file electronic

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Appendix 1

11.1 Appendix one: Medical Emergency Evacuation Flow Chart



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**15. Declaration
Appendix 2**

I hereby declare that I have taken part in the discussion of this procedure, and I understand its contents and do commit that I shall ensure compliance hereto:

	Name and Surname	Company Number	Designation / Role	Signature	Date Signed
1.					
2.					
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