

Request for extension of the deadline for fulfilment of obligations under Article 5 of the Convention on the Prohibition of the Use, Stockpiling, Production and Transfer of Anti-Personnel Mines and on Their Destruction

Zimbabwe

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Abbreviations

APM	Anti-Personnel Mine
APMBC	Anti-Personnel Mine Ban Convention
APOPO	Anti-Persoonsmijnen Ontmijnende Product Ontwikkeling / Anti-Personnel Landmines Detection Product Development
CHA	Confirmed Hazardous Area
GIS	Geographic Information System
HALO	Hazardous Area Life-support Organization
ICRC	International Committee of the Red Cross
MAG	Mines Advisory Group
MRE	Mine Risk Education
NAMAAZ	National Mine Action Authority of Zimbabwe
NMAS	National Mine Action Standards
NMCU	National Mine Clearance Unit
NPA	Norwegian People,s Aid
NSP	National Strategic Plan
NTS	Non-Technical Survey
QA	Quality Assurance
QC	Quality Control
QM	Quality Management
SHA	Suspect Hazardous Area
SOP	Standard Operating Procedure
TS	Technical Survey
ZIMAC	Zimbabwe Mine Action Centre
ZNMAS	Zimbabwe National Mine Action Standards
GICHD	Geneva International Centre for Humanitarian Demining

Executive Summary

At independence in 1980, Zimbabwe inherited eight (8) distinct major mined areas that were laid between 1976-1979 by the Rhodesian Army along the country's borders with Zambia and Mozambique, respectively. The original contamination had always been assumed to be **511 050 000m²** as reported on previous extension requests. However vigorous Land Release reduced the figure to **223 228 075** by December 2013. Further NTS, TS and clearance achievements reduced the figure to **208 993 370** as at December 2014 when Zimbabwe was granted the 4th and current extension period in June 2014. During the fourth extension period, Zimbabwe managed to strike off 142 763 267m² to remain with **66 230 103m²**

It is estimated that the original contamination included approximately three million (3,000,000) anti-personnel mines. The mines were laid on three different types of minefields, i) the Cordon Sanitaire, ii) Ploughshare and, iii) Reinforced Ploughshare minefields.

The Government of Zimbabwe remains concerned with the existence of minefields along the country's border. As such, since independence to date, the Government has made every effort to rid the country of these minefields which continue to injure, maim and in worst cases kill both humans and livestock. The efforts by the Government include provision of funding for mine action and seeking assistance from the international community before and after the country became a State Party to the Anti-Personnel Landmine Ban Treaty.

Zimbabwe like most States Parties became a State Party to the Anti-Personnel Landmine Ban Treaty (APMBC) in 1999 whereby it was obligated to have completed clearance of all the mined areas within the country's jurisdiction or control by March 2009. This was however not achieved. Accordingly, Zimbabwe requested for an extension period which was granted and since then the country has been granted four extension periods. The fourth and current extension period which expires on 01 January 2018 was granted during the Third Review Conference in Maputo, June 2014.

One of the conditions of granting the fourth extension period was for Zimbabwe to re-survey all the remaining contaminated land within her jurisdiction or control to come up with a clear picture of the remaining contamination and make a plan of action. Zimbabwe now talks with certainty of the remaining contamination after successfully carrying out re-surveys of all contaminated areas. Currently, Zimbabwe is now working on the National Strategic Plan with the assistance of GICHD. Demining Organisations in Zimbabwe have successfully increased their capacity. HALO Trust has increased its capacity to 240 deminers with room to further increase in 2017. Norwegian People's Aid, (NPA) increased capacity to 70 deminers while the National Mine Clearance Unit (NMCU) has increased by an additional 30 deminers bringing the capacity to 150 deminers up from 120, with equipment for the additional deminers provided by the ICRC. Zimbabwe looks forward to accelerated clearance rate due to the continual expansion of the three demining organisations currently at work. Added to the expansions by HALO Trust and NPA, and the NMC Unit, it is pleasing to note that while preparing this extension request, Zimbabwe has

engaged two more demining organisations, namely APOPO and the Mines Advisory Group (MAG). This will allow for more land to be relieved of mines thereby creating more room for greater opportunities. The Government of Zimbabwe has provided over USD\$1.5million to ZIMAC and NMCU during the extension period. These efforts have helped to bring a high level of clarity on the remaining Article 5 challenge.

The drafting and approval of national standards, that included updates on land release process also ensure Zimbabwe has responded to recommendations given in its 2014 Extension Request. These achievements have enabled Zimbabwe and its operators to re-survey mined areas under her jurisdiction and come up with a work plan to deal with an accurate figure of remaining contamination. The total area processed with NTS, TS and clearance during period 2014 to Dec 2016 is **142 763 060 m²**. During the extension period Zimbabwe also completed clearance on the Burma Valley minefield. This has resulted in increased business opportunities in areas of agriculture, tourism, mining, game ranching and industrial sites. On the social aspect, local inhabitants will freely access water sources, have ample grazing land for their domestic animals and travel across lands to visit their relatives without risking their lives and limbs.

Requested Period of Extension

Zimbabwe now has a clear picture of the remaining contamination in areas under her jurisdiction or control. With surveys completed, expansion and capacity building of the current demining operators and the coming on board of two additional international demining organisations, Zimbabwe now seeks **an eight (8) year extension, January 2018 to December 2025**, during which it is envisaged that at current funding, clearance would most likely be completed.

The 8 year period requested is the minimum period expected to do the job with the current capacity, anything less than this period will not be realistic and certainly Zimbabwe cannot complete the remaining contamination in a lesser period unless more players come on board.

Table 1. Contamination Level at the start of fourth extension request (Dec 2014)

	Mined Areas	Total Area (m²)
1	Musengezi to Rwenya	144 953 124
2	Sango Border Post to Crooks Corner	28 800 000
3	Rusitu to Muzite Mission	15,000,000
4	Sheba Forest to Leacon Hill	19,964 382
5	Lusulu	56,000
	TOTAL	208 993 370m²

As at June 2014 the Rusite to Muzite Mission, Mukumbura to rwenya and Sheba to Leacon Hill minefield Minefields had contaminated areas of 15 000 000m², 144 953 124m² and

19 964 382m². Vigorous land release activities by the operators during the period of the fourth extension to date reduced the figure to **66 230 103 m²**. Zimbabwe and its international partners have processed **142 763 267 m²**, representing 68.3% of all SHAs and CHAs in the country as at 2014. The challenge remaining as at Dec 2016 was **66 230 103 m²** and is summarised on table 2 below.

Table 2. Contamination level as at Dec 2016

	Mined Area	Linear Distance (km)	Area (m²)	Clearance Organisation
1	Musengezi to Mazowe River	229.00	14'523'000	HALO Trust
2	Mazowe River to Rwenya River	130.00	11'277'700	MAG
3	Sango Border Post to Mwenezi River	35.00	17'292'098	NMCU
4	Sango Border Post to Mwenezi River	35.00	7'181'638	APOPO
5	Rusitu to Muzite Mission	71.80	8'702'023	NPA
6	Sheba Forest to Leacon Hill	54.00	7'281'912	NPA
7	Lusulu	1.50	56'000	NMCU
	Total	556.3	66'230'103	

Clearance Plan for the Extension Request

Zimbabwe aims to complete its clearance obligations within 8 years, (2018-2025). A work plan based on existing capacities and funding has been developed for the period of the extension, as shown on table 3 below. During the extension period, ZIMAC will revise the work plans yearly so that it remains relevant and more accurately direct operations. These plans will be reported on an annual basis through Zimbabwe's Article 7 transparency report. An initial detailed work plan covering the period 2017-2018 is attached as Annex B.

Zimbabwe

Annual clearance during the extension period including 2017 (in m²)

Minefield	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
Musengezi to Mazowe (HALO)	1'290'300	1'405'700	1'740'000	1'740'000	1'740'000	1'740'000	1'740'000	1'740'000	1'302'732	14'438'732
Mazowe to Rwenya River (MAG)	700'000	802'000	1'100'098	1'300'000	1'500'000	1'600'000	1'650'000	1'550'000	1'075'602	11'277'700
Crooks Corner to Sango Border(Reinforced Ploushare) (NMC)	2'100'000	2'100'000	2'100'000	2'100'000	2'100'000	1'900'000	1'900'000	2'000'000	992'098	17'292'098
Crooks Corner to Sango Border (Cordon Sanitaire) (APOPO)	300'000	900'000	750'000	900'000	850'000	900'000	1'000'000	800'050	781'588	7'181'638
Rusitu to Muzite Mission (NPA)	164'104	984'000	1'000'000	1'200'000	1'500'000	1'600'000	1'600'000	653'919		8'702'023

Sheba Forest to Leacon Hill (NPA)	1'795'000	1'810'000	1'810'000	1'866'912						7'281'912
Lusulu (NMC)					30'000	26'000				56'000
Total	6'349'404	8'001'70 0	8'500'09 8	9'106'912	7'720'000	7'766'00 0	7'890'000	6'743'969	4'152'020	66'230'10 3

**Table
3.
Annual
clearan
ce**

during the extension period (m²)

Annual Finance

The Zimbabwe Government has over the past three years provided funding to the tune of (\$1.5 m) at the rate of (\$500,000.00 annually for its demining institutions and national clearance operations. This is expected to continue and increase when the country's economic situation improves.

Table 4. Clearance Budget during the Extension Period 2018 to December 2025 UD\$

Organisation	Year									Total
	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Zimbabwe Government Financial Support (US million dollars)										
NMCU	0.60	0.70	0.90	1.00	1.00	1.50	2.00	2.50	2.50	12.70
International Donor Financial Support (US million dollars)										
NPA	3.00	3.15	3.30	3.46	3.63	3.81	4.00	4.20	4.41	32.96
HALO	4.65	4.65	5.25	5.69	5.80	6.03	6.21	6.40	6.59	44.68
APOPO	0.50	2.00	2.00	2.00	3.40	3.50	3.40	2.40	2.00	21.20
MAG	0.70	1.00	1.00	1.50	1.50	3.00	3.00	3.00	3.00	17.70
Sub-total	9.35	10.80	11.55	12.65	14.33	16.34	16.61	16.00	9.41	117.04
Total	9.95	11.50	12.45	13.65	15.33	17.84	18.61	18.50	11.91	129.74

The Government of Zimbabwe remains committed to carry out its Article 5 obligations and the progress achieved can be seen in the following factors:

- Low accidents rates among civilians
- Low accident rates among demining operators
- Low security risks in country for operations
- High impact of cleared land for socio-economic development of communities, local and international businesses.
- Areas and size of contamination is known with a clear plan, known capacities and resources to achieve these obligations.

1. Origins of the Article 5 Implementation Challenge

The origin of Zimbabwe's Article 5 implementation challenge derives from the War of Liberation when between 1976 and 1979 the then Rhodesian Army laid minefields along the Northern and Eastern borders of the country to prevent infiltration and resupply of Zimbabwean liberation fighters operating from Mozambique and Zambia respectively. Combat action between the Liberation forces and the then government forces also resulted in large amounts of unexploded ordinance scattered around the country.

Following considerable research and planning by the then Rhodesian Army, minefield construction commenced in 1976 in the North Eastern border area of what is now Zimbabwe. By 1979, minefields had been laid in eight significant areas. Several smaller minefields were also laid further inland to protect key infrastructure and permanent bases. The areas where the minefields were laid are highlighted on the map of Zimbabwe below and further information on the types of minefields are contained in Annex A

ORIGINAL MINEFIELDS LOCATION IN ZIMBABWE

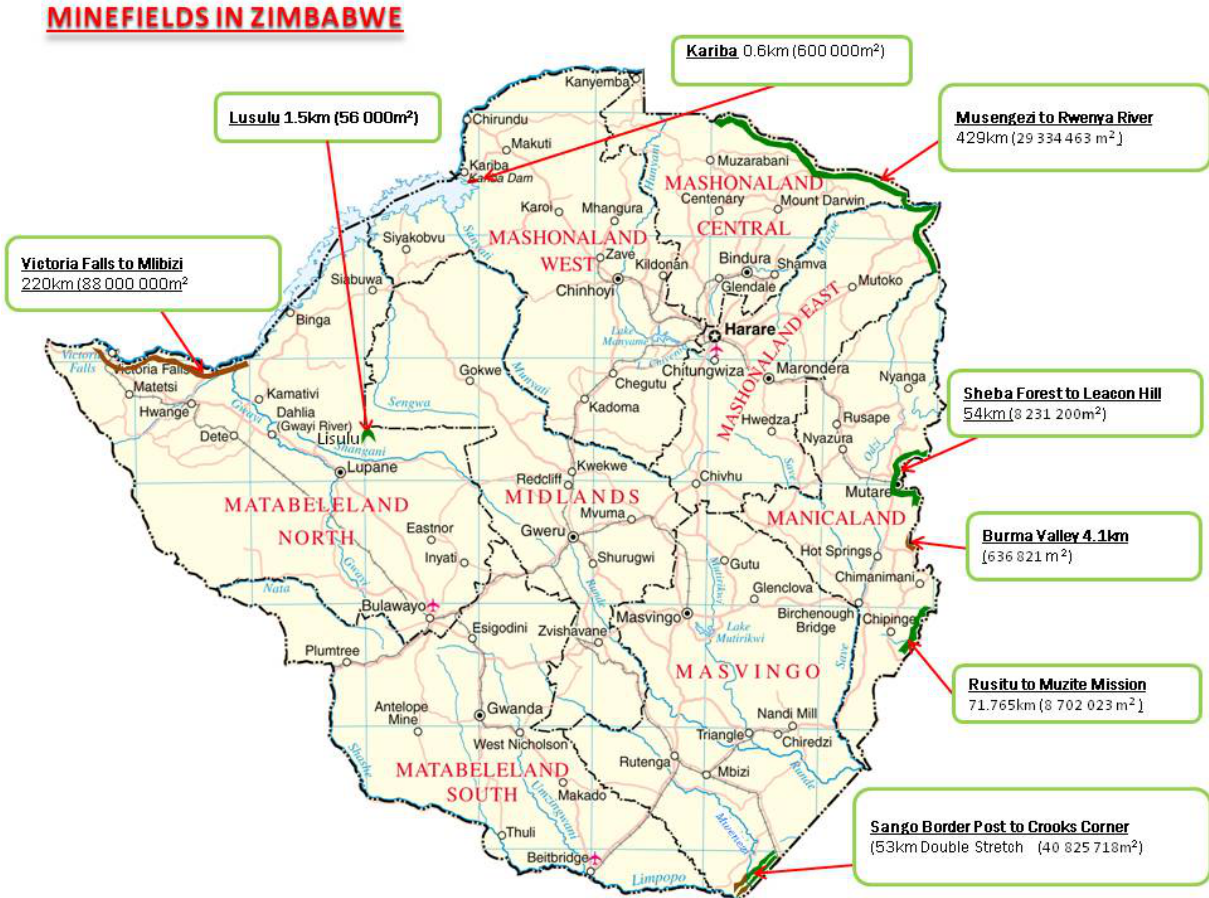


Figure 1 Original minefields in Zimbabwe

a. **Circumstances that impeded compliance in last extension request.**

The circumstances that impeded compliance have been highlighted in the previous three extension requests, similarly the fourth extension period was centred on the re-surveys of the remaining contaminated and suspected hazardous areas. The remaining contamination or suspected areas was huge so much that it was not possible to do the surveys and complete clearance within the three year period granted the current extension period. Further to that the Government did not have enough resources to fully support survey and demining operations.

Accordingly, the nature of the fourth extension request was designed around a short period of time in order to complete re-survey of all the mined areas to determine confirmed hazardous areas. These factors include a lack of sponsorship from the international community and donors. Today, Zimbabwe is happy to report that many of these challenges have lessened given the support that Zimbabwe is currently receiving from international organizations. Key factors impeding timely completion of Zimbabwe's Article 5 obligations are summarised table 5 below.

Table 5. Summary of Circumstances impeding compliance

Serial	Circumstance	Comments	Degree to which circumstance may impede the ability of Zimbabwe to destroy all anti-personnel mines in mined areas
(a)	(b)	(c)	(d)
1	Level of contamination	The remaining contaminated or suspected hazardous areas were huge to be completed within three years. Also taking into account that priority was on re-surveys thereafter clearance	High although re-surveys are now complete focus now on clearance
2	Inadequate funding for demining from the Government	The economy is depressed and constrained. Zimbabwe is unable to access funds from multilateral institutions to revitalise the economy. The government has numerous pressing commitments to meet	High degree

		with the little resources available This then means that the national demining unit will not operate at full capacity due to shortage of equipment and logistical resources. However there are indications that the international community may assist in the near future as such organisation like ICRC, HALO Trust, NPA, MAG and APOPO have partnered the Government.	
3	Insufficient demining equipment.	Due to inadequate equipment, the available military demining capacity cannot be fully utilised.	The situation is improving with the assistance from ICRC.

b. Humanitarian, economic, social and environmental implications

The clearance of land will result in more benefits in humanitarian, economic, social and environmental aspects in the endeavour to fulfil the work to be carried out during the requested period. This will allow for more land to be relieved of mines thereby creating more room for greater opportunities. Business opportunities in areas of agriculture, tourism, mining, game ranging and industrial sites would be realised over the period. On the social aspect, local inhabitants will freely access their water sources, have ample grazing land for their domestic animals and travel across lands to visit their relatives without risking their lives and limbs. In such a situation, investors would be much more willing to make business in a mine free land resulting in poverty reduction.

c. Socio-economic impact of Landmines in Zimbabwe

These mined areas have a severe socio-economic impact on Zimbabwean rural communities. They have severely affected the rural populace in the affected areas as livestock have been and continue to be killed by mines. Mines also continue to injure or in extreme cases kill humans. What is clear, however, is that the population that is at most risk from landmines includes poor rural subsistent farmers, who are often forced through economic necessities to take risks.

Impact on the Population of Zimbabwe

The mines do not affect the entire population of Zimbabwe but those living adjacent to minefields, it is those communities close to mined areas, the poor rural subsistence farmers, who are often forced through economic necessities to take risks. From information gathered so far, the greatest impact on the population has proven to be on the Musengezi to Rwenya and the Sango Border Post to Crooks Corner minefields. In a nutshell, the contaminated areas deny the local populace agricultural land, free movement of people and grazing land for the communities livestock among others.



Photo 1. Women walk safely through the cleared minefield to collect water

Impact on Rural Communities

Mined areas are mostly in remote rural areas that are inhabited by poor peasant farmers whose livelihood depends on farming and livestock rearing. Mined areas deny peasant farmers about 77.280 000m² of fertile land of which 25 000 000m² is in Mukumbura and 15 000 000m² in Rusitu/Muzite area. Minefields have both an economic and social impact on these people, especially those that live adjacent to or within mined areas. They deny freedom of movement to these people. This in turn impacts on socialisation with relatives across the mined areas. Some have attempted to cross these minefields in order to maintain contact or communication with relatives and the unlucky ones have been maimed or injured by anti-personnel mines.

Minefields also deny the same people access to water sources as well as grazing land. Out of desperation, some people who live adjacent to known mined areas have as a result of land pressure ended up taking unnecessary risks by cultivating crops or herding their livestock in mined areas that have not been cleared. This has in most cases resulted in injury or in some cases death as a result of unavailability of suitable health care facilities in rural areas to deal with traumatic injuries caused by landmines. Very large numbers of livestock, a source of livelihood for the affected peasant farmers have also been lost. It is estimated that since 1980; over 1,561 humans were killed or maimed by mines and explosive remnants of war, more than 120 020 livestock and thousands of wild animals have been killed. The denial of land due to existence of mines is with very few exceptions.

Impact on Commercial Farming

An area of about 5 000 000m² of commercial farm land for tea estates and timber plantations is mined, and in some of these areas, there is timber that is now well past its maturity and has obviously already lost its commercial value. Although no computation has been made, the revenue and potential income that has been lost by the country as a result of the existence of mines in these areas is too significant to be ignored.

Impact on Tourism

The successful completion of the clearance of the Victoria Falls to Mlibizi minefield in 2005 unlocked tourism development potential around the town of Victoria Falls. Significant tourism development has taken place in the cleared area. State of the art tourist facilities and infrastructure such as an aerodrome for tourists and other activities have been constructed and are operational in the cleared area. However tourism development has remained a challenge in a huge area of the Great Limpopo Transfrontier Park

(GLTP), a tripartite tourism project by Zimbabwe, South Africa and Mozambique where the Sango Border Post to Crooks Corner minefield is located and where contaminated areas remains un-cleared.

2. Nature and Extent of Progress Made during fourth extension request: Qualitative Aspects

During the fourth extension period from June 2014 to December 2016 progress has been achieved both on the clearance front and total survey of all mined areas. The successful completion of re-surveys of all contaminated or suspected areas was a milestone achievement as today Zimbabwe can declare the remaining contamination with a high degree of accuracy. The surveys and clearance has reduced swaps of land as such estimation of the timeframe for the clearance of the remaining contamination was made possible. The capacity building and expansion of the current demining partners including the NMCU has seen the increased pace of clearance.

a. Resources made available to support progress

Institutional Strengthening of ZIMAC

The ZNMAS was compiled by the NAMAAZ on behalf of the Government of Zimbabwe. This document is written in accordance with the International Mine Action Standards (IMAS), and upholds the same conventions advocated by IMAS relating to all mine action activities governed and supported by IMAS. It was first compiled in 2010, drafted and approved in 2013. The document is subject to review and revision. All mine action organisations have started operating basing on these standards.

Government of Zimbabwe strengthening of national mine action capacities

The Government of Zimbabwe is fully committed to rid the country of all landmines. This has been amply shown by its consistency allocating an annual amount of USD\$500 000 for demining operations during the last extension request, (2014-2016). Although the funds allocated have been inadequate to allow for the contracting of commercial demining companies to complement the military humanitarian demining efforts, Zimbabwe has gone a long way in demonstrating national ownership of the demining programmes.

Expansion of Demining Capacities

There has been impressive expansion capacity on the part of the NMC Unit and the demining partners, HALO Trust and NPA.

Since signing an MOU with the Government of Zimbabwe in 2013, the ICRC has continued to support the NMCU operations over and above the support by the Government of Zimbabwe. They have donated a host of demining equipment and protective clothing including training of ZIMAC staff and deminers on best practice methods. The provision of equipment has seen the NMC Unit increasing its deminers to 150 up from 120 in the previous years. The Unit also boasts of self-sufficiency in terms of expertise due to international training courses conducted by ICRC. Beside trainings from ICRC, ZIMAC and NMCU staff attended GIS training with NPA in 2015.

HALO has been generously supported by the governments of the US, UK (DFID), Ireland (Irish Aid), Japan as well as the Julia Burke Foundation, World Without Mines, Actifonds Mijnen Ruimen, Jack Deloss Taylor Charitable Trust, The Dulverton Trust and Foundation Pro Victimis. HALO Trust hopes for continued support from these donors and will approach new ones in order to obtain the funding needed to expand operations in order to complete clearance within the national authority's timeline.

NPA is funded by the Norwegian Ministry of Foreign Affairs (NMFA), the United States Department of States (USDoS), the UK (DFID). International Trust Fund/Enhancing Human Security (ITF). In addition NPA has received funding from the United States for the testing of new clearance equipment. NPA increased their teams to 7 up from 4 the previous year.

MAG who are set to begin operations July 2017 will be funded by US Department of Defence, US Department of State, and DFID as well as private trusts and foundations. APOPO which will begin operations in June 2017, is to be funded by Hanover Flemish.

Development of National Strategic Plan for Mine Action, (2018-2025)

The formulation of the Zimbabwe National Mine Action Strategic Plan commenced in December 2016 with the assistance of GICHD Advisors and Zimbabwe Demining Stakeholders. This eight year plan will be finalised in 2017 and submitted to relevant ministries for approval. The NSP will highlight the Zimbabwe Mine Action aim, goals objectives from 2018 to 2025. Once approved, a copy of the national strategic plan will be sent as an annex to this request.

Drafting of National Standards during fourth extension period

During the fourth extension period, ZIMAC revised the National Mine Action Standards (ZNMAS). This document is binding and all operators in Zimbabwe abide by the set statutes. Their SOPs are inspected to ensure they conform to the ZNMAS. The notable inclusions on this work are the national standards on land release, handover, marking and quality management.

b. Methods used to identify areas containing AP mines.

Most of the minefields in Zimbabwe were known, fenced and marked. Mostly they stretch along the borders. Over the years, Zimbabwe had taken the recorded or length of the minefield and multiplied it by an average width of 1.3 km. During the initial extension period a more detailed analysis was undertaken by ZIMAC with support provided by Implementation Support Unit (ISU) which resulted in some areas being found to be free of mines hence reducing the initial extent of contaminated land.

c. Methods and Standards of Controlling and Assuring Quality

The ZNMAS on its own has Safety and Quality as the prime objectives, that is, it ensures that mine action activities are conducted safely to give quality products and services. Besides the ZNMAS, quality is guaranteed as early as the accreditation process where only organisations with good and known track record are accredited. Organisations are also to show evidence of a robust internal quality management system as a requirement for operating in Zimbabwe. On deployment, organisations are attached with ZIMAC Quality Assurance (QA) Officers who conduct daily monitoring of an organisation's mine action activities and assisting the organisations on best ways of doing things which assure quality end product. Over and above the ZIMAC QA Officers, each organisation has its own internal QC measures. Besides this daily monitoring, ZIMAC Quality Management (QM) Office Section conducts both deliberate and impromptu visits to carry out quality assurance checks on clearance or training worksites. Noted none conformities are discussed and rectified. After the total clearance of a particular minefield segment, a Quality Control (QC) Team from ZIMAC carries out post clearance sampling and inspection. This is done to all cleared areas including NMC Unit's work.

Between 12 and 24 months after hand over, ZIMAC in conjunction with the responsible demining organisation carry out post-handover impact assessment to verify if the clearance met the intended standard. This includes going around the communities assessing what they are using the cleared land for and if they are coming across any suspicious objects. A handover process is included in ZNMAS 08.04, Section 9, Completion Report and Handover Certificate, with example documentation given in [Annex B Guidance on the use of IMSMA for post-clearance documentation](#). These standards direct operators on procedures for informing ZIMAC, NAMA AZ and communities on completion of tasks.

d. Efforts Undertaken to Ensure Effective Exclusion of Civilians from Mined Areas

Zimbabwe has a national standard for Mine/ERW Risk Education, (ZNMAS 11). This standard ensures that ZIMAC and demining organisations have a responsibility to ensure that MRE activities are carried out in a safe, effective and efficient manner, but also in a manner that includes full community liaison. The aim should be to reduce the impact on men, women, boys and girls living in, or near to, land contaminated with Mines/ERW. ZIMAC's Mine Risk Education policy is outlined in the ZNMAS and is drawn up in accordance with the national MRE policies of Zimbabwe.

MRE continues to be done to educate people in mine affected areas on the dangers of mines. Mine risk education teams take advantage of community developmental and social gatherings to disseminate information. Face to face and small media methods are used to communicate with the targeted audiences. In 2015, an MRE course was conducted and the MRE teams have increased their outreach programmes. In order to raise awareness of the scale of the challenges communities face and to enable the media and general public improve their understanding of the efforts being done to address the landmine problem, a Mine Action Media Awareness campaign was launched on 31 October 2013. The inaugural event involved eight (08) local and international media houses. HALO Trust and NPA also conduct community liaison and MRE within allotted areas.

Based on ZNMAS 08.05 Chapter 6. The hazard marking system is designed to provide clear warning to the local population of the presence of mines or ERW.

Some of the mined areas were previously marked by a perimeter fence to ensure the effective exclusion of civilians from mined areas. However, the perimeter fence has since been damaged by animals and some of it was removed by the local inhabitants for their own use. Owing to prohibitive costs and lack of sustainable measures to secure the perimeter fence from theft, the vandalised/stolen fence has not been replaced. However, danger warning signs and concrete beacons to alert civilians of the existence of a minefield were erected. During the requested extension period, MRE will be carried out by all organizations as part of clearance operations.

e. Survivor Assistance

Zimbabwe is committed to the care of survivors and will be developing survivor assistance as part of national strategic plan that is expected to be approved in 2017. This strategy will greatly improve Zimbabwe's response to survivors. HALO has formed a

partnership with Zimbabwean-based Cassim's Prosthetics through which HALO identifies mine survivors while registered prosthetist Mr. Cassim provides a made to measure prosthetic limb. Over 30 men and women have benefitted from this partnership in 2015.

f. Nature and Extent of Progress Made: Quantitative Aspects

The **636 821m²** Burma Valley minefield was completely cleared by NPA and handed over to the local authorities for productive agricultural use in June 2015. ZIMAC QC Teams continue to carryout post clearance on all areas cleared by the NMC Unit and the two demining partners. Since the start of operations up to December 2016, an area of **2,739,198m²** (28km Mukumbura to Chigango Stretch) was cleared by HALO Trust and ZIMAC QM Team conducted Post Clearance Inspection of the area expected to be handed over to the local authorities in due course after a few portions noted on the QC have been attended to.

On the other hand an area covering 12 370 064m² (21km double stretch) cleared by the NMC Unit is currently under post clearance re-verification to ascertain if the level of clearance done previously meets the intended land use. On completion of this process, a hand over ceremony will be arranged. NPA has also cleared an area covering 500 065m² with external QC by ZIMAC Team already completed only awaiting handover.

To date a total of **159'997'972**. has been released since 2014 culminating in the destruction of **37 913** anti-personnel mines. UXOs have been routinely recovered from battle areas in the country side by military EOD teams stationed at Provincial Centres.

Clearance has been spearheaded from three fronts, that is, by military engineers with funding from Government on the Crooks Corner to Sango Border Post minefield, HALO Trust working on the Rwenya to Musengezi Minefield and NPA who completed the Burma Valley minefield are now on the Leacon Hill to Sheba forest Minefield. These clearance organisations have also conducted detailed technical surveys and clearance on their respective minefields further trimming down **208 993 163m²** of contamination as at in 2014, by 68% to **66,230,103 m²**, which is a significant achievement.

Table 6. Contamination level at the start of fourth extension request, (2014)

Mined Areas	Total Area (m ²)
NMC Sango Border To Crooks Corner	28,605,729
HALO Trust Musengezi to Rwenya	145,272,748
NPA Burma Valley	493,598

NPA Sheba to Leacon	20,000,000
NPA Rusitu/Muzite	28,800,000
NMC Lusulu	56,000
Total	223,228,075

During the extension 142 763 060 m² has been processed, representing 68% of all confirmed and suspected mined areas in the country. The challenge remaining at end of December 2016 was **66,230,103 m²**. The qualitative and quantitative nature of these achievements will be explained in the sections below.

Table 7. Summary of Progress Made, (Dec 2014-December 2015)

ZIMBABWE disaggregated survey and clearance results 2015						
Organisation	Total remaining hazardous area as at Jan 2015 (in m ²)	Area cancelled through NTS (in m ²)	Are reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
NMC	28,455,654		2,101,300	73,232	2,174,532	26,281,122
HALO Trust	144,953,124	115,888,639	797,943	394,809	117,081,391	27,871,733
NPA Burma Valley	414,135	329,750	76,365	8,020	414,135	0
NPA Sheba to Leacon	19,964,382	11,583,106	51,617	160,062	11,794,785	8,169,597
NPA Rusitu/Muzite	15,000,000		0	0	0	15,000,000
NMC Lusulu	56,000	0	0	0	0	56,000
Total	208,843,295	127,801,495	3,027,225	636,123	131,464,843	77,378,452

Table 8. Summary of Progress Made Jan-Dec 2016,

Name of mined area	Total area known to contain anti-personnel mines as of Jan 2016 (in m ²)	Area cancelled through NTS (in m ²)	Are reduced through TS (in m ²)	Area cleared (in m ²)	Total area cancelled, reduced and cleared (in m ²)	Total remaining hazardous area (in m ²)
Sango Border Post to	26,281,122	0	1,675,391	131,995	1,807,386	24,473,736

Crooks Corner						
Musengezi to Rwenya	27,871,733	0	1,127,597	1,027,704	2,155,301	25,800,700
Sheba to Leacon	8,169,597	0	376,068	511,616	887,684	7281913
Rusitu/Muzite	15,000,000	6,297,977	0	0	6,297,977	8,702,023
Lusulu	56,000	0	0	0	0	56,000
Total	77,378,451	6,297,977	3,179,056	1,671,315	11,148,348	66,230,103

3. The Remaining Challenge:

a. Nature of remaining challenge: Qualitative aspects

The geographical locations of the remaining minefields in Zimbabwe's jurisdictions and control are highlighted on the map of Zimbabwe below.

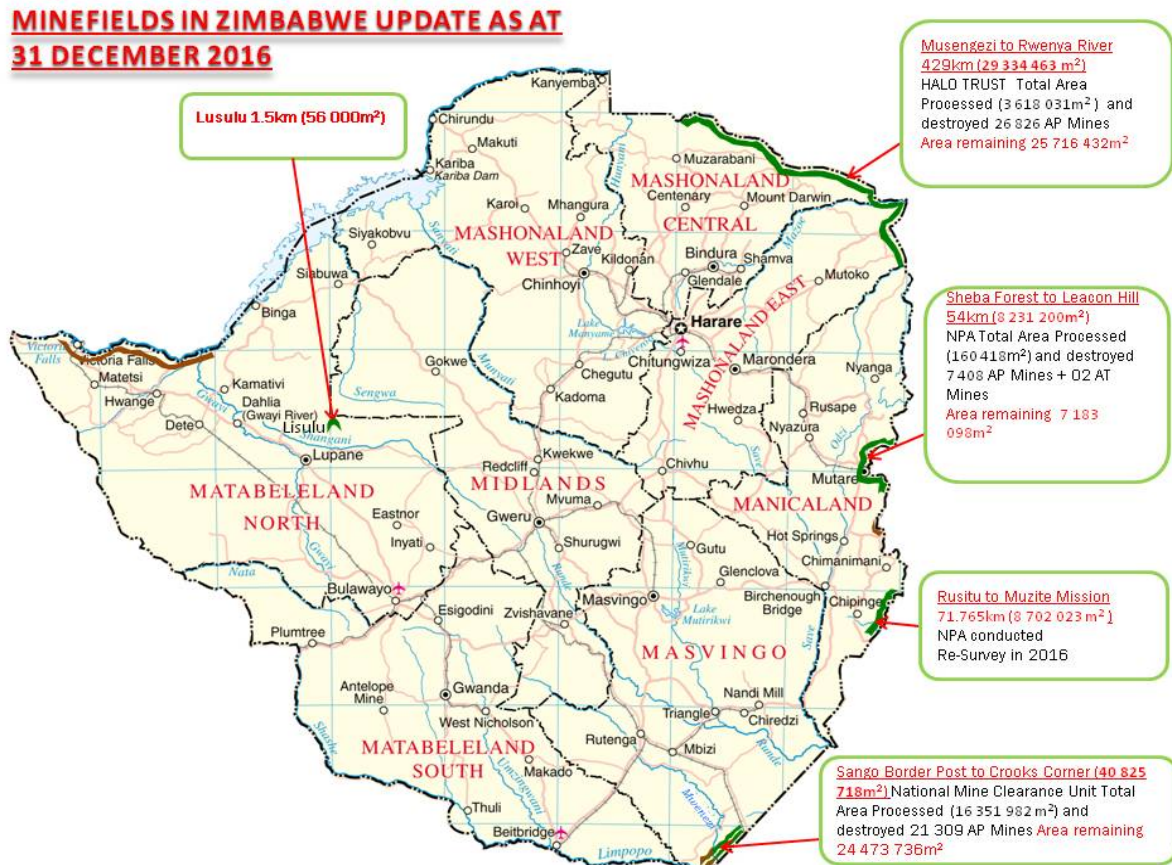


Figure 2. Mine Fields in Zimbabwe as of December 31, 2016.

Musengezi to Rwenya River Minefield (HALO and MAG)



Figure 3. Musengezi to Rwenya River Minefield

The minefield was originally estimated to cover a frontage of 335km and 400m depth. This is the longest minefield containing in some areas the cordon sanitaire, the ploughshare and the ploughshare reinforced minefields running parallel to each other. Before survey began the estimated area was over 145 000,000m². HALO's survey was able to cancel 80% of that area, leaving 29.200,000m² of land in the north east which required clearance. In terms of responsibility for clearance, this entire area will be split between operators with HALO being allocated the minefields in Mashonaland Central Province i.e. from Chidodo to the Mazoe River.

The minefield inhibits free movement of people, some with relatives on the Mozambican side and vice versa, access to water resources, grazing land and cultivation by the local inhabitants which is the source of their livelihood. In some areas, the villages are as close as 100m from the minefield which means children who were born since independence have never ventured more than 100m East of their villages except where there were gaps opened through the minefield.



Photo 2. Some of Chimushonga Community settlements are 50m -100m from the minefield

This minefield has the highest number of reported mine victims including livestock.

The known victims from this minefield are one hundred and fifty two (152) which includes girls, women, boys, and men. Boys are injured while herding cattle when they stray into the minefield, while women get injured while fetching firewood. Men sometimes sacrifice their lives when one of their livestock gets hit by a mine instead of watching it die, they try to retrieve the injured livestock and in the process get injured by mines.

In terms of livestock injured or killed by mines, there are no accurate statistics as some go unreported, suffice to mention that in 2015 alone a total of sixteen cattle were hit by mines on this minefield. The figure might be more as some may not have been reported.

In addition to geographic and technical data HALO Trust observed that the humanitarian priorities here are as high as in any other country around the world. Roads were used as the safe baseline for the mine laying process. Post conflict, communities have settled along these same roads so we find minefields on one side and dense habitation on the other. Typically the minefields separate communities from their fields and water sources. Children have to walk beside minefields to get to class. While human casualties are relatively low (thanks to the minefields being well structured and well known to the communities), livestock accidents are a common occurrence. HALO Trust recorded 19 cattle accidents on one task in two months.



Photo 3. Children pass through cleared minefield during a break in demining.

Sheba Forest to Leacon Hill Minefield (NPA).



Figure 4. Sheba Forest to Leacon Hill Minefield

The minefield is a reinforced ploughshare and stretches for 50km along the Eastern border of the country. The minefield is generally in hilly and mountainous areas, characterized by thick bush of indigenous vegetation. The overgrowth is more pronounced during the rainy season and less after winter. Accessibility is difficult in wet weather. Further to the North the minefield is in timber plantations of eucalyptus and pine. Metal contamination is high where human activities take place or where fragmentation mines exploded.



Photo 4. Sloppy and rocky task at Cecil Kopje



Photo 5. Minefield perimeter fence post at Imbeza, notice the steep terrain



Photo 6. Technical survey lanes at Cecil Kopje Task

The minefield, however, inhibits cultivating of timber, some of which has overgrown its maturity stage. The farmers find it very difficult if not impossible to harvest their timber plantations due to the minefields. There are no statistics of mine victims on this minefields mainly the locals took heed of MRE as early as 1980. There are however people who illegally cross the border to and from Mozambique putting their lives in danger although there have been no incidents of mine victims to illegal border jumpers as they are referred to. Also the presence of minerals on the mined land cannot be overruled. Exploration of minerals is not possible until the minefield is totally cleared.



Photo 7. A deminer opens a two meter lane in the timber plantation during survey at Imbeza, Sheba Forest to Leacon Hill minefield

Rusitu to Muzite Mission Minefield (NPA)

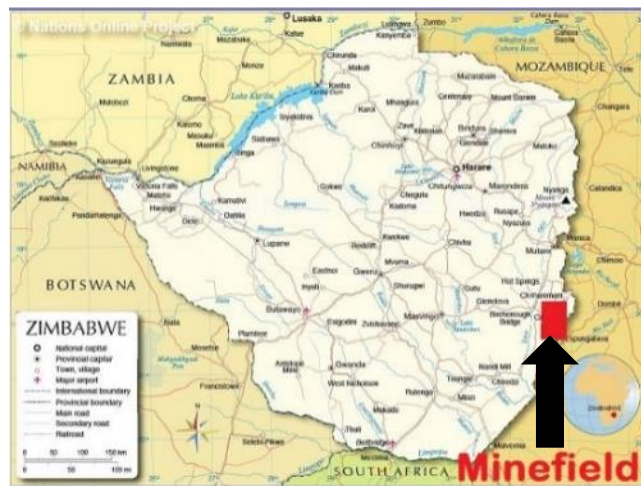


Figure 5. Rusitu to Muzite Mission Minefield

The minefield is also along the Eastern border stretching for seventy five kilometres (75km) hinders free movement of people some of whom have relatives across the border in Mozambique and vice versa, grazing land, water resources and cultivation. The area is predominately a tea plantation region. Expansion of tea estates and exploring new ones is not possible due to the minefield.

The minefield is generally in hilly and mountainous areas, characterized by thick bush of indigenous vegetation. The overgrowth is more pronounced during the rainy season and less after winter. A few rivers traverse the minefield flowing from Zimbabwe into Mozambique. Gorges and steep slopes are common. Accessibility is difficult in wet weather when roads become slippery.

Metal contamination is high where human activities take place or where fragmentation mines exploded. In some areas the soil is highly mineralised so that only specially modified minimum metal detectors are effective.



Photo 8. Local Population need to pass through the minefield to access water from Budzi River

Sango Border Post to Crooks Corner Minefield (NMCU and APOPO)



Figure 6. Sango Border Post to Crooks Corner Minefield

The Sango Border Post to Crooks Corner Minefield stretches for fifty three kilometres (53km) linear distance along the South Eastern corner of the country. There are two minefields running parallel to each other at a distance of 5km apart. The NMCU will undertake clearance on the Ploughshare minefield, (Sector 3) and APOPO will begin clearance on the cordon sanitaire minefield, (Sector 4).

The impact of this minefield is similar to other minefields documented above. Hindering the free movement of the local populace, tourists and reducing the amount of grazing land available for animals and wildlife. The area is predominately cattle ranching region and National Parks and Wild Life. The minefield runs adjacent to the Gonarezhou National Parks. This National Parks forms the tripartite game sanctuary joining the Kruger National Parks in South Africa and the Limpopo National Parks in Mozambique to form the Great Limpopo Transfrontier Parks (GLTP) one of the biggest game sanctuaries in the world.



Photo 9. Elephants grazing near Sango Border Post / Crooks Corner Minefield

The other two countries to the tripartite enjoy the privileges of the game sanctuary while the minefield on the Zimbabwean side deters tourists. The minefield has claimed numerous wildlife. The actual statistics are not easily obtainable but as confirmed by officials from National Parks and Wildlife Management, skulls of wildlife are scattered on the game reserve. On the other hand the reported human mine victims from this minefield is ten (10) mainly men injured while in search of their stray cattle.

Lusulu



Figure 7. Lusulu Minefield

The minefield is an inland minefield in Matebeleland North Province. It was laid as a protective minefield to the Lusulu Police Station, Shopping Centre and a Keep where the locals were mobbed and grouped in a protected locality by the then Rhodesian Forces. The minefield was partially cleared by NMCU in 2003 and 2004 to facilitate the expansion of the Police station and the shopping centre. A total of 56 000m² of the Lusulu minefield is yet to be cleared.

b. Nature of remaining challenge: Quantitative aspects

During its fourth extension request Zimbabwe clarified and more accurately defined its remaining challenge. The remaining challenge is given in Table 9 below.

Table 9. The Remaining Challenge given in metres squared

	Mined Area	Linear Distance (Km)	Area (m ²)
1	Musengezi to Mazowe River	229	14 438 732
2	Mazowe River to Rwenya River	130	11 277 700
3	Sango Border Post to Mwenezi River.	35	17 292 098
4	Sango Border Post to Mwenezi River .	35	7 181 638
5	Rusitu to Muzite Mission	71,8	8 702 023
6	Sheba Forest to Leacon Hill	54	7 281 913
7	Lusulu	1.5	56 000
8	TOTAL	624.5	66 230 103

4. Detailed Work plan

ZIMAC envisage meeting the 2025 free of mines Zimbabwe target by continuing clearance using the National Mine Clearance Unit, the HALO Trust, Norwegian People's Aid, MAG and APOPO. Zimbabwe is now aware of the remaining extent of contamination and at the current funding levels and anticipated future expansions, the target is achievable.

Zimbabwe aims to complete its clearance obligations within 8 years, (2018-2025). A work plan based on existing capacities and funding has been developed for the period of the extension, refer to table 13 below. During the extension period, ZIMAC will revise the work plans yearly so that it remains relevant and more accurately direct operations. These plans will be reported on an annual basis through Zimbabwe's Article 7 transparency reports. An initial detailed work plan covering the period 2017-2018 is attached as Annex B to this extension request .

Table 10. Allocation of the minefields for the extension period to Clearance Operator

	Mined Area	Linear Distance (km)	Area (m ²)	Clearance Organization
1	Musengezi to Mazowe River	229	14 523 000	HALO Trust
2	Mazowe River to Rwenya River	130	11 277 700	MAG
3	Sango Border Post to Mwenezi River	35	17 292 098	National Mine Clearance Unit
4	Sango Border Post to Mwenezi River	35	7 181 638	APOPO
5	Rusitu to Muzite Mission	71,8	8 702 023	NPA
6	Sheba Forest to Leacon Hill	54	7 281 913	NPA
7	Lusulu	1.5	56 000	National Mine Clearance Unit
8	TOTAL	624.5	66 230 103	

The plan and timelines have been put together in collaboration with partner organizations. It is important to highlight that this plan will see alterations as new organizations deploy staff on the field and accumulate lessons learned concerning operations in Zimbabwe.

Over the extension period, the National Mine Clearance Unit will continue clearance of the Sango Border Post to Crooks Corner reinforced Ploughshare minefield while international organizations will continue clearance operations of their allocated minefields. The current organisational capacities of clearance operators are shown in Table 11.

Table 11. Organisational capacities at start of the extension period

Organisational capacities at start of the extension period			
Serial	Activity	Area to be covered	Capacity at start of period
1.	TS and Clearance	Musengezi to Mazowe	30 sections in October 2016, May increase by October 2017, 240 deminers
2.	TS and Clearance	Mazowe to Rwenya	MAG- Not yet on the ground. Will probably have started by Oct 2017
3.	TS and Clearance	Sango Border Post to Crooks Corner(Ploughshare)	5 troops (150 deminers)
4.	TS and Clearance	Sango Border Post to Crooks Corner(Cordon Sanitaire)	APOPO- Not yet on the ground. Like MAG may start before year end
5.	TS and Clearance	Rusitu to Muzite Mission	40 deminers till 2020 when more will be added from completion of Sheba Forest
6.	TS and Clearance	Sheba Forest to Leacon Hill	66 deminers up to completion in 2020 then transfer to Rusitu to Muzite
7.	TS and Clearance	Lusulu	30 deminers to begin in 2020 from expansion of NMC Unit

a. Clearance Timeline

The clearance capacity and funding given are manageable estimates. The approximate clearance cost per square metre is at \$2.8 /m² which is way above the average clearance cost rate of \$1.8/m² as the future will become clearer by the unfolding of each year, the figures will always be revisited at the end of each year. The rate of clearance of the two new organisations will be set to improve with time as learning and improvement of methods will be taking place.

b. Estimated Funding required for extension request

To meet the target of 2025, the Demining organisations in Zimbabwe need funding as highlighted on table 6 below. This is in relation to the allocated areas. The projected budget is from 2017 to 2025. MAG and APOPO are likely to start working before end of 2017. All their figures were estimates. Table 13 below provides a summary of the expected funding for this period. Table 4 on page 10 provides an annual overview of the expected funding required by each respective humanitarian mine action operator to achieve clearance goals under this extension request.

c. Additional Activities during the extension period

- Resource mobilisation will be an ongoing effort in Zimbabwe with these efforts currently beginning to bear fruit. Funding support from the international community is expected to increase directed to international partners, the HALO Trust, Norwegian People's Aid (NPA), APOPO and Mines Advisory Group (MAG). Zimbabwe will also continue, as it has done in the past, to solicit support from the international community

Relocation of ZIMAC out of Military Cantonment

- ZIMAC will be relocated out of the cantonment area once Government avails funds for purchasing accommodation. Funds required for this are being sourced by the Ministry of Defence.

5. Risks and assumptions

During the extension period there are many factors that may affect the completion of demining activities targets stated in the extension request. The benefits of operating in Zimbabwe include:

- Low accidents rates among civilians. Using the Musengezi to Rwenya Minefield victims' statistics for period 2013 to 2016 it can be noted that through MRE,

accident rate decreased. Table 13 below shows the mine victims in the HALO operational area.

- Low accident rates among demining operators
- Low security risks in country for operations
- High impact of cleared land
- Areas are known, size of contamination known, plan capacities and resources

Table 12. Musengezi to Rwenya Mine Victims

Task ID	Accident Date	Year	Injuries	M/W/B/G	Activity
Rushinga	26/11/2016	2016	Unknown	Man	Heading Cattle
Nyamapanda	28/10/2016	2016	Lost a hand	Boy	Tampering
Nyamapanda	Feb-16	2016	Fragmentation injuries	Boy	Tampering
	03/11/2015	2015	Fragmentation injuries	Boy	Tampering
	02/11/2015	2015	Fragmentation injuries	Boy	Tampering
	02/11/2015	2015	Fragmentation injuries	Boy	Tampering
	01/11/2025	2015	Killed	Man	Tampering
	27/09/2015	2015	Lost an arm	Boy	Tampering
17	01/03/2014	2014	Above knee amputation	Man	Herding cattle
96	01/01/2014	2014	Fragmentation injuries	Boy	Tampering
96	01/01/2014	2014	Fragmentation injuries	Boy	Tampering
96	01/01/2014	2014	Fragmentation injuries	Boy	Tampering
96	01/01/2014	2014	Killed	Man	Tampering
96	01/01/2014	2014	Killed	Man	Tampering
7	01/01/2013	2013	Fragmentation injuries	Man	Tampering
15	01/01/2013	2013	Loss of fingers	Man	Tampering
54	01/01/2013	2013	Fragmentation injuries	Man	Tampering
54	01/01/2013	2013	Fragmentation injuries	Man	Tampering
72	01/08/2013	2013	Killed	Man	Tampering
107	01/12/2013	2013	Killed	Man	Tampering
111	01/06/2013	2013	Loss of both eyes	Woman	Foraging
171	01/07/2013	2013	Below knee amputation	Woman	Herding cattle
194	01/10/2013	2013	Below knee amputation	Boy	Herding cattle
200	01/12/2013	2013	Below knee amputation	Man	Hunting

The risks likely to be encountered in the areas are as follows:

Heavy rains.

Zimbabwe generally experience heavy rains during summer from November to March. During this time of the year demining activities may be suspended or conducted on a slow pace which may result in failure to meet stated deadlines of the extension period. Heavy rains may also move or deeply bury mines resulting in missed mines which may also delay the process.

Terrain

Minefields in the Eastern part of the country are located in thick vegetation and mountainous areas which may delay the process.

Ploughshear minefields

All minefields contain ploughshear mines which have already detonated of which fragments are scattered thereby slowing the pace of demining.

Financing

The plans for clearance of the mined areas in Zimbabwe will depend on the continuation of funding from the Government as well as from the international community.

Annex A. General Description of Minefields in Zimbabwe

Types of Mine fields

The types of mine fields present in Zimbabwe have been well documented in previous extension request. Notable characteristics of these fields will be outlined in this section below. All minefields contain both buried anti-personnel (AP) mines and above surface ploughshare fragmentation AP mines. The sub surface mines are still intact and active forty (40) years later. They have an activity rate of around 90%. Above 85% of the mined land had sub surface types which are the R2M2, VS50, RAP1 and the M969. The above surface ploughshare mines that have deteriorated and have an activity rate of below 2%. These have either detonated some due to activation from animals, throwing fragments all over the minefield or are still intact but the trip wires rusted away.

The full records of these minefields are not readily available, the then Rhodesian forces might have either destroyed them or hidden them but the few that are available are thorough and detailed. Over the years the Zimbabwe National Army has gathered and recorded a lot of useful information about the location of these minefields. In 1994, the first attempt at a consolidated analysis was undertaken by Mine Tech and this survey formed the basis of the original extension request.

During the initial extension period a more detailed level of analysis was carried out. However, this analysis was full of approximates and assumptions. Firstly the area calculations were based on a single frontage not recognising that in some instances there was a second parallel minefield some distance behind – between 1 and 5 km. Further to this, it was assumed that the cordon sanitaire, the ploughshare and reinforced ploughshare minefields had an average width of 400m. In reality the cordon sanitaire have an average with of 25m while the reinforced ploughshare is the one which average 400m.

Based on military planning processes and a limited number of records available, together with experience gained by the National Mine Clearance Unit, the three different types of minefields identified generally consist of:

1. Cordon Sanitaire

The cordon sanitaire barrier was laid **close to** or **on** the international border. It generally consists of three rows of sub-surface anti-personnel mines (AP mines) laid in a standard pattern with an average width of 25m.

2. Ploughshare Minefield

The ploughshare minefield consists essentially of three rows of *ploughshare* directional fragmentation AP mines mounted on 0.5 to 1m high stakes protected by sub-surface AP mines.

3. Reinforced Ploughshare Minefield

The reinforced *ploughshare* minefield is essentially 3 rows of *ploughshare* directional fragmentation AP mines mounted on 0.5 to 1m high stakes protected by sub-surface AP mines. These rows will be laid back to back with sub surface clusters of AP mines. The average depth of this type of minefield is 400-500m

Annex B. Zimbabwe Mine Action Work plan for 2017 to 2018

Musengezi to Rwenya Minefield

a. Musengezi to Mazowe sector.

As at 31 December 2016 HALO Trust was left with a total of 25 716 432m² uncleared area of the Musengezi to Rwenya Minefield. In case MAG turn up for the Mazowe to Rwenya sector HALO Trust remain with 14 438 732m² from Musengezi to Mazowe minefield sector as at the above period.

Current Capacity. HALO Trust currently has a capacity of 29 demining sections with a total of 240 deminers. With total capacity, HALO has been averaging approximately 130,000m² of clearance per month.

Activities and Milestones for 2017 to 2018

Training: A mechanical demining team will be trained in the first half of 2017. Refresher training in conducted monthly with existing manual deminers. Further training courses will be run if there are opportunities for expansion.

Deployment: Demining is seasonal due to adverse weather conditions during the rainy season; however, in the area where HALO Trust is operating it is possible to identify tasks that can be worked on during the wet season. does not receive too much rainfall hence they operate throughout the year with monthly breaks.

Annual Projections: HALO Trust is projected to address 1 600 000m² in 2017 and 1 500 000m² in 2018 and remain with an area of 11 338 732m² of the Musengezi to Mazowe River Minefield sector to be completed by 2025. (The 2017 figure is higher than 2018 as HALO is currently working on tasks with very little contamination and hence higher than normal clearance rates.)

Future Plans. If additional funding can be sourced, it is HALO Trust's intention to increase the number of manual demining sections deployed. The mechanical demining team should be operational by mid-2017 and should improve clearance rates on tasks with very high metal content/ deeply buried mines.

b. Mazowe to Rwenya Minefield sector

To be cleared by MAG. The Organization is expected to start work in July, 2017. MAG is expected to complete 350 000m² in 2017 and 900 000m² in 2018 and remain with an area of 10 027 700m² to be addressed by 2025.

SHEBA FOREST TO LEACON HILL MINEFIELD

As at 31 December 2016 NPA remained with an area of 7,183 098m² un-cleared land.

Current Capacity. NPA commenced clearance of this minefield in June 2014 and currently they have a capacity of seven (7) demining teams with a total of 70 deminers. The current average monthly clearance rate is 44,880m². 2016 annual clearance of 511,616m² and annual land release of 887,684 m².

ACTIVITIES AND MILESTONES FOR 2017 TO 2018

Training: Training for deminers, Team Leaders, Supervisors and EOD Level 2 Course conducted concurrently with refresher trainings for old deminers as and when required.

Deployment: Demining is seasonal due to adverse weather conditions during the rainy season, however, NPA work throughout the year and break for annual leave during the course of the year.

Annual Projections: NPA is expected to release 930,000² in 2017 and 762,800² in 2018 and remain with 5,490 298m² to be completed by 2025.

Future Plans. NPA intends to improve on methodologies and use of advanced alternative technology to increase the rate of clearance. Given more funding, they are set to grow even more in the year 2017 with the introduction of the MDD team on the cards.

RUSITU TO MUZITE MISSION MINEFIELD

Results of Survey. NPA conducted a merged non-technical survey (NTS) and technical resurvey(TS) of the Rusitu to Muzite Mission minefield in October 2016. Originally the minefield was estimated to be 15,000,000m², from the survey the spans a total of 71,765meters in length and totals of 8,702,023m² containing an estimated 6,470 anti-personnel mines.

Current Capacity. Deployment of three manual demining teams is set for September 2017, with the MDD to join by latest January 2018.

Activities and Milestones for 2017 to 2018.

Annual Projections: NPA is expected to release 570,000m² in 2017 and 737,200m² in 2018.

Resources Required. The resources required will be taken from the current capacity under the Sheba Forest to Leacon Hill minefield.

Sango Border Post to Crooks Corner Minefield

Results of Survey. From resurvey and mapping conducted by National Mine Clearance Unit in May 2016 it came out that Crooks corner to Sango Border Minefield has a total area of 40 825 718m². As at 31 December 2016 a total area of 24 473 736m² remained uncleared.

Current Capacity. NMC Unit has a compliment of five (5) troops (150 deminers). The monthly clearance rate is 12 600 square metres (680 400m²/ Annual clearance).

Activities and Milestones for 2017 to 2018.

Training: Deminer training for new deminers and refresher training for old deminers is done annually in March. Demining season is from April to November after which deminers go for the annual shutdown from December to March of the following year.

Annual Projections: NMC Unit is expected to clear 2 100 000m² in 2017 and 2 100 000m² in 2018 and remain with 13 092 098m² of the ploughshare minefield to be completed by 2025. The Cordon Sanitaire minefield was allocated to APOPO which is expected to have started work in February 2017. APOPO is also expected to complete 300 000m² in 2017 and 600 000m² in 2018 and to remain with an area of 6 281 638m² again to be completed by 2025.

Resources Required. The NMC Unit continues to receive demining equipment required to replace old and/or broken down equipment.

Equipment: The fiscus provides US\$ 800 000 for both equipment and other operational costs.

Rations: Supplied through normal army channels.

Salaries and allowances: Covered through the fiscus.

Future Plans. Resources are being mobilised to equip and logistical support NMC Unit.

LUSULU. The Lusulu minefield was partly cleared in 2003 with an area of 2 368 square metres released for expansion of the Lusulu business centre. An area of 56 000 square metres remains to be cleared
ZIMAC

Quality Control by ZIMAC team to be conducted on all areas which clearance has been completed by demining organizations. Also land release and handover of ZIMAC Quality checked areas to be done in 2017.

Table 13. Projected budget for the Period 2017-2018

Ser	Organisation	Projected Annual Budget(million dollars)		Total Projected Budget(million dollars)	Remarks
		2017	2018		
1	ZIMAC	0.3	0.5	0.8	For Quality Control and Information Management.
2	NMC Unit	0.6	0.7	1.3	Funded from the fiscus by the Government of Zimbabwe. The budget does not include employment costs.
3	HALO Trust	4.65	4.65	9.3	
4	NPA	3	3.15	6.15	
5	MAG	0.7	1.0	1.7	
6	APOPO	0.5	2	2.5	

ADDITIONAL ACTIVITIES DURING THE YEAR 2017 AND 2018.

- **Resource mobilization.** Resource mobilisation will be an ongoing effort in Zimbabwe with these efforts currently beginning to bear fruit. The Government of Zimbabwe will continue to fund demining operations by NMC Unit. Funding support from the international community is expected to increase through international partners, the HALO Trust and Norwegian People's Aid (NPA). Zimbabwe will continue internationalising the problem by attending and presenting on international platforms thereby soliciting support from the international community. ZIMAC will soon be hosting its website which will help reach the world. ZIMAC will solicit for increased funding from the fiscus.
- **Relocation of ZIMAC out of Military Cantonment.** ZIMAC will be relocated out of the cantonment area once Government avails funds for purchasing or renting accommodation. Funds required for this are being sourced by the Ministry of Defence and the Government is committed to the relocation of ZIMAC offices.
- **Development and Implementation of National Strategic Plan.** In the lead up to the submission of the extension request containing the national clearance plan, Zimbabwe is in the process of developing its National Strategic Plan to be presented in complement to the clearance plan after completion of resurvey reports from her demining partners.

RISKS AND ASSUMPTIONS

During the extension period there are many factors that may affect the completion of demining activities targets stated in the extension request. The risks likely to be encountered are as follows:

- **Heavy rains.** Zimbabwe generally experience heavy rains during summer from November to March. During this time of the year demining activities may be suspended or conducted on a slow pace which may result in failure to meet stated deadlines of the extension period. Heavy rains may also move or deeply bury mines resulting in missed mines which may also delay the process.
- **Terrain.** Minefields in the Eastern part of the country are located in thick vegetation and mountainous areas which may delay the process.
- **Ploughshear minefields.** All minefields contain ploughshear mines which have already detonated of which fragments are scattered thereby slowing the pace of demining.
- **Financing.** The plans for clearance of the mined areas in Zimbabwe will depend on the continuation of funding from the Government as well as from the international community.
- **Overall economic/ political climate.** The plan assumes that the political and economic climate remains conducive to demining operations.

Lessons Learned. Some of the partner organizations have not worked in Zimbabwe in the past hence clearance rates are estimations only. A full season's clearance is required before accurate figures can be produced.

ANNEX C: Disaggregated clearance figures for period 2013 to 2016

Organisation	Area cancelled through NTS (in m ²)	Area reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
NMC Sango Border To Crooks Corner		1,357,777	678,888	2,036,665	28,605,729
HALO Trust Musengezi to Rwenya		0	7,252	7,252	145,272,748
NPA Burma Valley	0	0	51,807	51,807	493,598
NPA Sheba to Leacon	0	0	0	0	20,000,000
NPA Rusitu/Muzite	0	0	0	0	28,800,000
NMC Lusulu	0	0	0	0	56,000
Total	0	1,357,777	737,947	2,095,724	223,228,075

ZIMBABWE disaggregated survey and clearance results 2014					
Organisation	Area cancelled through NTS (in m ²)	Area reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
NMC			150,075	150,075	28,455,654
HALO Trust		91,911	227,713	319,624	144,953,124
NPA Burma Valley	0	0	79,463	79,463	414,135
NPA Sheba to Leacon	0	0	35,618	35,618	19,964,382
NPA Rusitu/Muzite	13,800,000	0	0	13,800,000	15,000,000
NMC Lusulu	0	0	0	0	56,000
Total	13,800,000	91,911	492,869	14,384,780	208,993,370

ZIMBABWE disaggregated survey and clearance results 2015					
Organisation	Area cancelled through NTS (in m ²)	Area reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
NMC		2,101,300	73,232	2,174,532	26,281,122
HALO Trust	115,888,639	797,943	394,809	117,081,391	27,871,733
NPA Burma Valley	329,750	76,365	8,020	414,135	0
NPA Sheba to Leacon	11,583,106	51,617	160,062	11,794,785	8,169,597
NPA Rusitu/Muzite		0	0	0	15,000,000
NMC Lusulu	0	0	0	0	56,000
Total	127,801,495	3,027,225	636,123	131,464,843	77,378,451

ZIMBABWE disaggregated survey and clearance results 2016

Organisation	Area cancelled through NTS (in m ²)	Area reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
NMC		1,675,391	131,995	1,807,386	24,473,736
HALO Trust		1,127,597	1,027,704	2,155,301	25,800,700
NPA Sheba to Leacon	0	376,068	511,616	887,684	7,281,913
NPA Rusitu/Muzite	6297977	0	0	6,297,977	8,702,023
NMC Lusulu	0	0	0	0	56,000
Total	6,297,977	3,179,056	1,671,315	11,148,348	66,230,103

NMC Disaggregated Survey and Clearance results 2013-2016

Year	Area Cancelled through NTS in m ²	Area Reduced through TS (in m ²)	Area Cleared (in m ²)	Total Area cancelled, reduced and cleared (in m ²)	Total remaining hazardous area (in m ²)
2013		1,357,777	678,888	2,036,665	28,605,729
2014			150,075	150,075	28,455,654
2015		2,101,300	73,232	2,174,532	26,281,122
2016		1,675,391	131,995	1,807,386	24,473,736

NPA disaggregated survey and clearance results 2013 - 2016

Burma Valley					
Year	Area cancelled through NTS (in m ²)	Area reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
2013	0	0	51,807	51,807	493,598
2014	0	0	79,463	79,463	414,135
2015	329,750	76,365	8,020	414,135	0
Leacon Hill to Sheba					
Year	Area cancelled through NTS (in m ²)	Area reduced through TS (in m ²)	Area cleared (m ²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m ²)
2013	0	0	0	0	20,000,000
2014	0	0	35,618	35,618	19,964,382
2015	11,583,106	51,617	160,062	11,794,785	8,169,597

2016	0	376,068	511,616	887,684	7,281,913
Muzite to Rusitu					
Year	Area cancelled through NTS (in m²)	Are reduced through TS (in m²)	Area cleared (m²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m²)
2013	0	0	0	0	28,800,000
2014	13,800,000	0	0	13,800,000	15,000,000
2015		0	0	0	15,000,000
2016	6,297,977	0	0	6,297,977	8,702,023
HALO disaggregated survey and clearance results 2013 - 2016					
Year	Area cancelled through NTS (in m²)	Are reduced through TS (in m²)	Area cleared (m²)	Total area cancelled, reduced and cleared	Total remaining hazardous area (in m²)
2013		0	7,252	7,252	145,272,748
2014		91,911	227,713	319,624	144,953,124
2015	115,888,639	797,943	394,809	117,081,391	27,871,733
2016		1,127,597	1,027,704	2,155,301	25,716,432