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## IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

In the dispute between

Case No: MAMMN -

GCWIHABA RESOURCES (PTY) LTD

Applicant

And

MINISTER OF MINERALS AND ENERGY

ATTORNEY GENERAL

First Respondent

Second Respondent

FILING NOTICE

#### FILED HEREWITH:

- 1. Notice of Motion;
- 2. Founding Affidavit of MOAGI NTUKUNUNU and Annexures;
- 3. Confirmatory Affidavit of QUINTAN MADUWANE;
- 4. Draft Order;
- 5. Power of Attorney; and
- 6. Resolution.

DATED AT MAUN ON THIS 31 DAY OF OCTOBER 2022.



COLLINS CHILISA CONSULTANTS Applicant's Attorneys Gaborone Chambers Plot 4858, Lecha Close Off Marakanelo Way

#### P O Box 45136 GABORONE

TO: THE REGISTRAR High Court MAUN

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- AND TO: MINISTER OF MINERALS AND ENERGY First Respondent Fairgrounds Office Park GABORONE
- AND TO: ATTORNEY GENERAL Second Respondent Government Enclave GABORONE

# N THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

47. <sup>16</sup>	Case No:
S (PTY) LTD	Applicant
MAUN MIGH COURT PRIVATE BAG 30, MAUN CIVIL REGISTRY	
	First Respondent
DOCUMENTS RECEIVED	Second Respondent
	S (PTY) LTD MAUN MIGH COURT PRIVATE BAG 30, MAUN CIVIL REGISTRY SAND ENERGYCT 2022

NOTICE OF MOTION

#### (Filed in terms of Order 61 of the Rules of the High Court)

**BE PLEASED TO TAKE NOTICE THAT** on a date and time to be set by the Honourable Court the Applicant intends to apply to this Court for an order in the following terms:

- Calling upon the Respondents to show cause why the decision of the First Respondent dated 29 June 2022 rejecting the renewal of the Applicant's prospecting license (020/2018), should not be declared to be illegal, unreasonable, irrational and arbitrary;
- Calling upon the Respondents to show cause why the decision of the First Respondent dated 29 June 2022 rejecting the renewal of the Applicant's prospecting license (020/2018), should not be reviewed and set aside;
- 3. Calling upon the Respondents to show cause why the First Respondent should not be







directed renew the Applicant's license subject only, to environmental safeguards and/or conditions as deemed necessary for the protection of the heritage area; and

 Calling upon the Respondents to show cause why the First Respondent should not be directed to, following renewal, align the effective dates of contiguous licenses PL 021-026/2018 with that of the renewed license.

#### Alternatively

- 5. Calling upon the Respondents to show cause why the First Respondent should not pay damages to the Applicant in the sum of US\$65 million or any other amount as assessed by the Registrar of the High Court;
- 6. Granting the Applicant costs of suit; and
- 7. Grating the Applicant further and/or alternative relief.

**TAKE NOTICE THAT** the affidavit of **MOAGI NTUKUNUNU** and annexures thereto, shall be used in support of this application.

TAKE NOTICE FURTHER THAT the First Respondent is called upon within 14 days of receipt of this notice, to file with the Registrar of this Court, the written record of proceedings, including the reasons for the decision. Further the First Respondent shall notify the parties that a copy of the said record and proceedings is available and has been duly filed with the Registrar.

**TAKE NOTICE FURTHER THAT** that the Applicant may within 7 days after the Registrar has served the record, by delivering a notice and accompanying affidavit, amend, vary or add to the terms of the notice of motion.

TAKE NOTICE FURTHER THAT the Respondents are required to:

1. Notify the Applicant, and the Registrar of its intention to oppose by filing a notice within

five (5) days upon the receipt of this notice.

- 2. Within 7 days of receipt of this notice, and any subsequent supplementary notice to amend, file with the Registrar and serve the Applicant with an answering affidavit, and
- 3. State in the notice of intention to oppose an address within Botswana, at which they shall accept notice and service of all documents in these proceedings. If no such notice of intention to oppose is given, the application shall be made on a date and time to be fixed by the Registrar.

DATED AT MAUN ON THIS 31 DAY OF OCTOBER 2022.

COLLINS CHILISA CONSULTANTS Applicant's Attorneys Gaborone Chambers Plot 4858, Lecha Close Off Marakanelo Way P O Box 45136 GABORONE

- TO: THE REGISTRAR High Court MAUN
- AND TO: MINISTER OF MINERALS AND ENERGY First Respondent Fairgrounds Office Park GABORONE
- AND TO: ATTORNEY GENERAL Second Respondent Government Enclave GABORONE

# IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

In the dispute between GCWIHABA RESOURCES (PTY) LTD	BOTSWANA P30	.00 (	Case No:	Applic	ant
And	Chestrol-Banded Player Philip Huet	such 2018			
MINISTER OF MINERALS AND ENERG	Ϋ́Υ		First F	Respond	lent
ATTORNEY GENERAL			Second I		
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		DOCUT TIME:	HENTS F		RD.

I, the undersigned,

#### MOAGI NTUKUNUNU

do hereby make oath and say that:-

- 1 I am an adult male of full legal capacity, employed as an Office Administrator of the Applicant, **GCWIHABA RESOURCES (PTY) LTD**, duly authorised to depose to this affidavit on behalf of the Applicant by virtue of the Board Resolution filed of record.
- 2 The facts contained in this affidavit therefore fall within my personal knowledge due to my position in the Applicant and are, to the best of my knowledge and belief, both true and correct.
- 3 Where I make legal submissions, I do so on the advice of the Applicant's legal representatives. I verily believe that such advice is well-founded. Where I rely on information conveyed to me by others, I identify the source of that information and attach the relevant confirmatory affidavits.

#### PARTIES TO THE APPLICATION

4 The Applicant is Gcwihaba Resources (Pty) Ltd, a company with limited liability, duly registered and incorporated in terms of the company laws of the Republic of

Botswana, whose address for the purposes of the present proceedings is that of its attorneys of record Collins Chilisa Consultants.

- 5 The First Respondent is the Minister of Minerals and Energy who is duly appointed in terms of section 42 of the Constitution of Botswana, with capacity to sue and be sued, and whose address is Plot 50676, Block C, Fairgrounds Office Park, Gaborone.
- 6 The Second Respondent is the Attorney General of the Republic of Botswana, cited in his representative capacity on behalf of the Minister of Minerals and Energy in terms of Section 4 of the State Proceedings (Civil Action by or against Government or Public Officers) Act [CAP 10:01].
- 7 The Respondents have been served with a statutory notice giving them notice of the Applicant's intention to institute the current proceedings. Such notice is attached herein as "CCC 1".

#### FACTUAL BACKGROUND OF THE APPLICATION

- 8 This application concerns the review of the decision of the First Respondent rejecting the renewal of the Applicant's prospective license No 020/2018. I set out the history of the matter in detail below:
  - 8.1 In 2008, the First Respondent, through the then Minister of Minerals, Energy and Water Resources, Dr. Ponatshego Kedikilwe "Kedikilwe", granted the Applicant prospecting license number 386/2008 in terms of section 14 of the Mines and Minerals Act [66:01] "the Act".
    - 8.1.1 The license was for the right to prospect metals on land to which the Republic of Botswana holds mineral rights.
    - 8.1.2 The license area covered 570 square kilometres in the Ngamiland District.
    - 8.1.3 The duration of the license was three (3) years commencing on 10October 2008 and ending on 30 September 2011.
  - 8.2 The license is attached herein as "CCC 2".

- 8.3 In addition to the above referred license, the Applicant was granted six other contiguous licenses (387 392/2008) during the same period, in the same area and under the same conditions. These licenses are attached herein as "CCC 3 \* \* \* respectively.
- 8.4 Prior to the granting of the said licenses, the Applicant had to demonstrate to the First Respondent, amongst others, that it has, or has secured access to, adequate financial resources, technical competence and experience to carry on effective prospecting operations. Needless to say, the Applicant expended a fortune to secure the licenses and accordingly implement its project plans.
- 8.5 When the licenses lapsed in 2011, the Applicant duly applied for their renewal in terms of Section 17 of the Act, which renewal was granted by Kedikilwe. In 2014, 2016 and 2018, the licenses were renewed and reissued without fail until 2021.
- 8.6 Before relaying the events which transpired in 2021, it is worthy to note that in July 2014, the Okavango Delta was declared a World Heritage Property "WHP" by the United Nations Educational, Scientific and Cultural Organisation "UNESCO". By virtue of this status, the Okavango Delta "nominated property" was subject to protection from activities which would compromise the property. This area is also referred to as the core zone.
- 8.7 The Applicant's licensed area did not fall into the core zone however, the Government of Botswana established a buffer zone around the core zone which buffer zone went on to encroach on a portion of the area that had been licensed to the Applicant including the area licensed under PL 386/2008. By definition, per the World Heritage Operational Guidelines 2021 "Operational Guidelines", a buffer zone is:

"an area surrounding the nominated property (core zone) which has complementary legal and/or customary restrictions placed on its use and development in order to give an added layer of protection to the property."

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8.8 The Operational Guidelines go on further to, at Section 107, acknowledge that a buffer zone does not form part of the core zone. This is a fact that is,

MN BM Page 8 in the Applicant's mind, common cause to the parties herein as demonstrated by the fact that the First Respondent continued to grant renewals of the Applicant's licenses from 2014 as granted by the then Minister Eric Molale in 2016 and 2018, following the establishment of the buffer zone. The Operational Guidelines is a bulky documents with a total of 188 pages. For the sake of not inundating the with a bulky application, we beg leave not to attach the Operational Guidelines herein, but to avail same upon the court's direction, should the court so wish.

- 8.9 I must pause at this juncture to highlight pivotal events that occurred in 2018. As already stated, the Applicant was first issued the prospecting license in issue in 2008 with prospecting license no: 386/3008. In terms of the Act, the Applicant was guaranteed this licence, (inclusive of a period of renewals) for a period of 7 years. This time period expired in 2019, as computed from 2008 and the last renewal expiring on 30 June 2019.
- 8.10 Before the expiry date of 30 June 2019, the First Respondent had been causing delays in granting the Applicant renewals of some of its other licenses held east of the Okavango River panhandle sometime in 2017. The Applicant's parent company (Tsodilo Resources) wrote on 25 October 2017 in protest to note that the delays in the renewals of the Applicant's licenses had caused great uncertainty to the Applicant as well as a disjointed exploration project. A copy of this letter is attached hereto and marked "CCC 4"
- 8.11 The above referred letter gave way to negotiations between the Applicant and the Government of Botswana (inclusive of the First Respondent and the Department of Mines) for the amicable remediation of the Applicant's complaints. The agreement ultimately reached was to the effect that the Applicant would give up its other prospecting licenses (PL's 393, 394 and 395/2008 east of the Okavango River and PL 093, 094, 095, 096 and 097/2012 north of the Okavango River which are not subject to this litigation) in return for new initial prospecting licenses for its licenses held west of the panhandle which contained its iron resource as reported in 2014. The First Respondent, in furtherance of this agreement issued the Applicant with prospecting licenses PL 20, 21. 22, 23, 24, 25 and 26/2018.

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These licenses were granted as contiguous licenses as per Section 19 of the Mines and Minerals Act, meaning that these licenses were to run and be renewed simultaneously copies of licenses PL 21 – 26/2018 are attached herein and marked **"CCC 10** \*f" respectively.

- 8.12 I note the above to bring to light that the First Respondent in issuing the new prospecting licenses PL 20-26/2018 attempted to arbitrarily reduce the extent of the Applicant's prospecting area (by excluding the areas that fell within the buffer zone) without the Applicant's consent and contrary to the agreement between the parties to the effect that the Applicant will be issued these new license afresh but in line with the conditions and coordinates of the old license. A letter of 23 January 2018 by the Applicant protesting the First Respondent's arbitrary attempts is annexed hereto and marked "CCC 5".
- 8.13 The First Respondent responded to CCC 5 by letter dated 16 February 2018 through the Department of Mines to the effect that the Applicant's new licenses will be re-aligned to the old license. This letter is attached hereto and marked "CCC 6". The First Respondent however did not thereafter realign the new license to the old licenses and this prompted a follow up by the Applicant dated 12 July 2018 and attached hereto as "CCC 7".
- 8.14 In reply by later dated 02 August 2018 and attached hereto and marked "CCC 8", the First Respondent through the Department of Mines tried to argue that the agreement by the parties was that the Applicant would relinquish all its licenses in the buffer zone. This allegation was refused by the Applicant in a letter dated 13 August 2018, attached hereto as "CCC 9" whose contents are reincorporated herein by reference. The issue was presented to the Minister at that time and the Minster upheld the Applicant's right to the licenses including those portions in the buffer zone. The licenses were then granted effective October 1, 2018.
- 8.15 Although the above issue was subsequently resolved, it goes to show that the First Respondent has been trying, by any means necessary to disentitle the Applicant of prospecting in the buffer zone even if it meant employing illegal tactics.

- 8.16 The above notwithstanding, the agreement between the parties saw the Applicant being issued with prospecting license no: 020/2018, in issue, with an initial 3-year grant effective 1 October 2018 to expire on 30 September 2021. I must further highlight that the granting of prospecting license no: 020/2018 granted the Applicant a guaranteed period of the initial grant of 3-years plus two 2-year renewals for a total of 7 years in a similar fashion to prospecting licence no: 386/2008.
- 8.17 On 30 June 2021, three months before expiry of prospecting license no: 020/2018 (previously number PL 386/2008), the Applicant applied for the renewal thereof. This license is attached hereto and marked as "CCC 10".
- 8.18 The Applicant became aware in October after the filing of the 30 June 2021 renewal application of the following:
  - 8.18.1 In 2015, the Government of Botswana issued out a Report to the World Heritage Committee "WTC" indicating that prospecting and mining licenses in the buffer zone would not be renewed. The Government of Botswana further reported that they were engaging in negotiations with the Applicant for purposes of terminating the existing licenses in the buffer zone. This Report is attached herein as "CCC 11".
  - 8.18.2 In 2017, the Government of Botswana issued out another Report to the WTC indicating that the Applicant had "in principle" agreed to relinquish all its licenses in the buffer zone and that there were prospecting licenses in the buffer zone. The said Report is attached herein as "**CCC 12**"
  - 8.18.3 In 2020, the Government of Botswana had issued out a further Report to the WTC confirming that negotiations with the Applicant had been concluded and that there were no existing prospecting licenses in the buffer zone. This Report is attached herein as "CCC 13".



- 8.18.4 In 2022, the Government of Botswana confirmed to the WTC that the Applicant had relinquished all of its licenses in the buffer area. The Report is attached herein as "CCC 14".
- 8.19 All of the Reports referred to above, as generated by the Government of Botswana were a lie. Not only were there no negotiations between the parties, but the First Respondent continued to grant the Applicant prospecting licenses for areas in the buffer zone, save for the renewal of 30 June 2021.
- 8.20 The First Respondent only responded to the Applicant's application of 30 June 2021 through a letter dated 26 April 2022, attached herein as "CCC 15". This letter came as a surprise to the Applicant and it is important to identify key issues in this letter and they are as follows:
  - 8.20.1 "The coordinates submitted in the application for renewal of Prospecting License No 020/2018 are encroaching into the buffer zone." The surprise herein to the Applicant is that, it is the First Respondent who established the buffer zone within the Applicant's licensed area. The buffer zone found the Applicant's license which gave the Applicant rights and titles, as such, it is the buffer zone which encroached on the Applicant's licensed area. In any event, the coordinates submitted on 30 June 2021, were the same for those resulting in the renewals granted in 2014, 2016 and 2018, which renewals were granted in the face of the buffer zone encroaching on to the Applicant's licensed area albeit with a slight change in the area, as agreed by the Applicant and the Department of Mines in order to reduce the extent of the buffer zone encroachinent;
  - 8.20.2 The First Respondent's 26 April letter further stated, "Prospecting and mining activities are prohibited within the buffer zone of the Delta, <u>or if permitted</u>, (emphasis is the Applicant's), they are to be subjected to stringent Environmental Impact Assessment "EIA" measures" this surprised the applicant by reason of the fact that it is common cause that prospecting and mining activities are permitted in the buffer Zone.

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- 8.20.3 The First Respondent was not in a position to renew the Prospecting License for as long as the submitted coordinates fall within the buffer zone of the WHP.
- 8.21 Taken aback by this response, the Applicant responded by letter dated 27 April 2022 which is attached herein as "CCC 16". This letter served to note that:
  - 8.21.1 the buffer zone is not part of the core zone;
  - 8.21.2 the Applicant's licence has existed since 2008, before the buffer zone. It is the buffer zone that encroached on the Applicant's licensed area;
  - 8.21.3 the Applicant agrees that if mining is to be carried out in a buffer zone, an EIA must be conducted and made part of the mining license application and further, that an Environmental Management Plan "EMP" must be filed before exploration activities are commenced. The Applicant went on to note that the law however requires an EIA in the event of a mining application and an EMP is utilized with a prospecting license; and
  - 8.21.4 the Government of Botswana's submissions to UNESCO since 2013 have been to the effect that both mining and prospecting licenses can in fact exist within the buffer zone.
- 8.22 On 7 June 2022 the First Respondent wrote to the Applicant advising the Applicant to submit a revised application for renewal of the Prospecting License in question, with boundary coordinates falling entirely outside the buffer zone. The letter is attached herein as **"CCC 17"**.
- 8.23 On 28 June 2022, the Applicant re-submitted its application for renewal of the license. The application is attached herein as "CCC 18".
- 8.24 On 29 June 2022, the Applicant received a checklist from the First Respondent indicating that the coordinates in the application still fell within the buffer zone. The checklist is attached herein as "CCC 19".

- 8.25 On 30 June 2022, the Applicant re-submitted an application for renewal of the license further reducing to a bare minimum the area for which the buffer zone encroached on the license area. The First Respondent has not bothered to respond to the said re-submission.
- 8.26 An inordinate period of time has passed since the Applicant submitted its last application for renewal of its license and the unresponsiveness of the First Respondent, even after the service of a statutory notice, can been deemed to be a refusal to renew the Applicant's license.
- 9 The First Respondent's non-renewal came as a shock to the Applicant in view of the fact that in 2014, the Applicant had produced and shared with the First Respondent, an inferred resource report which established that the Applicant had discovered a tonnage of 441 Mt of inferred iron resource within the prospecting area with a current in-situ value approximated to be worth \$27 Billion USD, of which 164 Mt worth \$6.8 Billion USD is located within the buffer zone.
- 10 In reaction to the Applicant's discovery, the First Respondent made some statements 13 June 2014, through the Permanent Secretary, pursuant to which an article attached here in as Annexure "**CCC 20**" was published. In the said article, the First Respondent advises the public of the discovery by the Applicant and further goes on to note that the Government of Botswana is willing to co-finance the Applicant's project and spoke further about its importance to the development of the Botswana economy. The article refers to Tsodilo Resources which is the Applicant's mother company. It must be highlighted that this is the same year that the Government of Botswana was working on having the Okavango delta being named as a WHP but prior to such designation, however, the Government of Botswana was aware at the time of its public statement, that the Applicant's licensed area would fall into the buffer zone.
- 11 On the basis of the above referred discovery, the Applicant some time in 2018 engaged with relevant stakeholders who were willing to develop the project with the Applicant. One such stakeholder was the Minerals Development Company Botswana "MDCB", an investment company that holds and manages mining & minerals assets for the Government of Botswana.

- 12 The Applicant and MDCB later came to an agreement with respect to the terms of an equity investment by MDCB in the Applicant with aim of providing financial resources to enable the Applicant to prepare a Preliminary Economic Assessment (PEA). Based on information and belief MDCB's Board of Directors approved the said investment in December 2020, subject to Ministerial approval.
- 13 The First Respondent's decision to withhold the issuance of the first 2-year renewal license for PLO20 therefore deprives the Applicant, the Applicant's investors and the general Botswana population the benefit to be derived from the Applicant's continued activities within the prospecting area and therefore must be reviewed.

#### **GROUNDS FOR REVIEW**

- 14 The Applicant seeks a review of the First Respondent's refusal to renew its prospecting license no 020/2018 on the following grounds:
  - 14.1 The First Respondent's refusal was in violation of principles of natural justice in that:
    - 14.1.1 the Applicant was deprived of a hearing prior to the decision not to renew its license; and
    - 14.1.2 the First Respondent was bias in favour of non-renewal of the Applicant's license.
  - 14.2 The First Respondent failed to exercise his duty lawfully, which resulted in a misuse of power;
  - 14.3 the First Respondent's decision was unreasonable as no decision maker in his shoes would have come to the same conclusion as he did; and
  - 14.4 The First Respondent acted illegally in that he acted contrary to the Act, in particular, Section 17 which bestows the Applicant with a right of renewal for 2 terms not exceeding 2 years each. The Applicant's renewal of 30 June 2021 was its first 2-year renewal application.



#### VIOLATION OF PRINCIPLES OF NATURAL JUSTICE

#### Fair hearing

- 15 I am advised that before a decision affecting the rights or interests of a person can be taken, such person ought to be afforded a hearing, this was unfortunately not the case in this matter.
- 16 As noted at paragraph 8.10, the Reports sent to the WTC by the Government of Botswana were, as early as 2015, to the effect that prospecting and mining licenses, such as that of the Applicant, falling within the buffer zone would not be renewed.
- 17 It is important to highlight that the Applicant in these proceedings does not challenge the Reports sent over to the WTC, however, the said Reports have a bearing on the First Respondent's attitude towards the Applicant's applications for renewal and the outcome thereof is clearly informed by the said Reports.
- 18 It becomes clear that a decision on whether to renew or not renew the Applicant's license was since taken in 2015 and the Applicant was not afforded the opportunity to make any representations. In view of the fact that the First Respondent renewed the Applicant's licenses in 2016 and 2018, it becomes clear from the Government of Botswana's Reports of 2020 and 2022 that the First Respondent now seeks to enforce the Government of Botswana's decision of 2015 as communicated to UNESCO by the Department of National Museum & Monuments and the Ministry of Environment, Natural Resources Conversation & Tourism.
- 19 When the Applicant made an application for renewal on or about June 30 2021, the outcome thereof was already a foregone conclusion as the Government of Botswana through the Department of National Museum & Monuments and the Ministry of Environment, Natural Resources Conversation & Tourism had long since decided that licences such as that of the Applicant will not be renewed, a decision which the First Respondent now seeks to be bound by.

#### <u>Bias</u>

20 With respect to bias, I am advised that decision makers are required to be impartial.

- 21 The Reports to the WTC referred to above demonstrate that the First Respondent was captured by the undertakings of the Government of Botswana per their aforesaid Reports and as such could not have been impartial in his assessment of the Applicant's application for renewal.
- 22 The decision to not renew the Applicant's licences had since been made in 2015 by the Government of Botswana through the Department of National Museum & Monuments and the Ministry of Environment, Natural Resources Conversation & Tourism and as a result, the First Respondent's bias was leaning and will always lean against the renewal of the Applicant's license.
- 23 By this reason, the decision by the First Respondent not to renew the Applicant's license was tainted by bad faith.

#### <u>DUTY</u>

- As already stated, the First Respondent in Annexure **CCC 15** acknowledges that prospecting activities can be permitted in the buffer zone, subject to stringent environmental protocols and practices being adhered to. The Applicant has stated numerous times that it agrees to the foregoing and in fact supports it.
- 25 It follows from the above that the duty which the First Respondent is obliged to carry out is that which is spelt out by the Act. The Act dictates that the First Respondent must renew the Applicant's license, however it seems though as if the First Respondent is constrained to do so by virtue of the Government of Botswana's undertakings per their Reports. The First Respondent now wants to turn away from the Act, which is the law, and place reliance on the non-binding precedent set by the Government through its Report of 2015 to the effect that prospecting license within the buffer zone will not be renewed.
- 26 I am advised by the Applicant's attorneys that where a decision maker blindly follows a policy or precedent laid down in advance results in a failure by that decision maker to carry out their duty lawfully, resulting in an illegality.
- 27 The set precedent herein is seen from the Reports by the Government of Botswana to the WTC to the effect that licenses within the buffer zone will not be renewed.

The First Respondent blindly followed this precedent and the result was his failure to apply his mind to the requirements of the Act.

#### REASONABLENESS

- 28 It is imperative to note that since the issuance of the Applicant's license in 2008, the Government of Botswana has both been supporting and encouraging the Applicant to continue with its work, including to utilize its financial resources.
- 29 The discovery that has been made by the Applicant is one which will the see both the Government and the people of Botswana benefiting. This potential financial benefit, in the face of financial constraints on Governments around the world due to the Covid-19 pandemic, is one which any Government would want to explore for the benefit and improvement of the lives of its people.
- 30 The First Respondent's decision not to renew the Applicant's license, notwithstanding the benefits stemming therefrom, is one that would not be taken by a sober minded decision maker and as such, the decision of the First Respondent is both irrational and unreasonable.

#### **ILLEGALITY**

- 31 In terms of section 17(3) of the Act, the Applicant, in addition to the initial 3-year period of prospecting license no 020/2018, is entitled to 2 renewals of periods not exceeding two years each, subject to the Applicant not being in default, and the Applicant's proposed programme of prospecting operations being adequate.
- 32 The Applicant was not in default and its proposed programme of prospecting operations was more than adequate. The First Respondent's letter of 26 April 2022 makes it clear that his decision to not renew the Applicant's license is not based on the Applicant's failure to fulfil the above identified conditions, but rather that the Applicant's prospecting area fell within the buffer zone.
- 33 The Applicant's application of 30 June 2021 was the Applicant's first renewal application for prospecting license no 020/2018 and by reason of its fulfilment of the above highlighted conditions, the Applicant was entitled to the renewal of



prospecting license no 020/2018 as of right without the need for the First Respondent to exercise any discretion.

- 34 From the above it becomes clear that the Applicant's refusal has no basis in law, rather, the said refusal offends the Applicant's clear right of renewal.
- 35 The First Respondent's refusal was unlawful and resulted in an illegality.

#### **DAMAGES**

- 36 The Applicant has incurred substantial costs in furtherance of the licenses issued by the First Respondent, costs which were to be recovered in the course of the Applicant's activities stemming from the said licenses.
- 37 The effect of the non-renewal of the Applicant's license in turn means that the Applicant will not be able to recover the above described costs, together with any revenue which was to be generating from the Applicant's activities. The extent of these damages therefore ought to be assessed.

#### **CONCLUSION**

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38 On the basis of the foregoing, I therefore pray for an order in terms of the draft order filed of record.

MOAGI NTUKUNUNU

THUS SWORN TO AND SIGNED BEFORE ME AT MAUN ON THIS 31 day of october 2022, at 1008 hours, the deponent having acknowledged that he knows and understands the contents of this affidavit and has no objection to taking the prescribed oath which he considers binding on his conscience

Anisi 0.05 7322 9 COMMISSIONER OF OATHS Mann Support Police Setgeant Mogethici B

	"CCC1"
P. Pla	NGAKAAGAE & COMPANY B18 6420 Fax: 318 6426 Cell 75527255 Box 26726, Gaborone 2701, Extension 9, Gaborone I: ngakaagaeandco@hotmail.com
	ttorneys   Conveyancers   Notaries
	Our ref: Nc /1402/22
	Your ref: CIVIL REGISTRY
	26th August 2022
	The Attorney General of the Republic Of Botswana
-	Gaborone
	The Minister of Minerals, Green Acchinglogy Strangerory Stearity Gaborone 31 OCT 2022
	Dear Sirs
	STATUTORY NOTICE IN TERMS OF STATE PROCEEDINGS ACT CAP (10:01),

## BACKGROUND

LAWS OF BOTSWANA

- 1. Our client is, Gcwihaba (Pty) Ltd, a company duly incorporated in terms of the, Laws of Botswana.
- This, Statutory Notice, concerns, Prospecting Licence PL 020/2018, issue to client by the Department of Mines (DOM), renewal of which has been a subject of contentions between the parties.

Attorney: Kgosietsile Ngakaagae, Gape Michael

MN BM Page 21

- 3. To the aforegoing extent, reference is made to the trail of correspondence between client and the Department of Mines (DOM), on this matter. The office of the Attorney General would have unfettered access to such. It is unnecessary, therefore, to copy, or annex same herein. Same, is incorporated by reference.
- 4. Client has, hitherto, been a holder of PL020/2018. On the 28<sup>th</sup> June, 2022, client filed a licence renewal application, with the DOM, in respect of the above licence.
- 5. The renewal was not acceded to on the basis that the area applied for encroached into the restricted, UNESCO Okavango World Heritage Property.
- 6. A further reason was given to the effect that the renewal shape was greater, in extent, than the licence.
- 7. Very little turns on the second reason. Same is dealt with in client's correspondence to yourselves dated 20<sup>th</sup> June, 2022. Suffice to state that contrary to the assertion, the "renewal shape", is well within the licence. Sme were corrected after following engagement with the, DOM. To that extent, we refer to the same correspondence of the 20<sup>th</sup> June, 2022. For the avoidance of doubt, client seeks no more than what the licence provides, for.
- 8. As regards the first reason, suffice to state that the same lacks bona fides. The area provided for does not overlap with the, Okavango Heritage Area. There are no conventional, or, statutory prohibitions to the objects of the licence warranting the position of the, DOM. Existing provision only regards safeguards to guard against direct, or indirect harm, to the area in issue.
- 9. In the circumstances, the rejection is unreasonable, irrational, and, arbitrary. Same is unlawful, in bad faith, and stands to be reviewed, corrected, and/or, set aside.

Attorney: Kgosietsile Ngakaagae, Gape Michael

- 10. Efforts by client to engage with the DOM, over this matter to ensure an amicable resolution have been unsuccessful. Client is left with no option but to issue statutory notice to seek a review of the decision of the, DOM, of the 29<sup>th</sup> June, 2022, and generally, the refusal to renew the licence.
- 11. Client is amenable to, and hopes for an amicable resolution of the matter. The dispute between the parties is considerably narrow, and calls for a cordial and pragmatic approach that is cognizant of the interest and concerns of both parties.
- 12. On our client's part such includes the need to all licences held by them with PL020/2018 with respect to the effective dates. This is necessary in order to avoid splitting the project apart which would be prejudicial to client's interests. Client's proposal is that same be issued, 1<sup>st</sup> October, 2022, as to the effective dates (or such subsequent date as may be mutually agreed). We kindly remind that in June, 2021, when client for renewal, they had, 7, licenses. Two were dropped including specific areas in the remaining 5. That was order to drop 50% of the combined license areas. The DOM accepted this but when issuing, 4, of the license effective Jan 1, 2022 they effectively split the project apart with respect to the time frame. It is important to be put the same back together.

#### **RELIEF SOUGHT**

13. For purposes of the review application, client shall seek;

- a. An order that the rejection is unreasonable, irrational and arbitrary. Same is unlawful, in bad faith, and stands to be reviewed, corrected, and/or set aside.
- b. An order that the, DQM, issue client with a renewal subject only, to environment impact safeguards/conditions to which government is subject.

Attorney: Kgosietsile Ngakaagae, Gape Michael

Page 23

- c. All client's licences, as aforestated, be corrected and the effective dates be reckoned from the date of the order (in lieu of a mutually agreeable date).
- 14. Client's physical address is The Office Building #59, Plot 21532, Fairgrounds Office Park, and Gaborone. However, its address of service for purposes of this Statutory Notice is the address of its attorneys herein.

15. We hope you find the above in order.

Thank you.

Yours faithfully NGAKAAGAE. K

Per Ngakaagae & Co

Attorney: Kgosietsile Ngakaagae, Gape Michael

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**Republic of Botswana** 

# **PROSPECTING LICENCE**

in favour of

# **GCWIHABA RESOURCES (PTY) LTD**

**PROSPECTING LICENCE NO. 386/2008** 

BM 25



**REPUBLIC OF BOTSWANA** 

Form II

Prospecting License No. PL386/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Five hundred and seventy square kilometers (570 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure 1 hereto; and as reduced from time to time in accordance with the provisions of the Act.

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- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- З. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out In Annexure II.

GIVEN under my hand at GABORONE this  $10^{10}$  day of  $10^{10}$  in the year  $26c^{10}$ 

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Minister Ministry of Minerals, Energy and Water Resources

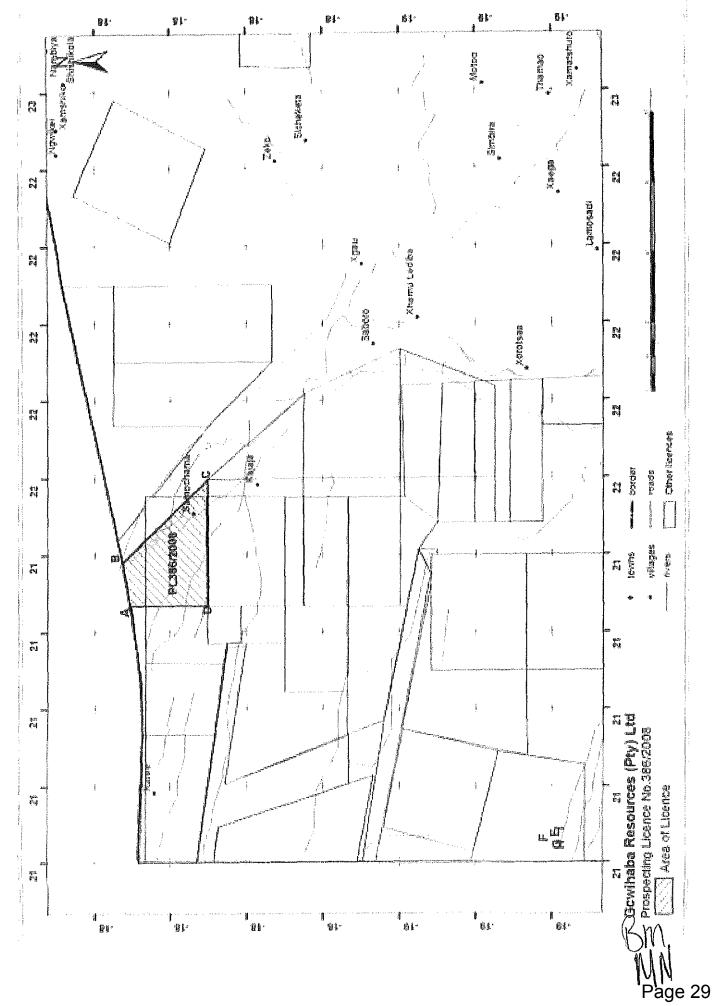
BM Page 27

#### **ANNEXURE I**

The license area is of Five hundred and seventy square kilometers (570 km<sup>2</sup>) defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

<u>Point</u>	Longitude (East)	Latitude (South)
Α	21.666572	-18.291970
B	21.779179	-18.272027
C	21.994639	-18.497389
D	21.666594	-18.498831
Total Area	a 570 km²	

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### ANNEXURE II

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Programme of prospecting operations	Proposed minimum expenditure
Year 1	
i. Detailed review of available data.	Seven Hundred
ii. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
iii. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element	
analysis.	
vi. Ground scintilometer readings.	
vii. Prioritization of drill targets.	
Year 2	n na manana an a
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if	(BWP700,000.00)
appropriate.	
v. Multi- element Analysis by ICP (inductively-coupled	
plasma).	
Year 3	Seven Hundred
i. Drill testing of priority targets	
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled plasma)	
vi. Drill testing of priority targets.	

BM MN Page 30

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**Republic of Botswana** 

# **PROSPECTING LICENCE**

in favour of

# **GCWIHABA RESOURCES (PTY) LTD**

**PROSPECTING LICENCE NO. 387/2008** 



Form II

Prospecting License No.PL387/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gowihaba Resources (Pty) Ltd a company incorporated under the laws of Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Nine hundred and sixty four point nine square kilometers (964.9 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.

- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this

104 day of Novi in the year 2008.

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Minister Ministry of Minerals, Energy and Water Resources

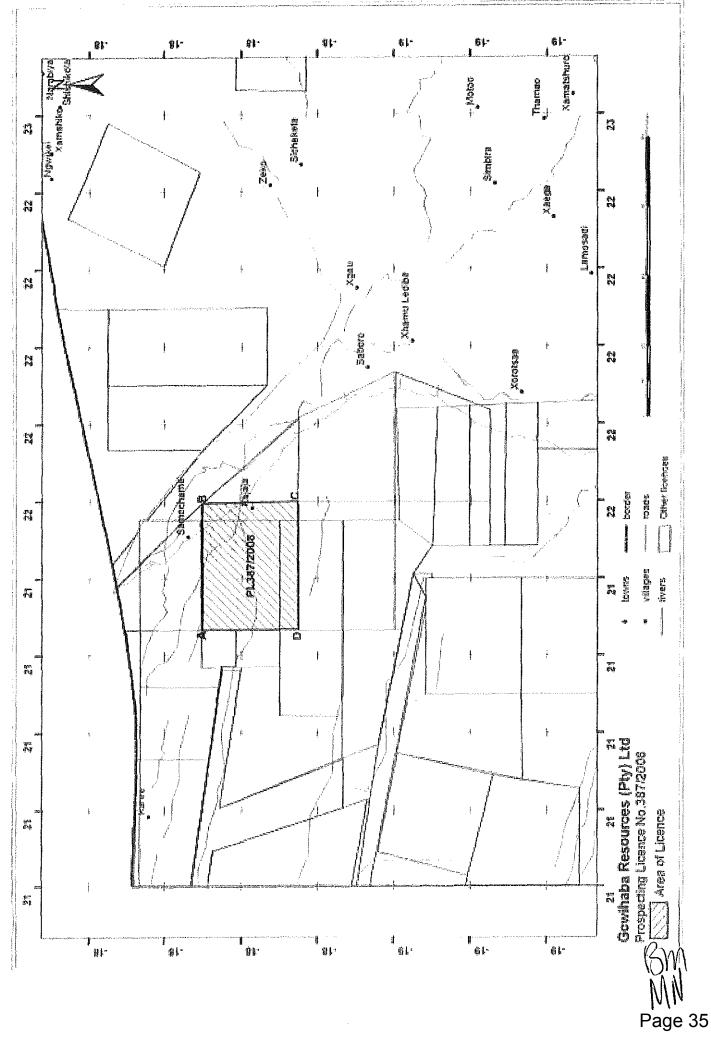


#### **ANNEXURE I**

The license area is of Nine hundred and sixty four point nine square kilometers (964.9 km<sup>2</sup>) defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

<u>Point</u>	Longitude (East)	Latitude (South)
A	21.666594	-18.498831
B	21.994639	-18.497389
С	21.999981	-18.747667
D	21.667561	-18.749119
Total Area	1964.9 km <sup>2</sup>	

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#### **ANNEXURE II**

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Programme of prospecting operations	Proposed minimum expenditure
Year 1	a da falsa di mana da sa
I. Detailed review of available data.	Seven Hundred
ii. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
iii. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element	
analysis.	
vi. Ground scintilometer readings.	
vii. Prioritization of drill targets.	
Year 2	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if	(BWP700,000.00)
appropriate.	
v. Multi- element Analysis by ICP (inductively-coupled	
plasma).	
Year 3	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled plasma)	
vi. Drill testing of priority targets.	

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**Republic of Botswana** 

### **PROSPECTING LICENCE**

in favour of

**GCWIHABA RESOURCES (PTY) LTD** 

**PROSPECTING LICENCE NO. 388/2008** 

BM Page 37



**REPUBLIC OF BOTSWANA** 

Form II

Prospecting License No.PL388/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Three hundred and seventeen point one square kilometers (317.1 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.

Page 38

- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this  $\int \mathcal{D}^{K} day$  of  $\mathcal{A}_{\mathcal{N}}\mathcal{A}$  in the year  $\mathcal{D}^{K}$ 

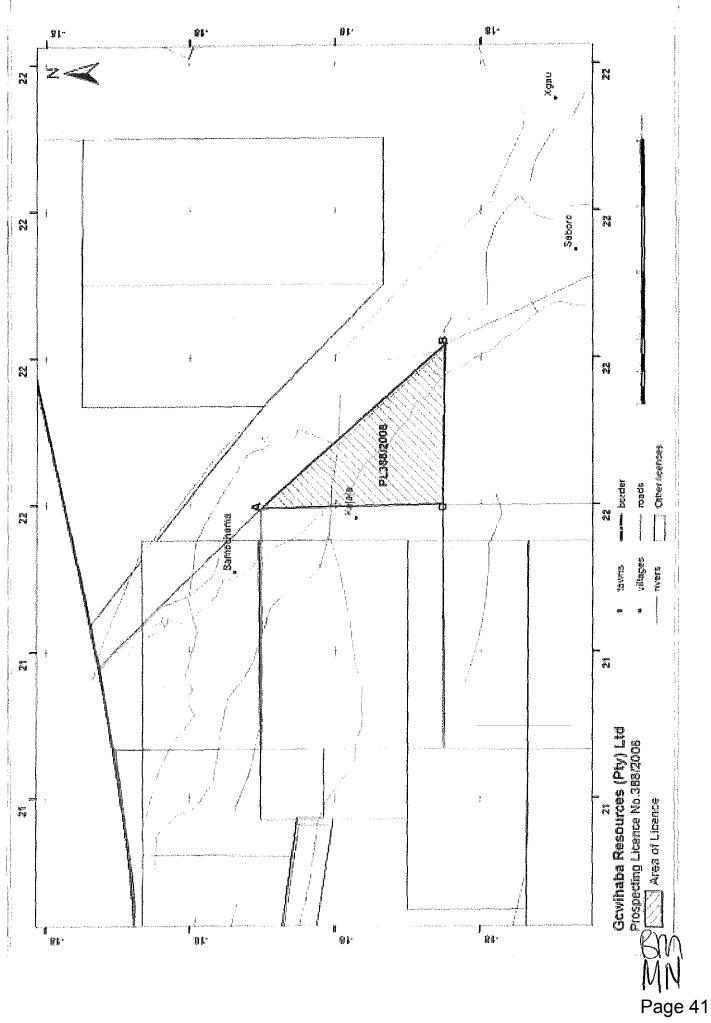
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Minister Ministry of Minerals, Energy and Water Resources

#### **ANNEXURE I**

The license area is of Three hundred and seventeen point one square kilometers  $(317.1 \text{ km}^2)$  defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

<u>Point</u>	Longitude (East)	Latitude (South)
A	21.994639	-18.497389
B	22.217250	-18.750731
с	21,999981	-18.747667
Total Area	a 317.1 km²	



### ANNEXURE II

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Programme of prospecting operations	Proposed minimun expenditure
Year 1	an an ann an Anna Anna Anna an Anna an Anna Anna an Anna Anna A
i. Detailed review of available data.	Seven Hundred
ii. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
iil. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element	
analysis.	Table Andrew
vi. Ground scintilometer readings.	5 10 10 4 10 4 10 4 10 4 10 4 10 4 10 4
vii. Prioritization of drill targets.	
Year 2	
i. Drill testing of priority targets	Seven Hundred
il. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if	(BWP700,000.00)
appropriate.	
v. Multi- element Analysis by ICP (inductively-coupled	
plasma).	
Year 3	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
Iv. Element Indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled plasma)	
vi. Drill testing of priority targets.	

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**Republic of Botswana** 

### **PROSPECTING LICENCE**

in lavour of

**GCWIHABA RESOURCES (PTY) LTD** 

**PROSPECTING LICENCE NO. 389/2008** 

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Form II

Prospecting License No.PL389/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gewihaba Resources (Pty) Ltd a company incorporated under the laws of **Republic of Botswana** (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Nine hundred and seventy eight point six square kilometers (978.6 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.

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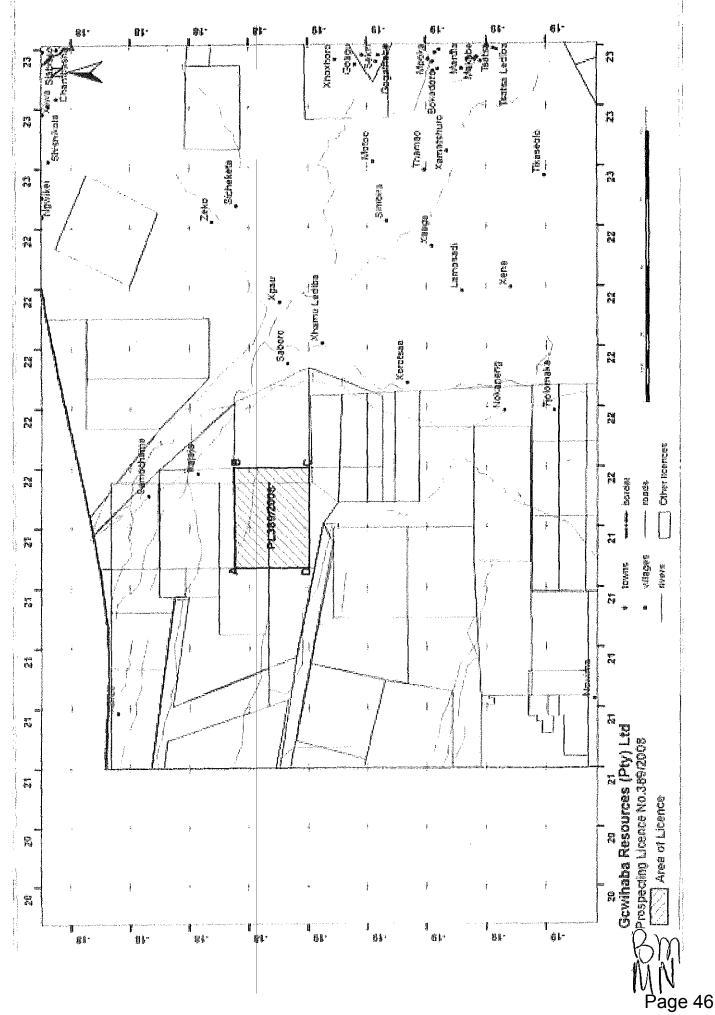
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- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this / p R day of / w, in the year $2 \sigma R$ 

Minister Ministry of Minerals, Energy and Water Resources

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#### **ANNEXURE** I

The license area is of Nine hundred and seventy eight point six square kilometers (978.6 km<sup>2</sup>) defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

Point	Longitude (East)	Latitude (South)
A	21.666311	-18.751069
B	21.999981	-18.747667
С	21.999731	-19.001061
D	21.666311	-19.001061
Total Area	1978.6 km²	

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Programme of prospecting operations	Proposed minimum expenditure
Year 1	n ann a gannaichean a' ann ann an ann an gann ann an ann ann a
i. Detailed review of available data.	Seven Hundred
ii. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
ili. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element	
analysis.	
vi. Ground scintilometer readings.	
vii. Prioritization of drill targets.	
Year 2	د به می دادند. به می دادند می دادند. می دادند می دادند می دادند می دادند می دادند می دادند می دادند.
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
v. Multi- element Analysis by ICP (inductively-coupled	
plasma).	
Year 3	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled	
plasma)	
vi. Drill testing of priority targets.	

### ANNEXURE II

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**Republic of Botswana** 

## **PROSPECTING LICENCE**

in favour of

**GCWIHABA RESOURCES (PTY) LTD** 

**PROSPECTING LICENCE NO. 390/2008** 



#### **REPUBLIC OF BOTSWANA**

Form II

Prospecting License No.PL390/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gewihaba Resources (Pty) Ltd a company incorporated under the laws of Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Eight hundred and seven point three square kilometers (807.3 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.

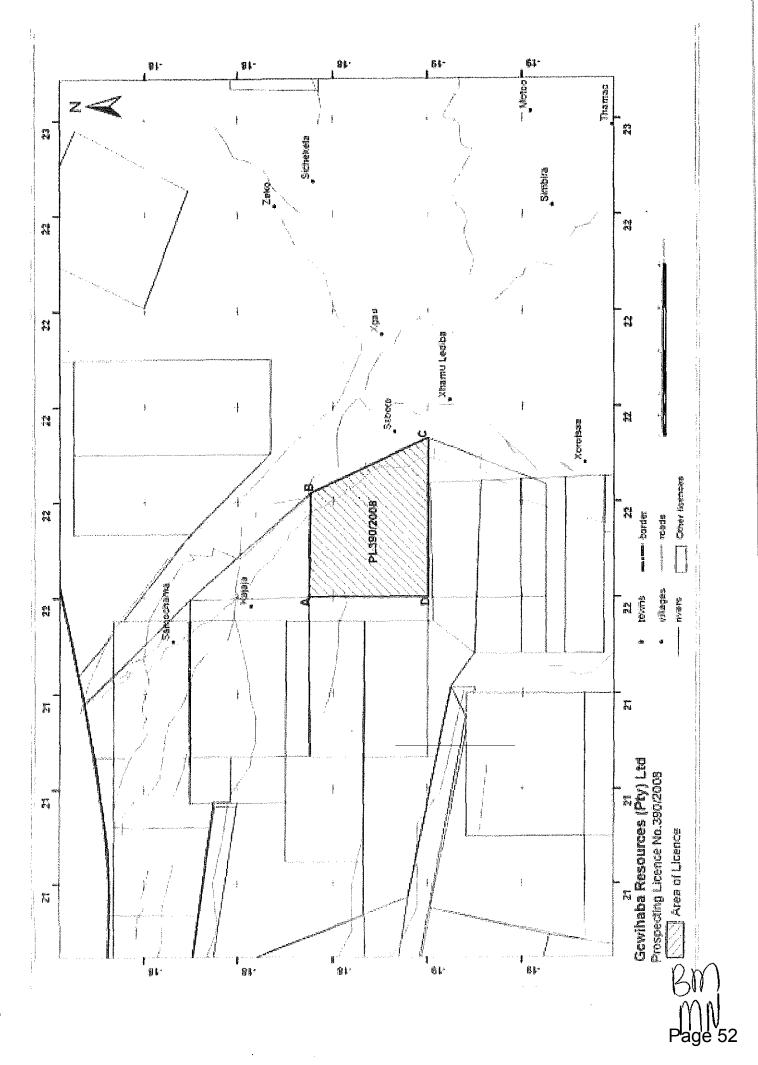


- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this  $/ \mathcal{D}^{H}$  day of  $\mathcal{M}/\mathcal{U}$  in the year  $2ses^{S}$ 

Minister Ministry of Minerals, Energy and Water Resources





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#### **ANNEXURE I**

The license area is of Eight hundred and seven point three square kilometers (807.3 km<sup>2</sup>) defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

<u>Point</u>	Longitude (East)	Latitude (South)
A	21.999981	-18.747667
В	22.217250	-18.750731
C	22.333031	-19.001061
D	21.999731	-19.001061
Total Area	a <b>807.3</b> km²	

BM MN Page 53

## ANNEXURE II

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Programme of prospecting operations	Proposed minimum expenditure
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i. Detailed review of available data.	Seven Hundred
II. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
iii. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element	
analysis.	
vi. Ground scintilometer readings.	
vil. Prioritization of drill targets.	
Year 2	n der viewe forst for System (System) (Sy
I. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if	(8WP700,000.00)
appropriate.	
v. Multi- element Analysis by ICP (inductively-coupled	
plasma).	
Year 3	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
ili. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled plasma)	
vi. Drill testing of priority targets.	



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**Republic of Botswana** 

### **PROSPECTING LICENCE**

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in favour of

# **GCWIHABA RESOURCES (PTY) LTD**

**PROSPECTING LICENCE NO. 391/2008** 

BM Page 55



Form II

Prospecting License No.PL391/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gowihaba Resources (Pty) Ltd a company incorporated under the laws of Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Four hundred and fifty four point five square kilometers (454.5 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.

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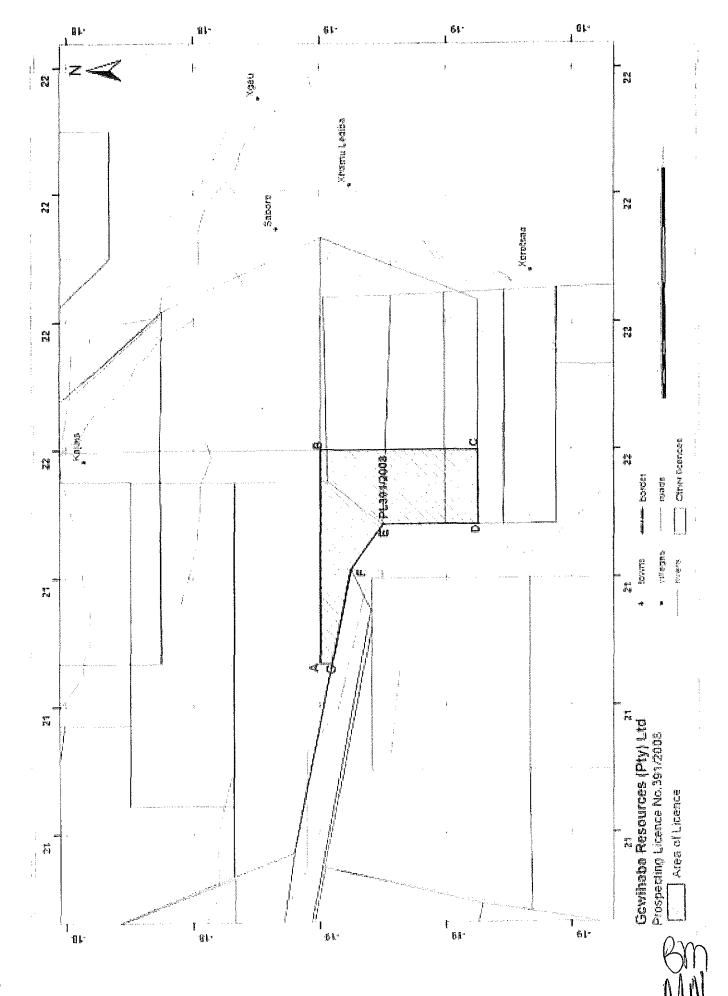
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this  $/ \ell^{\prime \prime \prime}$  day of  $/ \ell^{\prime \prime \prime}$  in the year 28.08

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Minister Ministry of Minerals, Energy and Water Resources





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#### **ANNEXURE I**

The license area is of Four hundred and fifty four point five square kilometers (454.5 km<sup>2</sup>) defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

<u>Point</u>	Longitude (East)	Latitude (South)
A	21.666311	-19.001061
В	21.999731	-19.001061
С	21.999731	-19.251039
D	21.883777	-19.251016
E	21.883590	-19.100000
F	21.812500	-19.048890
G	21.666311	-19.019239
Total Area	1454.5 km <sup>2</sup>	

## ANNEXURE II

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Programme of prospecting operations	Proposed minimum expenditure
Year 1	
I. Detailed review of available data.	Seven Hundred
ii. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
iii. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element analysis.	
vi. Ground scintilometer readings.	
vii. Prioritization of drill targets.	
Year 2	a na stand for the standard sector of the standard sector of the standard sector of the standard sector of the
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if	(BWP700,000.00)
appropriate.	
v. Multi- element Analysis by ICP (inductively-coupled	
plasma).	
Year 3	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled	
plasma)	
vi. Drill testing of priority targets.	1

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**Republic of Bolswana** 

### **PROSPECTING LICENCE**

in favour of

**GCWIHABA RESOURCES (PTY) LTD** 

**PROSPECTING LICENCE NO. 392/2008** 



**REPUBLIC OF BOTSWANA** 

Form II

4

Prospecting License No.PL392/2008

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for Metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting license:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for Metals in the license area for a period of 3 years commencing on 01 October 2008 and ending on 30 September 2011.

 The License area shall be the area shown on the map annexed hereto in extent of Eight hundred and twenty eight point one square kilometers (828.1 km<sup>2</sup>), located in Ngamiland district(s) and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.

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- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this license, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Geological Survey, an annual charge equal to (BWP5.00) multiplied by the number of square kilometers in the License area subject to a minimum annual charge of One thousand Pula (BWP1000.00).
- The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this  $/\ell \pi$  day of  $/\ell \pi$  in the year $2\pi\sigma S^2$ 

Minister Ministry of Minerals, Energy and Water Resources

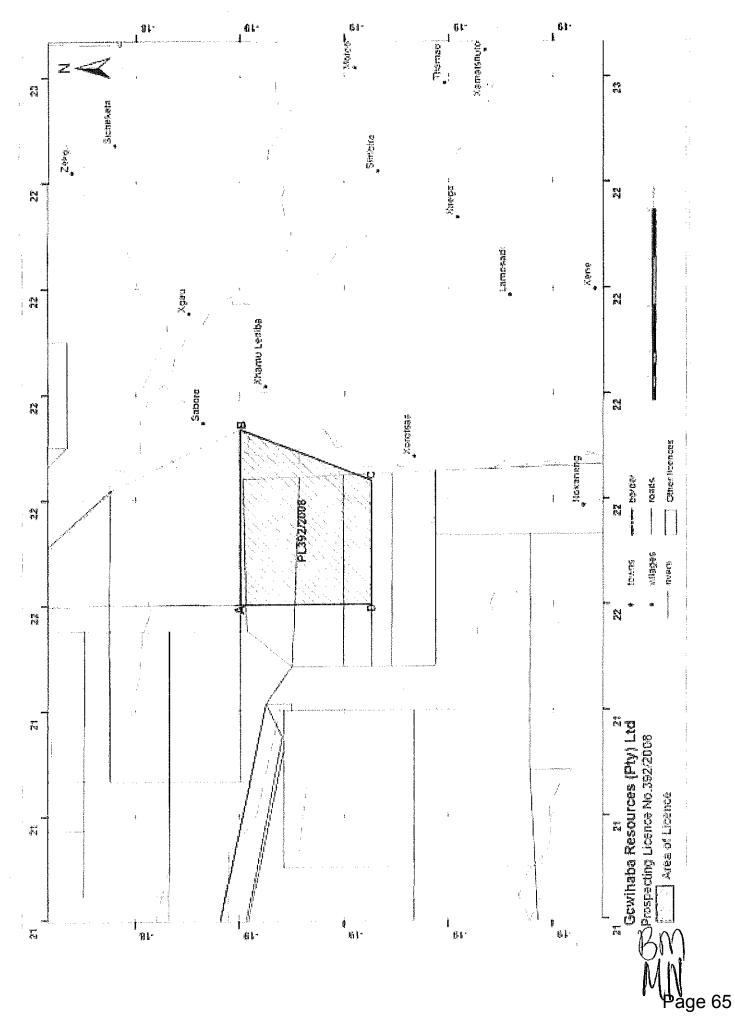
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#### ANNEXURE I

The license area is of Eight hundred and twenty eight point one square kilometers (828.1 km<sup>2</sup>) defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates:

<u>Point</u>	Longitude (East)	Latitude (South)
٨	21.999731	-19.001061
В	22.333031	-19.001061
C	22.235519	-19.251039
D	21.999731	-19.251039
Total Area	1 828.1 km <sup>2</sup>	





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### ANNEXURE II

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Programme of prospecting operations	Proposed minimum expenditure
Year 1	,
i. Detailed review of available data.	Seven Hundred
ii. Analysing the existing aero-mag, Landsat, VTEM and	Thousand Pula
Radarsat data.	(BWP 700,000.00)
iii. Follow-up grid geophysics of targets.	
iv. Soil sampling for key elements over selected targets	
v. Grid soil sampling to be submitted for 32 element	
analysis. vi. Ground scintilometer readings.	
vii. Prioritization of drill targets.	
Year 2	an a
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if	(BWP700,000.00)
appropriate.	Larres - Value Control - Larres - Value - Value - Control - Larres - Value - Control - Larres - Value - V
v. Multi- element Analysis by ICP (inductively-coupled	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
plasma).	Youmpite Areas
Year 3	
i. Drill testing of priority targets	Seven Hundred
ii. Petrographic analysis of drill core.	Thousand Pula
iii. Heavy mineral separation (TBE)	
iv. Element indicator mineral chemistry analysis if appropriate.	(BWP700,000.00)
vi. Multi- element Analysis by ICP (inductively-coupled	
plasma)	
vi. Drill testing of priority targets.	

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Page 66

"CCC4" **Exhibit 1** TSODILO RESOURCES LIMITED

CANADA TRUST TOWER - BCE PLACE, 161 BAY STREET, BOX 508, TORONTO, ONTARIO M5J 2S1 TEL. + 1 416 572-2033 / FAX + 1 416 987-4369 / EMAIL: info@tsodiloresources.com WEBSITE: http://www.tsodiloresources.com

October 25, 2017

Mr. Lesego Ungwang Acting Assistant Director Department of Mines The Ministry of Mineral Resources, Green Technology, and Energy Security

RE: Gcwihaba Resources (Pty) Ltd - Licenses

Dear Sir,

Once again thank you and Mr. Mathule, for taking time to meet with Dr Mike de Wit, Milton Keeletsang and myself on September 20, 2017. We appreciated the opportunity to meet with you and have a frank and open discussion with respect to Gcwihaba's metal licenses in Ngamiland.

Let me say from the onset that we understand the Ministry's and the Department of Mines' efforts in adhering to the spirit of the caveats that the UNESCO designation of the Okavango Delta as a World Heritage site have brought about. As the largest license or land holder in the area, we were never consulted by any party to the accord prior to the delta's designation which we have always thought peculiar but we have nonetheless conducted our activities in all our licenses according to the World Bank's good practice standards at all times with respect to environmental and social matters and will continue to do so.

Our prospecting licenses as they are today are set forth in attachment A & B. No license rests in either in the Ramsar or World Heritage core areas and only those to the east of the panhandle rest in the buffer zones (Attachment C). Some of our licenses in the buffer zone were renewed 2 years after the World Heritage designation while others which may or may not be contiguous to other licenses have not been acted upon in years or in an extreme case were granted to another company while still under license to us. The latter example is clearly an anomaly and not representative but it remains an issue. However, no matter the reason, the delay in renewal has caused actual damages in the exploration program due to the uncertainty caused by the delay. In the past five years, I would estimate that 250M BWP has been spent on the metals licenses and the uncertainties have now resulted in a disjointed exploration program and effort where there should be one cohesive effort and it has also hindered discussions with development partners who question the lack of license renewal.

It should also be pointed out that in previous discussions with the Honourable Mr. Onkokame Kitso Mokaila, Permanent Secretary Paya and others that no impediment to prospecting licenses in the buffer zone existed and that MMEWR and DEA were both so operating.



I have heard reports that our overtures to resolve these issues over the past years have been viewed by the DOM as contentious but let me assure you that this is not the case at all but rather it has been a good faith effort in trying to reach an understanding and a resolution of the matters with DOM.

In the spirit of equity and compromise without relinquishing any of our rights, we would like to propose for discussion purposes the following:

- We would agree to drop all claims be they actual or in equity to those licenses (11) highlighted in blue on both Attachment A & B effective December 31, 2017;
- in exchange for an initial grant of those licenses (10) highlighted in yellow in Attachment
   A & B to be effective January 1, 2018.

Although, we would have to take a large impairment charge on our financials for the relinquishment of the licenses we deem this an acceptable outcome if it allows us to further those licences west of the panhandle without any dark clouds which arise over any license controversy. In the mineral resource and other areas, Botswana works because of the rule of law and the ability of its governmental staff to address issues, it is in this context that we are putting forth this proposal.

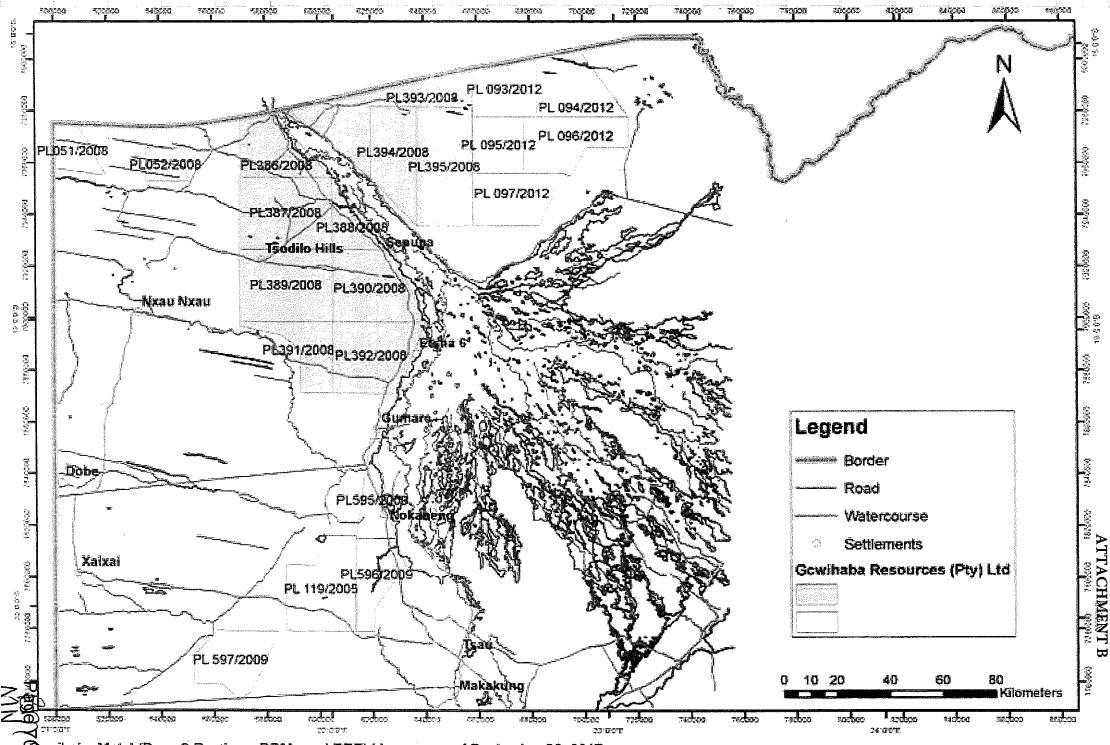
Best regards,

James M. Bruchs Chairman & CEO Attachment A, B & C

### **DESCRIPTION OF PROPERTIES**

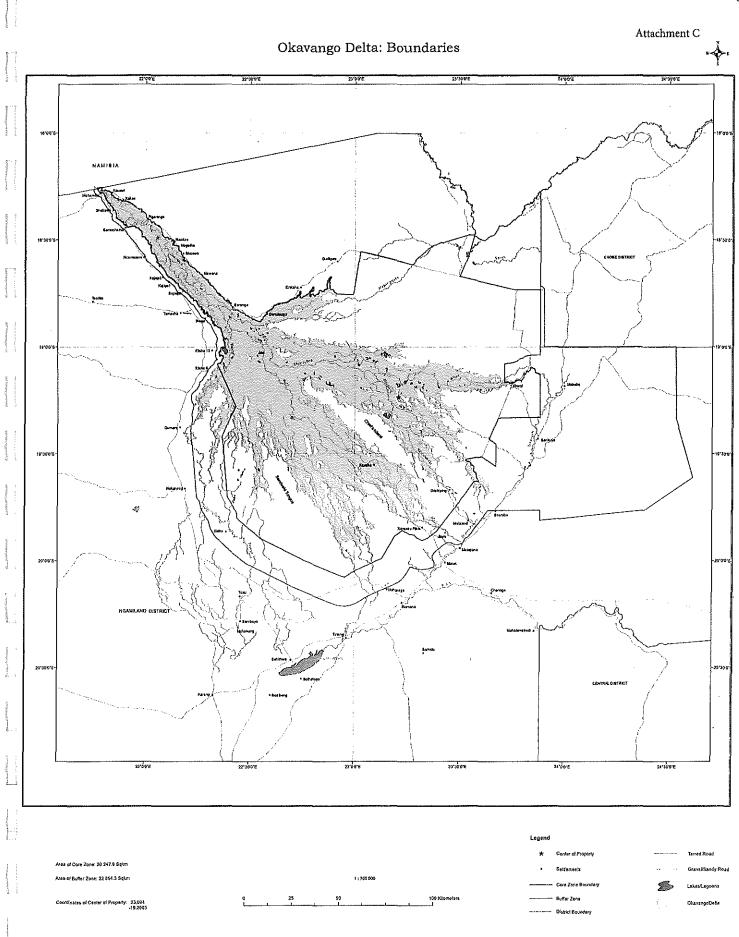
Gcwihaba Resources (Pty) Limited [Botswana] (Prospecting Licenses - Metals: base, precious, platinum group, and rare earth)

	PL number	PROPOSAL
1	PL 119/2005	RELINQUISH LICENSE AND ALL CLAIMS
2	PL 051/2008	RELINQUISH LICENSE AND ALL CLAIMS
3	PL 052/2008	RELINQUISH LICENSE AND ALL CLAIMS
4	PL 386/2008	RENEW INITIAL TERM AS OF 1/1/2018
5	PL 387/2008	RENEW INITIAL TERM AS OF 1/1/2018
6	PL 388/2008	RENEW INITIAL TERM AS OF 1/1/2018
7	PL 389/2008	RENEW INITIAL TERM AS OF 1/1/2018
8	PL 390/2008	RENEW INITIAL TERM AS OF 1/1/2018
9	PL 391/2008	RENEW INITIAL TERM AS OF 1/1/2018
10	PL 392/2008	RENEW INITIAL TERM AS OF 1/1/2018
11	PL 393/2008	RENEW INITIAL TERM AS OF 1/1/2018
12	PL 394/2008	RENEW INITIAL TERM AS OF 1/1/2018
13	PL 395/2008	RENEW INITIAL TERM AS OF 1/1/2018
14	PL 595/2009	RELINQUISH LICENSE AND ALL CLAIMS
15	PL 596/2009	RELINQUISH LICENSE AND ALL CLAIMS
16	PL 597/2009	RELINQUISH LICENSE AND ALL CLAIMS
17	PL 093/2012	RELINQUISH LICENSE AND ALL CLAIMS
18	PL 094/2012	RELINQUISH LICENSE AND ALL CLAIMS
19	PL 095/2012	RELINQUISH LICENSE AND ALL CLAIMS
20	PL 096/2012	RELINQUISH LICENSE AND ALL CLAIMS
21	PL 097/2012	RELINQUISH LICENSE AND ALL CLAIMS



Scwihaba Metal (Base & Precious, PGMs and REE) Licenses as of September 26, 2017.

<sup>(1871):</sup> CÁR 2 (1768): The set 1987 - CARE and Area is the state of the



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© Republic of Bolswana 2014

#### Co 88/384 / VAT No C00452001111

Mailing Address PO Box 3726 Gaborone, Bolswana Physical Address The Office Building #59 Plot 61547 Fairgrounds Office Park Gaborone, Botswana

TEL / FAX (267) 392-7144

January 23, 2018

Director of the Ministry of Mines

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**Registered Address** 

Unit G3, Victoria House

Plot 132, Independence Avenue

Gaborone, Botswana

Attention: Mr. Lesego Ungwang Acting Assistant Director Department of Mines The Ministry of Mineral Resources, Green Technology, and Energy Security

Dear Mr Ungwang,

Our Company received the new licences PL 20 -26/2018 earlier this week. I would however like to point out the following:

- The agreement with yau was that the Company would relinquish all licences east of the Okavango river and north of the Delta (PL 393, 394, 395/2008 and PL 093, 094, 095, 096, 097/2012), on which considerable expenses were incurred by the Company during its exploration program, in exchange for new licences replacing the existing ones on the west of the Okavango River (PL 386, 387, 388, 389, 390, 391 & 392/2008).
- The Company prepared and submitted the applications for new licences, replacing PL 386 392/2008 in its entirety, as agreed.
- J. The following new licences were received: PL 20, 21, 22, 23, 24, 25, and 26/2018.
- However, it is apparent that the eastern boundaries of PL 20, 21, 22, 24 & 26/2018 are not aligned with that of PL 386, 387, 388, 390 & 392 respectively and were modified by your office without notice or consultation.
- This might be an error on your behalf or done intentionally, but either way the Company requires that this modification of the licenses rectified.
- 6. If these boundaries were fixed *sua spone* with purpose not to coincide with the old licences, the Company wish to point out that the from Ore resource that the Company has outlined will be defined in value by a large number risking the fact that Ngamiland usight never benefit from this resource.
- 7. If the Ministry is not prepared to change the boundary to that as was agreed, the Company will withdraw its reliaquishment and revert back to the old licences, on both sides of the river for which it still has 2 years left and constitute with its drilling program.

Yours sincerely.

James M. Bruchs Managing Director

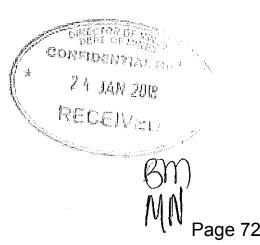


Exhibit 4

Page 73

Telephone: (207) 363 7059 Fas Sio: (267) 393 2341 Telegraphic Address: Mines Geberone



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#### REFUGLIC OF BOTSWANA

#### All correspondence to be addressed to the Director

Ref: CP 215 XIII (8)

Date: 16 February 2018

The Managing Director Gowihaba Resources (Pty) Ltd PO Box 3726 Gaborone

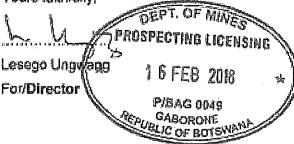
#### Attention: James M. Bruchs

Dear Sir,

#### RE: NEW PROSPECTING LICENCES 020-026/2018 ISSUED TO GCWIHABA RESOURCES (PTY) LTD

- Your letter dated 23 January 2018 and the meeting of 14 February 2018 with Gowihaba Resources (Pty) Ltd representatives refer.
- Please be informed that the Department of Mines is amenable to re-aligning the eastern boundaries of the prospecting licences to coincide with the original eastern boundaries of prospecting licences 386-392/2008.
- We recognise that the current eastern boundaries have a negative effect on your Fe ore resource and Cu deposits. To that end, the Department will issue amended prospecting licences with re-aligned boundaries.
- 4. The Department regrets any inconvenience that may have been caused by this oversight. Please do not hesitate to contact our office for any clarifications.

Yours faithfully,



Pisit our Webille m, http://www.mines.gov.bw/-

# GCWIHABA RESOURCES (PTY) LIMITED

#### Co 83/3847 VAT No C00452001111

Mailing Address PO Box 3726 Gaborony, Botswana Physical Address The Office Building 259 Plot 61547 Fairgrounds Office Park Gaborone, Botswana

TEL / FAX (267) 392-7144

Registered Address Unit G3, Victoria House Plot 132, Independence Avenue Gaborone, Botswana

CONFIDENTIAL RMU

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July 12, 2018

Director of the Ministry of Minus-

Attention: Mr. Lesego Ungwang Acting Assistant Director Department of Mines The Ministry of Mineral Resources, Green Technology, and Energy Security

Dear Mr Ungwang,

I would like to implie as to the status of the licenses which I brought to your attention on or about January 23, 2018 (see attachment A) regarding the inaccuracies of the license co-ordinates and our concern that the Department of Mines *sna sponte* decide to breach our agreement concerning these and other licenses. These are the same licenses together with the licenses east of the panhandle that we have been discussing with DOM for close to 3 years and it is not important at this time to reiterate everything as 1 am sure this matter has just been over-looked.

I acknowledge your response of February 14, 2018 to my letter (see Attachment B) in which you acknowledge the error and assured me that the errors would be corrected.

However, to this date, some 5 months later nothing has happened and we are whiting to commence work on the licenses. The errors can visually be seen on Attachment C. The source action by the DOM and not in conformity with our agreement has not only an impact on our exploration efforts and the resource defined billion USD iron ore project but it has further fegal and regulatory implications. I have assured our shareholders; our stakeholders; our lawyers; our regulators; and, our auditors that the long sage of these licenses was over and they accepted your fetter as acknowledgement of the same. I'm at a lost as to what to report now as 1 believe we have all outed in good faith and that there is just some elerical error that needs correcting. We and our joint venture patter have spent 25M USD on the project and the issues surrounding these licenses are something that need to get resolved as we agreed to do as we are not able to capitulate further.

18"1 may, I would again like to propose a solution that is 100% consistent with the agreement we reached. I have attached the original licenses (Attachment 4) and have the GIS license staff plot them exactly as they are and put an effective date on as July 1, 2018 for an initial term and we can all put this matter behind us.

Yours sincerely.

Mines M. Bruchs Managing Director Cc: Mike de Wit/ Blackie Marole / Mitton Keeletsang Attachments: A, B, C & D



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REPUBLIC OF DURSMANA

All correspondence to be addressed to the Director

Ref: CP 215 XIII (12)

Date: 02 August 2018

The Managing Director Gowihaba Resources (Ply) Ltd PO Box 3726 Gaborone

#### Attention: James M. Bruchs

Dear Sir,

#### RE: NEW PROSPECTING LICENCES 020-026/2018 ISSUED TO GCWIHABA RESOURCES (PTY) LTD

- 1. Your letter dated 12 July 2018 and our letter CP 215 XIII (8) dated 16 February 2018 on the subject matter refer.
- 2. In 2014, the Okavango Delta was declared a World Heritage Site by UNESCO and the Government of Botswana took a deliberate decision to prohibit any prospecting or mining activities within the core and buffer zones of the Delta. At the time Gcwihaba Resources (Pty) Ltd ('Gcwihaba') had a number of prospecting licences within the buffer zone of the Delta (see Map 1).
- 3. Gowihaba agreed in principle to relinquish all the licences in the buffer zone and others that were outside the buffer zone. In the spirit of fairness and compromise, Gowihaba proposed that the other prospecting licences that were located to the south-west of the pan-handle (see Map 2), where there is an auspicious deposit of magnetite, be renewed in their entirety with a new lease of life with effect from 1<sup>st</sup> January 2018.

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Origina	PLs	New F	ls	
PL Number	Size (km²)	PL Number	Size (km²)	Comments
386/2008	570.0	020/2018	458	Cut off from the Buffer Zone
387/2008	964.9	021/2018	925	Cut off from the Buffer Zone
388/2008	317.1	022/2018	152	Cut off from the Buffer Zone
389/2008	978.6	023/2018	978	Unaffected by the Buffer Zone
390/2008	978.6	024/2018	706	Cut off from the Buffer Zone and A35 road
391/2008	454.5	025/2018	455	Unaffected by the Buffer Zone.
392/2008	828.1	026/2018	732	Cut off from the Buffer Zone and A35 road

4. The licences were renewed as shown in the table below (see Map 3):

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- 5. On the basis of the above, the only prospecting licences that were to be corrected are 024/2018 and 026/2018 that have been cut off from the Sehitwa Shakawe road (A35). This correction was to involve moving the eastern boundaries of prospecting licences 024/2018 and 026/2018 from A35 road to the edge of the Buffer Zone (see Map 4).
- Please note that our letter of 16 February 2018 was with regards to the above mentioned two (2) prospecting licences only. It is obvious from your contention that this was erroneously construed to be in reference to all the prospecting licences.
- 7. We reiterate that the eastern boundaries of prospecting licences 020-026/2018 cannot be extended into the buffer zone of the Okavango Delta. If Gowihaba accedes to the correction as alluded to in bullet 5 above, the Department will amend prospecting licences 024/2018 and 026/2018 as proposed.
- 8. Please do not hesitate to contact our office if there is any clarification sought.

Yours faithfully,

Accessi est Sellinah A. Mogojwa **Director of Mines** 

Pisit our Website at http://www.mittes.gas.hu/

# «CCCq»

# **GCWIHABA RESOURCES (PTY) LIMITED**

#### Co 88/384 / VAT No C00452001111

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 61547 Fairgrounds Office Park Gaborone, Botswana Registered Address Unit G3, Victoria House Plot 132, Independence Avenue Gaborone, Botswana

TEL / FAX (267) 392-7144

August 13, 2018

Director of the Ministry of Mines

Attention: Sellinah A. Mogojwa, Director Department of Mines (DOM) The Ministry of Mineral Resources, Green Technology, and Energy Security (MRGE)

#### **RE:** Gcwihaba Resources (Pty) Ltd Prospecting Licenses

Dear Madame Director,

Thank you for your correspondence of August 2, 2018. I have read it over several times, shared it with my colleagues and with counsel and from our standpoint it is neither supported by the documented facts or represents an accurate portrayal of the agreement reached with DOM with respect to our prospecting licenses in Ngamiland. Your letter asks us to accept the credulity of a narrative that is neither accurate or factually supported.

I will address the points you set forth individually and incorporate my letters of October 25, 2017, January 24, 2018 and July 12, 2018 and DOM's letters of February 16, 2018 and August 2, 2018. Your statements as they are set forth in your letter are italicized and Gcwihaba Resources (Pty) Limited's (Gcwihaba) response follows each point.

#### DOM

2. In 2014, the Okavango Delta was declared a World Heritage Site by UNESCO and the Government of Botswana took a deliberate decision to prohibit any prospecting or mining activities within the core and buffer zones of the Delta. At the time Gcwihaba Resources (Pty) Ltd ("Gcwihaba") had a number of prospecting licenses within the buffer zone of the Delta (see Map 1),

#### Gcwihaba response:

Facts:

1) At no time did DOM or MRGE inform Gcwihaba of any such prohibition to prospecting or mining in the areas where we held licenses. If in 2014 a decision to prohibit any prospecting or mining activities was indeed consummated there must be a record of such a public decision and we hereby request a copy of any such



documentation. We would also request any such record evidencing this prohibition being delivered to us.

- 2) As a stakeholder, we were never consulted or advised with respect to the UNESCO process although I have recently been told by our lawyers that there are references in the UNSECO filings by the government of Botswana that all stakeholders were consulted with. This statement by the government is not accurate with respect to Gcwihaba as no such consultations with Gcwihaba were ever held.
- 3) Starting in 2013 and prior to the OKV designation as a World Heritage site, Minister Onkokame Kitso Mokaila and Permanent Secretary Boikobo Paya informed us on numerous occasions in 2013, 2014, 2015 and 2016 that "the Botswana government would not allow the placement of any arbitrary boundaries against the development of its natural resources for the benefit of its people". In fact, Ministry staff several times commented about the problems that would occur if an Orapa was found in the core zone! More to the point, we were informed by Minister Mokaila that he in fact held high level talks at the end of 2015 with his counterpart, Minister TS Khama at the Ministry of Environment, Natural Resources and Conservation and Minister Mokaila stood firm in his resolve that the buffer zone was not off limits to prospecting or development
- 4) The facts set forth in point 3 are further supported by the fact that on July 1, 2016, two (2) years after the World Heritage designation, the Minister renewed PLs 386, 387, 388, 390 and 392 all of which had parts of them in the buffer zone and PLs 393, 394 and 395 which were entirely in the buffer zone were also renewed. These licenses were all processed by DOM while you were the Director at DOM.
- 5) In 2014, 2015, 2016, 2017, the DOM issued confirmation letters confirming that the licenses in question were in good order. Nowhere in the confirmation letters are there qualifying remarks that impair the licenses which DOM would have to have been stated if in fact what you say is correct.
- 6) I read your letter as an admission that the Ministry intentionally granted licenses knowing full well that they would never allow resource development in a portion or all the area and yet they did not inform the license holder who was spending money on these projects or offer any reparations for this condemnation or impairment. You are effectively saying that there was a constructive taking of the license without notice or compensation.
- 7) Accordingly, only one of the following can be true:

a) there was a ban on PLs being awarded in the buffer zone after 2014 in which case we are owed some +25M USD representing the expenditure on these licenses plus the value of the iron deposit because you contend we should not have been awarded these licenses in the first place; or

b) Minister Mokaila and PS Paya were correct in their statements and the renewal licenses in 2016 were indeed correct.

c) a & b cannot both be correct.

Page 78

#### DOM

3. Gcwihaba agreed in principle to relinquish all of the licenses in the buffer zone and others that were outside the buffer zone. In the spirit of fairness and compromise, Gcwihaba proposed the other prospecting licenses that were located to the south-west of the pan-handle (see Map 2), where there is an auspicious deposit of magnetite, be renewed in their entirety with a new lease of life with effect from 1<sup>st</sup> January 2018.

#### Gewihaba response:

The supposition of your statement is not supported by the facts so it is hard for me to comment on such inaccuracies.

#### Facts

- After several years of countless meetings with DOM and resulting no actions on several PL's that were languishing in their renewals only to discover that one if not more of these metals licenses were given to a Chinese company, Triprop Holdings, while it was still licensed to Gcwihaba, I then took a conciliatory approach with DOM to get everything resolved as no one including our investors, the public market and ourselves could understand why licenses were not being renewed despite being told repeatedly by DOM over years that "don't worry next week they will be done".
- 2) Gcwihaba proposed a solution and that is set forth in my letter of October 25, 2017 and January 24, 2018. The only difference between the October 2017 discussion letter given to DOM and the January 24, 2018 letter is that we capitulated and gave up our rights to PL's 393, 394 and 395 during discussions with DOM in November and December of 2017. We gave up our rights and claims to 14 licenses in their entirety and kept 7 as they currently were. At no time did we ever say that we would give up any areas in PL's 386 392 (7 licenses) nor were we ever asked to as part of our agreement with DOM. My offer was accepted by DOM in early December 2017 and we proceeded to relinquish all licenses effective December 29, 2018 in consideration for PL's 386 392 being issued to us with an effective date of January 1, 2018.
- 3) The agreement between Gcwihaba and DOM is set forth in the attached letters and there is no need to repeat what has already been said except to say that Dr de Wit, Milton Keeletsang, Lesego Ungwang (DOM Employee), Mr. Mathule (DOM Employee), and myself will testify under oath to the circumstances and facts surrounding the 21 PL's held by Gcwihaba and the agreement with DOM concerning those licenses and that testimony is not consistent with the facts as you have set forth. As you were not present at the meetings I can only surmise that you have been provided with misinformation as I am confident that the individuals named above and myself will testify truthfully and that testimony is not consistent with what you have set forth.

#### DOM

4. The licenses were renewed as shown in the table below (see Map 3): (table and map excluded - JMB)

#### Gcwihaba response:

Facts

1) The licenses were not renewed as agree to by the parties as set forth in my letter of January 24, 2018 and DOM's reply letter of February 16, 2018. Point 2 of DOM's February 16, 2018 letter states as follows:

"Please be informed that the Department of Mines is amenable to realigning the eastern boundaries of the prospecting licences to coincide with the <u>original eastern boundaries of prospecting licences</u> <u>386-392/2008</u>." (emphasis added)

- 2) DOM's letter of February 16, 2018 is in response to my correspondence of January 24, 2018 in which I asked DOM to align the 7 licenses to our original licenses as per our agreement. DOM's letter in response apologized for the error and said they would move the 7 licenses to their original co-ordinates. Further to my letter, a meeting was held on February 14, 2018 between Dr Michiel CJ de Wit, Milton Keeletsang and Lesego Ungwang (DOM Employee) and Mr. Mathule (DOM Employee) with respect to the license boundaries.
- 3) To date some 6 months after DOM's letter of February 16, 2018 the boundaries have not been re-aligned.

#### DOM

- **Original PLs** New PLs Comments PL Size PL Size Number Number  $(km^2)$  $(\mathrm{km}^2)$ Cut off from the Buffer Zone 386/2008 570.0 020/2018 458 Cut off from the Buffer Zone 387/2008 964.9 021/2018 925 388/2008 317.1 022/2018 152 Cut off from the Buffer Zone 389/2008 978.6 023/2018 978 Unaffected by the Buffer Zone 390/2008 978.6 706 Cut off from the Buffer Zone and A35 024/2018 391/2008 454.5 025/2018 455 Unaffected by the Buffer Zone. 392/2008 732 Cut off from the Buffer Zone and A35 828.1 026/2018 5091.8 4406 685.8 km<sup>2</sup> reduction by DOM (JMB)
- 4. The licences were renewed as shown in the table below (see Map 3):

- 5. On the basis of the above, the only prospecting licenses that were to be corrected are 024/2018 and 026/2018 that have been cut off from the Sehitwa Shakawe road (A35). This correction was to involve moving the eastern boundaries of prospecting license 024/2018 and 026/2018 from A35 road to the edge of the Buffer Zone (see Map 4).
- 6. Please note that our letter of 16 February 2018 was with regards to the above

age 80

mentioned two (2) prospecting licences only. It is obvious from your contention that this was erroneously construed to be in reference to all the prospecting licences.

#### Gcwihaba response:

With respect to Point 4, 5 & 6, I again have a difficult time to formulate a coherent response because the facts are not correct.

- 1) DOM's letter of February 16, 2017 refers to 7 licenses, PL386-392 and any assertions that it is referring to 2 licenses are ludicrous and not consistent with either the documented facts nor testimony that will be forthcoming from Gcwihaba employees or DOM employees.
- 2) In Point 5 you state that PL24 & 26 (are) being changed to accommodate our auspicious deposit of magnetite and you accommodate this by changing PLs 24 & 26.
- 3) None of this makes any sense because the magnetite iron deposit is located in old PL386 397 or new PL20 & 21. There was never any discussion about magnetite being in PL24 or PL26 as there is only possible cobalt, copper and gold deposits in these licenses.
- 4) Compounding this problem is that nothing in your points 4, 5 or 6 deal with the issue that DOM said it would fix the eastern boundaries as set forth in DOM's letter of February 16, 2018 which states exactly as follows:

2. Please be informed that the Department of Mines is amenable to re-aligning the eastern boundaries of the prospecting licences to coincide with the original eastern boundaries of prospecting licences 386-392/2008.

3. We recognise that the current eastern boundaries have a negative effect on your Fe ore resource and Cu deposits. To that end, the Department will issue amended prospecting licences with re-aligned boundaries.

- 5) Simply put, the facts as you state them have no support, they are just unsupported statements of convenience.
- 6) The *sua sponte* changing of the license area has effectively reduced our license area by 659 square kilometres a material amount.

#### DOM

7. We reiterate that the eastern boundaries of prospecting licenses 020-026/2018 cannot be extended into the buffer zone of the Okavango Delta. If Gcwihaba accedes to the correction as alluded to in bullet 5 above, the Department will amend the prospection licenses 024/2016 and 026/2018 as proposed.

#### Gcwihaba response:

Your proposal is not acceptable nor is it consistent with the agreement made with DOM. At the end of the 2017 Financial Year and the First Quarter 2018, I notified the market place, our stakeholders, our shareholders and the regulators that we had after negotiations with DOM relinquished twenty-one license (21) in consideration of our 7 core licenses being renewed in their entirety. This disclosure was with the approval of our auditors Ernst & Young LLP and their approval of the disclosure language was based entirely on DOM's letter of February 16,

Page 81

2018 in response to my letter of January 24, 2018, in which DOM confirmed that the licenses would be reconfigured to the correct co-ordinates.

Our Second Quarter Financials are due to be released no later than the 24<sup>th</sup> of August and we need to have this matter resolved prior to that date as I am required to give the specifics of the dispute with DOM over these licenses if the matter is in fact not resolved as previously disclosed.

If we do not resolve this matter then I suggest that the best way forward is to submit this matter to binding arbitration with respect to the issue of damages as I do not believe there is any question as to the facts surrounding this matter as you on behalf of the Botswana government are confiscating at least part of a resource that has a current in situ value of some \$14 billion USD with respect to the Block 1 resource and \$159 to \$223 billion USD if extrapolated to the entire exploration target. We would be agreeable to submit this matter to the International Chamber of Commerce (ICC) to determine damages as First Quantum Minerals did with the Democratic Republic of Congo (DRC) and others when the DRC impaired / confiscated their licenses. First Quantum Minerals were subsequently awarded \$1.25B USD.

We are not asking for anything more than what was agreed to and that which we already had. DOM's breach of the agreement entered into was not only deceitful to Gcwihaba but the effective confiscation of our licenses in not consistent to representations made to UNESCO and I don't believe UNESCO would have approved the designation when they did if they knew that the representations about consultations with stakeholders were not accurate.

Yours sincerely,

James M. Bruchs
Managing Director
Cc: Permanent Secretary, Cornelius K. Dekop Mike de Wit / Blackie Marole / Milton Keeletsang
Attachments: 1) October 25, 2017 letter from James M. Bruchs to Lesego Ungwang
2) January 24, 2018 letter from James M. Bruchs to Lesego Ungwang
3) February 16, 2018 letter from Lesego Ungwang to James M. Bruchs
4) July 12, 2018 letter from James M. Bruchs to Lesego Ungwang
5) August 2, 2018 letters from Director Sellinah A. Mogojwa to James M. Bruchs

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Page 82

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**REPUBLIC OF BOTSWANA** 

# **PROSPECTING LICENCE**

# in favour of

# **GCWIHABA RESOURCES (PTY) LTD**



PROSPECTING LICENCE NO. 020/2018





Form II/Amendment

Prospecting Licence No.020/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- The Licence area shall be the area shown on the map annexed hereto in extent of five hundred and seventy square kilometres (570 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure 1 hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

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#### **ANNEXURE I**

The Licence area is five hundred and seventy square kilometres (570 km<sup>2</sup>) in the **Ngamiland District** defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

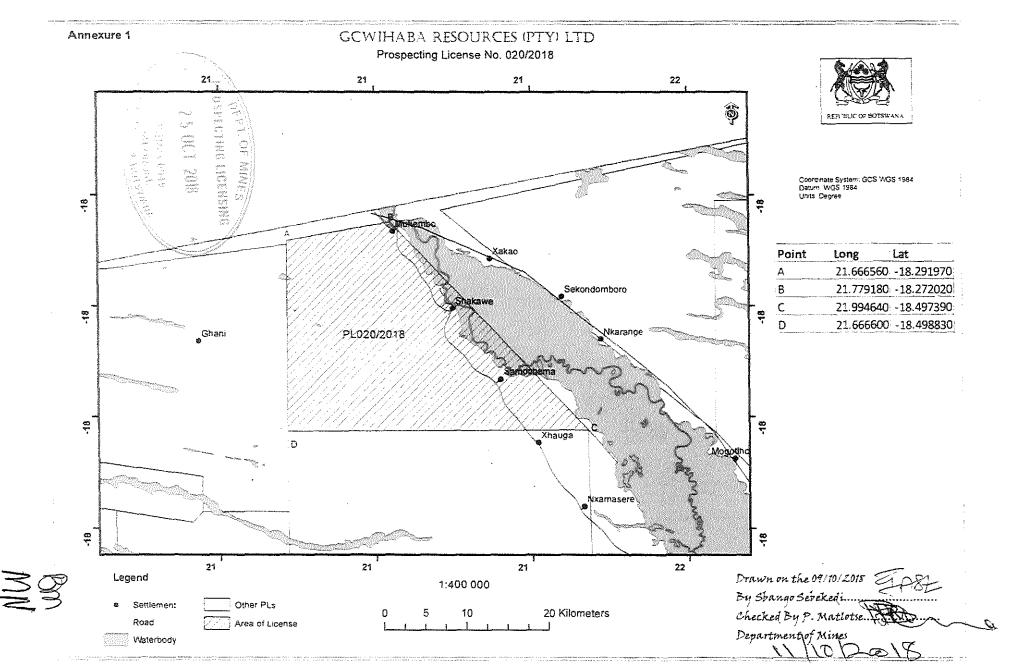
<u>Point</u>	Longitude (E)	Latitude (S)
<b>A</b>	21.666560	-18.291970
B	21.779180	-18.272020
C	21.994640	-18,497390
D	21.666600	-18,498830

Total Area =  $570 \text{ km}^2$ 

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DEPT. OF MINES PROSPECTING LICENSING 2 5 OCT 2018 P/BAG 0049 GABOROUL En GABORONIL

<sup>5</sup>age 85



Page 86

Programme of prospecting operations	Proposed minimum expenditure	
<ul> <li>Year 1</li> <li>i. Conduct detailed review and analysis of geological and geophysical historical data, and continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>ii. Petrographic analyses of existing drill cores.</li> <li>iii. Further assaying of existing drill cores.</li> <li>iv. Conduct detailed ground magnetic survey.</li> <li>v. Extension and completion of the tie-lines of the airborne gravity survey and conduct drilling.</li> <li>vi. ICP multi-element geochemical analysis of 220 drill holes targeting metal anomalism.</li> <li>vii. Analysis of sulphide-rich mineral intersections from recently-drilled boreholes.</li> <li>viii. Water sampling for hydro geochemical analysis.</li> <li>ix. Complete a Preliminary Economic Assessment (PEA).</li> <li>x. Investigation of the transport of metals from bedrock into detectable anomalies and completion of geological model.</li> <li>xi. Geological interpretation in 2D (MapInfo) and 3D (Leapfrog) software.</li> </ul>	Seventy Thousand Pula (BWP 70,000.00)	
Year 2 i. Further Mineral Resource estimation and definition to expand the resource model beyond the initial resource report. ii. Analyses of recently flown (2013/2014) airborne magnetic,	PROSPECTING LICENSE 2.5 OCT 2018	VG
<ul> <li>electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>ii. Drilling of 32 drill holes totaling 6,300 meters targeting high grade magnetite material.</li> <li>v. Assaying of drill core samples using at least XRF analysis.</li> <li>v. Assaying of drill core samples using at least XRF analysis.</li> <li>v. Assaying of drill core samples using at least XRF analysis.</li> <li>v. Assaying of drill core samples using GOCAD.</li> <li>vi. A NI 43-101 MRE report and resource statement.</li> <li>vii. Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.</li> <li>viii. Carryout a Pre-feasibility studies.</li> <li>x. Conduct diamond core drilling of priority targets.</li> <li>k. Conduct petrographic analyses of drill cores.</li> <li>ki. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ul>	Eighty Thousand Pula (8WP 80,000.00)	

# ANNEXURE II

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	, <u>Year 3</u>	
	i. Define extended resources.	
ing a barang sa sa sa sa Ang sa	ii. Drilling of 31 drill holes totaling 6,200 meters targeting high grade magnetite material.	
	iii. Assaying of drill cores using XRF analysis.	
	iv. Geological modelling of the deposit.	
en gener. Etheren	v. A third NI 43-101 MRE report and resource statement.	Ninety Thousand
	vi. Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.	Pula
	vii. Outline diamond core drilling of targets that have been identified	(BWP 90,000.00
	as having the potential for an inferred resource.	(0.000.000
	viii. Conduct petrographic analyses of drill cores.	
	ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and	
	XRF, ME). X. Conduct further detailed geophysical and drilling to prepare for an	
	NI 43-101 Mineral Resource Report	
	PROSPECTING LICENSING	
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**REPUBLIC OF BOTSWANA** 

## **PROSPECTING LICENCE**

in favour of

GCWIHABA RESOURCES (PTY) LTD DEPTOF MIALS PHOSPEGTING LICENSING A 25 DCT 2018

**PROSPECTING LICENCE NO. 021/2018** 





Form II/Amendment

Prospecting Licence No.021/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- 1. The Licence area shall be the area shown on the map annexed hereto in extent of nine hundred and sixty four point nine square kilometres (964.9 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

22nd day of GIVEN under my hand at GABORONE this Catoleli in the year 2018. PROSPECTING LICENSING 2.5 OCT 2018 P'HAG 0049 Ministry of Mineral Resources, GALORONT. Green Technology and Energy Security 位于5.67 BDT280月1



#### **ANNEXURE I**

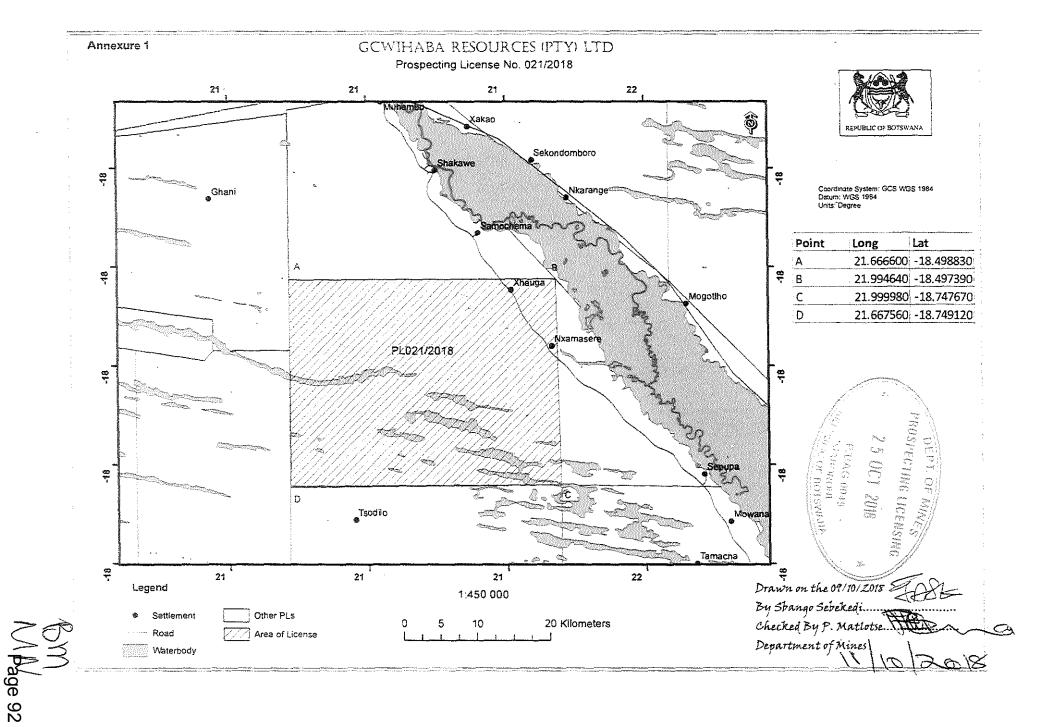
The Licence area is nine hundred and sixty four point nine square kilometres (964.9 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

<u>Point</u>	Longitude (E)	Latitude (S)
A	21.666600	-18.498830
B	21.994640	-18.497390
C	21.999980	-18.747670
D	21.667560	-18.749120

Total Area = 964.9 km<sup>2</sup>



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<u>ANNEXUKE II</u>	، در
Programme of prospecting operations	Proposed minimum expenditure
<u>Year 1</u>	
<ol> <li>Conduct detailed review and analysis of geological and geophysical historical data, and continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>Petrographic analyses of existing drill cores.</li> <li>Further assaying of existing drill cores.</li> <li>Conduct detailed ground magnetic survey.</li> <li>Extension and completion of the tie-lines of the airborne gravity survey and conduct drilling.</li> <li>ICP multi-element geochemical analysis of 220 drill holes targeting metal anomalism.</li> <li>Analysis of sulphide-rich mineral intersections from recently-drilled boreholes.</li> <li>Complete a Preliminary Economic Assessment (PEA).</li> <li>Investigation of the transport of metals from bedrock into detectable anomalies and completion of geological model.</li> <li>Geological interpretation in 2D (MapInfo) and 3D (Leapfrog) software.</li> </ol>	Seventy Thousand Pula (BWP 70,000.00) DEPT. OF MINES PROSPECTING LICENSING 2 5 OCT 2018
Year 2	P/BAC 00.49
<ul> <li>i. Further Mineral Resource estimation and definition to expand the resource model beyond the initial resource report.</li> <li>ii. Analyses of recently flown (2013/2014) airborne magnetic, electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>iii. Drilling of 32 drill holes totaling 6,300 meters targeting high grade magnetite material.</li> <li>iv. Assaying of drill core samples using at least XRF analysis.</li> <li>v. Geological modelling of the deposit using GOCAD.</li> <li>vi. A NI 43-101 MRE report and resource statement.</li> <li>viii. Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.</li> <li>viiii. Carryout a Pre-feasibility studies.</li> <li>ix. Conduct diamond core drilling of priority targets.</li> <li>x. Conduct petrographic analyses of drill cores.</li> <li>xii. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ul>	Eighty Thousand Pula (BWP 80,000.00)

# ANNEXURE II



#### Year 3 Define extended resources. i. ii. Drilling of 31 drill holes totaling 6,200 meters targeting high grade magnetite material. iii. Assaying of drill cores using XRF analysis. iv. Geological modelling of the deposit. v. A third NI 43-101 MRE report and resource statement. Ninety Thousand vi. Conduct detailed metallurgical test work including DTR analysis Pula and magnetic susceptibility measurements. (BWP 90,000.00) vii. Outline diamond core drilling of targets that have been identified as having the potential for an inferred resource. vili. Conduct petrographic analyses of drill cores. ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). x. Conduct further detailed geophysical and drilling to prepare for an NI 43-101 Mineral Resource Report. DEPT. OF MINES PROSPECTING LICENSING

25 OCT 2018

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**REPUBLIC OF BOTSWANA** 

# **PROSPECTING LICENCE**

in favour of

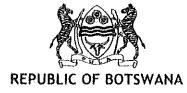
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# GCWIHABA RESOURCES (PTY) LTD

**PROSPECTING LICENCE NO. 022/2018** 

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Form II/Amendment

Prospecting Licence No.022/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- 1. The Licence area shall be the area shown on the map annexed hereto in extent of three hundred and seventeen point one square kilometres (317.1 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

Under my hand of Myear 2018. GIVEN under my hand at GABORONE this ...... dav of 25 OCT 2018 PRISAG 0049 Minister <sup>Lie</sup>orous CONCORDER OF BOISWARD Ministry of Mineral Resources, Green Technology and Energy Security



#### ANNEXURE I

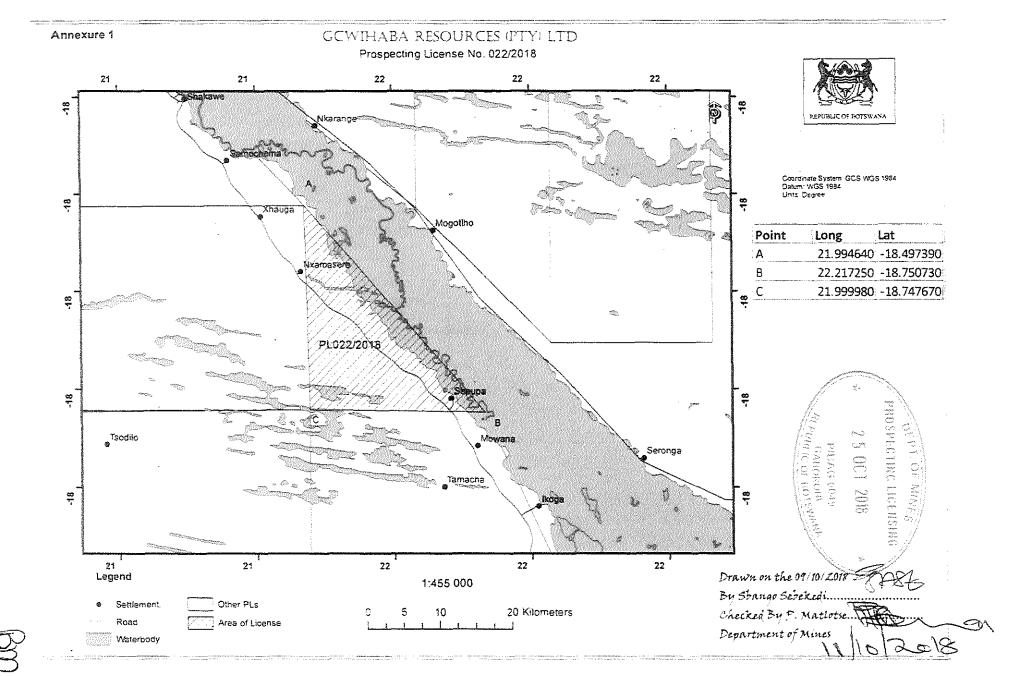
The Licence area is three hundred and seventeen point one square kilometres (317.1 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

Point Longitude (E)	Latitude (S)
A 21.994640	-18.497390
B 22.217250	-18.750730
C 21.999980	-18.747670

Total Area = 317.1 km<sup>2</sup>







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rogramme of prospecting operations	Proposed minimum expenditure
<u>'ear 1</u>	
<ul> <li>Conduct detailed review and analysis of geological and geophysic historical data, and continued upgrading of ground magne surveys, and building of geophysical and geological models.</li> <li>Petrographic analyses of existing drill cores.</li> <li>Further assaying of existing drill cores.</li> <li>Conduct detailed ground magnetic survey.</li> <li>Extension and completion of the tie-lines of the airborne grav survey and conduct drilling.</li> <li>ICP multi-element geochemical analysis of 220 drill holes targeti metal anomalism.</li> <li>Analysis of sulphide-rich mineral intersections from recently-drill boreholes.</li> <li>Investigation of the transport of metals from bedrock in detectable anomalies and completion of geological model.</li> <li>Geological interpretation in 2D (MapInfo) and 3D (Leapfro software.</li> </ul>	ity Seventy Thousand Pula (BWP 70,000.00) led
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(ear 2	The second second second
<ul> <li>Further Mineral Resource estimation and definition to expand t resource model beyond the initial resource report.</li> <li>Analyses of recently flown (2013/2014) airborne magnet electromagnetic, radiometric, and gravity surveys, as well continued upgrading of ground magnetic surveys, and building geophysical and geological models.</li> </ul>	ic, as



Year 3 j, Define extended resources. ii. Drilling of 31 drill holes totaling 6,200 meters targeting high grade magnetite material. iii. Assaying of drill cores using XRF analysis. iv. Geological modelling of the deposit. A third NI 43-101 MRE report and resource statement. Ninety Thousand ٧. vi. Conduct detailed metallurgical test work including DTR analysis Pula and magnetic susceptibility measurements. vii. Outline diamond core drilling of targets that have been identified (BWP 90,000.00) as having the potential for an inferred resource. viii. Conduct petrographic analyses of drill cores. ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and Assaying of drift cores using a variety XRF, ME). Conduct further detailed geophysical and drilling to prepare for an Depart Χ. NI 43-101 Mineral Resource Report. ÷ 2-5-00-T-2018 ä P/6AG 0049 Are out or BOTS WINH GAUGRONE.



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**REPUBLIC OF BOTSWANA** 

# **PROSPECTING LICENCE**

in favour of

**GCWIHABA RESOURCES (PTY) LTD** 

DEPT. OF MINES PROSPECTING LICENSING 2.5 OCT 2018 F/BAG (PP) Accesses. ana an<sup>sa</sup>

**PROSPECTING LICENCE NO. 023/2018** 





Form II/Amendment

Prospecting Licence No.023/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- 1. The Licence area shall be the area shown on the map annexed hereto in extent of nine hundred and seventy eight point six square kilometres (978.6 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

PROSPECTING LICENSING 2 5 OCT 2018 l Minister PRAC 0048 Ministry of Mineral Resources, CARCHICHE FAC OF BOS BUL Green Technology and Energy Security



#### ANNEXURE I

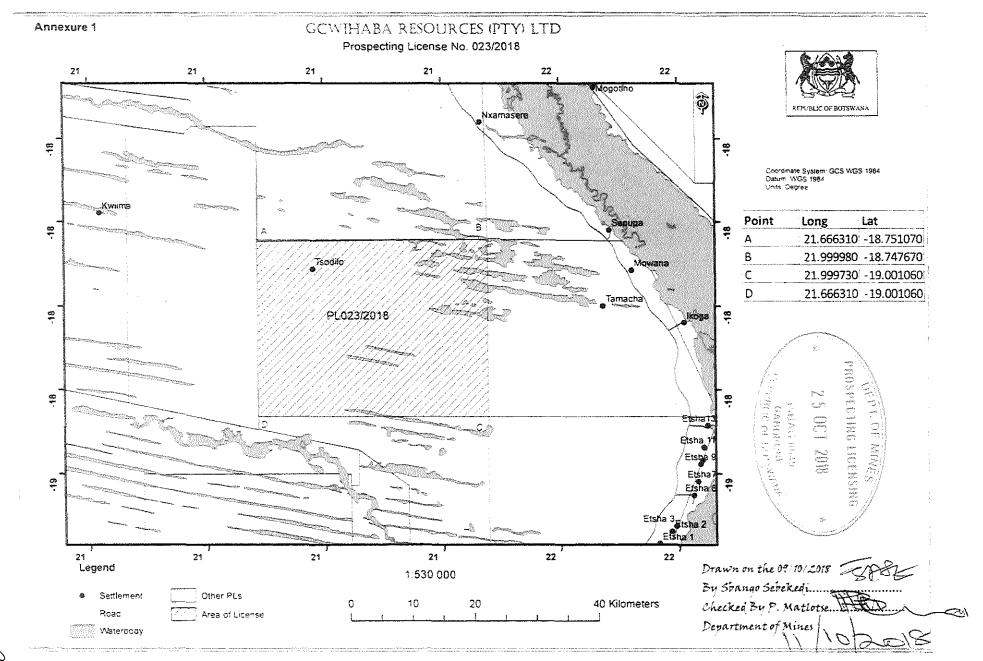
The Licence area is nine hundred and seventy eight point six square kilometres (978.6 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

<u>Point</u>	Longitude (E)	Latitude (S)
A	21.666310	-18.751070
В	21.999980	-18.747670
C	21.999730	-19.001060
D	21.666310	-19.001060

Total Area = 978.6 km<sup>2</sup> PROSPECTING LICENSING

2 5 OCT 2018 P/BAC 0049 CABORONE CABORONE UNLIC OF BOTSVIPIL





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Programme of prospecting operations	Proposed minimum expenditure
<ul> <li>Year 1         <ol> <li>Conduct detailed review and analysis of geological and geophysic historical data, and continued upgrading of ground magnet surveys, and building of geophysical and geological models.             <ol></ol></li></ol></li></ul>	tic ity Seventy Thousand Pula (BWP 70,000.00) ed to g) PROSPECTING LICENS 2 5 OCT 2018 PROSPECTING LICENS 2 5 OCT 2018 PREAG DOAS GABOROUF COLUCISSION COLUCISSION Eighty Thousand Pula (BWP 80,000.00)

# <u>ANNEXURE II</u>

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<u>re</u>	<u>ar 3</u>	
	Define extended resources.	
l ii.	Drilling of 31 drill holes totaling 6,200 meters targeting high grade	
	magnetite material.	
	Assaying of drill cores using XRF analysis. Geological modelling of the deposit.	
	A third NI 43-101 MRE report and resource statement.	Ninety Thousar
	Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.	Pula
- <b>-</b>		
vii	Outline diamond core drilling of targets that have been identified as having the potential for an inferred resource.	(BWP 90,000.0
	as having the potential for an inferred resource.	(BWP 90,000.0
viii	as having the potential for an inferred resource. . Conduct petrographic analyses of drill cores.	
viii ix.	as having the potential for an inferred resource. Conduct petrographic analyses of drill cores. Assaying of drill cores using a variety of techniques (AAS, ICP, and AS)	OF MD
viii ix.	as having the potential for an inferred resource. Conduct petrographic analyses of drill cores. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). Conduct further detailed geophysical and drilling to prepare 765 and	OF MD
viii ix.	as having the potential for an inferred resource. Conduct petrographic analyses of drill cores. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). Conduct further detailed geophysical and drilling to prepare to sand NI 43-101 Mineral Resource Report.	OF MINES
viii ix.	as having the potential for an inferred resource. Conduct petrographic analyses of drill cores. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). Conduct further detailed geophysical and drilling to prepare to sand NI 43-101 Mineral Resource Report.	OF MD
viii ix.	as having the potential for an inferred resource. Conduct petrographic analyses of drill cores. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). Conduct further detailed geophysical and drilling to prepare to sand NI 43-101 Mineral Resource Report.	OF MINES



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**REPUBLIC OF BOTSWANA** 

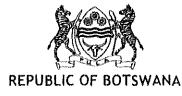
# **PROSPECTING LICENCE**

in favour of

GCWIHABA RESOURCES (PTY) LTD OF MONES PROSPECTING LICENSING 2 5 OCT 2018 \* Pribact conty Construction of the second secon

**PROSPECTING LICENCE NO. 024/2018** 





Form II/Amendment

Prospecting Licence No.024/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- The Licence area shall be the area shown on the map annexed hereto in extent of eight hundred and seven point three square kilometres (807.3 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this ..... C. C. C. C. In the year 2018. PROSPECTING LICENSING 25 OCT 2018 Minister P/BAG 0089 GABORCHIE Ministry of Mineral Resources, Service of a constraint Green Technology and Energy Security



## ANNEXURE I

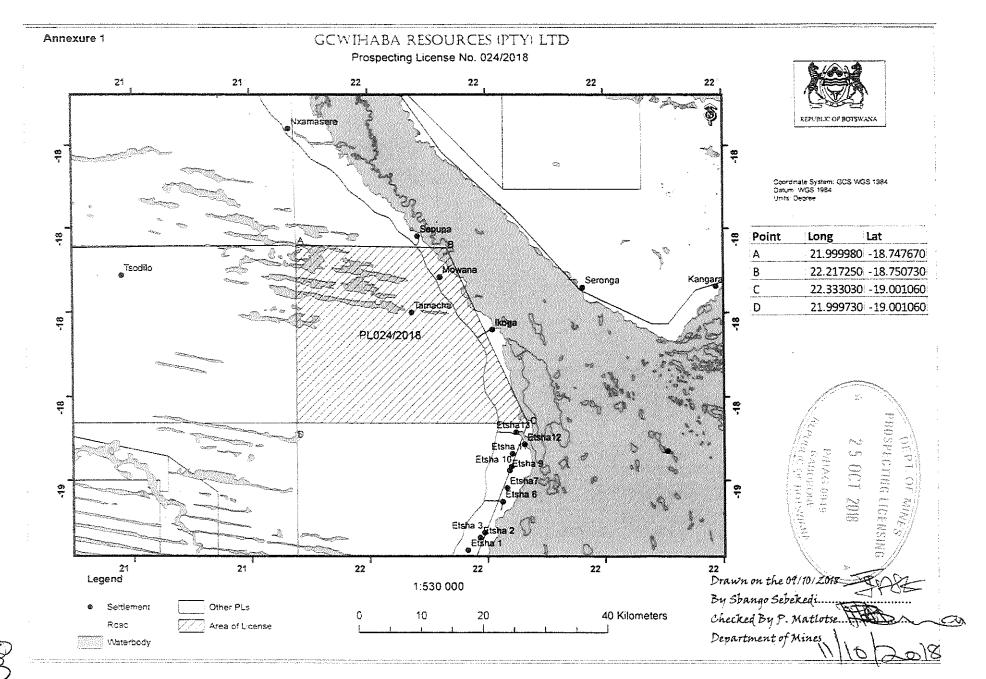
The Licence area is eight hundred and seven point three square kilometres (807.3 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

Point Longitude (E)	Latitude (S)
A 21.999980	-18.747670
B 22.217250	-18.750730
C 22.333030	-19,001060
D 21.999730	-19.001060

Total Area = 807.3 km<sup>2</sup>

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ANNEXUKE II	
Programme of prospecting operations	Proposed minimum expenditure
<ul> <li>Year 1.</li> <li>i. Conduct detailed review and analysis of geological and geophysical historical data, and continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>ii. Petrographic analyses of existing drill cores.</li> <li>iii. Further assaying of existing drill cores.</li> <li>iv. Conduct detailed ground magnetic survey.</li> <li>v. Extension and completion of the tie-lines of the airborne gravity survey and conduct drilling.</li> <li>vi. ICP multi-element geochemical analysis of 220 drill holes targeting metal anomalism.</li> <li>vii. Analysis of sulphide-rich mineral intersections from recently-drilled boreholes.</li> <li>viii. Water sampling for hydro geochemical analysis.</li> <li>ix. Complete a Preliminary Economic Assessment (PEA).</li> <li>x. Investigation of the transport of metals from bedrock into detectable anomalies and completion of geological model.</li> <li>xi. Geological interpretation in 2D (MapInfo) and 3D (Leapfrog) software.</li> </ul>	
<ul> <li>Year 2</li> <li>Further Mineral Resource estimation and definition to expand the resource model beyond the initial resource report.</li> <li>Analyses of recently flown (2013/2014) airborne magnetic, electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>Drilling of 32 drill holes totaling 6,300 meters targeting high grade magnetite material.</li> <li>Assaying of drill core samples using at least XRF analysis.</li> <li>Geological modelling of the deposit using GOCAD.</li> <li>A NI 43-101 MRE report and resource statement.</li> <li>Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.</li> <li>Conduct diamond core drilling of priority targets.</li> <li>Conduct petrographic analyses of drill cores.</li> <li>Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ul>	Eighty Thousand Pula (BWP 80,000.00)

# ANNEXURE II



#### Year 3 Define extended resources. 1. ii. Drilling of 31 drill holes totaling 6,200 meters targeting high grade magnetite material. iii. Assaying of drill cores using XRF analysis. iv. Geological modelling of the deposit. v. A third NI 43-101 MRE report and resource statement. **Ninety Thousand** vi. Conduct detailed metallurgical test work including DTR analysis Pula and magnetic susceptibility measurements. vii. Outline diamond core drilling of targets that have been identified (BWP 90,000.00) as having the potential for an inferred resource. viii. Conduct petrographic analyses of drill cores. ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). Conduct further detailed geophysical and drilling to prepare for an Χ. NI 43-101 Mineral Resource Report. DEPT. OF MINA PROSPECTING LICENSING å 25 001 2018 A. P/BAG 0049 Controkome



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**REPUBLIC OF BOTSWANA** 

# **PROSPECTING LICENCE**

in favour of

# **GCWIHABA RESOURCES (PTY) LTD**



**PROSPECTING LICENCE NO. 025/2018** 





Form II/Amendment

Prospecting Licence No.025/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- The Licence area shall be the area shown on the map annexed hereto in extent of four hundred and fifty four point five square kilometres (454.5 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this ..... Claber. in the year 2018. REPT. OF MINERS PEOSFECTING LICENSING 2.5 OCT 2018 Minister Ministry of Mineral Resources, F/EAG 0029 Green Technology and Energy Security GABORONE COLEGISTICS



## ANNEXURE I

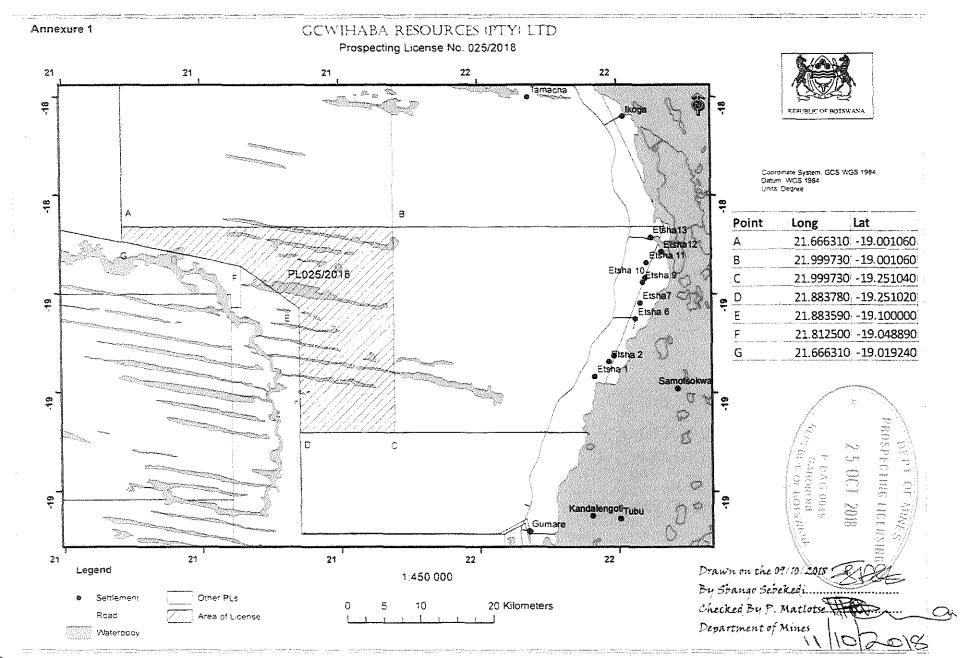
The Licence area is four hundred and fifty four point five square kilometres (454.5 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

<u>Point</u>	<u>Longitude (E)</u>	Latitude (S)
A	21.666310	-19.001060
В	21.999730	-19.001060
C	21.999730	-19.251040
D	21.883780	-19.251020
E	21.883590	-19.100000
F	21.812500	-19.048890
G	21.666310	019.019240
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Total Area = 454.5 km<sup>2</sup>

2 5 UCT 2018 P/DAG 0049 GANORONE REPUBLIC OF BOTSPILLE





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Programme of prospecting operations	Proposed minimur expenditure
<ul> <li>Year 1</li> <li>i. Conduct detailed review and analysis of geological and geophysical historical data, and continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>ii. Petrographic analyses of existing drill cores.</li> <li>iii. Further assaying of existing drill cores.</li> <li>iv. Conduct detailed ground magnetic survey.</li> <li>v. Extension and completion of the tie-lines of the airborne gravity survey and conduct drilling.</li> <li>vi. ICP multi-element geochemical analysis of 220 drill holes targeting metal anomalism.</li> <li>viii. Analysis of sulphide-rich mineral intersections from recently-drilled boreholes.</li> <li>viiii. Water sampling for hydro geochemical analysis.</li> <li>ix. Complete a Preliminary Economic Assessment (PEA).</li> <li>x. Investigation of the transport of metals from bedrock into detectable anomalies and completion of geological model.</li> <li>xi. Geological interpretation in 2D (MapInfo) and 3D (Leapfrog) software;</li> </ul>	Seventy Thousand Pula (BWP 70,000.00) OF PT. OF MINE PROSPECTING LICEN 2 5. OCT. 2009
Year 2	2 5 OC1 2018 P/CACLODIS AND STORES
<ol> <li>Further Mineral Resource estimation and definition to expand the resource model beyond the initial resource report.</li> <li>Analyses of recently flown (2013/2014) airborne magnetic, electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>Drilling of 32 drill holes totaling 6,300 meters targeting high grade magnetite material,</li> <li>Assaying of drill core samples using at least XRF analysis.</li> <li>Geological modelling of the deposit using GOCAD.</li> <li>A NI 43-101 MRE report and resource statement.</li> <li>Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.</li> <li>Conduct diamond core drilling of priority targets.</li> <li>Conduct petrographic analyses of drill cores.</li> <li>Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ol>	Eighty Thousand Pula (BWP 80,000.00)



Year 3 í. Define extended resources. ii. Drilling of 31 drill holes totaling 6,200 meters targeting high grade magnetite material. iii. Assaying of drill cores using XRF analysis. iv. Geological modelling of the deposit. Ninety Thousand v. A third NI 43-101 MRE report and resource statement. vi. Conduct detailed metallurgical test work including DTR analysis Pula and magnetic susceptibility measurements. vii. Outline diamond core drilling of targets that have been identified (BWP 90,000.00) as having the potential for an inferred resource. viii. Conduct petrographic analyses of drill cores. ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). x. Conduct further detailed geophysical and drilling to prepare for an NI 43-101 Mineral Resource Report. DEPT. OF MINES PROSPECTING LICENSING 2.5 OCT 2018 P/BAG 0049 CABORANE OBLIC OF BOTSVIEW 048008041E



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**REPUBLIC OF BOTSWANA** 

# **PROSPECTING LICENCE**

in favour of

# **GCWIHABA RESOURCES (PTY) LTD**



**PROSPECTING LICENCE NO. 026/2018** 





Form II/Amendment

Prospecting Licence No.026/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- 1. The Licence area shall be the area shown on the map annexed hereto in extent of eight hundred and twenty eight point one square kilometres (828.1 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure I hereto; and as reduced from time to time in accordance with the provisions of the Act.
- 2. In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

day of CCCDR. in the year 2018. STEPT. OF MINES PROSPECTING LICENSING 25.001.2018 / Minister Minkstry of Mineral Resources. PRACE 604% Green Technology and Energy Security SA6 NONE CULT OF BUILD

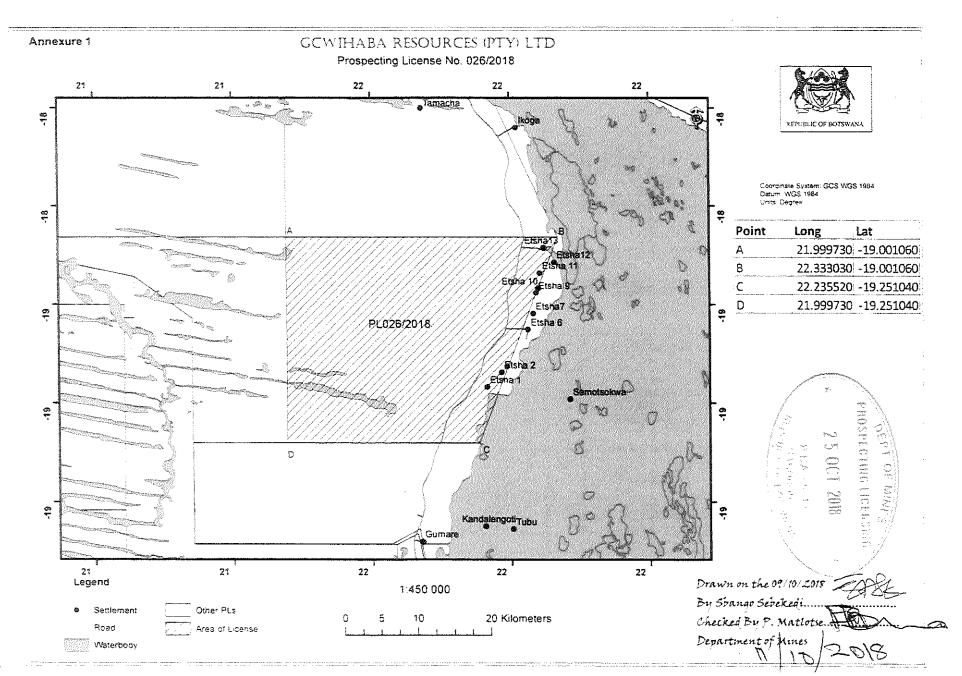


## ANNEXURE I

The Licence area is eight hundred and twenty eight point one square kilometres (828.1 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

<u>Point</u>	Longitude (E)	Latitude (S)
A	21.999730	-19.001060
В	22.333030	-19.001060
C	22.235520	-19.251040
D	21.999730	-19,251040
	PR	OSPECTING LICENSING
Total area	= 828.1 km² 🛛 🖈	2 5 OCT 2018 ×
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# ANNEXURE II

Programme of prospecting operations	Proposed minimum
	expenditure OF MINE
	PROSPECTING LICE
<u>(ear 1</u>	* 2 5 OCT 2018
<ul> <li>Conduct detailed review and analysis of geological and geophysical historical data, and continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>Petrographic analyses of existing drill cores.</li> <li>Further assaying of existing drill cores.</li> <li>Conduct detailed ground magnetic survey.</li> <li>Extension and completion of the tie-lines of the airborne gravity survey and conduct drilling.</li> <li>ICP multi-element geochemical analysis of 220 drill holes targeting metal anomalism.</li> <li>Analysis of sulphide-rich mineral intersections from recently-drilled boreholes.</li> </ul>	PHAC 0045 DAGORAR ALEMAN - CLOUNS
<ul> <li>ii. Water sampling for hydro geochemical analysis.</li> <li>Complete a Preliminary Economic Assessment (PEA).</li> <li>Investigation of the transport of metals from bedrock into detectable anomalies and completion of geological model.</li> <li>Geological interpretation in 2D (MapInfo) and 3D (Leapfrog) software.</li> </ul>	
<ul> <li>Further Mineral Resource estimation and definition to expand the resource model beyond the initial resource report.</li> <li>Analyses of recently flown (2013/2014) airborne magnetic, electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>Drilling of 32 drill holes totaling 6,300 meters targeting high grade magnetite material.</li> <li>Assaying of drill core samples using at least XRF analysis.</li> <li>Geological modelling of the deposit using GOCAD.</li> <li>A NI 43-101 MRE report and resource statement.</li> <li>Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.</li> <li>I. Carryout a Pre-feasibility studies.</li> <li>Conduct diamond core drilling of priority targets.</li> <li>Conduct petrographic analyses of drill cores.</li> <li>Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ul>	Eighty Thousand Pula (BWP 80,000.00)



Year 3 Define extended resources. i. Drilling of 31 drill holes totaling 6,200 meters targeting high grade ii. magnetite material. iii. Assaying of drill cores using XRF analysis. iv. Geological modelling of the deposit. A third NI 43-101 MRE report and resource statement. Ninety Thousand ٧. vi. Conduct detailed metallurgical test work including DTR analysis Pula and magnetic susceptibility measurements. vii. Outline diamond core drilling of targets that have been identified (BWP 90,000.00) as having the potential for an inferred resource. viil. Conduct petrographic analyses of drill cores. ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME). Conduct further detailed geophysical and drilling to prepare for an X NI 43-101 Mineral Resource Report. PROSPECTING LICENSING 2 5 OCT 2018 Pathennian SAHOROME. GAHORONE GAHORONE 4

Telephone: 3914955 Telegrams: MEWT Telex: Telefax: 3951092

REFERENCE: EWT 1/6/6 III ( )



Ministry of Environment, Wildiife and Tourism Private Bag BO 199 GABORONE

Date: 25<sup>th</sup> November 2015

**The Director** - Dr. Mechtild Rossler World Heritage Centre 7, Place de Fontenoy 7352, Paris **FRANCE** 

DIr WHC | roo d'ao/11/15 AFR N= 2015 - 1634 > AFR

Dear Dr. Rossler,

As requested by the World Heritage Committee at its 38<sup>th</sup> Session in Doha in Decision 38 COM 8B.5, the State Party of the Republic of Botswana submit the enclosed State of Conservation Report for the Okavango Delta to be examined by the World Heritage Committee during its 40<sup>th</sup> Session in 2016.

We believe that this report will give the World Heritage Committee an accurate picture of the progress made in addressing the issues and recommendations made following inscription of the site during the 38<sup>th</sup> session of the committee.

Since inscription, the State Party has made the following progress; (i) continued to implement the Okavango Delta Management Plan in order to maintain the outstanding universal value of the Delta, (ii) developed protocols for Wildlife monitoring in the Okavango Delta, (iii) relinquished all the prospecting licenses in the core area, (iv) progress made in consulting the indigenous peoples on cultural heritage related issues, (vi) progress made in expanded implementation of livelihoods programmes in the Delta, (vi) progress made in addressing the governance, stakeholder and coordination issues for the effective management of the property and (viii) the continued control and monitoring of alien invasive species within the property.

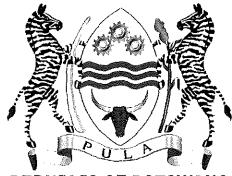
BM Mage 125 The State Party of the Republic of Botswana is committed to the effective protection and management of the Okavango Delta and is looking forward to continue working with the World Heritage Centre and World Heritage Committee in achieving this.

Yours sincerely, Horr. Tshekedi Khama

MINISTER OF ENVIRONMENT, WILDLIFE & TOURISM



# STATE OF CONSERVATION REPORT OKAVANGO DELTA NATURAL WORLD HERITAGE SITE, BOTSWANA (N1432)



**REPUBLIC OF BOTSWANA** 

# BY THE GOVERNMENT OF THE REPUBLIC OF BOTSWANA DEPARTMENT OF NATIONAL MUSEUM & MONUMENTS MINISTRY OF ENVIRONMENT, WILDLIFE & TOURISM

Report Developed by State Party of Botswana with the support of USAID, Southern African Regional Environmental Program (SAREP)

NOVEMBER 2015

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2|State of Conservation (SOC) Report Okavango Delta World Heritage Site, Botswana (N1432)

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#### **Executive Summary**

Okavango Delta, located in north-west of Botswana was inscribed on the World Heritage list in June 2014 under natural criteria; (vii), (ix) & (x). The Okavango Delta Management Plan guides the management of the site. Since 2014, a series of meetings were held with different stakeholders among them; Department of Environmental Affairs (DEA), Department of National Museum & Monuments (DNMM), Tawana Land board and Okavango Research Institute (ORI), Okavango Delta Wetlands Management Committee and Southern African Regional Environmental Programme (SAREP) to assess the progress made in implementing the ODMP as per the 2012 Implementation plan and ODRS SEA Report of 2013, as well as prepare for submitting the first report on the State of Conservation (SOC) of the property. This included assessing progress in implementing the recommendations of the World Heritage Committee at the time of inscription (*Decision WHC 38 COM 8B.5*).

Since inscription, the State Party has made the following progress:

- 1. Continued to implement the Okavango Delta Management Plan in order to maintain the Outstanding Universal Value of the property.
- 2. Developed protocols for wildlife monitoring in the Okavango Delta through the support of SAREP, including a web-based portal for analyzing the data.
- 3. Relinquished all the prospecting licenses in the core area and has not renewed most licenses in the buffer zone except 9, of which 2 of these are folios (at application stage).
- 4. Continued and expanded implementation of livelihoods programmes in the Delta.
- 5. Progress has been made in consulting the indigenous peoples on cultural heritage related issues.
- 6. Addressing the governance, stakeholder and coordination issues for the effective management of the property.
- 7. Continued with control and monitoring of alien invasive species within the property.

Challenges include:

- 1. Little progress has been made in establishing population baseline for key species and this is now earmarked for 2016/17.
- 2. Limited resources (financial and human resources) for implementing conservation programmes as outlined in the ODMP.
- 3. Challenge of dealing with outstanding prospecting licenses in buffer zone, which can be renewed up to 7 years, in terms of the existing laws.
- 4. New developments in the implementation of CBNRM, which take away the privileges local communities used to have under the old arrangement.
- 5. Coordination for the implementation of the management plan is still a challenge due to lack of capacity and resources.

The State Party would like to thank USAID, Southern African Regional Environmental Programme (SAREP) for supporting preparation of this State of Conservation (SOC) report, of which without their support it would have been difficult to have stakeholders meetings.

	1.0	IDENTIFICATION OF THE PROPERTY	
1.	NAM	E OF PROPERTY:	Okavango Delta N1432
2.	YEAI	R OF INSCRIPTION:	June 2014
3.	INSC	RIPTION CRITERIA:	(vii), (ix) and (x)
	2.0	PREVIOUS COMMITTEE DECISIONS	Decision WHC 38 COM 8B.5
	3.0	INTERNATIONAL ASSISTANCE	N/A
	4.0	UNESCO EXTRA BUDGET	N/A
	5.0	PREVIOUS MONITORING MECHANISM	N/A

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4|State of Conservation (SOC) Report Okavango Delta World Heritage Site, Botswana (N1432) BM MA Page 130

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# 7.0 FACTORS AFFECTING PROPERTY IDENTIFIED IN PREVIOUS REPORTS

### (WHC 38 COM 8B.5)

- 1. Need to establish population baselines for key species and to track long term trends;
- 2. Need to rationalize veterinary cordon fencing,
- 3. Existence of extractive industry activity in the property and the need to permanently extinguish all the few remaining mineral prospecting concessions, as well as not issue any new concessions within the property,
- 4. Monitoring and managing mining in areas outside of the property so as to avoid any adverse impacts to the property,
- 5. Traditional resource use for livelihoods, user access rights, cultural rights and access to opportunities for local communities in keeping with the property's Outstanding Universal Value,
- 6. Address a range of other protection and management issues including
  - a. Governance and coordination framework for the site
  - b. Stakeholder empowerment
  - c. Management planning
  - d. Management capacity
  - e. Control of alien invasive species.

# 8.0 CURRENT CONSERVATION ISSUES

## 7.1 Coordinated and systematic wildlife monitoring programme

Continue efforts to develop, in partnership with Universities, NGOs and wildlife experts, a coordinated and systematic wildlife monitoring programme to establish population baselines for key species and to track long term trends.

The State Party, through the Department of Wildlife & National Parks (DWNP) continues to work with researchers from the Okavango Research Institute (ORI), independent researchers and University of Botswana to conduct research on wildlife in the Okavango Delta. In March 2015, DWNP in partnership with ORI, held a symposium on Wetlands and Wildlife in Botswana which was attended by researchers, scientists, independent research organizations, NGOs, Community Based Organizations and government departments to share their research findings. The research results will contribute to the effective protection and management of

the property. DWNP is also in the process of finalizing the research strategy to guide conduct of research on wildlife in Botswana including the Okavango Delta.

Despite maintaining these partnerships, the State Party has not yet managed to establish the population baselines for key species and tracking long term trends. Current monitoring is therefore informed by the population census conducted in 2012. Towards addressing this issue, the State Party is in the process of signing a Memorandum of Understanding with Okavango Research Institute that will ensure collaboration in the research in the Okavango Delta which will help establishment of a population baseline for key species and establishing long term trends and a wildlife monitoring programme. The signing of the MoU will inform the year in which the databases will be integrated.

Also, and in partnership with the Southern African Regional Environmental Programme (SAREP), DWNP has managed to establish a wildlife monitoring programme. The monitoring programme is aimed at collecting data to address the issue of the decline of wildlife populations in Northern Botswana as shown by the population census conducted in 2011 and 2012 by DWNP and Dr Mike Chase respectively. The programme has established Standardized Monitoring Protocols for the basic monitoring of flora and fauna within the Ngamiland concessions. The monitoring data is collected by guides under the responsibility of concessionaires, for the long term trend assessment of flora and fauna and observation of wildlife population demographics in Ngamiland. These guidelines have been designed to merge seamlessly with the existing and operational Management Oriented System (MOMS) which is implemented by DWNP and is used by communities in their concessions and protected areas in Botswana. The Monitoring Tool provides sufficient data to guide management decisions, build capacity of field staff, stimulate discussion amongst local resource users and encourages local participation. In addition to the standardized protocol and MOMS, a more scientifically rigid approach to the monitoring of flora and fauna in the concessions in the form of a bi-annual series of transects in March and October, is specifically undertaken in each concession and aimed at observing population demographic patterns of both herbivores and carnivores.

As part of this monitoring tool, SAREP has also designed an Interactive Web-based Database and Basic Analyzing tool for Concessions. The web-based tool allows concessionaires to upload the data they collect in a standardized manner, which is then generated into graphic visuals such maps and graphs. The objective for the website is to provide on-going feedback, that captures the data, visualizes it and collates the data from all the concessions to give a picture, or status report on the state of flora and fauna within the WMAs of northern Botswana as an on-going process. In the past, data was collected by different concessionaires, but was never analyzed and used as a decision making platform on the monitoring process.

As part of implementing this tool, SAREP will conduct 17 field based training activities, one in each concession in the delta, plus 2 in Maun for Safari companies staff and 1 for DWNP staff. A total of about 200 guides will be trained, plus 10 office staff from Safari Companies and 10 staff members from DWNP. During the final year of SAREP activities, they will train DWNP staff to become website administrators while working with all stakeholders to ensure that the website for data collection is running smoothly and effectively. In each company there is a focal person who is responsible for ensuring that the monitoring data is collected and entered. DWNP will liaise with that person to ensure that this occurs. It is expected that DWNP will include in their annual budget the maintenance of the website. However, DWNP has funding and skilled staff challenges. This is critical to the seamless transfer of the programme from SAREP to DWNP.

### 7.2 Rationalize veterinary cordon fencing

Continue efforts to rationalize veterinary cordon fencing, removing it when its effectiveness for disease control has become questionable or where more holistic approaches to animal sanitation and disease control are possible,

The Ngamiland area, where the Okavango Delta is located, has for a long time been affected by livestock diseases some of which are spread by wildlife such as Buffaloes. In addressing the problem, government erected veterinary cordon fences to control diseases. However, conservationists and researchers have argued that the cordon fences affect wildlife movements and have also questioned the effectiveness of the fences in disease control. However, through a National Policy, Government has, through the Department of Veterinary Services continued to monitor the effectiveness of the fences. DWNP continues to provide advice on this matter.

The Botswana Government Policy on Veterinary fences is that a periodic Environmental Impact Assessment (EIA) should be conducted every five years on all the fences and where possible, some of the fences should be removed if their usefulness has been outlived. For example, an Environmental Impact Assessment (EIA) study by Scott Wilson (2000) on CBPP Fences recommended the removal of the Setata and Nxai Pan Buffalo Fences. The removal of the Setata Fence was done and completed in 2003, and the Nxai Pan Buffalo Fence was removed in 2004. The removal of these fences was of significant to wildlife conservation. The Kalahari Conservation Society (2005) Report indicated that "the removal of the 210 kilometer Setata Fence and the 66 kilometer portion of the Nxai Pan Buffalo Fence resulted in an immediate end to negative impacts on wildlife populations in the affected areas". Though veterinary fences block wildlife migratory routes and kill wildlife in some instances, some of the veterinary fences such as the Southern Buffalo Fence and indeed the Northern Buffalo fence have played a significant role in protecting the core parts of the delta from encroachment of the livestock industry.

The State Party will commission an EIA that will assess the effectiveness of the fences and its impacts on wildlife species in the Okavango delta for the financial year 2016/2017. Currently, DVS is experiencing challenges in terms of lack of funding to maintain the fences, deal with vandalism of the fences by some local communities and Elephants. The State Party is committed to sourcing funding for maintenance of the fences and educating the public on the importance of the fences in disease control.

## 7.3 Extractive industry activity

Ensure no extractive industry activity is permitted in the property, and permanently extinguish all the few remaining mineral prospecting concessions, which are scheduled to expire in 2014, without awarding any timeframe extensions and not issue any new concessions within the property.

At the time of inscription, it was realized that there were prospecting licenses issued in both the core area and the buffer zone. The State Party, in its submission of supplementary information committed that it will not allow mining in the core area and that it will expunge all prospecting licenses in the core and buffer once they expire and will not issue any new licenses in the core and buffer zone.

Since 2014, the State Party has not issued any new licenses and neither is there any mining in the core area. The State Party will continue to monitor any illegal prospecting that might take place in the core area. The State Party has made considerable progress in relinquishing and not renewing the licenses in the buffer zone once they expire. Out of 41 prospecting licenses, only 9 licenses are remaining. DOM is in the process of resolving the 9 outstanding prospecting licenses in the buffer zone. It is important to note that there are challenges in this process given that the duration of the prospecting licenses is 7 years and negotiable with the respective companies who may have invested heavily in the process over the years. However, the State Party has not been issuing new licenses in the buffer zone at all. Below is a table that summarizes this progress;

#### Status of Prospecting licenses at the time of inscription

NO	PROSPECTING LICENSES	EXPIRY DATE	STATUS A TIME O INSCRIPTIO	F	LOCATION	COMPANY	CURRENT STATUS
1.	PL/703/2009	30 <sup>th</sup> Sept 2012	Expired	Coal& CBM	Buffer	Greatways	Expired
2.	PL154/2012	30 <sup>th</sup> Sept 2016	Active	Petroleum	Buffer	Baobab Resources	Active
3.	PL 641/2009	30 <sup>th</sup> Sept	Expired	Precious	Buffer	Gcwihaba	Expired, Not

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		2012		Stones		Resources	renewed
4.	PL 642/2009	30 <sup>th</sup> Sept	Expired	Precious	Buffer	Gcwihaba	Expired, Not
		2012		Stones		Resources	renewed
5.	PL046/2011	31 <sup>st</sup> Dec	Expired	Radioactive	Buffer	Gcwihaba	Expired, Not
		2013				Resources	renewed
6.	PL 047/2011	31 <sup>st</sup> Dec	Expired	Radioactive	Buffer	Gcwihaba	Expired, Not
	<u> </u>	2013	·			Resources	renewed
7.	PL 050/2010	30 <sup>th</sup> June	Expired	Radioactive	Buffer	Gcwihaba	Expired, Not
		2013	]		,	Resources	renewed
8.	PL 046/2009	31 <sup>st</sup> Dec	Expired	Radioactive	Buffer	Namenco	Expired, Not
		2011				Energy	renewed
9.	PL 047/2009	31 <sup>st</sup> Dec	Expired	Radioactive	Buffer	Namenco	Expired, Not
	·	2011				Energy	renewed
10.	PL 048/2009	31 <sup>st</sup> Dec	Expired	Radioactive	Buffer	Namenco	Expired, Not
		2011	 			Energy	renewed
11.	PL 100/2012	31 <sup>st</sup>	Active	Metals	Buffer	Zhing gan	Expired, Not
	}	March					renewed
		2015					<u></u>
12.	PL 099/2012	31 <sup>st</sup>	Active	Metals	Buffer	Zhing gan	Expired, Not
	ĺ	March	i l	1			renewed
		2015					
13.	PL 109/2012	31 <sup>st</sup>	Active	Metals	Buffer	Midgel	Expired, Not
		March	3		1		renewed
	ļ	2015					
14.	PL 571/2009	30 <sup>th</sup> Sept	Active	Base &	Buffer	New Hana	Expired, Not
	ł	2014		Precious	l	ł	renewed
				Metals			
15.	PL 570/2009	30 <sup>th</sup> Sept	Active	Base &	Buffer &	New Hana	Expired, Not
		2014		Precious	Core		renewed
				Metals			
16.	PL 569/2009	30 <sup>th</sup> Sept	Active	Base &	Buffer &	New Hana	Expired, Not
		2014		Precious	Core	ĺ	renewed
				Metals			
17.	PL 568/2009	30 <sup>th</sup> Sept	Active	Base &	Buffer &	New Hana	Expired, Not
		2014		Precious	Core		renewed
		- ath -		Metals			
18.	PL567/2009	30 <sup>th</sup> Sept	Active	Base &	Buffer	New Hana	Expired, Not
		2014		Precious			renewed
4.0				Metals			<u> </u>
19.	PL 566/2009	30 <sup>th</sup> Sept	Active	Base &	Buffer	New Hana	Expired, Not
		2014		Precious		ĺ	renewed
	DT 105/0010	- adl a		Metals	D. (2		<u> </u>
20.	PL185/2013	30 <sup>th</sup> Sept	Active	Base &	Buffer	Hana	Active
l		2016		Precious		Ghanzi	
~	Dr. 000/0010	11 <sup>th</sup>	A	Metals	0	71	
21.	PL 098/2012	1	Active	Base &	Core	Zhong Gan	Expired, Not
		March		Precious		<u> </u>	renewed

		2015	1	Metals		Ţ			
22.	PL 264/2012	30 <sup>th</sup> Sept 2015	Active	Base Precious Materials	&	Buffer		Zhong Gan	Expired, Not renewed
23.	PL040/2012	31 <sup>st</sup> Dec 2014	Active	Base Precious Metals	&	Buffer		Тгіргор	Expired, Not renewed
24.	PL059/2010	31 <sup>st</sup> March 2013	Expired	Base Precious Metals	&	Buffer		Manica	Expired, Not renewed
25.	PL 062/2011	31 <sup>st</sup> Dec 2013	Expired	Base Precious Metals	&	Buffer		Pinette	Expired, Not renewed
26.	PL 392/2008	31 <sup>st</sup> Dec 2013	Expired	Base Precious Metals	&	Buffer		Pinette	Expired, Not renewed
27.	PL 392/2008	31 <sup>st</sup> Dec 2013	Expired	Base d Precious Metals	&	Buffer		Gcwihaba Resources	Expired, Not renewed
28	PL 390/2008	31 <sup>st</sup> Dec 2013	Expired	Base A Precious Metals	&	Core Buffer	&	Gcwihaba Resources	Expired, Not renewed
29.	PL 388/2008	31 <sup>st</sup> Dec 2013	Expired	Base & Precious Metals	&	Core Buffer	&	Gcwihaba Resources	Expired, Not renewed
30	PL 387/2008	31 <sup>st</sup> Dec 2013	Expired	Base & Precious Metals	&	Buffer	i	Gcwihaba Resources	Expired, Not renewed
31	PL 386/2008	31 <sup>st</sup> Dec 2013	Expired	Base & Precious Metals	&	Core Buffer	&	Gcwihaba Resources	Expired, Not renewed
32	PL 393/2008	31 <sup>st</sup> Dec 2013	Expired		£	Core Buffer	&	Gcwihaba Resources	Expired, Under negotiations
33	PL 394/2008	31 <sup>st</sup> Dec 2013	Expired		&	Buffer		Gcwihaba Resources	Expired, Not renewed
34	PL 395/2008	31 <sup>st</sup> Dec 2013	Expired	Base & Precious Metals	&	Buffer		Gcwihaba Resources	Expired, Under negotiations
35	PL 095/2012	30 <sup>th</sup> June 2012	Expired		ž	Buffer		Gcwihaba Resources	Expired, Under negotiations
36	PL 097/2012	31 <sup>st</sup> March 2015	Active	Base & Precious Metals	è	Buffer		Gcwihaba Resources	Expired, Under negotiations
37	PL 096/2012	31 <sup>st</sup> March	Active	Base & Precious	2	Buffer		Gcwihaba Resources	Expired, Under

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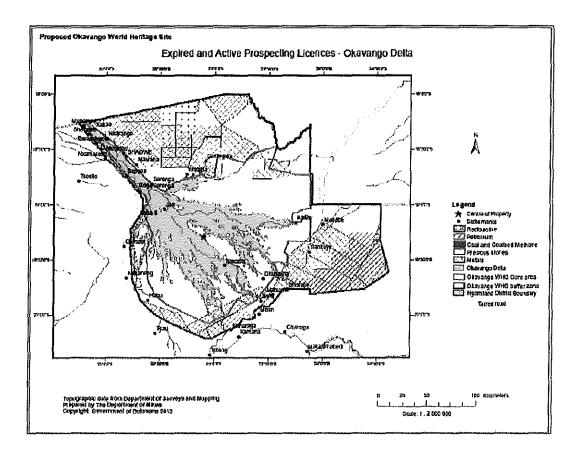
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	Ţ <u></u>	2015		Metals		[			negotiations
38	PL 115/2010	31 <sup>st</sup> March 2013	Expired	Base Precious Metals	&	Core Buffer	&	Gcwihaba Resources	Expired, Not renewed
39	PL 590/2009	30 <sup>th</sup> June 2012	Expired	Base Precious Metals	&	Core Buffer	&	Gcwihaba Resources	Expired, Not renewed
40	PL 592/2009	30 <sup>th</sup> June 2012	Expired	Base Precious Metals	&	Core Buffer	&	Gcwihaba Resources	Expired, Not renewed
41	PL 588/2009	31 <sup>st</sup> Dec 2012	Expired	Base Precious Metals	&	Buffer		Gcwihaba Resources	Expired Under negotiations

Table1: Status of Prospecting Licenses in the buffer zone as of November 2015;
 Source; Department of Mines



Map1: Status of Prospecting Licenses as of November 2015; Source; Department of Mines

#### Current status of prospecting licenses; outstanding 9 Prospecting Licenses

The table below shows the current prospecting licenses in the buffer zone of the property. Six of the licenses have expired and are from one company, Gcwihaba resources. One of the prospecting licenses is expiring in September 2016, while Folio 16c and 16d are applications which the department will make a decision not to approve. As indicated earlier, prospecting licenses can be extended up to 7 years. Therefore their review is a complex task that has to consider companies who have heavily invested in the prospecting process. As such, the State Party is still engaging the companies with a view of not renewing these licenses.

Progress in this regard will be submitted as supplementary evidence either before or as part of SOC.

NO	PROSPECTIN G LICENSES	EXPIRY DATE	MINERAL	LOCATIO N	COMPANY
2.	PL 097/2012	31 <sup>st</sup> December 2013	Base & Precious Metals	Buffer	Gcwihaba Resources
3.	PL 586/2008	31 <sup>st</sup> December 2012	Base & Precious Metals	Buffer	Gcwihaba Resources
4.	PL 096/2012	31 <sup>st</sup> March 2015	Base & Precious Metals	Buffer	Gewihaba Resources
5.	PL 095/2012	30 <sup>th</sup> June 2012	Base & Precious Metals	Buffer	Gcwihaba Resources
6.	PL 393/2008	31 <sup>st</sup> December 2013	Base & Precious Metals	Buffer	Gcwihaba Resources
7.	PL 395/2008	31 <sup>st</sup> December 2013	Base & Precious Metals	Buffer	Gcwihaba Resources
8,	Folio 16c			}	
9.	Folio 16d				

 Table2: Status of outstanding Prospecting Licenses in the buffer zone as of November 2015;
 Source; Department of Mines

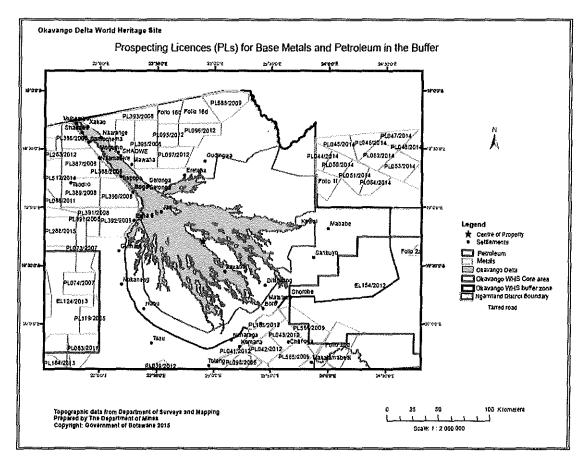
### 7.4 Monitor and manage mining in areas outside of the property

Carefully monitor and manage mining in areas outside of the property so as to avoid any adverse impacts to the property,

At the time of inscription it was noted that there were prospecting licenses in areas outside the property and that these may develop into mines in the near future. The State Party committed that it will continue monitoring mining outside the property through development of EIAs and monitoring by the relevant departments, Department of Environmental Affairs (DEA) and Department of Mines (DOM) and Department of Waste Management & Pollution Control (DWMPC).

The current status of extractive industries in the Delta shows that there are prospecting licenses and mining operations outside the buffer zone for metals and petroleum, including the 9 remaining licenses in the buffer zone which the department is still engaging with the companies with a view not to renew. It is also important to note the prospecting licenses for metal in the buffer zone, (the Panhandle area in the east) are too close to the core area, while those in the west of the Panhandle (outside the buffer zone) are also considered very close to the buffer zone and the core area which is only 2 kilometers from the buffer. The State Party notes the threat this might have on the integrity of the site in the long term. As part of mitigation, the State Party, through the Department of Mines, and in consultation with the Ministry of Energy & Water Resources are currently discussing this issue. The basis of this discussion is the recommendations of the SEA Report of the Okavango Delta Ramsar site (ODRS) which recommended "a 15km no mining buffer zone from the core area". It is important to note that at the time of inscription, the prospecting licenses outside the buffer zone were not included in the submission but the State Party is trying to be proactive in managing mining areas outside the property to avoid adverse impacts to the property.

Progress in this regard will be submitted as supplementary evidence either before or as part of next SOC report in order to give all the involved parties, including the extractive industry itself an opportunity to agree on a reasonable distance from both the core area and buffer zone.



Map 2: Status of Prospecting Licenses for metals outside the core area and buffer zone as of November 2015; Source; Department of Mines



## 7.5 Traditional resource use for livelihoods, user access and cultural rights

Expand and strengthen programmes which accommodate traditional resource use for livelihoods, user access rights, cultural rights and access to opportunities to participate in the tourism sector, in keeping with the property's Outstanding Universal Value, and

### 7.5.1 Traditional resource use for livelihoods and user access rights

The State Party remains committed to improving livelihoods of local communities in the Delta and ensuring that they have access to the use of their natural resources given their long connection with the Delta. At the time of inscription, a number of programmes already existed and these continue to be implemented by different stakeholders to ensure that local communities benefit from the Okavango delta. The State Party, through various Government Departments and Non-Governmental Organizations (NGO) have come up with diverse programmes that will ensure that local communities have access to livelihoods opportunities but in tandem with maintaining the outstanding universal value (OUV) of the property. These include the Community Based Natural Resources Programme (CBNRM), Poverty Eradication Programme, Youth Empowerment Schemes & Youth Development Fund, Funding programmes such as Citizen Entrepreneurship Development Agency (CEDA), Technical Capacity Building programmes for small enterprises through Local Enterprise Authority (LEA) and the revision of the Tourism Policy of 1992 to provide opportunities for citizens to participate in the tourism sector. It is important to note that the Poverty Eradication Programme supports small enterprises in different sectors such as agriculture, tourism, catering, ICT to name a few.

Funding and technical expertise for these programmes is provided through government departments and, parastatals and Non-governmental organizations. It is also important to note that these are ongoing initiatives and the State Party is committed to reviewing them and expanding and strengthening them to ensure that they are sustainable and continue to benefit local communities but at the same time they do not adversely affect the OUV. Attached is a table which details nature and impact of on-going livelihood projects local communities and citizens in the Okavango Delta.

Implementing livelihoods programmes faces multiple challenges such as lack of resources, transport and human resources, and lack of commitment by local communities and citizens in sustaining the projects. These also include misuse of funds by those funded especially the youth and the collapse of Community Based Organizations (CBOs). Also one major concern raised by local communities is the new developments in the implementation of the CBNRM programme.



At the time of inscription, local communities were directly managing and using natural resources through their CBOs through Head Leases for Controlled Hunting Areas (CHAs) or concessions granted to them in the Okavango Delta, which would empower them to utilize and manage natural resources. As such, they were engaged in non-consumptive tourism and some of them had entered into partnership with Private Tourism Operators or have been running the business venture themselves. The new development of 2014, in which local communities will no longer sign Head leases with the Land Authority, Tawana Land Board, has changed this arrangement. As of now, the Department of Lands, representing Government will sign such concessions directly with the Tour Operators. This, according to local communities, has resulted in them being disempowered as they no longer have direct control and management of the natural resources. The process of introducing new leases has delayed and has led to most CBOs not operating for almost a year while local communities believe that they have lost a lot of benefits they used to get through CBNRM.

The new development of 2014, in which local communities will no longer sign Head leases with the Land Authority, Tawana Land Board, has changed this arrangement. As of now, the Department of Lands, representing Government will sign such concessions directly with the Tour Operators in consultation with the MEWT. A leading motivation behind the change in structure of the leases was that some fortunate CBOs operated in areas of rich natural resource whilst other CBOs in the country do not have the same asset.

Accordingly the change in lease structure facilitates the Tourism Development Fund which supports a fairer distribution of wealth amongst a greater number of CBOs. This can be evidenced through the work done by the Botswana Tourism Organisation (BTO) in assisting CBOs to establish non-consumptive tourism related businesses in areas where previously the CBOs had very little opportunity. This process is on-going and will continue to be supported by the Tourism Development Fund and wealthier CBOs. The State Party, through the Ministry of Environment, Wildlife & Tourism continues to engage with local communities and the traditional leaders to create awareness on non-consumptive tourism which is particularly starting to show results through the seven pilots projects facilitated by the BTO across the country. BTO also negotiates better royalties and management fees on behalf of the communities to ensure better benefits and above all more employment opportunities.

### 7.5.2 Cultural heritage in the Okavango Delta

While the Okavango Delta was inscribed on the World Heritage list as a natural site, and had the support of all the stakeholders, including indigenous and local communities, the State Party acknowledges the request from indigenous people and local communities to consider cultural heritage aspects of the property. Also, during the evaluation mission by IUCN, indigenous and local communities raised this issue. The indigenous people further submitted a request to the



State Party through the World Heritage Centre, requesting that the State Party addresses this issue by either nominating the site as a mixed site (including cultural components) or incorporating the cultural heritage in the management plan of the property. At this stage, the State Party was requested to respond to the issue and supplementary information was lodged with the World Heritage Committee. The State Party continues to have discussions with indigenous peoples on how to address the issue. Indigenous peoples also had a workshop in Maun in March 2015 to discuss the implications of the World Heritage status on their cultural heritage, traditional and access user rights to their traditional landscapes.

In mitigation, the State Party continues to engage indigenous peoples and local communities, their traditional leaders and other stakeholders such as the University of Botswana (ORI), government departments, and non-governmental organizations to implement a holistic research programme that can inform the mutual decision that can inform whether the cultural components would meet the requirements of World Heritage, and more importantly generating information for assisting in the management of the property. The State Party, in agreement with all stakeholders resolved that a holistic research in the diversity of the cultural heritage of the indigenous peoples and local communities of the Okavango delta should be conducted to inform the way forward in 2016/17. Preliminary or desktop processes will be conducted in collaboration with local communities. It is important to note that the indigenous peoples are already prepared to engage in the project. The research output will inform as to what heritage needs protection, what access rights should be respected, and how its promotion can benefit the indigenous people and local communities. The State Party will further engage indigenous communities to ensure that there is common ground and ownership of the project by all stakeholders. The main challenge is that this is a new project that will require a lot of resources such as funding and human resources. The State Party is committed to sourcing funding together with stakeholders and is also committing its existing resources to make the project a reality in a phased approach.

Attached is a detailed action plan for implementing this research project.

### 7.6 Address a range of other protection and management issues

Continue efforts to address a range of other protection and management issues including governance, stakeholder empowerment, management planning, management capacity and control of alien invasive species;

### 7.6.1 Governance and Coordination

While progress has been made in maintaining the state of conservation of the property, the State Party acknowledges that the governance and coordination framework of the site is an area

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requiring urgent attention in implementing the ODMP, and any subsequent conservation plans. As part of this process, the State Party, through the support of SAREP undertook a study tour to Namibia to learn about their governance structure with the aim of improving the effectiveness of the Okavango Delta Wetlands Management Committee (OWMC).

In order to take this issue to a point of resolution by the relevant stakeholders, the OWMC Secretariat is working with the Kalahari Conservation Society (KCS) to review the governance and coordination framework of the site including considering the recommendations of the study tour to Namibia. Thereafter, a recommendation will be made on the most effective and sustainable governance and coordination framework for approval by all concerned parties. A record of this meeting of the 3<sup>rd</sup> December 2015 including the decision thereof, subject to approval by relevant stakeholders will be submitted as supplementary evidence before the 1<sup>st</sup> of February 2016) or as part of the next SOC report.

Attached is an action plan by KCS and MEWT on addressing this issue.

#### 7.6.2 Stakeholder Empowerment

The State Party continues to empower the different stakeholders in the conservation of the site, but coordination remains a challenge but will be addressed through the governance and coordination process outlined above.

#### 7.6.3 Management Planning

At the time of inscription, the State Party submitted the Okavango Delta Management Plan (ODMP) of 2008. The ODMP was developed as part of the Ramsar requirements following inscription of the Okavango Delta as a Ramsar site in1997. It is a framework management plan that guides the use and management of the Okavango delta and as such specific plans for different sectors have been developed. The implementation of the plan is coordinated by the Department of Environmental Affairs (DEA) through the Okavango Wetlands Management Committee (OWMC). The ODMP was reviewed in 2011 and a report produced in 2012 to evaluate its effectiveness in terms of implementation and what has been achieved which now forms the basis of the implementation of conservation plans at the site. The evaluation of the ODMP revealed that a lot has not been done in terms of implementation and that the institutional structures are not effective in monitoring implementation of the plan, a matter to be resolved through the Governance and Coordination framework.

The State Party remains committed to implementing the ODMP developed in 2008 and reviewed in 2012 but also recognizes the existence of other action plans being implemented by other



stakeholders in a concerted effort to improve the conservation of the site. Given that the ODMP will expire in 2017, stakeholders have agreed that the review of the ODMP, including the integration of the parallel action plans by other stakeholders will start in 2017 to produce an integrated ODMP for the property. The Integrated plan will also include the management of the cultural heritage components as requested by the indigenous people and local communities.

#### 7.6.4 Control of Invasive Species

At the time of inscription, alien invasive species were identified as one of the threats to the property especially *salvinia molesta*. The State Party indicated preventive and biological measures put in place to control alien invasive species in the Okavango delta. The State Party remains committed to addressing the issue as an on-going process. The Aquatic Vegetation Control Unit (AVCU) is specifically mandated to deal with the issue in the Department of Water Affairs in Maun. The Department of Water Affairs have increased staff capacity with an additional four new members for the Hydrology and Aquatic sections in an effort to improve implementation of the measures and to do monitoring.

Attached is the report from the Department of Water Affairs (DWA) showing the biological controls and monitoring being implemented, and their impact in controlling alien and invasive species. The report does not only cover control of Alien invasive species, but also hydrological monitoring, waste water management and pollution control, water quality monitoring and water levels monitoring in the World Heritage property. It also covers emerging threats such as hydrocarbons and waste water contamination which were not observed at the time of inscription and the interventions being put in place by the State Party.

### 7.6.4 Staffing and Resources

The State Party is committed to committing resources for the protection and management of the Okavango Delta as its obligation to the World Heritage Convention. Since April 2014, the Ministry of Environment, Wildlife & Tourism has purchased a fleet of vehicles for all its departments in the Ngamiland area so as to strengthen management and monitoring of the site. The State Party will further rationalize its staff to ensure some of them are deployed into the district, especially those in the DWNP at Moremi Game Reserve and regional office, DEA, DNMM & DWMPC, DOT and BTO which are key to the management of the site. The Ministry will further engage other departments which are crucial such as DOM to avail more resources for monitoring of mining and prospecting outside the property under the new governance and coordination framework being developed in consultation with all stakeholders.

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### 7.6.5 Funding for the Conservation Plans

While funding remains constrained for most Departments of Government involved in the management of the property, the State Party remains committed to securing funding for the implementation of the ODMP and issues raised by the World Heritage Committee. The Ministry of Environment, Wildlife & Tourism (MEWT), through its National Environmental Fund (NEF) will support implementation of some of the activities. It will also seek funding through other available government funding programmes such as those from Ministry of Youth, Sports & Culture, Ministry of Local Government, Poverty Eradication Programme and the Ministry of Agriculture. The State Party will also seek assistance from its partners locally and internationally. Finally, government departments will continue to implement other activities through their normal budgets as part of their annual plans and these will be prioritized starting 2016/2017 financial year.

### 8.0 ILLUSTRATIVE MATERIALS

Below is the list of attachments accompanying this SOC report;

- 1. SAREP Concession Monitoring Protocol 2014
- 2. Guides Event Book
- 3. Office Register
- 4. SAREP Invasive & Alien Invasive species report
- 5. Table showing programs and projects on citizen empowerment
- 6. Revised Tourism Policy 2013
- 7. Department of Water Affairs report
- 8. Kalahari Conservation Society (KCS) An trans-disciplinary Action Plan to secure the Okavango Delta
- 9. Action Plan for implementing Research on the Cultural components of the property

### 9.0 CURRENT CONSERVATION ISSUES

This SOC report notes the following emerging and potential threats to the OUV of the site;

### 9.1 Feasibility study for water augmentation by Namibia

Namibia has informed other Member States involved in the management of the Delta, as a shared resource, about the ongoing feasibility study for water augmentation to the central Namibia.

20|State of Conservation (SOC) Report Okavango Delta World Heritage Site, Botswana (N1432) Central Namibia is experiencing one of the worst period of water shortage. This feasibility study is examining options for water augmentation either through inter-basin transfer from the Okavango, or via ground water exploration (Namibia has recently discoverd a huge ground water aquifer in the northern part of country/Cuvelai basin) or through desalination of sea water. Sea water desalination in Namibia is already taking place but, mostly to supply water to the uranium mining processes. The option of inter-basin transfer also indicates that, if done, it needs only 1 to 2% of the annual flow from the Okavango that would be pumped only during the peak flows. The pumped water would subsequently be stored on the ground by ground water recharge mechanisms. The feasibility study is still underway and once concluded, proper notification processes, will be done depending on the option selected to all Member States.

The State Party will inform and update World Heritage Committee, on the results of the feasibility study and implications on the Okavango Delta as a shared resource for Angola, Botswana and Namibia.

### 9.2 Irrigation project in Angola

There is viral information circulating around the media on the so called "CHINA 500,000ha for irrigation land", supposedly being implemented by Angola. This has neither been confirmed by Angola nor brought to the attention of Member States concerned. The only concept document in the possession of OKACOM, is the recently approved "*Plano de Gestão Integrada dos Recursos Hidricos da bacia do Cubango*". This is the only official document that has been formally communicated to all parties. Records of the meeting and the digital version of concept document are available at OKACOM.

Once the information on the alleged Irrigation project is verified or confirmed by the State Party concerned as part of managing the shared resource, this will be shared with the World Heritage Committee.

### 9.3 Tourism Development Node

Angola has informed other Member States about the proposed development node, "Polo do Desenvolvimento Turistico do Cuando-Cubango" (Tourism Development Node). It is being implemented along the Cuito River all the way up to its confluence with the Kavango in Dirico. The ambition of this initiative is to take advantage of the intensive international tourism influx from Etosha to Victoria Falls up to the Okavango Delta. Through this project, Angola intends to build an upper class tourism facility in the section of Cuito to capture international visitors as part of a national strategy for tourism. This tourism node initiative is being directly driven by the Presidency of Angola. This initiative fulfills the OKACOM desire to promote some sort of a

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trans boundary tourism venture from the source of the delta all the way to Botswana. This plan is at an advanced stage and an EIA will be conducted to identify and mitigate potential threats as would be informed by the completed architectural design of the tourism facilities. Angola has shared these designs, including the master planning document, with all concerned Member States; Botswana and Namibia.

Once the EIA is completed by the State Party concerned as part of managing the shared resource, this will be shared with the World Heritage Committee.

### **10. CONCLUSION**

The State Party would like the World Heritage Committee and Advisory Bodies to note the progress made in the implementation of the Decision WHC 38 COM 8B.5 and the ODMP in the overall. Since inscription, the State Party has made the following progress; (i) continued to implement the Okavango Delta Management Plan in order to maintain the Outstanding Universal Value of the property, (ii) developed protocols for wildlife monitoring in the Okavango Delta through the support of SAREP, including a web-based portal for analyzing the data, (iii) relinquished all the prospecting licenses in the core area and has not renewed most licenses in the buffer zone except 9, of which 2 of these are folios (at application stage), (iv) continued and expanded implementation of livelihoods programmes in the Delta, (v) progress made in addressing the governance, stakeholder and coordination issues for the effective management of the property, and (vii) the continued control and monitoring of alien invasive species within the property.

The State Party would also like the World Heritage Committee and Advisory Bodies to note the following challenges; (i) little progress made in establishing population baseline for key species due to lack of resources but this is now earmarked for 2016/17, (ii) limited resources (financial and human resources) for implementing conservation programmes as outlined in the ODMP, (iii) challenge of dealing with outstanding prospecting licenses in buffer zone, which can be renewed up to 7 years, in terms of the existing laws, (iv) new developments in the implementation of CBNRM, which seems to takes away the privileges local communities used to have under the old arrangement, and (v), the ineffective coordination for the implementation of the management plan which is still a challenge due to lack of capacity and resources.

The State Party looks forward to continue working with all national and international partners in maintaining the outstanding universal value of ODWHS.

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### STATE OF CONSERVATION REPORT OKAVANGO DELTA NATURAL WORLD HERITAGE SITE, BOTSWANA (N1462)



### BY THE GOVERNMENT OF THE REPUBLIC OF BOTSWANA DEPARTMENT OF NATIONAL MUSEUM & MONUMENTS MINISTRY OF ENVIRONMENT, NATURAL RESOURCES CONSERVATION & TOURISM

Report Developed by State Party of Botswana

NOVEMBER 2017

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### **Executive Summary**

This report serves to address the issues and recommendations raised by the WHC Decision 40 COM 7B.78 and specifically paragraph 9 that requested Botswana to submit an updated report on the state of conservation of the property. Okavango Delta, located in north-west of Botswana was inscribed on the World Heritage list in June 2014 under natural criteria; (vii), (ix) & (x). The Okavango Delta Management Plan guides the management of the site.

Since the last state of conservation report submitted in November 2015, consultations have been held with key stakeholders among them; Department of Environmental Affairs (DEA), Department of National Museum & Monuments (DNMM), Okavango Research Institute (ORI) to address issues and recommendations raised by the WHC Decision 40 COM 7B.7.8.

As stated in the last state of conservation report, the State Party has continued to implement the Okavango Delta Management Plan in order to maintain the Outstanding Universal Value of the property. The State Party acknowledges the analysis and conclusion of the World Heritage Centre and Advisory Bodies (IUCN), which states that although the ODMP of 2008 provide a management framework for the area, it pre-dates the property's inscription on the World Heritage list. It further acknowledges that many of its prescriptions have not been implemented, and the institutional arrangements for its implementation have proved to be ineffective, hence the need to review the plan. The State Party has therefore started the process to review the plan and has made progress though it's still at an early stage of tendering. Funding towards the review of the plan has been provided through UNESCO International Assistance to the amount of USA Dollars 27, 080 (270,000 Pula). The State Party has availed funds amounting to USA Dollars 54,000 (540,000 Pula) towards the review. The State Party continues to seek more funding towards the review.

It is anticipated that some of the issues and recommendations raised by the WHC Decision 40 COM 7B.78 among them; integration of wildlife monitoring protocols in the systematic wildlife monitoring programme, management effectiveness, governance as well as access, cultural rights, and benefits will be addressed in detail in the revised management plan.

Through the OKACOM structures, the three riparian states of Angola, Botswana and Namibia are working closely to ensure that any proposed major developments within the Okavango watershed which may adversely impact the OUV of the property are subject to EIAs in conformity with IUCNs World Heritage Advice Note on Environmental Assessment. One of the important milestone in addressing this issue is the commissioning of a consultancy to develop guidelines for 'Assistance to implement the SADC Protocol on shared watercourses by the Permanent Okavango River Basin Water Commission's Member States' Focus: Notification and Prior Consultation of Planned Measures According to Article 4(1) of the SADC Revised Protocol.

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The SADC Revised Protocol on shared watercourses (2000) legally guides the management of shared water resources in the region of Southern Africa, including the OKACOM member states of Angola, Botswana and Namibia. Article 4(1) of the SADC Revised Protocol on shared watercourses, addresses mandatory notification of planned measures undertaken in any riparian state in cases where such measures hold potential to cause 'significant adverse effects'. A coordinated mechanism of this nature to be applied at the basin-wide Cubango-Okavango scale will go a long way in ensuring the effective monitoring of major developments that have potential to impact on the OUV of the property. OKACOM is also in the process of developing a state of conservation report/study for the wider Cubango-Okavango river basin. This is very crucial in that understanding of the state of conservation of the property. Since these are ongoing developments, the State Party will update the World Heritage Centre and Advisory Bodies (IUCN) on progress made and continue to seek advice and guidance where necessary.

Regarding prospecting licenses in the core and buffer zone of the property, the State Party has made progress in addressing the issue. Currently there are no prospecting licenses in the core zone. Negotiations with companies holding prospecting licenses within the buffer zone have been concluded and the company Gcwihaba Resources (Pty) Ltd had agreed in principle to relinquish all the prospecting licenses in the buffer zone and others that are outside the buffer zone. Currently there are no prospecting licenses in the buffer zone. The State Party will continue to monitor prospecting and mining activities outside the buffer zone to ensure that they do not impact on the OUV of the property.

Despite all these efforts, the State Party still faces challenges of limited resources (Financial & human resources) for implementing conservation programmes as outlined in the ODMP and the Wildlife Conservation Research Strategic Plan and the National Biodiversity Strategy and Action Plan. Planned activities such as conducting annual aerial surveys have not been implemented due to limited funding.

### Introduction

This report serves to address the issues and recommendations raised by the WHC Decision 40 COM 7B.78 and specifically paragraph 9 that requested Botswana to submit an updated report on the state of conservation of the property. Okavango Delta, located in north-west of Botswana was inscribed on the World Heritage list in June 2014 under natural criteria; (vii), (ix) & (x). The Okavango Delta Management Plan guides the management of the site.

### WHC Decision 40 COM 7B.78

Para 3: Conclude negotiations with remaining licenses to terminate all prospecting activities within the property's buffer zone. Continue monitoring and managing prospecting licenses and mining operations outside the buffer zone so as to avoid any adverse impacts on the property



As stated in the state of conservation report of November 2015, there were ten (10) prospecting licenses for various mineral commodities within the buffer zone. The licenses were held by Baobab Resources (Pty) Ltd, Hana Ghanzi Copper (Pty) Ltd and Gcwihaba Resources (Pty) Ltd as per the table below. Currently there are no prospecting licenses in the core zone.

PL No.	Expiry Date	Status	Commodity	Location	Company	Remarks
EL154/2012	30 Sep 2016	Expired	Petroleum	Buffer	Baobab	Expired
185/2013	30 Sep 2016	Expired	Metals	Buffer	Hana	Relinquished
393/2008	30 Jun 2018	Active	Metals	Buffer	Gcwihaba	To be relinquished
394/2008	30 Jun 2018	Active	Metals	Buffer	Gcwihaba	To be relinquished
395/2008	30 Jun 2018	Active	Metals	Buffer	Gcwihaba	To be relinquished
093/2012	31 Mar 2015	Expired	Metals	Buffer	Gcwihaba	To be relinquished
094/2012	31 Mar 2015	Expired	Metals	Buffer	Gcwihaba	To be relinquished
095/2012	31 Mar 2015	Expired	Metals	Buffer	Gcwihaba	To be relinquished
096/2012	31 Mar 2015	Expired	Metals	Buffer	Gcwihaba	To be relinquished
097/2012	31 Mar 2015	Expired	Metals	Buffer	Gcwihaba	To be relinquished

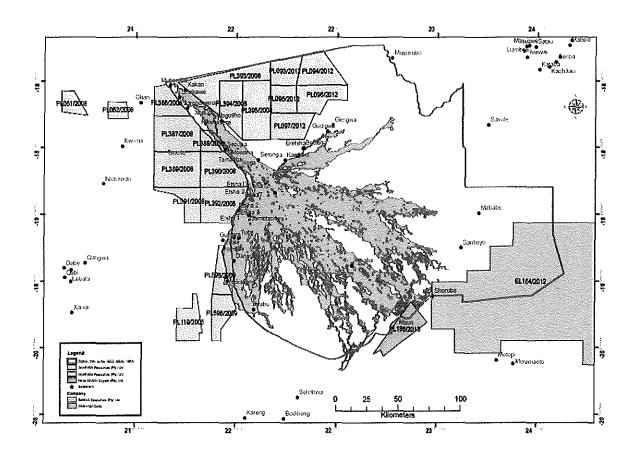
Most of the prospecting licenses held by Gcwihaba Resources (Pty) Ltd ("Gcwihaba") have expired, but the company had lodged applications for renewal. The renewal applications were however delayed due to uncertainty over existence of prospecting licenses over the World Heritage property.

We have had discussions with Gcwihaba with regards to the licenses that sit within the buffer zone, and Gcwihaba has agreed in principle to relinquish all the licenses in the buffer zone and others that are outside the buffer zone. In the spirit of fairness and compromise, Gcwihaba has proposed that the other prospecting licenses that are located to the south-west of the pan-handle, where there is an auspicious deposit of magnetite, be renewed in their entirety with a new lease of life with effect from 1<sup>st</sup> January 2018. The Department of Mines is amenable to the proposal by Gcwihaba, and all the licenses in the buffer zone will be removed (see attached map).

Map summary:

- Gcwihaba licences in Pink all to be relinquished.
- Gcwihaba licences in Green all to be renewed effective January 2018.

This effectively means that in January 2018, there will be no prospecting licenses in the buffer zone.



Para 5: Integrate wildlife monitoring protocols in the systematic wildlife monitoring programme, which will include replicable aerial surveys across the entire property to establish population baselines for key species and to track long-term trends

The Department of Wildlife and National Parks has approved and begun to implement the Wildlife Conservation Research Strategic Plan (2014-2020). The focus of the Strategy is to provide science based information on wildlife conservation and management options and to develop wildlife research capacity in DWNP and associated research partners. Collaboration between DWNP and organizations which are active in the Okavango Delta such as the Okavango Research Institute and independent researchers continues to intensify. A number of research projects focusing on elephants, large carnivores and large antelopes are ongoing.

The Department is mandated to undertake annual countrywide aerial census. The last country wide aerial survey was conducted in 2012, followed by the Northern Botswana survey in 2013. It is noteworthy to highlight that Elephant Without Borders conducted a survey in Northern Botswana in 2014, under the Great Elephant Census project. Private concessionaires and independent researchers have also carried out aerial surveys in NG25 and NG11 to complement the Department's aerial surveys.



Private concessionaires in the core area of the property have been undertaking bi-annual ground herbivore counts to augment aerial surveys. The data collected is yet to be integrated into the Web-based wildlife monitoring system to depict trends in wildlife populations and other environmental factors. It is anticipated that the database will be fully functional by the beginning of 2018.

Funding for research and monitoring continues to be an impediment to DWNP to fully undertake its mandate of monitoring other taxa. Technical and financial support is required to assist to implement the Wildlife Conservation Research Strategic Plan and the National Biodiversity Strategy and Action Plan.

## Para 6: Management effectiveness, governance, as well as access, cultural rights and benefits.

### a) Continue efforts to rationalize veterinary cordon fencing, including through the EIA.

In the last state of conservation report of November 2015, it was reported that the State Party will commission an EIA that will assess the effects of the fences and its impacts on wildlife species in the Okavango Delta for the financial year 2016/2017. This has not been achieved due to limited financial resources. The State Party will continue to make efforts to secure funding to address the issue.

# b) Expand and strengthen programmes which accommodate traditional resource use for livelihoods, user access rights, cultural rights and access to opportunities to participate in the tourism sector in keeping with the property's Outstanding Universal Value (OUV).

As stated in the previous state of conservation report for November 2015, the State Party continue to expand and strengthen programmmes which accommodate traditional resource use for livelihoods, user access rights and access to opportunities to participate in the tourism sector through the Community Based Natural Resource Programme. Despite the ongoing efforts, a more detailed review of the CBNRM programme will be conducted during the review of the management plan to strengthen the programme and even come up with new initiatives that will improve access to opportunities for local communities to participate in the tourism sector. The Community Based Natural Resources Management (CBNRM) Programme was initiated in the early 1990s with communities within the Okavango Delta area being some of the first to be involved with the programme. In 2014 the government introduced two major policy changes within the CBNRM implementation being the suspension of hunting and the Land Bank Initiative. The suspension of hunting was introduced due to a concern for the dwindling wildlife populations. The measure was put in place to ensure the long term sustainability of wildlife species which the backbone of the tourism industry. Communities through the support from the Ministry of Environment Natural resources and Conservation to engage in non-consumptive



tourism. Some of the community Trust were affected due to a loss in revenue that used to come from the hunting.

The government through the Botswana Tourism Organization has facilitated and assisted community Trusts within the Okavango delta to identify and find investors for their concession areas. This was done as a way of facilitating communities to transition from hunting to non-consumptive tourism. The process of finalizing the leases for the new investors took longer than expected as tourism land management was transferred from the Ministry responsible for Lands issues to the Ministry of Environment Natural Resources Conservation and Tourism and there was a necessity for institutional rearrangement. The communities have now started realizing the benefits and getting proceeds from land rentals of their concession areas. Some of the proceeds from the land rentals is used to implement social up-liftment programs in rural areas. Some of the benefits that have been realized through the CBNRM program for these areas include;

- Employment opportunities
- Investment in better housing and sanitation for the communities
- Water reticulation
- Funding for social services
  - o Destitute support programs
  - o Old age & and disability support programs
  - o Support for vulnerable children
  - o Scholarships for local community members

The CBNRM programme faces challenges mainly of poor governance by the Community Trusts. However this is being addressed through capacity building and also assisting the Trust to hire their own managers and accountants who will be responsible for the running of the organizations.

The issue of cultural rights, recognizing the cultural heritage of local communities within the World Heritage property will be addressed through the review of the management plan. A major activity within the plan will be to conduct research on the cultural heritage of the Okavango Delta and incorporate this into the management of the property. The research is also aimed at establishing the significance of the cultural heritage to determine whether it is of Outstanding Universal Value.

## c) Continue efforts to address a range of other protection and management issues including governance, stakeholder empowerment, management planning, and management capacity.

Protection and management issues affecting the property will be addressed in the revised Okavango Delta Management Plan of 2008. The process to review the plan is at tendering stage

where the State Party is running a selective bidding for the review of the plan. Funds have been secured for the project and more funds are being solicited by the State Party for the project.

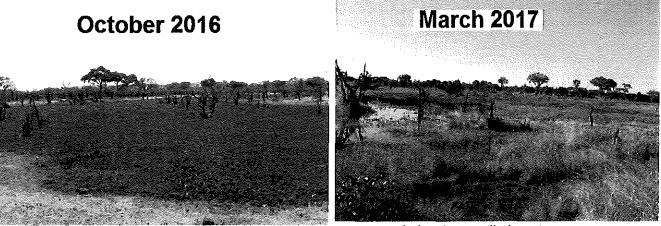
### Control of alien invasive species - Salvinia molesta Mitchell

The mitigation measure for salvinia control has been in place in the form of the host-specific biocontrol agent (salvinia weevil), *Cyrtobagous salviniae* Calder and Sands. With established policy, the Aquatic Vegetation Control Unit (AVCU) of the Department of Water Affairs (DWA) thrives to assess the salvinia control biologically as well as applying physical control where ever is required and warranted. Due to accessibility problems, the number of salvinia monitoring sites has been revised in 2017 and brought down to 57 from 66 sites. The salvinia weevil has been well established in almost 56 sites except in Thamalakane River. The aim of the biocontrol program is not to eradicate the weed, but to reduce abundance to the level where it no longer cause a problem. Small residual mats of salvinia will continue to harbor the weevils.

No thick and significant infestations of kariba weed (salvinia) were observed in 2016 and 2017 in the Okavango Delta except in outflow Thamalakane River. Salvinia increased its infestations by 2016 in Thamalakane River due to flooding and high rainfall, which demanded the release of salvinia weevil. The salvinia weevil took nine months to establish in the infestations all along the river for 6 km distance. Presently the mat damages have been found significantly and sinking of the mat is obviously seen in most of the areas. It is expected that the control might be achieved by January 2018 in the river. A large lagoon connected to Khwai River at Mababe village was also brought under control biologically in 11 month period in 2016/17 (Figure 1). No complaints of difficulty in navigating streams and rivers due to salvinia blockages were reported. Tourists are secured through our sustainable efforts in implementing biocontrol mechanism for the weed.

The Aquatic Weed (Control) Act implemented on 24<sup>th</sup> October 1986 is a sustained program to regulate the Boat Inspection, Boat movement and Importation, aquatic apparatus, and fishing gear, to prevent the importation and spread of aquatic weeds. More than seven cases of boat importation without proper papers were advised not to enter the Botswana border from neighboring countries. The disinfection of BDF Boats with herbicide has been transferred and entrusted to the Botswana Defense Force in Maun since September 2017. The Tourist Operators have managed to control salvinia infestations in Moremi Game Reserve in 2016 through our technology transfer programs. Most of the new recent infestations are man-made through fishing activities. Therefore, DWA's big challenge is to control fishing in vulnerable areas of salvinia infestations, even though DWA continuously conduct public awareness meetings with the communities.

KM MN Page 156 Maun DWA systematic water quality program started in 2015 has been progressively going on well. The chemistry results show that the contaminations from the lodges were not noticed and water quality was found to be in compliance with BOS 32:2015 standard. However, a simple case of likely pollution was detected in Maunachira River at the boat harbor of Xakanaxa, which



was attended and controlled on time.

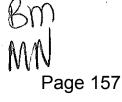
Figure 1: Biological control achieved by March 2017 in Mababe Lagoon

## Para 7: Submit the revised management plan for review by the World Heritage Centre and IUCN prior to its approval

The process for the review of the management plan is ongoing. Funding has been secured from

UNESCO International Assistance fund and the State Party National Environment Fund (NEF). The State Party is in the process of soliciting more funds for the project

Para 8: Potential impacts of water resource management in Angola and Namibia. State Parties of Botswana, Angola and Namibia to liaise closely to ensure that any proposed major developments within the Okavango watershed which may adversely impact the OUV of the property are subject to EIAs in conformity with IUCN's World Heritage Advice Note on



## Environmental Assessment; these EIAs should be submitted to the World Heritage Centre and IUCN for review prior to taking any decisions that would be difficult to reverse

Through the Permanent Okavango River Basin Water Commission Agreement of 1994, and as mandated by the SADC Protocol on Shared Watercourses, the riparian states of Angola, Botswana and Namibia work closely to ensure that they notify each other of any proposed major developments within the Okavango watershed which may adversely impact the OUV of the property and are subject to EIAs. However, this is a challenge as the 1994 Agreement of the Permanent Okavango River Basin Water Commission (OKACOM) does not directly address the process of Notification and Prior Consultation (NPC) of riparian states regarding planned measures that could cause transboundary impacts. Instead the member states of OKACOM have been addressing notification of planned measures impacting the Okavango-Cubango River Basin through their national legal frameworks, whilst having regard to the relevant provisions of the SADC Protocol. Hence it has not been easy to get information regarding planned developments in each of the three riparian states as there is no coordinated mechanism in place that is applied at the basin-wide Okavango-Cubango scale. OKACOM has therefore commissioned a consultancy to develop guidelines for 'Assistance to implement the SADC Protocol on Shared Watercourses by the Permanent Okavango River Basin Water Commission's Member States' Focus: Notification and Prior Consultation of Planned Measures According to Article 4 of the SADC Revised Protocol. This development will ensure that any proposed major developments within the Okavango watershed which may adversely impact on the OUV of the property are known at an early stage, subjected to EIAs and closely monitored. The situation has not changed with regard to information provided in the state of conservation report of November 2015 on upstream developments. The World Heritage Committee will be informed if there are any new developments regarding the issue.

In conformity with Paragraph 172 of the Operational Guidelines, the State Party would like to inform the World Heritage Centre that the State Party is currently constructing a bridge at Mohembo across the Panhandle area (Okavango River) which is part of the World Heritage property. The project was approved in 2008 and an EIA for the project was prepared in 2009 before the inscription of the site on the World Heritage list hence the omission by the state party to inform the committee of the project. The project is at an early stage having been launched in March 2017.

### **Mohembo Bridge Construction**

A cable-stayed bridge in Okavango Delta which commenced in November 2016, will cost P1, 045, 510, 751, 77 and will be constructed by Italian Joint venture of Cimolai and Itenira companies the client being the Department of Roads. The project, is expected to run for 36 months and is expected to be completed in July 2019. The civil works comprise the construction of a 1.2km long road bridge, with the left and right banks, main channel, and pedestrian walkways and lighting over the bridge and along 3km of approach road will also be available.



The Mohembo Bridge will be the first suspended bridge in Botswana and one of the longest - at 1162m - in the Southern African region. The main towers, which are creatively symbolized as elephant tusks, extend some 85m above the bridge deck.

The construction of the bridge addresses the challenges imposed by the existing pontoon service, which is currently unreliable due to unfavorable weather conditions and restricted working hours. It will further boost the economy of the country by making services available to all by reducing crossing time, and also making it feasible for expansion of future road network, integrate tourist attraction sites and other tourism activities.

An Environmental Impact Assessment (EIA) has been carried out and the EIA report prepared in 2009 by Engineering, Hydrological Environmental management Consultants (EHES). Please see attached the EIA Report. The Environmental Management Plan is also incorporated in the EIA report.

The project is being closely monitored as per the requirements of the EIA. In an effort to ensuring commitment to the protection of the Okavango Delta Ramsar and World Heritage site, the client has engaged EHES Environmental consultants as part of the Engineering and Supervisory team to oversee the implementation of the EIA recommendation; to undertake independent environmental studies and monitoring of the project compliance.

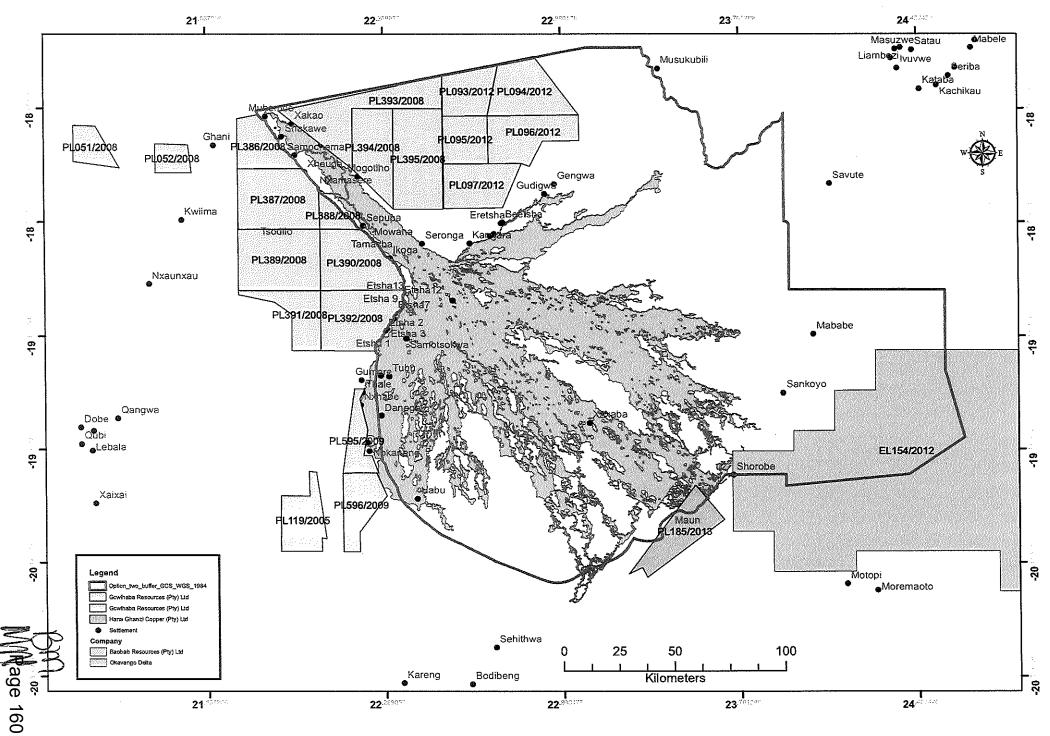
In addition to the above, the contractor has employed an environmental officer/ consultant as required by the Contract to ensure and advise the contractor on environmental obligations and liabilities during the construction and operation.

Baseline monitoring of environmental parameters such as Surface water quality, Ecology, Noise quality have so far been done prior commencement of construction activities to provide baseline data for monitoring purposes. This is critical to monitor for any trends (changes attributed to the projects) likely during the construction phase. The State Party will continue to provide updates on the project to the World Heritage Centre and Advisory Bodies (IUCN).

Signed on behalf of the State Party

Mr. Jimmy Opelo Permanent Secretary Ministry of Environment, Natural Resources Conservation & Tourism

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**Commissioned By** 



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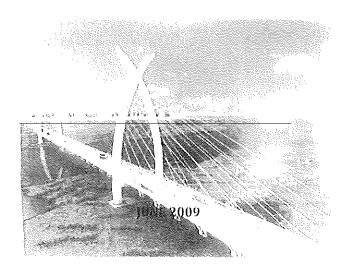
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### FINAL EIA REPORT

### ENVIRONMENTAL IMPACT ASSESSMENT AND CONSTRUCTION SUPERVISION FOR THE OKAVANGO RIVER BRIDGE IN MOHEMBO VILLAGE

TB NO.9/5/152/2001-2002





**EXECUTIVE SUMMARY** 

### Introduction

The Department of Roads (DoR) intends to undertake consultancy services for field investigation, engineering planning /preliminary design, detailed design, preparation of tender documents and construction supervision for Mohembo Bridge across Okavango River. The need for a permanent crossing structure over the Okavango River has been high on the agenda for the Government of Botswana for some time. Currently, a motorized pontoon is the means by which crossing is provided during daytime, from 06:30 to 18:30hrs. Beyond this time period and on occasions when the pontoon is not operational due to mechanical fault, crossing becomes perilous due to wild animals that inhabit the river and any other dangers associated with the river crossing, goods and services cannot be delivered to communities situated to the eastern side of the river in Seronga, Kauxwi etc.

This document presents the Environmental and Social Impact Assessment study for the proposed construction of Mohembo Bridge. The proposed bridge construction is meant to solve the problems mentioned above. Department of Roads engaged CPP Botswana (Pty) Ltd to undertake the engineering consultancy assignment with the view of making recommendation. EHES (Pty) Ltd was engaged as a sub consultant to undertake the EIA study for the proposed bridge project.

### Approach to the EIA Study

The EIA exercise was undertaken under the purview of the EIA, Act 2005 thus the following procedures were followed:

**Preliminary EIA report**, In compliance with Section 3 of the EIA, Act, a Preliminary Environmental Impact Assessment (PEIA) was prepared in connection with the proposed project in February 2006. A desk study and several reconnaissance site visits were undertaken and a report issued to Department of Environmental Affairs (DEA) for approval. DEA instructed that a full EIA study should be undertaking for this project.

**Scoping stage**, DEA therefore recommended that the next stage of the EIA process, which is the Scoping and Public Participation and the development of the Terms of Reference should proceed. Kgotla meetings were arranged for and held in March 2006 and October 2008

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at the following villages, Shakawe, Mohembo East, Mohembo West and Seronga village. This involved consultations with relevant stakeholders, government authorities and the general public. The scoping and terms of reference were approved thereby authorizing undertaking of the Impact Assessment stage.

**Detailed EIA Study**, key issues identified at the scoping stage were assessed and present in this report which is final stage. This includes the following potential impacts:-

- Potential impacts on the river,
- Potential impacts on the river flow downstream,
- Potential impacts on ecological aspects,
- Potential impacts on archaeological sites,
- Potential impacts on the communities close to the project site,
- Construction, operations and decommissioning related issues.

The EIA exercise anticipates amongst others the following impacts:

	Negative Impacts	Positive Impacts
Biophysical	River contamination, oils, fumes, tar.	Improved river crossing
	Air pollution due to increased ADT	<ul> <li>Prevention of water</li> </ul>
	Borrowing of earth material	pollution by the pontoon
	Vegetation clearance	<ul> <li>Convenient crossing</li> </ul>
	Increased sedimentation due to erosion of exposed earth and construction material	
	Soil erosion	
	Destabilization of soil	
	Noise Pollution and vibrations	
	Destruction of habitat	
	<ul> <li>Impact on cultural and archaeological resources</li> </ul>	

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	Negative Impacts	Positive Impacts	
Socio- Economic	Negative Impacts• Road accidents• Potential spread of HIV/AIDS and other diseases• Work and related accidents• Waste generation• Development of temporary campsites• The 2 pontoons will become redundant• Loss of employment for the pontoon 	Creation of employment	
	materials due to the opening of the	Boost to the local	
		river • Reuse of construction materials	
		Enhanced/improved     aesthetics of the     surrounding	
		<ul> <li>Increase in property value</li> <li>HIV/AIDS education</li> </ul>	

### Recommendation

The above anticipated impacts will mostly be experienced during the construction period, and are mostly temporary. With proper mitigation, the significance of these impacts will be much lower, hence not pose a threat to the continuance of the proposed project. Given the above, it is recommended that:

- The proposed bridge project be built at the earliest possible time to alleviate the problems cause by pontoon mainly delays and water pollution.
- Where the project encroaches into peoples' property, compensation issues have to be addressed fairly and compensation

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made in a timely manner.

- There should be good coordination between contractors and the communities. This is to ensure that the project is carried out in an amicable atmosphere.
- The EMP should be brought to the attention of all those institutions suggested for monitoring to enable them to plan and play their expected role, especially that the area is a *Ramsar site* which promote wise use.
- An environmental and archaeologist consultant should be contracted to carry out the environmental supervision of the proposed project in order to ensure that the mitigation measures laid out in this report are undertaken and meet the international standard.
- The contractor should provide protective clothing such as helmets, hand gloves, earplugs, boots, and overalls to the all the workers. This should be enshrined in the contract document.

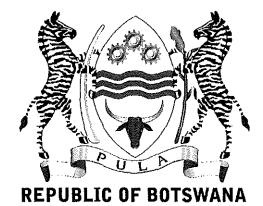
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### STATE OF CONSERVATION REPORT OKAVANGO DELTA NATURAL WORLD HERITAGE SITE, BOTSWANA (N1462)



### BY THE GOVERNMENT OF THE REPUBLIC OF BOTSWANA DEPARTMENT OF NATIONAL MUSEUM & MONUMENTS MINISTRY OF ENVIRONMENT, NATURAL RESOURCES CONSERVATION & TOURISM

Report Developed by State Party of Botswana

MARCH 2020



### Introduction

This report serves to address the issues and recommendations raised by the WHC Decision 42 COM 7B.89 and specifically paragraph 9 that requested Botswana to submit an updated report on the state of conservation of the property. Okavango Delta, located in north-west of Botswana was inscribed on the World Heritage list in June 2014 under natural criteria; (vii), (ix) & (x). The Okavango Delta Management Plan guides the management of the site.

Since the last state of conservation report submitted in November 2017, consultations have been held with key stakeholders among them; Department of Environmental Affairs (DEA), Department of National Museum & Monuments (DNMM), Okavango Research Institute (ORI) to address issues and recommendations raised by the WHC Decision 42 COM 7B.89.

As stated in the last state of conservation report, the State Party has continued to implement the Okavango Delta Management Plan in order to maintain the Outstanding Universal Value of the property. The State Party acknowledges the analysis and conclusion of the World Heritage Centre and Advisory Bodies (IUCN), which states that although the ODMP of 2008 provide a management framework for the area, it pre-dates the property's inscription on the World Heritage list. It further acknowledges that many of its prescriptions have not been implemented, and the institutional arrangements for its implementation have proved to be ineffective, hence the need to review the plan. The State Party has therefore started the process to review the plan and has made progress though there have been delays in awarding of the tender. The process is ongoing and currently it is at scoping phase. Funding towards the review of the plan has been provided through UNESCO International Assistance to the amount of USA Dollars 27, 080 (270,000 Pula). The State Party has availed funds amounting to USA Dollars 54,000 (540,000 Pula) towards the review. The State Party has secured more funding towards the review.

It is anticipated that some of the issues and recommendations raised by the WHC Decision 42 COM 7B.89 among them; integration of wildlife monitoring protocols in the systematic wildlife monitoring programme, management effectiveness, governance as well as access, cultural rights, and benefits will be addressed in detail in the revised management plan.

Through the OKACOM structures, the three riparian states of Angola, Botswana and Namibia are working closely to ensure that any proposed major developments within the Okavango watershed which may adversely impact the OUV of the property are subject to EIAs in conformity with IUCNs World Heritage Advice Note on Environmental Assessment. One of the important milestone in addressing this issue is the completion of the development of guidelines for 'Assistance to implement the SADC Protocol on shared watercourses by the Permanent Okavango River Basin Water Commission's Member States' Focus: Notification and Prior Consultation of Planned Measures According to Article 4(1) of the SADC Revised Protocol. Progress has also been made in addressing the World Heritage Committee request of preparing the Strategic Environmental Assessment (SEA) for the Cubango-Okavango River Basin.



The SADC Revised Protocol on shared watercourses (2000) legally guides the management of shared water resources in the region of Southern Africa, including the OKACOM member states of Angola, Botswana and Namibia. Article 4(1) of the SADC Revised Protocol on shared watercourses, addresses mandatory notification of planned measures undertaken in any riparian state in cases where such measures hold potential to cause 'significant adverse effects'. A coordinated mechanism of this nature to be applied at the basin-wide Cubango-Okavango scale will go a long way in ensuring the effective monitoring of major developments that have potential to impact on the OUV of the property. OKACOM is also in the process of developing a state of conservation report/study for the wider Cubango-Okavango river basin. This is very crucial in that understanding of the state of conservation of the wider Cubango-Okavango River basin gives more insight into the state of conservation of the property. Since these are ongoing developments, the State Party will update the World Heritage Centre and Advisory Bodies (IUCN) on progress made and continues to seek advice and guidance where necessary.

Regarding prospecting licenses in the core and buffer zone of the property, the State Party has made progress in addressing the issue. Currently there are no prospecting licenses in the core zone. Negotiations with companies holding prospecting licenses within the buffer zone have been concluded and the company Gcwihaba Resources (Pty) Ltd had agreed in principle to relinquish all the prospecting licenses in the buffer zone and others that are outside the buffer zone. Currently there are no prospecting licenses in the buffer zone. The State Party will continue to monitor prospecting and mining activities outside the buffer zone to ensure that they do not impact on the OUV of the property.

Despite all these efforts, the State Party still faces challenges of limited resources (Financial & human resources) for implementing conservation programmes as outlined in the ODMP and the Wildlife Conservation Research Strategic Plan and the National Biodiversity Strategy and Action Plan. However, the State Party is happy to inform the committee that it managed to conduct annual aerial surveys in 2019.

### Introduction

This report serves to address the issues and recommendations raised by the WHC Decision 40 com 7B.89 and specifically paragraph 9 that requested Botswana to submit an updated report on the state of conservation of the property. The Okavango Delta, located in north-west of Botswana was inscribed on the World Heritage list in June 2014 under natural criteria; (vii), (ix) & (x). The Okavango Delta Management Plan guides the management of the site.

### WHC Decision 40 COM 7B.89

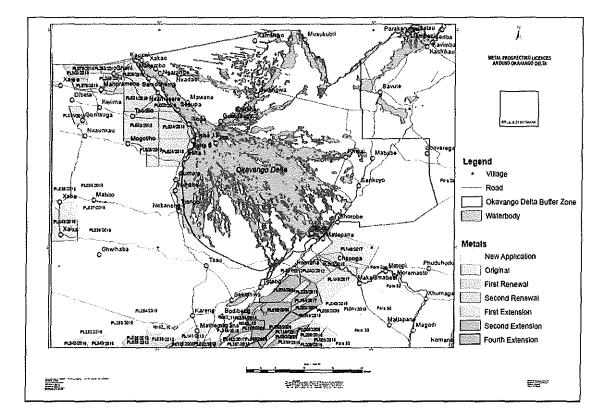
Para 3: <u>Welcomes</u> the cancellation of all petroleum and metals prospecting licenses in the buffer zone and the State Party's commitment to continue monitoring the activities, but <u>noting</u> the location of the alternative licensing zones close to the buffer zone and the property, <u>requests</u> the State Party to ensure that an Environmental Impact Assessment (EIA), including an assessment of potential impacts on the outstanding Universal Value



## (OUV) of the property, is undertaken before any exploration activity is initiated, and submit it to the World Heritage Centre for review by IUCN.

As indicated in the State of Conservation report of November 2017, that effective January 2018, there will be no prospecting licenses in the buffer zone, the State Party has managed to cancel all the prospecting licenses in the buffer zone and are closely monitoring exploration activities of the alternative licensing zones close to the buffer zone.

Below is a map which shows the current status of prospecting licenses outside the buffer zone of the property,



Para 4: <u>Appreciates</u> the collaboration between the State Parties of Botswana, Angola and Namibia through the Permanent Okavango River Basin Water Commission (OKACOM) to ensure any proposed major development within the Okavango watershed is subject to an EIA, and that there is a coordinated mechanism to notify each State Party of activities that can have transnational impacts;

Para 5: <u>Taking into account</u> the potential impact on the property's OUV of any development leading to water abstraction within the watershed and the complexity and the extent of the basin, <u>urges</u> the State Parties of Botswana, Angola and Namibia to assess impacts of any development at the strategic level and at the landscape scale through a comprehensive Strategic Environmental Assessment (SEA), in line with IUCN's World Heritage Advice Note on Environmental Assessment.

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The Permanent Okavango River Basin water Commission (OKACOM) member states, Angola, Botswana and Namibia have noted the importance of undertaking the Strategic Environmental Assessment (SEA) for the Cubango-Okavango River Basin (CORB). This is observed not only will it address the requirements of the World Heritage Convention but address the responsibility that OKACOM has in delivering its mandate related to the sustainable utilization of the resources of the CORB. Therefore, OKACOM has initiated a process to develop the CORB- SEA. The State Party of Botswana presented the proposal to the Okavango Basin Steering Committee (OBSC) which is a technical arm of OKACOM, in December 2019. As of December 2019, the Commission approved that this process be undertaken urgently. The OKACOM Secretariat has initiated the process with soliciting funds for the exercise. Since this is an ongoing process, the State Party will update the World Heritage Committee and Advisory Bodies (IUCN) on progress made and will continue to seek advice and guidance where necessary.

Para 6: <u>Notes with appreciation</u> the initiation of the review of the Okavango Delta Management Plan in order to reflect the property's World Heritage status, to improve the effectiveness of the institutional arrangements and to address outstanding conservation and management issues, and <u>reiterates its request</u> to the State Party to continue its efforts to:

- 1. Expand and strengthen programmes, which accommodate traditional resource use for livelihoods, user access rights, cultural rights and access to opportunities to participate in the tourism sector, in keeping with the property's OUV,
- 2. Address a range of other protection and management issues including governance, stakeholder empowerment, management planning, management capacity and control of alien invasive species.

Despite the tourism industry in Botswana being the 'second largest foreign exchange earner, after diamond mining contributing about 10.4% of the GDP, generating about 25 000 jobs directly in 2016 and 27 000 in 2017, in hotels, travel agents etc. and the tourism activities mainly concentrated in the northern part of Botswana and within the Okavango Delta World Heritage Property, such activities have tended to exclude full participation of local citizens. Although tourism has contributed to employment generation, the challenge is that the jobs for citizens have been of general nature, poor quality and low payments. The other major gap is also observed in the minimal participation of locals in the tourism value chain, an area which has been used by many successful economies to create alternative opportunities for economic growth.

The Government of Botswana has therefore launched two initiatives aimed at empowerment of locals to having meaningful participation in the tourism sector. The two initiatives are part of the Government's National Transformation Strategy and the National Vision 2036, which espouses Prosperity for All Batswana. The two initiatives also represent the sector interventions on the Economic Diversification Drive (EDD) strategy.

**Citizen Empowerment on the Tourism Sector Initiative:** The initiative was created with a view to facilitate increase of citizen participation in the tourism sector through availing tourism land primarily to new entrants in the tourism industry especially, in prime areas of Botswana and throughout the rest of the country. The initiative aims at facilitating the inclusion of citizens through:

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- Reservation of sites for allocation to citizens in the form of citizen companies, consortia, joint ventures and community trusts;
- Allowing use of Land allocated to citizens through tourism to be used as collateral by allottees to secure shareholding and or partnerships;
- Providing incentives to persuade existing concession operators to issue part of shareholding to citizens.
- Sub-divide larger concessions with a view to establishing new ones for allocation to citizens; and
- Facilitating preferential allocation through a set ratio to new entrants to the tourism sector and existing participants, respectively.

**Cluster Development Initiative:** The cluster initiative on the other hand is aimed at enhancing participation of citizens throughout the tourism value chain. The Okavango World Heritage Property has been used as proto-type development through a structure termed Makgobokgobo Cluster. The cluster specific projects include:

- a. development of suppliers;
- b. product development;
- c. specialized marketing;
- d. skills development and
- e. Logistics and transport.

The overall aim is to create and support businesses' and also create employment for locals in the Okavango Delta World Heritage Property.

Since these two initiatives are still at planning stages, the State Party will update the World Heritage Centre and Advisory Bodies on progress made.

At regional level, OKACOM, through the UNDP and European Union support, is undertaking regional projects that address issues related to livelihoods improvement, conservation and monitoring of the resources of the CORB. These are guided by the OKACOM Strategic Action Programme that has four thematic areas of;

- a. Livelihoods and Socio-Economic Development;
- b. Water resources management;
- c. Land Management; and
- d. Environment and biodiversity.

Currently, OKACOM is developing a CORB Basin wide Environmental Monitoring Framework (CORB-EMF). This is to be informed by a series of joint basin-wide surveys that will establish a baseline. To date four (4) basin wide joint surveys have been conducted and the results are being used to develop the CORB-EMF. The joint surveys cover, hydrometeorological Monitoring, water quality monitoring and environmental and biodiversity monitoring. In addition to this, member states are procuring relevant equipment and tools that will be uniform across the three states to facilitate similar monitoring using similar equipment and adopting similar approaches. A Data Sharing Protocol is at final stages of development to facilitate information sharing.

A series of livelihood enhancement demonstration projects are underway in all the OKACOM Member States. These includes community projects on Community based Fisheries management in Namibia and Angola; Community based tourism in Namibia;

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Conservation Agriculture in Angola and Namibia; and Enhancing and linking local horticultural produce to higher markets in the Okavango in Botswana.

In implementing the land management component of the SAP, OKACOM has since identified two main delineated areas for focused land rehabilitation mainly in the upper part of the basin in Angola. The goals of OKACOM's Land Management activities are to address the drivers of land use degradation in the CORB, mitigating these drivers and threats with the implementation of viable, effective and sustainable interventions that are implemented through collaboration with national stakeholders and local communities. Prioritized activities should also lead to improved and potentially diversified livelihoods for the communities within the prioritized hotspots. This action is expected to take effect in 2020.

The process of reviewing the Okavango Delta Management Plan is in progress. The consultant, Okavango Research Institute is currently doing the scoping exercise (situational analysis). Consultations are ongoing with different stakeholders. Consultations took longer than anticipated due to the vastness of the area, complexity and multiple stakeholders. Despite the fact that the project delayed at the beginning, a lot of progress has been made and it is anticipated that the final report will be ready by end of August 2020. Progress reports will be provided to the World Heritage Centre and IUCN at the end of each phase. The scoping reports, Draft Management Plan and Draft Final Plan will be shared will be shared with World Heritage Centre and IUCN at the end of each stage for review and technical guidance.

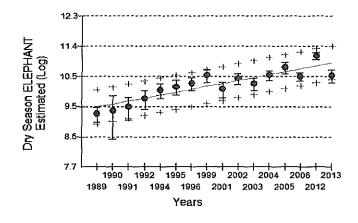
It is anticipated that the revised management plan will address the issues and recommendations raised on Para 4, section 1 and 2. However, the State Party at national and regional level through OKACOM has been working on some interventions to address among other things the expansion and strengthening of programmes, which accommodate traditional resource use for livelihoods and access to opportunities to participate in the tourism sector, in keeping with the property's OUV.

The recently completed Community Based Natural Resource (CBNRM) Strategy once implemented will also contribute in strengthening of programmes (CBNRM) which accommodate traditional resource use for livelihoods and access to opportunities to participate in the tourism sector by Community Based Organizations (CBOs).

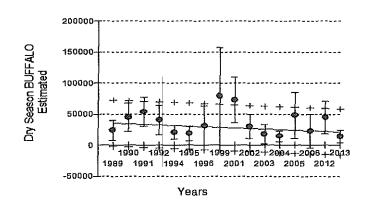
Para 7: <u>Notes with concern</u> that an EIA for the veterinary cordon fences and aerial wildlife surveys could not be undertaken due to financial constraints, and also requests the State Party to provide further financial support to the conservation of the property

The State Party managed to conduct aerial wildlife surveys in 2019. However, below is an update on species population and trends as per the 2012 aerial wildlife surveys. The update for the 2019 species population and trends will be provided once it is concluded.

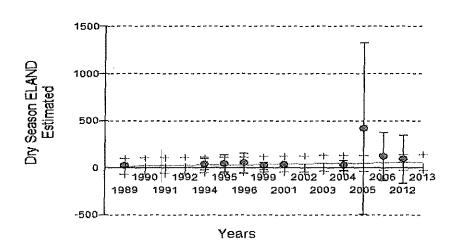
Update of Aerial Wildlife Surveys on species population and trends:



There was a gradual significant increase in the estimated number of elephants over the years. The elephant population has remained healthy with an exponential growth.

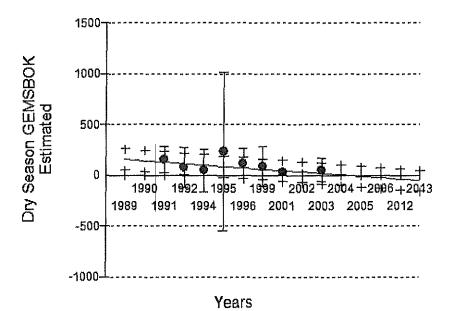


The change in population was not statistically significant. It shows that the population estimates were going down through the years as seen from the graph above.

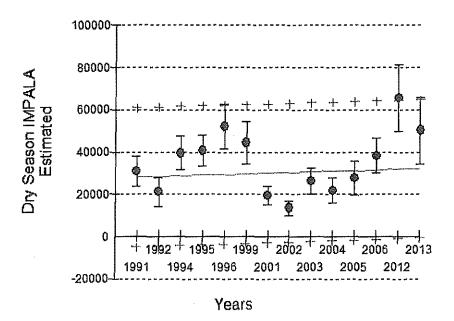


The eland population has remained low and/or constant throughout the years and there is no significant growth.

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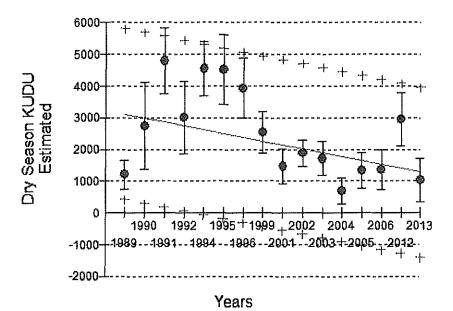


There was a slight decline in the population of gemsbok though not statistically significant.

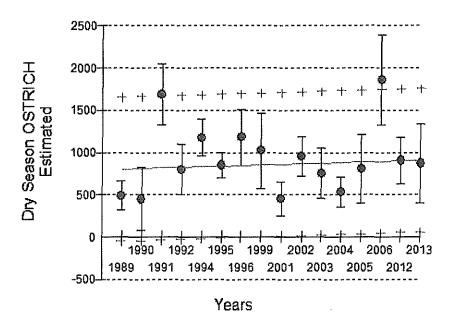


The population of impala has remained steady and/or constant with no statistical growth.

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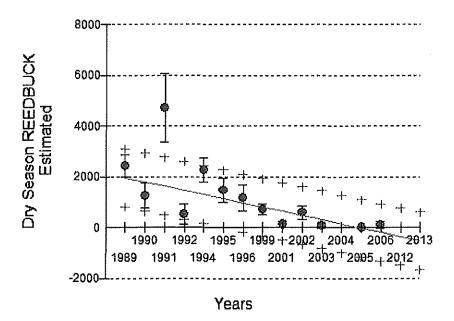


The kudu population has remained low with a slightly steep decline but not statistically significant to the overall population size.



The ostrich population has remained constant throughout the years as shown by the trend line.

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There was an observable downward trend in the population, hence a cause of concern for the species.

### **Control of Alien Invasive Species**

The control of alien invasive species is the responsibility of the Department of Water and Sanitation whose core mandate is to plan, assess, develop and manage the country's water resources in a sustainable way and achieve equitable distribution to all sectors of the economy. Therefore, it has responsibility to manage the Okavango Delta's water resources and this is currently achieved thorough hydro-monitoring, water quality monitoring, pollution control and control of alien invasive species salvinia, *Salvinia molesta* Mitchell through its length and breadth. This section of the report will therefore not only focus on interventions on the control of alien invasive species only, but will also speak to the hydro-monitoring, water quality monitoring and pollution control.

These activities supports the Monitoring section in the "Okavango Delta World Heritage Nomination Dossier" which clearly states that effective monitoring for the system requires a spatially distributed network to incorporate basic hydrological and water quality variables at important locations along each of the major distributary systems, the inflow (Mohembo) and all of the outflows with a representative climatic data and rainfall.

### **Hydrological Monitoring**

There are a total of 129 hydrological stations in the Okavango Delta of which 87 stations are accessible and constantly monitored while the rest are either not accessible due to vegetation.

blockages or abandoned as the stations are not strategically placed. The core zone of the World Heritage Site area has 67 stations across and 47 are operational. All these stations are in perennial riverine areas and being monitored for water flow discharges and water levels. The Mohembo inflow station is out of the core zone area and its daily inflows determines the wet and dry conditions of the delta (Figure 1). The scale of flooding in the delta influences water resource use for tourism and communities especially in the out flow rivers.

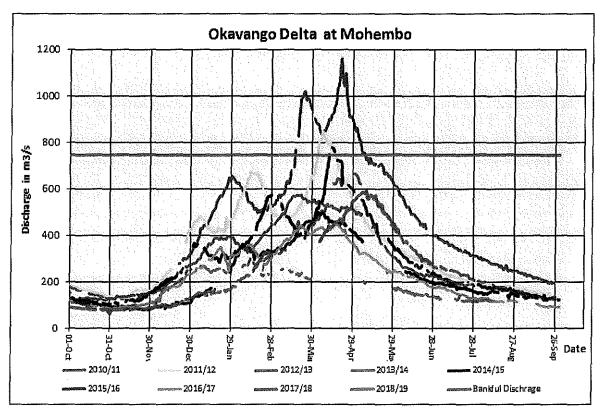


Figure 1- annual Discharge at Mohembo Hydro Station

#### **Current Status**

The Okavango Delta derives its water from the Angolan highlands at Huambo. The 2018/19 rainy season was one of the driest periods since 1981 in the central and western parts of the SADC region. The season has been characterized by below-normal rainfall due to delayed and erratic onset of rains.

As a result of below-normal rainfall during the 2018/19 hydrological year, the entire core zone area of the Okavango Delta experienced very low inflows and water levels resulting in the drying of the outflow rivers including the Thamalakane, Boro and Kunyere river systems. Even though the flows and water levels at Mohembo hydrological station started rising

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gradually starting from the months of November/December 2019 due to the current rainy season, the system has generally experienced a decrease in water volumes over the past few years since 2010/2011 hydrological year to date, see Figure 1 above. As at mid-January 2020 the water levels at Mohembo are slightly below the 1 meter depth, at (0.860m) as compared to the same period of the previous year (0.665m).

Currently most of the Outflow Rivers which lies along the lower parts of the Okavango Delta remain dry except some patches of stagnant water which are visible along some sections of the rivers as a result of current rainfall.

### Factors that led to the low flows/water levels

- Insufficient rainfall contribution in the Okavango Basin especially in Angola and Namibia during the past rainy season 2018/2019, hence less runoff.
- > High temperatures in the region resulting in water loss through evaporation.
- > Water loss through percolation resulting in reduced flows as the river beds were dry.
- The existence of many dried lagoons/pools and flood plains that had to be filled first resulting in the delaying of flows.

### Alien Invasive Salvinia molesta

The mitigation measure for salvinia control has been in place in the form of the host-specific biological weevil, <u>Cyrtobagous salviniae</u> Calder and Sands. With established norms and policy, the Aquatic Vegetation Control Unit (AVCU) has been continuously assessing the salvinia control biologically as well as applying the physical control wherever is warranted. The array of activities involved monthly field new infestation surveys and biological control weevil establishment by sampling and assessment. There are 53 salvinia monitoring sites in the Okavango Delta. Salvinia control has been thoroughly established in all infested sites where the biological control is yet to be established to ecologically acceptable levels.

The aim of the biological control program is not to eradicate the weed, but to reduce abundance to the level where it no longer causes a problem. Small residual mats of salvinia will continue to harbor the weevils so that if regrowth of salvinia occurs as a result of favorable conditions with sufficient nutrients, control agents can build up rapidly to restore control.

The following are salvinia bio control sites where distribution and successful control of Salviniae molesta with its weevil Cyrtobagous salviniae in the Okavango Delta was established since 2016;

1. Abaqao River =1 site

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- 2. Maunachira River = 8 sites
- 3. Khwai River = 15 sites
- 4. Bodumatau = 2 sites
- 5. Xini = 1 site
- 6. Mogogelo Rivers = 2 sites
- 7. Gomoti River = 2 sites
- 8. Santantadibe River = 10 sites
- 9. Matsibe River = 1 site
- 10. Boro River = 3 sites
- 11. Thamalakane River = 7 sites
- 12. Xudum River = 1 site

Total monitoring sites = 53 sites

### **Current Status**

In May 2017 new salvinia infestation of significant nature was observed along Xudum River at Nxaraga area. Monitoring of the new infestation revealed that the biocontrol weevil has slowly established by the weevil-infested mat floating from the upstream and control has been achieved.

This clearly indicates that the weevil has been widely established well in most of the sites/areas of Moremi Game Reserve. All the other sites monitored in the core zone have abundant number of adult weevils as determined by scientific methods. Therefore, it indicates that biological control progress in the Salvinia infestations has been under constant progress and maintained in most of the core and buffer zones of the Okavango Delta.

### Salvinia Control - Stakeholders

The ecotourism businesses and riparian communities have benefitted and secured enormously from the control of salvinia weed in the Okavango Delta. Complaints of difficulty in navigating the streams due to thick blockage of salvinia mats, for tourism recreation and other activities have been reported. But DWS's sustainable monitoring of salvinia has improved considerably and several pools and lagoons are accessible to wildlife for water use. Training program of Tourist Guides in the Moremi Safaris and Camp Moremi (Desert & Delta), Sandibe (&Beyond) and Khwai River Lodge (Belmond) in the core zone was reviewed in 2018 to revitalise the delivery partnership in biological control of salvinia. The revised program includes assembling of new weevils breeding portable pools at specific sites



in the Delta and will be rolled out during 2020/2021 financial year. This program other than the control of Salvinia benefit some lodges as they now use it as part of sightseeing, environmental education and tourism marketing.

Okavango Kopano Mokoro Community Trust (OKMCT) has been involved in the physical control of salvinia and intermitted river vegetation blockages along Santantadibe River. This has allowed ease of navigation for their ecotourism activities which entails transporting tourists on canoes.

### Water Conservation

The water conservation program continues to intensify the practice of water conservation and demand management in the delta. This is intended to significantly reduce the volumes of water abstractions and increase the utilization of alternative water resources including effluent and grey water recycling in the core zone area of the Delta. This is realized through education and awareness which forms part of the pollution inspections.

### **Pollution Control**

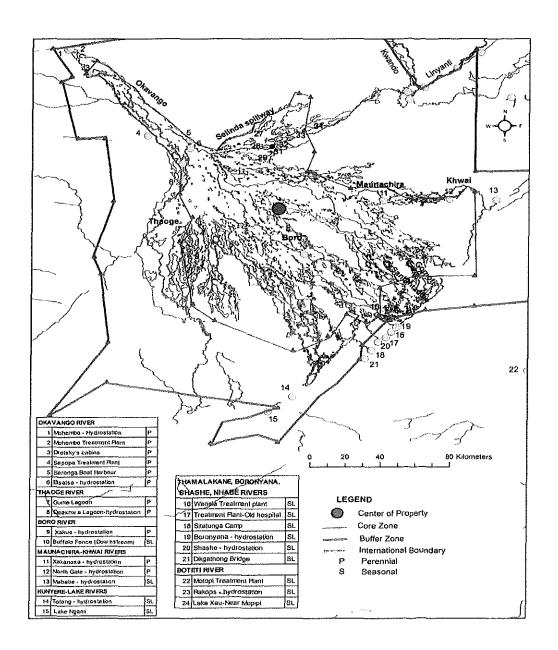
The surveillance of wastewater generating to abate pollution of the Delta currently targets fifteen (15) wastewater generating facilities across the breath of Okavango Delta. These facilities are checked for compliance to Botswana Standard (BOS 93:2012) for the discharge of wastewater in to the environment and general wastewater best management practices. Currently ten (10) facilities were inspected during the 2019/2020 inspection programme and none is in compliance. In the previous year (2018/2019) only five (5) of the total fourteen (14) facilities inspected were in compliance.

Majority of the facilities did not meet the above mentioned criteria either due to the quality of the effluent, poor infrastructure and mainly the use of soak away. The use of soak away does not provide for sampling of the effluent due to the nature of the technology. However, the use of soak away in the Okavango Delta violates the "Guidelines for waste management for development in a Wildlife Management Area in Botswana that may produce solid or liquid waste". These facilities are continuously engaged through the surveillance exercise, environmental audits and education/awareness activities to encourage a shift to safer methods of effluent disposal.

#### Water Quality Monitoring

The overall aim of the monitoring programme is to ensure the long-term water resources management and protection of the Okavango delta and to determine the baseline condition of the delta.

DWS started a revised systematic water quality programme for the surface water component of the Okavango Delta between 2011 and 2012. Presently there are twenty four (24) sampling sites in the Okavango Delta (Annex 1) of which nine (9) are in the Core Zone. Sampling is done quarterly and the samples are analyzed for Electrical Conductivity, Dissolved Oxygen, total phosphate, Ca, Mg. Na, K, Fe, Mn, Cl, SO4, NO3, CO3, HCO3 to identify trends in the water quality over time and infer its influence on the ecosystem. Unlike other parameters, hydrocarbons are done on special cases only. The Okavango Delta is still in its pristine state in terms of its water quality.



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Figure 2: Systematic water quality monitoring sites in the Okavango Delta.

Para 8: <u>Further noting</u> that the construction of a cable-stayed bridge across the panhandle area of the property and hardening of the associated approach road has begun at Mohembo based on a 2009 EIA, <u>considers</u> that the measures identified in the EIA are insufficient as they do not take into account the property's World Heritage status, and <u>further requests</u> the State Party to revise the EIA, in line with the IUCN Advice Note, prior to continuing the work, in order to include an assessment of the potential impacts of the construction and use of the bridge and road on the property's OUV, and submit it to the World Heritage Centre for review by IUCN.

The Government of Botswana (GoB) is implementing recommendations of an Environmental Impact Statement (EIS) which was developed for the project. Within the EIS there is an Environmental Management Plan (EMP), a plan developed to guide impact mitigation and monitoring. The EIS was considered adequate by the Department of Environmental Affairs (DEA) and was duly authorised in line with the Environmental Impact Assessment Act (2005).

While we appreciate the concerns by the Committee and their call for the review of the EIS for the Bridge, we have not been able to do so. Instead an environmental audit of the project was carried out in October 2018. This was meant to ascertain if the issues identified and the mitigation measures proposed in the report are relevant and if the EIS is adequate to guide the construction of the bridge. The audit afforded other technical department including the Department of Water Affairs and Sanitation, Water Utilities Corporation, Department of Forestry and Range Resources, Department of National Museum and Monument, Department of Wildlife and National Parks, Department of Waste Management and Pollution Control, Department of Mines and other regulators to participate in the compliance monitoring activities. The audit afforded the Department of National Museum & Monuments as the custodian of the convention, to include aspects which speaks to the impact on the OUV and integrity of the property as part of the audit protocol that was to be used for conducting the audit. The audit was carried out and a preliminary findings were shared with the consultant to address while awaiting a full report, which at the time of writing this report was not available.

## **Appendices**

## <u>Appendix 2 –</u> Okavango River Crossing Audit Protocol

Audit Date	14-16 August 2018
Audit Team Leader	Mr. Dikeme Kgaodi, DEA
Audit team members	DEA, DWMPC, Department of National Museum, Department of Occupational Health and Safety, DWA, DWNP, Labor, DHMTC- Gumare,
	Environmental Health

AUDIT ITEM	RECORDS TO BE CHECKED/EXAMINED EVIDENCE	COMPI WITH		PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
EMP Implementation	Examine the following records:	Yes	No	0-5	
<ul> <li>Verify if the EMP is readily available onsite.</li> <li>Examine the EMP Authorization.</li> <li>Who is responsible for implementation of the EMP?</li> <li>Verify that there is budget for EMP implementation.</li> <li>Verify availability of the Company's Environmental Policy. Does the policy recognizes the following environmental aspects: <ul> <li>Air emission</li> <li>Waste management</li> </ul> </li> </ul>	<ul> <li>following records:</li> <li>EIS/EMP</li> <li>EMP Authorization letter</li> <li>Environmental Officer Designation from HR</li> <li>EMP Implementatio n Budget from the Project</li> </ul>				
<ul> <li>Soil pollution</li> <li>Natural resource usage</li> <li>Hazardous and toxic material</li> <li>Impact on wellbeing (e.g. noise, smell, dust)</li> <li>Other environmental specific issues on site such</li> </ul>	budget				

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as housekeeping and safety. o Commitment to prevent pollution					
<ul> <li>Verify if employees have been inducted on environmental awareness.</li> </ul>	<ul> <li>Records of awareness workshop (attendance register)</li> </ul>				
AUDIT ITEM	RECORDS TO BE CHECKED/EXAMINED EVIDENCE		LIANCE I EMP	PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
		Yes	No	0-5	
Contractor's Camp					
Staff Houses	<ul> <li>DEA clearance</li> </ul>				
<ul> <li>General upkeep</li> <li>Signage</li> </ul>	cicaranee				
<ul> <li>Signage</li> <li>Containment of solid and liquid waste</li> </ul>					
o EMP					
<ul> <li>Fire management equipment</li> </ul>					
Fuel Point Facility					
<ul> <li>Permit from Department of Energy Affairs</li> </ul>					
<ul> <li>Water/oil Separator</li> </ul>					
o EMP					
<ul> <li>Fire management equipment</li> </ul>					
Workshop & Maintenance areas			-		
<ul> <li>Inspect the general workshop areas and verify</li> </ul>					



the following:	
<ul> <li>Signage at the workshop areas</li> </ul>	
<ul> <li>General upkeep of the workshop</li> </ul>	
<ul> <li>Containment of solid waste</li> </ul>	
<ul> <li>Containment and management of used</li> </ul>	
oil	
<ul> <li>Containment and management of metal</li> </ul>	
off- cuts	
<ul> <li>Presence of oil-water separators</li> </ul>	
<ul> <li>Fire management equipment</li> </ul>	
<ul> <li>Expiry dates</li> </ul>	
<ul> <li>Last date of maintenance</li> </ul>	
<ul> <li>Waste Management Plan</li> </ul>	Records of
<ul> <li>Verify if there are arrangement for waste</li> </ul>	awareness
collection	workshop
<ul> <li>Training and awareness on handling and</li> </ul>	(attendance
management of hazardous waste	register)
	Minutes and
	attendance
	register
	Records of
	Waste
	collector
<ul> <li>Solid Waste Management</li> </ul>	Records of
	Waste
	collector
	Evidence of
	recycling
<ul> <li>Sewage management facility</li> </ul>	activities

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<ul> <li>Disposal method</li> </ul>	6		
<ul> <li>Batching Plant</li> <li>General upkeep</li> <li>Signage</li> <li>Containment of solid and liquid waste</li> <li>EMP</li> </ul>	EIA clearance		

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<ul> <li>Environmental Management System</li> <li>Establish if SHE monitoring Committees have been set up</li> <li>Constitution of the committee</li> <li>Check if there are clear roles and responsibilities for the committee</li> </ul>	<ul> <li>Minutes and records</li> <li>Training and awareness plan</li> </ul>
<ul> <li>Ecology</li> <li>Fauna</li> <li>Request for baseline report</li> <li>Establish if workers have been sensitized about wildlife and general conduct</li> <li>Verify if the working area is secured?</li> <li>Check the following:</li> <li>Areas where animals can access the site.</li> <li>List of all fauna species and their IUCN status</li> <li>Wildlife sightings <ul> <li>Human wildlife conflicts incidents</li> </ul> </li> </ul>	reports and attendance register • Incidents Register (e.g. Wildlife mortality due to vehicle
<ul> <li>Flora</li> <li>Request for baseline report for flora in on site (both terrestrial and aquatics)</li> <li>Threatened and endangered species</li> <li>Observe the area for any Invasive species</li> </ul>	collisions) • Records of wildlife sightings • signage • inventory of

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threatened	and	endangered	flora species	<ul> <li>report</li> <li>on</li> </ul>	species	identification

BM Page 188

					PERFORMANCE	e
AUDIT ITEM		RECORDS TO BE CHECKED/ EVIDENCE	COMPLIANC E WITH EMP		RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
			Ye s	No	0-5	
	<b>Fire</b> Fire management strategy Dedicated staff for fire management	<ul> <li>Firefighting equipment</li> <li>Fire assembly point</li> <li>Records of fire drill/induction/ awareness</li> <li>Certificate of trained staff</li> </ul>	3			
	<b>chaeological Impact Assessment</b> Availability of an Archaeological Impact Assessment and Clearance	AIA report AIA Clearance				
	Awareness raising activities on identification of archaeological finds and the process	Attendance register for awareness meetings				
20	Availability of an archaeological Consultant	Report on the awareness activity				
191	Was there any chance finds discovered during some project activities?	HR records on engagement of a				
	What was the process followed during this encounter? What were the mitigation measures put in place to handle the	consultant Notification to DNMM				

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12 Te		<ul> <li>Signed quarterly reports</li> <li>Protocols</li> </ul>			
	with standard	<ul> <li>Field sheets</li> </ul>			
ſ	<ul> <li>Check for compliance</li> </ul>	- Held Sheets			
( F	<ul> <li>Verify if quarterly report are submitted to</li> </ul>				
	PECO and signed off				
	<ul> <li>Establish equipment used for onsite monitoring</li> </ul>				
	<ul> <li>Establish criteria used for choosing the sampling points</li> </ul>				
	<ul> <li>List of parameters monitored</li> </ul>				
	<ul> <li>Frequency of sampling (weekly and Monthly)</li> </ul>				
5	<ul> <li>Protocol for sampling</li> </ul>				
	meanous of sumpling				
	containers used for sampling		,		
S	moduling times for samples				
E E	storage for sumples				
	in an appoint a dot for barmpies				
	Determine methods used				
	<ul> <li>Laboratory analytical methods</li> </ul>				
5	STORWATER MANAGEMENT				
4	<ul> <li>Request for the plan for storm water</li> </ul>				
	management	<ul> <li>Plan</li> </ul>			
	<ul> <li>Establish Destination for storm water</li> </ul>	<ul> <li>Monitoring</li> </ul>			
~ !	<ul> <li>discharge</li> <li>Request monitoring records of the storm</li> </ul>	records			
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<ul> <li>Frequency of monitoring Methods used for monitoring</li> <li>Verify monitoring data</li> <li>GROUNDWATER MONITORING <ul> <li>Establish the monitoring borehole sites</li> </ul> </li> <li>AQUATIC LIFE <ul> <li>Request for:</li> <li>Baseline reports for aquatic life</li> <li>List of species residing in the system</li> <li>Incidents reports on aquatic life</li> <li>Frequency of monitoring</li> <li>Awareneos raising for staff working in the system</li> </ul> </li> </ul>	<ul> <li>diagram</li> <li>Monitoring reports</li> <li>Monitoring reports</li> <li>Map</li> <li>Baseline report</li> <li>Incident report</li> <li>Workshop proceedings</li> <li>Attendance register</li> </ul>				
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			 r	<u></u>	 	
<sup>a</sup> Soils	<ul> <li>Rehabilitation</li> </ul>					
	plan		*			
Where is top soil stored?	•		)			
How it the soil stockpile maintained?						
<ul> <li>Check the height of the stockpile.</li> </ul>						
				ĺ		
inspect the stockplied top soli and clieck top						
signs of erosion (Gullies).			,	***		
<ul> <li>Verify if top soil has been stored separately</li> </ul>						
from quarry waste material?			{			
<ul> <li>Verify if impacted areas are being</li> </ul>						
rehabilitated?						
<ul> <li>Observe discoloration of earth material</li> </ul>						
			}			
particularly around fueling points, generators,						
transformers, etc.				]		
Air quality			 	<u> </u>	 	
<ul> <li>Request for air quality baseline report</li> </ul>	<ul> <li>Baseline report</li> </ul>					
<ul> <li>Check air quality monitoring sites.</li> </ul>						
<ul> <li>Verify availability of dust suppression plan</li> </ul>	monenayru					
	quality			1		
(showing frequency and methods)	monitoring					
<ul> <li>Establish if there are any public complaints</li> </ul>	reports					
	<ul> <li>Complaints</li> </ul>					
	register					
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AUDIT ITEM	RECORDS TO BE CHECKED/ EVIDENCE		PLIANC TH EMP	PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
		Yes	No	0-5	
<ul> <li>Noise</li> <li>Request for noise baseline report</li> <li>Verify availability of ambient noise monitoring sites.</li> <li>Who undertakes noise monitoring?</li> <li>Check conformance of noise monitoring to available standards.</li> <li>Establish if there are no complaints related to the aspect</li> </ul>	<ul> <li>Noise Baseline report</li> <li>Monthly reports for Noise quality</li> </ul>				

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AUDIT ITEM	RECORDS TO BE CHECKED/ EVIDENCE	COMPLIANCE WITH EMP		PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
		Yes	No	0-5	
<ul> <li>Waste Management</li> <li>Specify where the different waste streams from the project are disposed.</li> <li>Has there been any waste awareness campaign conducted for workers?</li> <li>Is there evidence of waste separation at source?</li> <li>Verify if there are waste recycling/reuse initiatives?</li> <li>Ascertain measures put in place to reduce waste amount produced by the project.</li> <li>Are there measures to store general waste onsite?</li> <li>Is there evidence of general waste around the site?</li> <li>Is there evidence of general waste around the site?</li> <li>Is scrap metal stored in a properly constructed storage area?</li> <li>Is the storage area licensed as per the requirements of the DWMPC?</li> <li>Is used oil stored appropriately onsite?</li> <li>What is the final disposal for used oil?</li> <li>Observe the facilities for waste oil storage onsite.</li> </ul>	Waste disposal certificates Waste Records Minutes and attendance register				

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AUDIT ITEM	RECORDS TO BE CHECKED/ EVIDENCE	COMPI WITH Yes	 RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS) 0-5	FINDINGS/OBSERVATION
<ul> <li>Socio- economic issues</li> <li>Verify if there is a communication strategy available.</li> <li>Is the strategy detailed enough to involve a wide range of stakeholders?</li> <li>How many workers employed at the project are locals?</li> <li>Have locals been trained for required skills?</li> <li>How many locals have been trained?</li> <li>What is the procedure for hiring staff for different project operations?</li> <li>Are there deliberate measures for skills development of the employees?</li> <li>Are there any locals contracted to provide specific service for project?</li> </ul>	<ul> <li>Communica tion strategy</li> <li>Training records</li> <li>Employmen t records</li> </ul>			

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AUDIT ITEM	RECORDS TO BE CHECKED/ EVIDENCE	COMPLIANCE WITH EMP		PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
	· · · · · · · · · · · · · · · · · · ·	Yes	No	0-5	
<ul><li>Social Issues</li><li>Has there been any grazing land uptake by the</li></ul>	Work place policy				
project? Which components need to be fenced	Complaints register				
<ul> <li>Have there been registered complaints by the nearby communities regarding grazing land uptake?</li> <li>Are there any private properties that were resettled?</li> </ul>	Resettlement programme				
<ul> <li>Describe how the individual household cattle posts/ploughing fields were resettled.</li> <li>Has the company upgraded any infrastructure?</li> </ul>					
<ul> <li>How are access roads to the sites maintained?</li> <li>Does the Company have a workplace Policy?</li> <li>Is the Policy being implemented?</li> </ul>					
<ul> <li><u>Traffic Safety</u></li> <li>Are there observable road signage's along the</li> </ul>					
<ul><li>access road to the borrow pits?</li><li>Are there stipulated times for transportation of gravel material?</li></ul>					
<ul> <li>Are these times being adhered to?</li> </ul>			-		

■ AUDIT ITEM	RECORDS TO BE CHECKED/ EVIDENCE	CHECKED/ WITH EMP EVIDENCE		PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITICATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
		Yes No 0-5			
<ul> <li>Environmental Health &amp; Safety</li> <li>Risk of fire occurrences</li> <li>Check if areas with high risk of fire occurrence have been identified and profiled.</li> <li>Check availability of fire extinguishers.</li> <li>Check validity and adequacy of fire extinguishers.</li> <li>Check staff training on fire safety.</li> <li>Check for fire breakers especially for areas with highly flammable liquids.</li> <li>Check if fire extinguishers are appropriate for the type of fire to be extinguished.</li> </ul>					
<ul> <li>Risk of injuries</li> <li>Check for incident report</li> <li>Check availability of first aid kit</li> <li>Check availability of trained personnel</li> <li>Check if there is a Health and Safety Management System and emergency plan in place</li> </ul>					
<ul> <li>Personal Protective Clothing</li> <li>Check provision of PPE to all staff and frequency</li> <li>Check if there are measures in place to ensure effective usage of PPE</li> <li>Check if the PPE is appropriate for every operation</li> </ul>					

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AUDIT ITEM	RECORDS TO BE CHECKED/ EVIDENCE	COMPLIANCE WITH EMP		PERFORMANCE RATING (INTERMS OF IMPLEMATATION OF MITIGATIONS& EFFECTIVENESS)	FINDINGS/OBSERVATION
		Yes	No	0-5	
<ul> <li>Sanitary Conveniences</li> <li>Check if the sanitary facilities provided are adequate (toilets, Showers and wash hand basins)</li> <li>Check the status of repair</li> <li>Check for proximity of the sanitary conveniences in all operation areas</li> </ul>					

#### Audit team members

- 1. Mr Dikeme Kgaodi, DEA, Team leader
- 2. Mr. Jobe Manga, DEA
- 3. Paulus Matthys, DEA
- 4. Mr. Yamase Kabelo, DWMPC
- 5. Mr. Lesego Seakanyeng, DEA
- 6. Ms. Ivy Mogotsi, DEA



### <u> Appendix 2 – Preliminary Findings Letter</u>

### ENVIRONMENTAL AUDIT FOR THE OKAVANGO BRIDGE PROJECT

The above subject matter refers.

Following an environmental audit for the above mentioned event conducted by the Department of Environmental Affairs (DEA) from  $14^{\text{th}}$  to  $16^{\text{st}}$  August 2018 find below a list of preliminary findings (non-conformities) and recommendations by an audit team:

- 1. The EMPs and Authorizations are readily available onsite. However, there are no EMPs and authorizations for the Contractor's camp and Shakawe Burrow pit. This is a contravention of the Section 9 of EA Act for which the developer will be fined.
- 2. The environmental team responsible for implementation of the EMP is inadequate as evidenced by lack of specialists like Aquatic Biologist, Air quality, Hydrologist and Archaeologist e.t.c.
- 3. There is no Environmental Policy Statement.
- 4. No documentation of implementation of some EMP components.
- 5. Malfunction of the Waste Water Treatment Plant as evidenced by surrounding vegetation and overflowing plant.
- 6. Improper handling of chemicals as evidenced by chemicals stored on unbunded surfaces.
- 7. Lack of signage for designated areas.
- 8. The auditee has engaged unlicensed waste collection carriers for used cooking oil, scrap metal and clinical waste as evidenced by failure to produce licences.
- 9. There is no monitoring for flora and fauna. Most records presented under this aspect are questionable. E.g. quarterly reports for Jan- Mar 2018 signed by a newly appointed officer; Letter from DWNP dated 7<sup>th</sup> Aug 2018; Unsigned letter from DFRR.



- 10. Lack of staff induction and awareness raising conducted for archaeological chance finds and lack of chance finds reports.
- 11. Project activities are not aligned to International obligations, e.g. SADC Protocol, OKACOM (Strategic Action Plan), The Ramsar Strategic Plan 2016-2024 (ODMP).
- 12. Siting of some sampling points do not cater for possible pollution from project activities.
- 13. Results not presented in way that they are easy to interpret. Analysis of results done but lack interpretation.
- 14. Some key parameters not monitored, e.g. hydrocarbons, microbiology.
- 15. Inconsistency in sampling as evidenced by gaps in records, e.g. Nov- Dec 2017 and Jan 2018
- 16. Some vital environmental aspects/conditions not recorded in sampling as evidenced by absence of such in the Field sheet.
- 17. Most results in the water quality are above baseline but there is no deliberate action to investigate.
- 18. No baseline on cross section of the river. Water discharge also not measured (flow).
- 19. No Water levels gauges as evidenced by use of makeshift gauge.
- 20. No monitoring plan for sediment deposits.
- 21. Monitoring data is questionable as evidenced by recording of data in the presence of auditors.
- 22. Evidence of soil erosion from storm water trenches and there is no deliberate action to avert it.
- 23. Storm water drains into the flood plain without deliberate measures to trap sediments or test the water quality.
- 24. Monitoring station for BTEX impeded by soil stockpile.
- 25. Dust suppression plan unavailable.

- 26. Dust suppression done for some areas but lacks in key areas where there is heavy plant.
- 27. Lack of noise monitoring at source for noisy machinery. Monitoring reports unavailable save for May 2017.
- 28. Complaints registers kept but there are no complaints registered.

The audit team recommends that the following be undertaken;

- a) Developer is instructed to submit a corrective plan for the malfunctioning WWTP within 7 days from today.
- b) Developer should consider engaging the services of the following personnel for implementation of the EMPs (archaeologist, aquatic biologist, air quality specialist e.t.c)
- c) Develop records management procedures to aid management of environmental management records.
- d) Data must be analysed and interpreted.
- e) There must be consistency in monitoring parameters
- f) Developer must align project activities to multi-lateral agreements.
- g) Commence aquatic life (flora and fauna) monitoring forthwith.
- h) Engage licensed waste collectors for scrap metal, used oil and clinical waste and ascertain final disposal destination.
- i) Undertake cross sectional survey and monitor the parameters.

Note the Department is working on the draft audit report which will be distributed in due course.

Thank you.



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## STATE OF CONSERVATION REPORT

## OKAVANGO DELTA WORLD HERITAGE SITE BOTSWANA (N1432)



## SUBMITTED BY THE GOVERNMENT OF THE REPUBLIC OF BOTSWANA

February 2022

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#### **1. EXECUTIVE SUMMARY**

This report on the state of conservation of the Okavango Delta World Heritage Property is in response to the decisions adopted during the Extended  $44^{\text{th}}$ Session of the World Heritage Committee, **44 COM 7B.80** held in Fuzhou, China on 16 – 31 July 2021. The State Party was further required to submit an update on reports pertaining to Recon Africa oil and gas exploration within the Cubango-Okavango River Basin for examination at the next meeting of the 45th Session by the World Heritage Committee.

The State Party through the Permanent Okavango River Basin Water Commission (OKACOM), has undertaken to ensure that detailed Environmental Impact Assessments are conducted prior to any major developments. Furthermore, the State Party is cognisant that any development in the Cubango-Okavango River Basin (CORB) leading to unsustainable water abstraction or pollution could impact on the Outstanding Universal Value (OUV) of the Okavango Delta World Heritage Property.

The revised Okavango Delta Management Plan was submitted in July 2021. This presents an important opportunity to ensure that the protection of the OUV of the Property. The ODMP also provides for management strategies in order to maintain the ecological integrity of the Property, including wildlife management, control of invasive alien species, monitoring of mining activities and climate change as well as integration of traditional resources use for livelihoods, user access and cultural rights as requested by the Committee.

The State Party is fully supportive of the effective transboundary cooperation between Angola, Botswana and Namibia on the management of the shared waters of the Cubango-Okavango River Basin. In June 2019, the State Party of Botswana with the support of the UNESCO World Heritage Centre hosted a technical meeting to advance this discussion. The tripartite meeting led to the adoption of an Action Plan to take forward the transboundary initiative and recommended the establishment of a Steering Committee to facilitate its implementation.



The Okavango Delta Transboundary Committee includes representatives from the three State Parties of Angola, Botswana and Namibia, and observers from UNESCO World Heritage Centre, African World Heritage Fund (AWHF), Kavango Zambezi Transfrontier Conservation Area (KAZA TFCA), Permanent Okavango River basin Water Commission (OKACOM) as well as International Union for Conservation of Nature (IUCN).



#### 2. INTRODUCTION

The Okavango Delta, located in the north-west of Botswana was inscribed as the 1000<sup>th</sup> World Heritage Site in Doha, Qatar in June 2014 under the natural criteria; (vii), (ix) & (x). The Okavango Delta World Heritage Property, guided by the Okavango Delta Management Plan (ODMP) is one of the very few vast, natural, scenic inland deltas in the world.

Since the last state of conservation report submitted in November 2020, consultations have been held with key stakeholders among them; Department of Environmental Affairs (DEA), Department of National Museum & Monuments (DNMM), Department of Mines (DoM), Department of Wildlife and National Parks, Permanent Okavango River Basin Water Commission (OKACOM), Kavango–Zambezi Trans-frontier Conservation Area (KAZA), Okavango Research Institute (ORI), the North-West District to address issues and recommendations raised by the WHC Decision 42 COM 7B.89.

The State Party acknowledged the conclusion of the World Heritage Centre and Advisory Bodies (IUCN), which stated that although the ODMP of 2008 provided a management framework for the area, it pre-dated the property's inscription in the World Heritage List. The Okavango Research Institute (ORI) was consequently engaged to review the Okavango Delta Management Plan (ODMP) in 2019. Funding towards the review of the plan had been provided through UNESCO International Assistance to the amount of USD 27, 080 (270,000 Botswana Pula). The State Party also availed funds amounting to USD 54,000 (Botswana Pula 540,000) towards the review. The revised management plan has since been completed (2021-2027).

The State Party acknowledges that many of the ODMP prescriptions have not been implemented, and the institutional arrangements for its implementation have proved to be ineffective, hence the revised plan. The issues and recommendations raised by the WHC Decision 42 COM 7B.89 among them; integration of wildlife monitoring protocols in the systematic wildlife monitoring programme, management effectiveness, control of



invasive alien species, mining activities, climate change, access, governance as well as cultural rights and benefits have been addressed in detail by the revised Okavango Delta Management Plan of 2021-2027.

Through the OKACOM structures, the three riparian states of Angola, Botswana and Namibia are working closely to ensure that any proposed major developments within the Okavango watershed which may adversely impact the OUV of the property are subject to detailed Environmental Impact Assessments in conformity with IUCNs World Heritage Advice. One of the important milestone in addressing this issue is the completion of the development of guidelines for 'Assistance to implement the SADC Protocol on shared watercourses by the Permanent Okavango River Basin Water Commission's Member States' Focus: Notification and Prior Consultation of Planned Measures According to Article 4(1) of the SADC Revised Protocol.

Significant progress has also been made in addressing the World Heritage Committee recommendation to conduct a Strategic Environmental Assessment (SEA) for the Cubango-Okavango River Basin. The State Party has put in place measures geared towards the control and management of invasive alien species to ensure that they do not compromise the integrity and Outstanding Universal Values of the Okavango Delta World Heritage Property. The State Party further acknowledges the impact that the newly developed Okavango River Bridge may have on the integrity and potential impact on the OUV of the Okavango Delta World Heritage Property.

In addressing the issues raised by the World Heritage Committee on the prospecting within the buffer zones of the Okavango Delta World Heritage Property, the State Party continues to monitor mining activities to ensure that they do not impact on the OUV of the Property. Currently there are no prospecting licenses in the core zone and negotiations with companies holding prospecting licenses within the buffer zone have been concluded. In this regard, it has been agreed that the company, Gcwihaba Resources (Pty) Ltd will relinquish all the prospecting licenses within the buffer zone.



### 3. RESPONSE TO THE WORLD HERITAGE COMMITTEE DECISION 44 COM 7B.80

This report serves to address the issues and recommendations raised by the **WHC Decision 44 COM 7B.80** that requested Botswana to submit an updated report on the State of Conservation Report of the Okavango Delta World Heritage Property. The response to the various comments, observations and concerns are thus addressed under this section of the report:

#### The World Heritage Committee,

#### 3.1 Having examined Document WHC/21/44.COM/7B;

Document WHC/21/44.COM/7B is hereby acknowledged by the State Party of Botswana.

# 3.2 Recalling Decisions 38 COM 8B.5 and 42 COM 7B.89, adopted at its 38th (Doha, 2014) and 42nd (Manama, 2018) sessions respectively;

The State Party of Botswana is fully aware of previous World Heritage Committee Decisions concerning the management and ideal conservation of the Okavango Delta World Heritage Property in its pristine nature, as well as to ensure the continued Outstanding Universal Values of the Property.

3.3 Warmly welcomes the increased cooperation between the States Parties of Botswana, Angola and Namibia through the Permanent Okavango River Basin Water Commission (OKACOM), in particular the initiation of the process to conduct a comprehensive Strategic Environmental Assessment (SEA) in order to assess impacts of developments in the Cubango-Okavango River Basin (CORB) at the strategic level and at the landscape scale, as was requested by the Committee, and the development of a basin-wide Environmental Monitoring Framework; The three State Parties of Angola, Botswana and Namibia have noted the importance of undertaking the Strategic Environmental Assessment (SEA) for the Cubango-Okavango River Basin (CORB) as



noted by the World Heritage Committee **Decision 44 COM 7B.80.** This as it is observed will not only address the requirements of the World Heritage Convention but address the responsibility that OKACOM has in delivering its mandate related to the sustainable utilization of the resources of the CORB. Therefore, OKACOM has initiated a process to develop the CORB- Strategic Environmental Assessment (SEA).

Noting the fact that, the CORB is undoubtedly receiving developments, and these come in different forms and carry varying externalities with a potential to affect the sustainability of the basin, OKACOM commissioned a Strategic Environmental Assessment (SEA) for the Okavango-Cubango River Basin (CORB). The SEA will therefore, guide the placement of infrastructural developments given the sensitivity of the receiving environment.

3.4 Encourages the State Parties of Angola, Botswana and Namibia on their initiative to review the feasibility of a Transboundary or nation-wide extension of the property to include key areas of the CORB, which would contribute to a better protection of the Outstanding Universal Value (OUV) and in particular the integrity of the property;

The draft CORB-SEA and related reports (Water demand forecasting methodology and 10-year water demand forecasting for the CORB; Socio-economic Monitoring Framework for the Cubango-Okavango River Basin (CORB; and Transboundary EIA Guidelines) is on its final stages of review by the Technical Reference Group (TRG). It is anticipated that the TRG will meet on the 7 March 2022 to deliberate on the revised SEA documents. Once the reports have been cleared and approved by the TRG, a consensus and awareness building regional workshop will be organized for stakeholders to dialogue and appreciate its content and subsequent implementation. As such, it is anticipated that the final CORB-SEA will be complete by the end of May 2022.



3.5 Reiterates the importance of an adequate protection of the CORB to ensure the long-term survival of the property and considers that any development in the watershed, which would lead to significant water abstraction or pollution, has a high potential to impact the OUV of the property;

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The Permanent Okavango River Basin Water Commission Agreement (OKACOM) of 1994 has been ratified by the three riparian member states of Angola, Botswana and Namibia. The Commission was established to guide three Member States on matters relating to the conservation, development and utilization of water resources of common interest to the Member States. Specifically, the Commission determines the long-term safe yield of the water available from all potential water resources in the Basin; the reasonable demand for water from consumers in the Basin; and develop criteria for the conservation, equitable allocation and sustainable utilization of water resources in the Okavango River Basin.

The Okavango River and the Okavango Delta, are part of the larger Cubango-Okavango River Basin and hence promotion of regional dialogue, understanding of member states of the need to conserve water, and coordinated interventions for sustainability of the Delta are very important. The OKACOM subscribes to the principles of Integrated Water Resources Management (IWRM) in the Okavango River Basin (ORB). OKACOM is currently facilitating the development of an Integrated Water Resources Management Plan for the Cubango-Okavango River Basin. The plan will go a long way ensuring IWRM principles are enhanced within the ORB.

3.6 Expresses concern about the granting of oil exploration licenses in environmentally sensitive areas within the Okavango river basin in northwestern Botswana and northeastern Namibia that could result in potential negative impact on the property in case of spills or pollution;

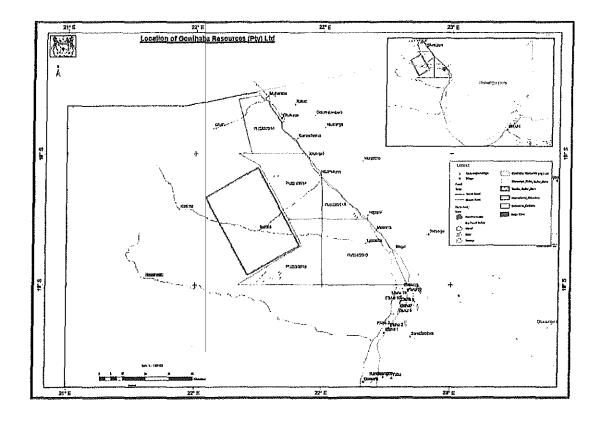
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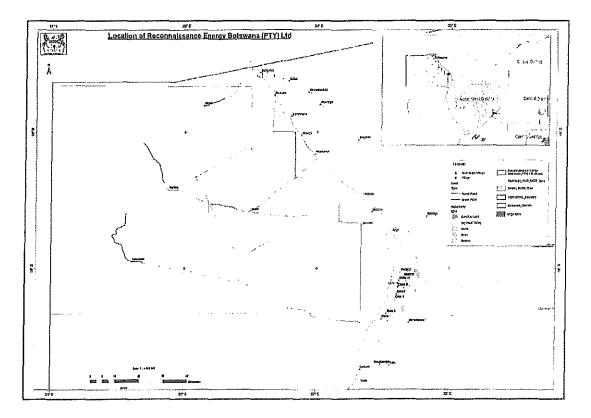
The Government of Botswana, hereby acknowledges, the concerns raised by the World Heritage Committee over the granting of oil exploration licence issued to Reconnaissance Energy Botswana (Pty) Ltd within the Okavango River basin and the likely potential negative impact on the Okavango Delta World Heritage Property in case of spills and pollution.

The State Party, would like to express that the current exploration licence is outside of the buffer and core zones of the Okavango Delta World Heritage Property and that of the Tsodilo Hills World Heritage Site which are within the prescribed Okavango River Basin. Notwithstanding, the ORB is regarded an environmentally sensitive area. Therefore, rigorous and critical Environmental Impact Assessment is a prerequisite to any intrusive development in the area. Furthermore, the State Party commits to ensuring and monitoring of any future prospecting and mining activities within the ORB and will continue the engagement of Angola and Namibia on the management of the shared waters of the Cubango-Okavango River Basin.

Table 1: maps showing the locations of the Reconnaissance Energy Botswana (Pty) Ltd and the Gcwihaba (Pty) Ltd exploration permits around the Okavango Delta World Heritage Property (Department of Mines).

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3.7 Urges the States Parties of Botswana and Namibia to ensure that potential further steps to develop the oil project, which include the use of new exploration techniques, are subject to rigorous and critical prior review, including Environmental Impact Assessment (EIA) that corresponds to international standards, including an assessment of social impacts and a review of potential impacts on the World Heritage property, in line with the IUCN World Heritage Advice Note on Environmental Assessment, and requests that all such assessments are submitted to the World Heritage Centre, for review by IUCN;

The State Party of Botswana acknowledges the World Heritage Committee's concerns to ensure that potential steps needs to be undertaken prior to the development of the oil project, including the use of new exploration techniques are subjected to a rigorous and critical prior review, that includes the conduct of a rigorous EIA, that complies to the best international standards. Such an EIA will also include a rigorous Social Impact Assessment of communities living within the confines of the Okavango Delta World Heritage Property. The State Party hereby commit to avail such studies for review by IUCN before approval.

The State Party will continue working with key stakeholders among them; Department of Environmental Affairs (DEA), Department of National Museum & Monuments (DNMM), Okavango Research Institute (ORI) to address issues and recommendations raised according to best international practices. This will be done in line with best resources governance principles of accountability, responsibility and transparency including consultation with the interested and affected communities in the area in question.

3.8 Appreciates the efforts to revise the Okavango Delta Management Plan (ODMP) and its submission to the World Heritage Centre, and also requests the State Party to finalise the plan following IUCN's review;

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The Okavango Delta Management Plan (ODMP) was initially developed following the Okavango Delta being declared a Ramsar Site in 2008. Key developments that took place post 2008 include the listing of the Okavango Delta as a World Heritage Site (WHS) in July 2014. The inscription necessitated the revision of ODMP to align with the requirements of the World Heritage Convention.

The World Heritage Site listing, together with other post 2008 emerging issues and new threats (such as mining, upstream and downstream developments and increasing land-use and human-wildlife conflicts) that may impact the socio-ecological integrity of the ODRS, now a Multi-Internationally Designated Area (MIDA), motivated for the review of the 2008 ODMP. Furthermore, the ODMP mid-term review (MTR), completed in 2014, also highlighted and recommended key issues that were overlooked in the 2008 management plan development and implementation. Some of these issues include climate change, gender, and emerging stakeholder voices such as the youth in the management process of the ODRS.

The revised Okavango Delta Management Plan (ODMP) will guide management and use of the Okavango Delta MIDA landscape for the next seven years, effective 2021. The State Party is happy to announce that the ODMP has since been completed. The review exercise conducted by the Okavango Research Institute (ORI) of the University of Botswana followed a four-staged process being, i) inception, ii) scoping, iii) draft revised plan and iv) the final plan.

3.9 Also appreciates the on-going efforts to control invasive alien species that threaten the ecological integrity of the property, and further requests the State Party to include control strategies and a comprehensive monitoring plan in the revised ODMP;

The State Party acknowledges the observation by the World Heritage Committee for the continued ecological control measures set in place for the alien invasive species within the Okavango Delta World Heritage Property. The State Party reaffirms its position to have control measures of the alien invasive species in the newly revised Okavango Delta Management Plan of 2021-2027.

The most common alien invasive species in the ODRS is the freefloating water fern Salvania molesta (Mochimbama). It occurs mainly in the eastern parts of the Delta and is kept under control by the introduced weevil Cyrtobagous salviniae. The control is effective but lags plant growth in the cool winters when mats can form. Salvinia control has been in place in the form of the host-specific biological weevil, <u>Cyrtobagous salviniae</u> Calder and Sands. <u>Cyrtobagous salvinia</u> feed on Salvinia molesta leaves senescence leading to sediment litter formation, leaching/release of tissue nutrients and changes in physical-chemical properties of water during the course of Salvinia bio control are observed.

An array of activities to control Salvinia are undertaken including monthly new infestation surveys and biological control weevil establishment through sampling and assessment. There are 56 Salvinia monitoring sites in the lower Okavango Delta. Salvinia control has been thoroughly established in all infested sites to ecologically acceptable levels. The aim of the biological control program is not to eradicate the weed, but to reduce abundance to the level where it no longer causes a problem. Small residual mats of Salvinia will continue to harbor the weevils so that if regrowth of Salvinia occurs as a result of favorable conditions with sufficient nutrients, control agents can build up rapidly to restore control. The weed may cover most of the channel sides and vegetation make it difficult when applying biological agent.

#### **Current Status:**

New Salvinia infestation along the Boro channel was observed in June 2020 that originated from Nxaraga lagoon, the technical aspects of

weed control has been ongoing until to date, the thick mats coverage has been reduced significantly as the result of the introduced biological control, monitoring of the new infestations revealed that the biocontrol weevil has established all the way to Boro Buffalo Fence and control has been achieved.

Salvinia infestation in the Abaqao/Mborogha River system has increased between Camp Okavango and Txaba. Unfortunately, monitoring is hindered by aquatic blockage and vegetation encroachment. Control strategies are implemented to augment the weevils in these river systems. There has been significant decline in mat coverage in Maunachira River System, which indicates Salvinia control effectiveness.

All the other sites monitored in the core zone have abundant number of weevils as determined by scientific methods. Therefore, it indicates that biological control progress in the Salvinia infestations has been under constant progress and maintained in most of the core and buffer zones of the Okavango Delta World Heritage Site.

#### Salvinia Control

For stakeholders' engagement on aquatic weeds control, joint Salvinia monitoring programme has been proposed for in-house breeding of Salvinia weevils at some of safari operators and trusts after finalizing and signing of Memorandum of Understanding (MoU). Training of Safari Camps staff and Trusts on Salvinia biological control on breeding forms part of MoU. The involvement of stakeholders besides control of Salvinia will benefit some lodges as they use it as part of sightseeing, environmental education.

The ecotourism businesses and riparian communities have benefitted and secured enormously from the control of Salvinia weed in the Okavango Delta. Complaints of difficulty in navigating the streams due to thick blockage of Salvinia mats, for tourism recreation and other activities continue to be received. Notwithstanding the above stated

situation, sustainable monitoring of Salvinia has improved considerably and several pools and lagoons are accessible to wildlife for water use.

3.10 Also recalling that veterinary cordon fences create a major impediment to wildlife migrations, expresses its concern that an EIA has not yet been undertaken in this regard, and reiterates its request to the State Party to continue efforts to rationalize veterinary cordon fencing, removing them when possible;

The State Party acknowledges the concerns raised by the World Heritage Committee in regard for the need to rationalize the issue of cordon fences around the Okavango Delta World Heritage Property as they turn to inhibit the free movement of wild animals across zones. The State Party further acknowledges the concerns of the World Heritage Committee that to date an EIA has not yet been undertaken to inform the rationalization excise.

The State Party is happy to inform the World Heritage Committee that an EIA was conducted for Veterinary Fences in Ngamiland in 2000. The EIA recommended the rationalization of some fences in the District, that included the taking down of some fences, others to be maintained while others were to be built. The Department of Veterinary Services has as such taken down 35 km of the fence from the Okavango Delta core area. Furthermore, another EIA for the Protection Zone between Hainaveld and Communal Grazing Area is ongoing and it is at Draft Final Stage.

It is very important to note that the issue of cordon fences is by no small measure a simple matter. It is true that cordon fences on the one hand tend to inhibit the free movement of wild animals as they tend to cut some of the natural animal corridors. On the other hand, cordon fences are used in Botswana to separate wild animals from both human settlements and domestic animals. Cordon fences around the Okavango Delta are used as an example to separate buffalos from domestic animals. Buffalos are known to be carriers of the much dreaded foot and mouth disease that can ravage the entire cattle stock.

It is also wildly publicised that the issue of human-wildlife conflict is very prevalent in the Greater Okavango Region. Elephants are known

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to kill people in relatively unacceptable levels in the District, while predators such lions, hyenas and cheetahs constantly kill domestic animals as they come in close contact with human settlements. The community around the area constantly puts government under pressure to establish new fences, or at least maintain the existing ones. It is upon this background that Government is under tremendous to do a balancing act to accommodate the varying interests.

The State Party is pleased to announce that the Department of Agriculture has since taken a decision to rationalize some cordon fences in the District. As an example, the Northern Buffalo fence will be removed all the way to Xhoroma area, with the option to cattle vaccinate three times per year to control the Foot and Mouth disease. In addition, fence from Xhoroma to Kilo 70 along the Botswana-Namibia will be removed to aide free movement of animals in the area. However, from Kilo 70 to Mohembo East the fence will be maintained to prevent stray animals into the Namibian side as there is a high cattle concentration in the area. Further, the Samochima fence all the way to the Namibian border will be taken down to ease free movement of animals. The Border fence between the current corner Samuchima-Namibia to corner Ikoga/Namibian Border will be maintained to separate domestic animals from wild animals.

The above scenario demonstrate State Party's commitment to rationalize the issue of cordon fences where possible, and to maintain these where it is impractical not to do so.

### 3.11 Also reiterates its requests to the State Party to:

a) Complement the EIA for the Mohembo bridge project with a specific assessment of the potential impacts of the construction and use of the bridge and the road on the property's OUV, and submit it to the World Heritage Centre for review by IUCN,

The state party acknowledges the concerns of the World Heritage in regard to the development of the Okavango River Bridge, commonly referred to as the Mohembo Bridge, and its potential impact on the

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Outstanding Universal Values of the Okavango Delta World Heritage Property.

However, the State Party hereby reports that the Okavango River Bridge construction project is at a final stage of completion. The State Party further indicates that the initial Environmental Impact Assessment for the project was conducted in 2009. This was well before the Okavango Delta was inscribed as a World Heritage Property, therefore outdated, lacking sufficient and adequate relevant assessment of potential impacts of the project on the Outstanding Universal Value of the property.

Botswana understands the importance of the property not only for the ecological maintenance but also to the sustenance of local communities' livelihoods. The State Party is happy to report that the proponent of the project, Ministry of Transport and Communication, through the Department of Roads has developed and implemented complementary assessment of impacts to the initial EIA through the following instruments;

- Monitoring of Environmental Compliance and Implementation of Mitigation Measures during the Construction of the Okavango River Crossing Bridge in Mohembo Village.
- Specialist Baseline studies report intended to be used to monitor the impact of the bridge to the bio-physical environment including;
- Air Quality Sampling Requirement, Methodology and Baseline Study.
- Baseline Noise Monitoring Report.
- Surface Water Baseline Report.
- Ground Water Baseline Report

Furthermore, the state party informs the World Heritage Committee of the Environmental Audit undertaken by the Department of Environmental Affairs in collaboration with relevant institutions in August 2021. This was a follow up on the 2019 Audit Report that was



appended to the 2020 Okavango Delta State of Conservation Report that was submitted to the World Heritage Committee.

b) Submit the results of the 2019 aerial wildlife surveys to the World Heritage Centre and set up a regular monitoring programme of wildlife populations using the 2019 data as a baseline,

The State Party acknowledges the comment by the World Heritage Committee in relation to the submission of the latest Aerial Wildlife survey to be used as a baseline data. The State Party wishes to make correction that the Aerial Wildlife Survey that was referred to in 2020 Okavango Delta State of Conservation Report was that of 2018 and not 2019.

Background to this process is that the Department of Wildlife and National Parks (DWNP) has been conducting aerial surveys since the early 1980s. In 2010, 2014 and 2018, a Botswana-based Non-Governmental Organization, Elephants Without Borders (EWB), conducted aerial surveys, most recently in conjunction with the DWNP. The most recent population estimates are thus from the 2018 survey, which covered northern Botswana, not just the Okavango Delta. Estimates for large, gregarious animals are likely to be more accurate than those for smaller-bodied and solitary species.

The population survey was done during dry season, July to October 2018 on elephant and other wildlife species in the northern Botswana. A total area of 103662 km2 was covered that consist of the following: Moremi Game Reserve, Chobe National Parks, their surrounding Wildlife Management Areas (WMAs), Makgadikgadi and Nxai Pan Parks, Pastoral areas in Ngamiland and Chobe and Central District. It is important to note that the 2018 aerial survey was the expansion of the 2010 and 2014 of Michael Chase aerial survey, where the new strata was added south of the Okavango Delta near Maun and west of Makgadikgadi National Park including the southeast Ngwasha/Sepako near Zimbabwe border.

The survey was done to estimate population for elephant and other wildlife species. Secondly the survey in addition to numbers, mapped the spatial distribution of the said species including the baobabs trees, large birds and livestock going to the extends of showing trends in wildlife population. During this census the area was divided in 69 strata that included the WMAs and protected areas. The table below shows the summary of the population estimation for elephant and other wildlife species.

Species	Estimate	Std error	Density
Elephant	126114	5054	1.22
Breeding herd	105469	4837	1-02
Bull	20645	1097	0.2
Other Herbivores			
Buffalo	28 534	0	0.28
Duiker	303	66	0.003
Eland	2098	544	0.02
Gemsbok	3302	720	0.03
Giraffe	8343	587	0.08
Hippo	13232	1015	0.13
Impala	77694	3884	0.07
Kudu	7473	521	0.85
Lechwee	88584	4845	0.03
Reedbuck	2620	227	0.01
Roan	833	138	0.03
Sable	2872	799	0.03
Sitatunga	875	85	0.01
Springbok	120	52	0.001
Steenbok	1561	217	0.02
Tsessebe	3650	384	0.04
Warthog	5723	403	0.06
Waterbuck	993	182	0.01

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Wildebeest	99317017	3788	0.16
Zebra	60170	9247	0.58
Predators			
Hyena	91	36	0.001
Birds			
Bateleur	1079	117	0.01
Fish eagle	2242	131	0.02
Ground hornbill	438	86	0.004
Ostrich	3429	427	0.03
Pelicans	6423	2731	0.06
Saddle billed stork	552	62	0.01
Vulture	6474	954	0.06
Wattled crane	1373	211	0.06
Livestock	······································		
Cow	128936	8292	1.24
Goat	51035	6132	0.49

The elephant population was found to be increasing as compared to 2014 survey with elephant movement observed occurring across the strata. The elephant carcasses were observed during survey. There was clear indication of fresh carcasses indicating freshly suspected poached elephants. Going further to confirm carcasses on the ground, 79 carcasses were confirmed where 80% were suspected poached. The following places were listed as hotspots NG 11/12/13, NG 15/18/19, area around Maun and NG42.

Other species counted like Lechwee has recorded highest number ever in Northern Botswana. The hippopotamus population was found increasing significantly including Reedbuck, Sitatunga, Fish eagles and Wattle cranes comparing to 2014 survey. Notable Sable and Saddle billed stork were found decreasing as from 2014. On trees 569 baobab trees were counted during the survey and were classified in different categories e.g. age and effect of damages.



c) Take measures to ensure that all wastewater generating facilities in the property comply with national wastewater pollution standards and avoid any effluent disposal methods that could impact the OUV of the property, ensuring regular monitoring of water quality.

The State Party of Botswana take note the observation by the World Heritage Committee that it is imperative to put measures in place to ensure that all wastewater generating facilities within the Okavango Delta World Heritage Site comply with national wastewater pollution standards.

Improper disposal and management of solid and liquid waste were identified as one of the concerning practices by the 2008 Okavango Delta Management Plan. Several interventions to address this problem were recommended being:

- Engaging the private sector licensed by Department of Waste Management and Pollution Control (DWMPC) to collect and dispose of both liquid and solid waste.
- Ensuring that tour operators comply with provisions of waste management as contained in their lease agreement;
- To construct a landfill in Gumare:

The lease agreements of tour operators did not make it mandatory on them to comply with the Waste Management Act and North West District Council (NWDC) waste management guidelines. However, this failure to adopt the recommendation should not be a cause for concern as the provisions of the Waste Management Act are legally binding. Department of Waste Management and Pollution Control is legally empowered to act against any operator, individual or entity violating the law. Further, NWDC acting under the Trade Act has the authority to inspect, ensuring compliance with environmental and public health laws. The revocation of a trade license, issuing of a fine, or both are some of the measures available.

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#### Water Conservation

Water conservation and demand management initiatives continue to be implemented within the core zone of the delta. These include the use of water efficient fixtures and reclamation of wastewater by tourism establishments. Reclaimed water is used for landscape irrigation and indirect recharge of aquifers.

#### **Pollution Control**

Surveillance of tourism establishments generating wastewater within the Okavango Delta is undertaken throughout to safeguard water resources from threats of pollution. A total of seven (7) facilities within the core zone were inspected and the effluent quality for all but one were not in compliance to Botswana standard for environmental discharge (BOS 93:2012- Wastewater-Physical, Microbiological and Chemical Requirements-Specification) and best wastewater management practices. Nonetheless, continual efforts are being made through surveillance exercise. environmental audits and education/awareness to encourage a shift to safer methods of effluent disposal.

#### Water Quality Monitoring

A total of 24 monitoring sites (figure 1) in the Okavango Delta with 9 sites located in the core are monitored on quarterly basis following the Okavango Delta Systematic Monitoring program by the Department of Water Affairs. The systematic water quality monitoring tracks changes in freshwater quality by providing reliable scientific data and enable apt decision making on the water resources consummate with ecological conditions, water resources protection and restoration. The water quality of the core zone as such remains in a pristine state with all the water bodies depicting good ambient water quality. However, this is despite threats from anthropological activities within the Okavango delta and especially those emanating from the tourism sector.

# 4. OTHER CURRENT CONSERVATION ISSUES AFFECTING THE OKAVANGO DELTA WORLD HERITAGE SITE:

Notwithstanding the above discussed conservation issues as raised by the World Heritage Committee, the State Party do recognize other conservation issues that affects the Okavango Delta World Heritage property. It is the State Party's considered opinion that if not well managed or mitigated, some of these issues have the potential to affect the Property's Outstanding Universal Values, as well as to affect its integrity and authenticity. Some of these factors are discussed below to elucidate the above observation:

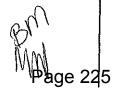
a. Climate Change: Studies have revealed some changes in the physical environment and ecosystem effects of the delta including variation and reduction in hydrological flow; changes in sediment dynamics; water quality, abundance, and distribution of biota; channel distribution. The changes are driven by a combination of factors including climate change, population dynamics, land use change and poverty. The 2008 ODMP noted that "The combined water resources developments with climate change have the most severe impact on the Delta". The report further noted that scenario testing involving water extraction plans and climate change predictions revealed that these factors, particularly climate change, will reduce the value of the ODRS. Some of these changes may affect animal distribution. For example, large mammals such as the lechwe are sensitive to the degree of flooding in the delta. Similarly, these observed changes in the delta are a threat to riparian communities' livelihoods, rendering them more susceptible to the effects of climate change.

Changes in the physical environment observed by participants in the Kgotla consultation meetings during the recent Review exercise of the Okavango Delta Management Plan of 2021, include decline in the availability of veld products, over population or declined population of some animal species, land degradation, dry tributaries, and vegetation destruction. The communities raised concern that wild fruits such as

Mokapana (African horned cucumber or Cucumis metuliferus), Moretlwa (wild berry, Grewia flava) Motsentsela (bird plum, Berchemia discolour) are no longer available due to competition from elephants and baboons who feed on them. Some grass species such as Bojang jwa Dipitse (Adrenaline grass, Vetiveria nigritana) are also reported to be extinct in some areas such as Kauxwi. Residents also observed that while elephant's population has bloated over time, wildcat populations have declined, and those of lions, hippos, crocodiles, and buffalos have increased. For instance, the residents of Ditshipi settlement on the edge of the Okavango Delta claimed that hippos and crocodiles that were relocated to their area following the drying up of the Thamalakane river in Maun have now become a menace as witnessed in the destruction of mekoro (dugout canoes) by hippos.

Residents in the consulted villages during the Review of the Okavango Delta Management Plan, also raised concern that overpopulation of elephants affects the ecosystem balance such that some small game have disappeared due to vegetation destruction; some protected species such as the baobab plant species have been destroyed; and other economic sectors such as hand-crafts have been affected due to the destruction of reeds by the elephants. Loss of natural appeal in protected areas is also exacerbated by developments comprising accommodation facilities, use of generators for power supply and lighting.

Most of the tributaries of the Okavango River were also reported to have run dry. Examples include the Sankuyo river which is said to have dried up due to the blockage of the Mogogelo tributary, whose flow was last recorded in 1978/9). The community, however, ruled out climate change as the main cause and believe that the river flow was interfered with when authorities were attempting to arrest the spread of Salvinia molesta at Mogogelo. Another tributary which is said to have dried up is one known as 'mogobe wa Makoba' along Savuti-Gobatshaa. According to the residents, the drying up of the river and its tributaries has led to birds'



migration. High prevalence of invasive species was also raised as a concern.

b. Covid-19 and Tourism Vulnerabilities: Another factor that has the potential to negatively affect conservation and ultimately the Outstanding Universal Value of the Okavango Delta World Heritage Property is the recent outbreak of the Covid 19. The outbreak of the Novel Coronavirus (SARS-CoV-2) commonly known as 'COVID-19' has negatively impacted on most sectors of the economy with the tourism and hospitality industry being one of the hardest hits. The imposition of travel restrictions to curb the spread of the virus has resulted in low tourism demand and a downward spiral of international arrivals. Due to restrictions imposed, the tourism sector has suffered great losses as borders remained closed for a good part of the year 2020. Consequently, the local tourism sector has been trying different strategic interventions as a way of adapting to the rapid changes. One of the notable adaptation attempts is the promotion of domestic tourism through reduced pricing of up to 70% for citizens. By late-October 2020, Botswana was one of the 93 destinations (43% of all global destinations) that still had their borders completely closed to international tourists (UNWTO, 2020a).

Travel restrictions due to COVID-19 resulted in the collapse of the sector with some hotels in the country operating at 10% capacity. COVID-19 has resulted in the loss of jobs due to the collapse of some businesses. As a result of the loss of business, many tourism facilities have laid-off workers. In the context of Botswana, some tour operators and related establishments had put their workers on paid and unpaid leave and others' wages have been reduced. A preliminary study by the HATAB showed that the sector experienced huge financial losses, with some hotels operating at less than 10% of their capacity by mid-March 2020. By April 2020, of the 26 000 workers employed in the tourism sector, only 300 were at work mainly working in facilities offering quarantine services for COVID-19 and related patients. Only those facilities contracted by the



government to provide accommodation for essential services personnel and mandatory quarantine were able to remain afloat, make reasonable earnings and retain some of their employees.

The surge in advertisements offering "affordable rates" aimed at attracting citizens and residents to patronise the normally out of bounds luxury tented camps in the Okavango Delta has shown the importance of expanding the domestic tourism base. It is critical to observe that price reductions come at a cost because that will require a change in policy from high value-low volume to low cost-high volume which may have negative impacts on conservation of the Okavango Delta World Heritage Site if left unchecked. Therefore, the changes adopted by various operators to remain operational during COVID-19 and beyond should be done within the parameters of sustainable tourism development in a manner that does not jeopardise the integrity of the natural environment and temper with the pristine aspect of the Okavango. Studies are hopefully still to be done to establish the impact of this change on conservation strategy.

Low tourism activities during the height of the Covid 19 Pandemic is also suspected to have significantly facilitated increased poaching activities, which in turn could affect the Outstanding Universal Value of the Okavango Delta. Reduced numbers of people within the Okavango Delta core area, either as tourists or employees of the various tourism establishments could have enabled poachers to have a field day. Furthermore, less revenue from tourism activities may lead to communities having less interest to conserve the Okavango Delta ferociously as they did before because of less economic benefits.

COVID-19 has also highlighted the need to diversify Community Based Organizations revenue away from both consumptive and nonconsumptive tourism. This is critical to ensure that they are insulated from the volatility of the sector. The hunting ban has previously shown that the dependence of communities on tourism and related activities is

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not sustainable. COVID-19 is merely highlighting a reality that the communities have been living with for the past 5 years.

c. Poaching: Poaching continues to be one of the major threats to the integrity and OUV of the Okavango Delta World Heritage Site. The most targeted animal species are the elephants. Botswana is home to approximately a third of the global population of African elephants, which are under huge poaching pressure throughout most of their range. The population in Botswana is therefore vital to the survival of the species, but there is a growing opinion that the pressure exerted by such a large population of elephants could be having detrimental effects, particularly on large tree species. Elephants de-bark and knock over adult trees, while browsing on younger individuals, thereby reducing recruitment rates and preventing replacement of adults. This could have severe consequences for other species that rely on large trees, and for the functioning of the Okavango Delta overall, which requires large trees to filter nutrients and concentrate salinity into islands, thereby maintaining low salinity in the waters of the Okavango. Ideally, the large elephant population in Botswana could be spread out over the Kavango-Zambezi landscape through restored connectivity between protected areas in neighbouring countries, but these movement routes are currently disrupted by human activities, including developments and poaching pressure.

Another animal species that is under eminent threat is the rhino. Rhino population numbers are never presented, since they are sensitive data. Two organisations have been working with Department of Wildlife and National Parks (DWNP) and Botswana Defence Force (BDF) to monitor and protect rhinos. Rhinos without Borders, supported by Great Plains and Beyond safari operators, imported approximately 70 white rhinos into Botswana when poaching was lower in the Okavango Delta than elsewhere in the rhino range.

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Rhino Conservation Botswana has been assisting the government with collaring and monitoring rhinos, including having multiple monitoring patrols on the ground that work with BDF and DWNP. In the last five years, rhino poaching has escalated, with most of the black rhino population being poached for their horns and the remainder evacuated out of the Okavango Delta to private reserves with higher security. White rhinos are also being poached at a high rate, such that rhinos will be locally extinct in the Okavango Delta MIDA landscape within a few years if poaching continues at its current rate.

In recent years, Botswana has taken a decision to dehorn all rhinos to reduce their appeal, but this has not had the desired effect, since the small amount of horn left by the dehorning procedure is still worth a large amount of money. The 2019 drought opened access to poachers since there was less water in the delta to hinder them, and the Covid-19 pandemic greatly reduced tourism activities in 2020, so fewer people were moving around in the concessions and poachers have been less deterred and detected. BDF, DWNP, RWB and RCB have maintained their presence, including using aerial and ground patrols to monitor rhinos and respond to any carcasses located.

# 5. DEVELOPMENT PROJECTS PLANNED WITHIN THE OKAVANGO DELTA WORLD HERITAGE SITES AND ITS ENVIRONS

The State Party is happy to announce that there are no major ongoing projects at the core area, nor the buffer zone of the Okavango Delta World Heritage Property. This is partly owing to the fact the core area of the delta is relatively inaccessible and not suitable for any major infrastructure developments. For the most part of the year, the core area is flooded with swampy water and marsh. The various tourism facilities dotted around the delta are mostly accessed using small air crafts, tour safari vehicles and carved dug out wooden boats known as *mekoro* in local languages. It has been Government position that no permanent infrastructure developments are allowed within the core area of the Okavango Delta World Heritage Property.

The dotted tourism facilities found at the core and buffer zones of the Okavango Delta World Heritage Property are encouraged to construct their tourism facilities using semi-permanent structures such as the use of wooden materials, the use of canvas tent materials, and the use of natural building materials such as wooden logs and grass thatch.

The above being the case, one notable major project taking place around the Okavango Delta World Heritage Property, but outside the buffer zone is the Maun Water and Sanitation Networks Project. The project is implemented by the Ministry of Land Management, Water and Sanitation Services through the Programme Management Office (PMO). The project entails the upgrading of Maun Water and Sanitation Networks to meet the village's water and sanitation requirements. The project comprises of water supply source development, transmission, treatment, storage and distribution, as well as upgrading of the rudimentary and dilapidated sewerage infrastructure in Maun to meet the village demand up to the year 2030.

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It is important to note that the project is currently underway. The project was preceded by a detailed EIA, and EIA consultants are on the ground to ensure the smooth implementation of the project.

Report prepared and submitted by

Ann

Stephen Mogotsi

**Director - Department of National Museum and Monuments** 

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# Annexure 1: Audit Report for Construction of Bridge Over Okavango River at Mohembo

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**Republic of Botswana** 



# Construction of Bridge Over Okavango River at Mohembo

# Report on Audit of 18 – 19 August 2021

As per Section 19 of the Environmental Assessment Act (No 10 of 2010) (CAP 65:07)

# Department of Environmental Affairs

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## Acronyms

- AIDS Acquired Immunodeficiency Syndrome
- BEAPA Botswana Environmental Assessment Practitioners Association
- BEAPB Botswana Environmental Assessment Practitioners Board
- BOBS Botswana Bureau of Standard
- BOS Botswana Standard
- DEA Department of Environmental Affairs
- DWNPC Department of Waste Management and Pollution Control
- EAPB Botswana Environmental Assessment Practitioners Board
- EIA Environmental Impact Assessment
- EMP Environmental Management Plan
- HIV Human Immune Virus
- 1&APs Interested and Affected Parties
- SHE Safety, Health and Environment
- WTP Wastewater Treatment Plant

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# Participants

## Audit Team

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## **Executive Summary**

#### Background

The Mohembo Bridge is developed to link the area East of the Okavango River in Botswana's North West District. The project commenced on 2018 and is set to complete in late 2021. As of August 2021, the project was 96% complete. Key components of the projects are the Bridge and approach roads, Contractor's Camp, and four Burrow Pits.

Given the complexity (magnitude) of the project, as well as the area's environmental sensitivity, it is key that all development be guided by environmental sustainability principles. Key to this is the Environmental Assessment Act, which mainstreams various socioeconomic and biophysical aspects.

#### Audit Approach

To assess the compliance level and identify opportunities for improvement, an audit activity was undertaken by a multisectoral team on the 18<sup>th</sup> and 19<sup>th</sup> of August 2021. The audit involved documentation review, site inspections, as well as interviews with relevant parties. All components deemed to be essential were assessed, the period 2018 to present.

#### Findings

The key findings were that the environmental performance of the project was largely compliant, with records being maintained for various aspects. The staffing was present, though proven to be inadequate. Although there was no evidence of ecological degradation and the management thereof appeared satisfactory, the absence of monitoring thereof was a concern. Similarly of concern was the absence of an archaeologist.

An absence of an authorisation and license for the Waste Treatment Plant were similarly raised as findings as they constituted noncompliance by the project.

#### Conclusion

The project is generally compliant to the provision of environmental related instruments save for comprehensive monitoring of environmental aspects.

#### Recommendations

- Within 21 days, demonstrate plan towards establishing changes that may have been brought by the project by monitoring changes in the economic status, crime rate, health before close of the project.
- Demonstrate a plan towards progressive realisation of systematic collection of ecological data within 21 days.
- Initiate application process for Environmental Authorisation and Licensing of Wastewater Treatment Plan within 21 days.
- Demonstrate conscious effort towards deliberate consideration of archaeological finds monitoring of Burrow Pits within 21 days.
- Within 21 days, demonstrate plan towards progressive realisation of Land Reclamation for Shakawe, Samochima and Shakawe Burrow pits -taking into consideration neighbouring land uses.
- Develop a comprehensive, budgeted decommissioning and rehabilitation program with timelines, with specific revegetation plan of relevant components sites such as burrow pits.

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# 1 Project Background

Following a desire to connect the area on the East of the Okavango River in the North West District of Botswana, a permanent, all-weather, safe and 24-hr crossing structure was proposed. Such a structure would enable the steady supply of goods and services to communities on the Eastern side of the river, and ultimately be an economy enabler in the Eastern Panhandle.

The components of the ensuing structure would be would be a cable-stayed bridge, including an approach road, the contractors' camp, asphalt plant, waste treatment plant, and cement batching plant. The bridge is envisaged to measure 1.161km with a complementary approach road of 3.0km.

The location of the site is 18°16'22.1"S 21°47'43.9"E, 200m downstream of the Mohembo East Ferry landing site. Additional components are the burrow pits at 18°27'19.7"S 21°53'59.9"E, 18°21'53.5"S 21°49'44.9"E, 18°20'01.9"S 21°40'03.3"E, and 18°19'15.4"S 21°54'30.6"E. Villages within the impact area of the project are Samochima, Shakawe, Mohembo West, Shaikarawe, Mohembo East, Kauxhwi, and Xakao.

The Project is being implemented by the Ministry of Works and Transport, under the Department of Roads (TB NO. 9/5/152/2001-2002). The contract amount is P 1,045,510,751.77, while the contractor is ITINERA/Cimolai JVP. The engineer is CPP Botswana (Pty) Ltd. The project commenced on 8 November 2016. It was initially set to end on 7 July 2019, while the revised completion date is late 2021. In mid-August 2021, the project was reportedly 96% complete.

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# 2 Audit methodology

With an understanding of the environmental impact that a project of this complexity and magnitude would have, an audit was undertaken on 18 - 19 August 2021 with the aim of establishing the project's environmental compliance level. This was additionally motivated by the setting of the project location, which has key ecological sensitivity, as well as a sensitive socioeconomic aspect. A previous audit had been conducted from 14 to 16 August 2018 although only the preliminary findings were communicated (dated 23 August 2018).

## 2.1 Scope

The temporal extent was primarily on the period since 2018, although several issues extended further back due to the absence of a previous final audit report.

The spatial extent covered all the core components, and included the sensitive receptors, primarily being the neighbouring homesteads, main river channel and associated floodplains. The project components covered during the audit were;

- 1. Bridge and approach roads
- 2. Contractor's Camp
- 3. Asphalt Plant
- 4. Cement Batching Plant
- 5. Waste Treatment Plant
- 6. Burrow Pits
  - a. Samochima
  - b. Shakawe
  - c. Shaikarawe
  - d. Xakao

A pre-audit was done on the 3<sup>rd</sup> and 4<sup>th</sup> of August 2021. Full-audit was done on the 18<sup>th</sup> and 19<sup>th</sup> of August 2021.

### 2.2 Proceedings

The pre-audit meeting was preceded by a rapid test for the Corona-virus Disease of 2019 (COVID-19) on all team members. All members tested negative.

A pre-audit meeting was held at the contractor's seminar room and attended by the client, as well as engineer's environmentalists, the contractor's environmentalist as well as the audit team. Details of the audit team are in an earlier section of the current report. A safety briefing was done at the contractor's Safety Health and Environment (SHE) officer.

The audit commenced with a review of documentation as availed by the environmentalists following earlier communication from the audit team. Interviews with the auditee team were conducted to seek clarification where deemed necessary.

The second stage was that of Site Inspections and Observations for verification of records and independent assessment thereof. Interviews with neighbouring homesteads was done in addition to seek independent perceptions on some of the identified issues.

To streamline the audit, the following key components were identified for audit

- 1. EMP Implementation 9. Workshop and Maintenance areas
- 2. Ecological aspect monitoring 10. Liquid Waste Management
- 3. Archaeological findings management 11. Solid Waste Management
- 4. Social Impact monitoring 12. Water Monitoring
- 5. Occupational Health monitoring 13. Solid Monitoring
- 6. Burrow Pit management 14. General air-quality Monitoring
- 7. Access Roads management 15. Dust Monitoring
- 8. Contractor's Camp management 16. Noise Management

*Definitions*: in reporting the results from and audit, the following terms are key; compliance, noncompliance, and observation. A <u>compliance</u> reflects that the requirement in a documented condition has been met. A <u>noncompliance</u> refers to a failure to meet any of the specific requirements of the condition. Observation reflects a failure to meet nonspecific requirements of a condition.

The closure meeting was attended by the same attendants as the pre-audit meeting. In spite of a desire to involve decisionmakers at this stage, this did not come to be. The purpose of this meeting was to provide preliminary findings. Though a desired component, an assessment on the improvement since feedback from the previous audit.

Although systematic, an audit is a sampling exercise and purports by no means to apply to areas that were not actively audited, the conclusions drawn, therefore, pertain strictly to the sampled aspects. Furthermore, the results are only valid at the time of the audit.

Key noncompliances raised during the 2018 audit were;

- 1. No EMP and authorisation for (1) Contractor's Camp and (2) Shakawe Burrow Pit,
- 2. Absence of aquatic life specialist and archaeologist,
- 3. No environmental Policy Statement,
- 4. No documentation on implementation of some EMP components,
- 5. Malfunctioning of Waste Treatment Plant,
- 6. Surface of chemical storage facility was not bunded,
- 7. Lack of signage for designated areas and labelling of items,
- 8. Engagement of unlicensed waste collection carriers for used cooking oil, scrap metal and clinical waste,
- 9. Inadequate monitoring of ecological aspects,
- 10. Lack of staff induction or awareness raising on archaeological matters,
- 11. Improper placement of pollution sampling points,
- 12. Lack of monitoring of hydrocarbons and microbiology during water monitoring,
- 13. Inconsistency in the timing of sampling for water-quality,
- 14. Lack of mitigation despite evidence of noncompliant water quality,
- 15. Invalid measurement of water levels,
- 16. Absence of sediment-deposit monitoring,
- 17. Lack of mitigation for soil erosion from storm water trenches,
- 18. Lack of mitigation for sedimentation from storm water trenches,
- 19. Lack of mitigation for contamination from storm water trenches,
- 20. BTEX monitoring station impeded by soll stockpile, and
- 21. Unavailability of dust suppression plan.

# 3 Key legislation

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## 3.1 Laws of Environmental Relevance

Table 1. List of laws of relevance, indicating salient provisions

Act	Sector	Key Sections
Environmental Assessment Act (No 6 of 2005) (Cap. 65:07)	Environmental Management	Section 14
Environmental Assessment Act (No 10 of 2010) (CAP 65:07)	Environmental Management	Section 6(3) -Authorisation Section 12(1)(a) - Authorisation Section 19 -Audit
Monuments and Relics Act (CAP 59:03)	Historical Artefacts	Section 12 –Notification of discoveries Section 9 –Pre-development Archaeological Assessment
Air Pollution (Prevention) Act (CAP 65:03)	Air Quality	Air quality management
Waste Management Act (1998) (CAP 65:06)	Waste Resources Management	Part 5, Section 13 –Waste Carrier License Part 6, Section 16 –Waste Facility License
Fish Protection Act (No 42 of 1975) (CAP 38:04)		
Water Act (CAP 34:01)	Water Resources Management	Sections 27 and 35 abstraction
Aquatic Weeds (Control) Act (1971) (CAP 34:04)	Water Resources Management	Regulation 5 - Boat registration
Wildlife Conservation and National Parks Act (CAP 38:01)	Management of Faunal Species	Fauna management
Tribal Land Act (CAP 32:02) ()		Surface Rights Way leave
Forest Act (CAP 38:03) (1968)	Management of Floral Species	Management of protected flora species
Herbage Preservation Act (CAP 38:02) (1977)	Management of Floral Species	Veldt-fire management
Public Health Act (CAP 63:01) 1971)	Human Health	General health
Road Traffic Act (CAP 46:05)	Road	

Mineral Rights in Tribal Territories (CAP 66:02)	Extraction	
Mines and Minerals (CAP 66:01)	Extraction	Prospecting License Section 52 –Minerals Permit Closure Certificate
Labour and Employment Act	Labour	Employment

## 3.2 Conventions that apply to the area/project

The two Conventions apply to the area; 1. Ramsar Convention on Wetlands of International Importance (1971), and 2. Convention Concerning the Protection of World Cultural and Natural Heritage – World Heritage Convention. Both these Conventions are given effect to by the Okavango Delta Management Plan (2021). Other Conventions are the Convention on Biological Diversity and the UNESCO Convention for the Safeguarding of the Intangible Cultural Heritage.

**3.3 Compulsory Standards** 

BOS 498:2012 Ambient air quality-Limits for common pollutants

BOS 93:2012 2<sup>nd</sup> ed. Wastewater – Physical, microbiological and chemical requirements-Specification

BOS 575:2013 ed. 1 Maximum permissible limits for environmental noise

3.4 Agreements that apply to the area/project

The Permanent Okavango River Basin Water Commission (OKACOM)

3.5 Plans that apply to the area/project

National Development Plan 11 (2017-2023)

North West District Plan 8 (2017-2023)

Okavango Delta Ramsar Site (ODRS) Strategic Environmental Management Plan (2012)

Okavango Delta Management Plan (2008).

Ngamiland District Integrated Land Use Plan (2009)

Okavango River Panhandle Management Plan

## 4 Findings

## 4.1 EMP Implementation

This aspect deals with the Environmental Management Plan (EMP) implementation and compliances to the provision of Environmental Assessment Act and associated regulations, licenses, permits and regulations. It is important to note that the Environmental Impact Statement for the bridge is dated and some activities being implemented by the auditee are additional to the initial EMP.

This aspect assessed whether all the components that required authorisations as per section 9 of the EA Act. Additionally, the authorisations were assessed to determine whether the authorisations were still within their validity period. The components that had been identified to require environmental authorisations were;

- 1. Bridge
- 2. Contractor's camp
- 3. Samochima Burrow Pit
- 4. Shaikarawe Burrow Pit

Licenses were required for

- 1. Burrow Pit operations
- 2. Burrow Pit Way leave
- 3. Pontoon registration
- 4. Waterway rights

- 5. Shakawe Burrow Pit
- 6. Xakao Burrow Pit
- 7. Waste Treatment Plant
- 8. Cement Batching Plant
- 5. Waste carrier licenses
- 6. Mining permits
- 7. Water abstraction

Components such as burrow pits, contractor's camp, batching plant, waste water treatment plant etc. were expected to be assessed ahead of the implementation. The auditee availed Environmental Authorization and mining permits for; Xakao Burrow Pit, Samochima Burrow Pit, Shakawe Burrow Pit and Shadikekete Burrow Pit. Furthermore, there is an Authorization for the Construction of the bridge and the Asphalt Plant. There was, however, no evidence of an environmental authorization for the contractor's camp and batching plant.

As for the acquisition of licences, all burrow pits are licensed by the Department of Mines while the Wastewater Treatment Plant is operated without a licence.

Out of 9 main components, only six (6) has Authorizations/EIA clearance or licenses. Letters for Burrow Pits and the Bridge availed. Components which were deemed to be operating without environmental authorisations were thus determined to be; Wastewater Treatment Plant (WTP) and Contractor's Camp, which had neither Environmental Management Plans nor authorisations.

Notably, this issue of licensing the WTP has been raised during the previous audit, and continued to prevail regardless.

Summary Finding	Rating
Few components remain unauthorised	Partially compliant

## 4.1.1 Budget for EMP

There is no evidence of a specific budget intended to implement the EMP. However, a budget for the implementation of individual components of the EMP including Environmental Protection, Health and

Safety, HIV/AIDS Awareness and Prevention have been provided for at the beginning of the project. Yearly breakdown of the required funds, assessment adequacy including expenditure was not availed.

Summary Finding	Rating
Budget available for various component, but	Partially compliant
yearly breakdown not available	

## 4.1.2 Contractor awareness of EMP content

There is no evidence that employees are made aware of the contents of the EMP, save for the Code of Conduct of 2015. Note that this Code of Conduct excludes EMPs done post 2015.

Summary Finding	Rating
Employee sensitization of EMP content not	nancompliant
done	

## 4.1.3 Contractor awareness of authorization conditions

There is no evidence of inclusion of the EMP implementation between the auditee and the subcontract. The only evidence produced is the Code of Conduct that dates 2015, thereby not adequate as it leaves out EMPs authorized post 2015. There is no evidence of documents that verifies that the Contractor and subcontracts service agreements bears implementation of the EMP as part of such contracts.

Summary Finding	Rating
Sub-contractor sensitization of post-2015 EMP	Partially compliant
content not done	

## 4.1.4 Responsibility for implementation of all EMPs

The project has two (2) Environmental Officers, one for the consulting company, otherwise known as the Engineer, responsible for the supervision of the project while the other is with the construction company, responsible for the implementation of Environmental issues and EMPs.

There auditee failed to produce specific Job description for the implementing Environmental Officer save for those that are stated within Code of Conduct, but the Environmental Control Officer presented the contract with clear Job descriptions.

Summary Finding	Rating
Specific Job-description for the implementing	Partially compliant
Environmental Officer not available	

## 4.1.5 Availability of Community Relations Officer

There is no specific community liaison officer, rather Human Resources Officer and environmental officers are said to be sharing responsibility of the community liaison officer.

Summary Finding	Rating
Role of dedicated Community Relation Officer	Partially compliant
delegated to other representatives	

## 4.1.6 Code of Conduct

There was Code of Conduct between the developer and the Contractor. However, there was no evidence of an evaluation of implementation.

Summary Finding	Rating
Though Code of Conduct available, evaluation	Partially compliant
of implementation thereof not done.	

## 4.1.7 Timely and regular submission of monitoring reports

There was a satisfactory compliance with the approval conditions pertaining to the submission of monitoring reports. Independent checks with the competent authority reflected a regular submission of monthly reports from the contractor and quarterly reports from the engineer.

Summary Finding	Rating
Monthly reports submitted regularly as per	Complians
approval conditions	

## 4.2 Contractor's Camp

The components audited in the Contractor's camp were the Fuel Bay, Washing Bay, and Storage Facility. The camp was generally well-kept, with a few littering instances along walk ways and the chemical storage. Furthermore, dust suppression within the camp was observed. There was presence of wellserviced fire extinguishers though the expiry date was not visible on others, as the date was said to be affected by exposure to direct sunlight.

There are two (2) fuel storage bays, each with a capacity of 14000 m<sup>3</sup>. Each bay holds 28 000 m<sup>3</sup> of fuel. There was no sign of seepage around the wall, except for the used oil. Discoloration of top soil was observed at the used oil storage facility. Oil/water separators were identified at the Wash Bay, Fuel Bay and the Workshop Area.

## 4.2.1 Workshop and Maintenance Areas

Discoloration of soil due to oil spillage was observed at the used oil storage facility around the workshop. Generally, the upkeep was found to be clean, save for walk ways and the storeroom where litter and unwanted material were spotted. There is adequate provision for containment and storage of solid waste awaiting collection. Management of used oil is generally acceptable, however there are few areas that need improvement particularly collection time and prevention of spillages.

The area was well secured and maintained adequately. Oil separators provided and in operational state. Fire management plan was in place. Adequate Fire extinguishers were strategically placed within the camp have been provided, maintained and well displayed. Fire drills are conducted on routine basis.

There are records for servicing of fire extinguishers and the stickers for expiring dates are displayed. Signage was provided and adequate for in around the workshop and maintenance area, these include Labels, no smoking signs, warning alerting signs. However, there were instances where fire extinguishers were found without visible identification signs.

There was not much spillage around the workshops except where used oil was being stored. Emergency response plan was place as evidenced by document number HSE-013 even though there were no evaluation reports.

Summary Finding

Rating

## 4.3 Socioeconomic Aspects

There was no evidence of monitoring of the project impact to the health systems, improvement of livelihoods and economic activities even though there are activities directly contributing to the three aspects.

## 4.3.1 Employment

Employment statistics records presented categorised citizens and non-citizens. It also provided a breakdown by age, gender, and skill category as verified by Job Creation Monitoring tool. According to the records, out of 491 employees 458 (93.3%) are citizens while 33 are non-citizens; 431 (87.8%) are males and only 60 account for females.

It was reported that unskilled employees are recruited locally through village structures, particularly Kgotla, however there was no evidence of how many employees recruited actually reside from the project catchment areas.

Summary Finding	Rating
Recordkeeping and evaluation of employment	Partially compliant
creating actively done, slight improvement	
required.	

## 4.4 Corporate Social Responsibility

The auditee failed to account for the amount of money used for corporate social responsibilities, these records were being kept with the Headquarters offsite. However, there were a number of recorded activities that the project contributed to the local communities including;

- 1. Donation of 200 chairs to Samochima Primary School,
- 2. Donation of Stationery to Mohembo Primary School, 3. Development of young professionals on scaffold assembly.

Summary Finding	Rating
Evidence of Corporate Social Responsibility	Not rated

### 4.4.1 Health impact

There was no monitoring of impact of the project to the local health system, increase or decrease in communicable diseases such as HIV/AIDS in relation to the baseline.

Summary Finding	Rating
Health impact not being actively monitored.	noncompliant

## 4.4.2 Employer/Employee dispute resolution

There was no evidence of employer/employee dispute resolution procedure. There is record of disputes as authenticated by Complaints log from 2017-2021 amounting to 55 complaints.

Summary Finding	Rating	
	and the second second second second second second second second second second second second second second second	

No evidence of employer/employee dispute	nancompliant
resolution procedure	

#### 4.4.3 Displacement of people and Compensation

The list is within the land expropriation Report and the number of displaced people stands at 18 people and were compensated with money amounting to P1,492,655.50

Summary Finding	Rating
Recordkeeping actively done on Displacement	çûmpilant.
and Compensation of people	

#### 4.4.4 Public complaints

The complaints register was presented to the audit team; however, it was not discernible how most of complaints were resolved.

Summary Finding	Rating
Public complaints register maintained, but	Partially compliant
complaint resolution not clear therefrom.	

### 4.5 Occupational Health

The project employs SHE officers and Job Descriptions were clearly documented. It was observed that all employees have been provided the Personal Protective Equipment (PPE). There is a PPE issueregister that indicates 2 piece overall.

Signage has been adequately provided around the site informing, alerting and warning about the danger in the area. Incidents/accident records were availed as evidenced by Incident captive tool/register Document number HSE-6765-090 recorded from 17/08/2017 to 30/07/2019.

Fire Management Strategy in place and evidence presented to the audit team. There also exists a Fire Management Strategy.

As mentioned under section 4.4.1 of this report, records on HIV/AIDS prevalence are not clear; the Auditee presented HIV/AIDS report that do not bear clear dates and systematic reporting. The report contained statistics for 2016/2017, while recent years were missing.

Risks were identified and documented as evidenced by Document number HSE-6765-018.

Health facilities were available on site, and these included an on-site clinic and ambulance.

There was evidence of undertaking of occupational and safety awareness-raising as authenticated by toolbox meetings minutes/report and attendance register.

Emergency response plans and procedures is well documented and verified through

- 1. Document number HSE-013 INCIDENT/ACCIDENT.
- 2. Reporting and investigation procedure document number HSE-PRO-6765-093.
- 3. Working near or overwater procedure Document number HSE-PRO-6765-002.
- 4. Fall rescue plan Document number HSE-6765-130.
- 5. Fall protection plan Document number HSE-6765-103.

- 6. Working in confined space procedure Document number HSE-PRO-6765-013.
- 7. Lifting Operation procedure Document HSE-PRO-6765-011.

Summary Finding	Rating
Recordkeeping on various Occupational Health	ใต้กฎพิธิก
and Safety actively and systematically done	

#### 4.6 Burrow Pits

#### 4.6.1 Access control (personnel)

During the site inspection, no personnel were available on site. It was communicated that the presence of security personnel was guided by extracting/hauling activities as the main responsibility was recordkeeping. Given the risk of unauthorised access which would lead to other noncompliances, this was an undesirable state of affairs. The challenge that was raised about providing round the clock security was the safety from wildlife.

Finding	Rating
no personnel were available on site	mincompliant

#### 4.6.2 Access route

Access routes were clearly demarcated.

Finding	Rating
Access routes were clearly demarcated.	Comptant

### 4.6.3 Fence integrity

; l

The Shakawe and Samochima burrow pits were fenced using a 1.5m grid fence. This was considered a commendable standard as it was largely animal proof. Given that these burrow pits were in the centres of livestock/wildlife area, the provided fences were deemed to be reasonably useful. The integrity of the fence needs attention/maintenance. Access, livestock which would lead to conflict with neighbouring land users. No fence was observed around the Shadikekete Burrow Pit.

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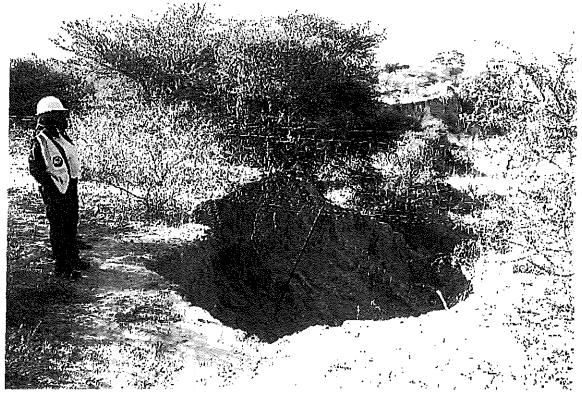


Figure 1. Gulley encroaching into fence at Samochima Burrow Pit

Summary Finding	Rating
Where available, fencing was of commendable	Partially compliant
standard, although maintenance required.	

#### 4.6.4 Signage

Signage was reportedly confined to times when there were activities as signs were reportedly frequently stolen. During the audit, signage was available along the tarred road closest to Shakawe Burrow Pit (see Figs 5).

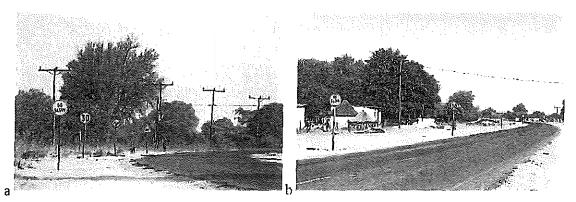


Figure 2 Signage near Shakawe Burrow Pit

## 4.6.5 Slopes

The rehabilitation programme varied largely amongst the burrow pits;

• At Samochima, the banks were steep and unrehabilitated. Given the excavated depths, the servitudes were likely inadequate for rehabilitation.

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- At Shakawe, there was evidence of backfilling which would presumably address the rehabilitation issue.
- At Shaikarawe, the rehabilitation was reportedly complete and the auditee was awaiting a closure certificate from the Mining Department. Although this might be deemed adequate by mining standards, it was concluded to be inadequate as will be detailed later in this report.
- At Xakao, the South Western banks had been thoroughly rehabilitated, while the North Eastern
  areas remained steep, unrehabilitated and close to project boundaries. Notably, the excavation
  resulting in steep slopes went right up to the graveyard fence -risking undesirable occurrences
  in the event of a bank collapse.

Finding	Rating
Evidence of rehabilitation effort available, but requires conscious attempts to make rehabilitation adequate	Partially compliant

## 4.6.6 Containment of solid waste

General upkeep in terms of solid-waste containment was above average.

Finding	Rating
General upkeep satisfactory save for isolated	Partially compliant
incidents	

#### 4.6.7 Containment of liquid waste

Mobile toilets were on available on site. There was no evidence of improper management.

Finding	Rating
Mobile toilets were on available on site.	compliant

#### 4.6.8 Decommissioning plan

In spite of decommissioning underway for some of the burrow pits, there was no specific decommissioning plan availed for any. Of key concern is the Shakawe Burrow Pit, which is less than 25m from the nearest household. Given the movement of haulage trucks and backfilling exercise, there is need to specifically and deliberately plan of the environmental impact of the decommissioning exercise.

Finding	Rating
no specific decommissioning plan availed for	noncomplian
any burrow pits	

#### 4.6.9 Pre-decommissioning structural assessment

An assessment of structures neighbouring the burrow pit and along the access road was availed. However, this seemed to be dated as it was from 2017. There was thus need to establish a specific decommissioning plan.

Finding	Rating
Comprehensive structural assessment	Partially compliant
available, albeit dated	

## 4.6.10 Neighbouring homesteads complaints register Complaint report available. However, some reports were seemingly not registered.

Finding	Rating
Complaint report available. However, some	Partially compliant
reports were seemingly not registered.	

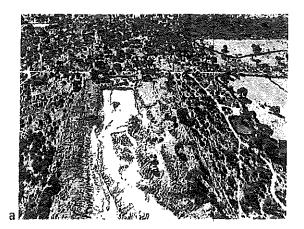


Figure 3 Aerial view of Burrow Pits at Samochima



Figure 4 Aerial view of Xakao Burrow Pit showing adjacent floodplain and ploughing fields

## 4.7 Waste management

### 4.7.1 Liquid waste

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Sewage from the contractor's camp was treated using an onsite WTP. Details of the design were not known to the environmentalists. The facility is not licensed in spite of requirements of the Waste Management Act and recommendations of the previous environmental audit.

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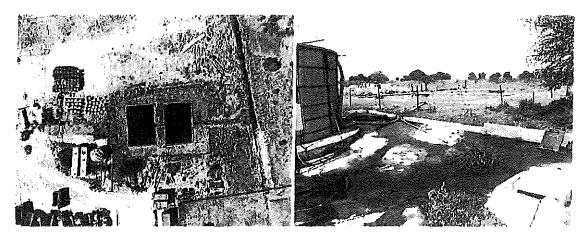


Figure 5 Aerial view of the Wastewater Treatment Plant



Figure 6 Wastewater Treatment Plant

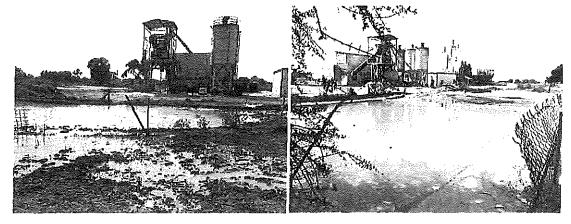


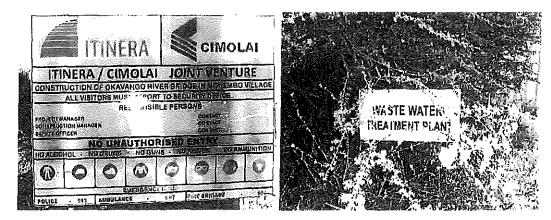
Figure 7. Liquid waste management at Cement-batching Plant

Finding	Rating
The facility is not licensed	Partially compliant

# 4.7.2 Signage

No signage at chemical storage facility, no demarcation, no access control. Poor signage (

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#### Figure 8. Signage at WTP

Finding	Rating
No signage at some points	Partially compliant

### 4.7.3 Monitoring of effluent quality

Effluent quality monitoring is commendable

Finding	Rating
Monitoring of effluent is commendable	constant

# 4.7.4 Comparison effluent quality BOS 93:2012

Effluent quality monitoring is commendable

Finding	Rating
Effluent quality monitoring is commendable	Continue
4.7.5 Sampling points Sampling	

# points

Finding	Rating
Sampling points	compliant

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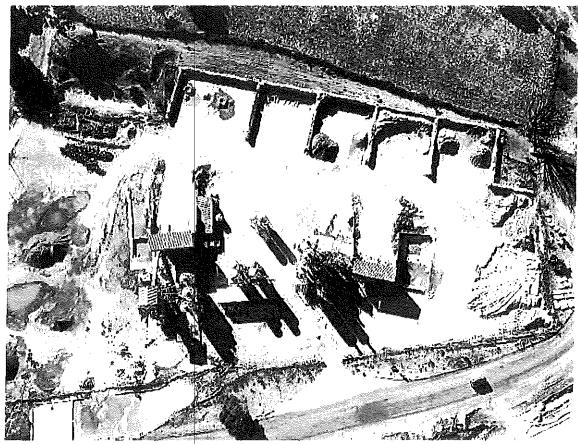


Figure 9 Aerial view of Cement Batching Plant

#### 4.7.6 Sludge management

A supervision of the supervision

Sludge management needs attention - Monitoring and implementation of sludge management plan.

Finding	Rating
Sludge management needs attention	non-compliant

# 4.7.7 Destination of treated effluent/ sludge

Effluent discharges into flood plains and eventually into the river therefore noncompliance (Effluent shall not be discharged into the water sources).

Finding	Rating
Effluent shall not be discharged into the water	non compliant
sources	

Figure 10 Samochima Burrow Pit, a gulley encroaching into the fence due to soil erosion Recommendation - re use of effluent.

Finding	Rating
Recommendation – re use of effluent.	Not rated

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# 4.7.8 Solid

Waste management is commendable and complying to EMP.

Finding	Rating
Waste management is commendable and	uninfisht
complying to EMP.	

### 4.7.9 Demarcation of Waste Disposal Sites identified

Finding	Rating
Sites identified	compliant. In the second second second second second second second second second second second second second s

# 4.7.10 Waste streams identified

Management of different waste streams is satisfactory.

Finding	Rating
Management of different waste streams is	rompliant
satisfactory.	

### 4.7.11 Used oil management

Used oil management is satisfactory.

Finding	Rating
Used oil management is satisfactory.	rompitagi

## 4.7.12 Waste recycling/reuse initiatives

Scrap metal reuse

Finding	Rating
Scrap metal reuse	Partially compliant

# 4.7.13 Waste transportation

Licensed carriers used. Recordkeeping at destination.

Finding		Rating
Licensed carriers used. Recordkeeping	, at	anplan
destination.		

#### 4.7.14 Chemical storage

Scrap metal reuse

Finding	Rating
	Not rated

4.7.15 Sanitary storage

Compliant

Finding	Rating
Sanitary storage compliant	

#### 4.7.16 Adequacy of Sanitary facilities

Compliant

	······································
Finding	Rating
Compliance to adequacy of sanitary facilities	comolign

#### 4.8 Noise

#### 4.8.1 Existence of noise monitoring programme

Regular sampling of noise levels as reflected in monitoring reports

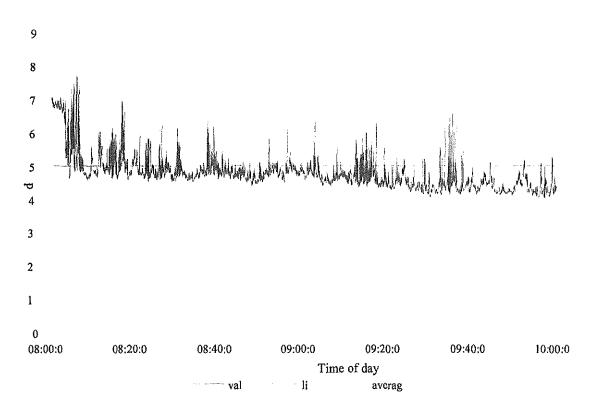
Finding	Rating
Regular sampling of noise levels	compliant

4.8.2 Compliance to standard

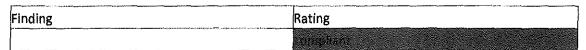
Satisfactory compliance to BOBS standards (below 50 dBA). Recommendation for use of monitoring protocols as prescribed in BOS 575:2013 standards.

Independent noise sampling was done on the morning of the 19<sup>th</sup> August 2021. Monitoring was done from 18°17'14.4"S 21°47'17.4"E, which is a residential area lying 200m from the contractor's camp at a bearing of 280°. Monitoring was done for a period of 2 hours, being 0800-1000hrs. Measurement was done on a MT975 noise meter, erected at a height of 1.5m. Deployment was inside a reed shelter with the only opening being a door, which was left wide open. The weather for the morning was calm, with a low breeze in the south westerly direction. No precipitation was noted.

The observation was that the readings for the morning ranged from 38 to 53 dB, with an average of 48 dBA. Although this was below the legal threshold, the proximity was only within 2dB of the threshold - suggesting that exceedances were likely as can be observed in Fig 11.



#### Figur 1 Noise monitoring results



## 4.8.3 Noise mitigation measures

From the interviews, this amounted to adherence

unnecessary operation of machinery.

	to operating times, servicing of equipment,
Finding	Rating
Evidence of noise mitigation measures	ompliant

to operating times, servicing of equipment

# 4.8.4 Evaluation Noise mitigation measures

There were perceptions of noise pollution - this was observed through community interviews.

Finding	Rating
Evaluation Noise mitigation measures done	Partially compliant

### 4.9 Air quality

#### 4.9.1 Dust

4.9.1.1 Dust monitoring Most of burrow pits do not have dust monitoring devices except Xakao burrow pit.

Finding

1. eventee

Rating



Most of burrow pits do not have dust monitoring	
devices except Xakao burrow pit	

Samochima

### No evidence of monitoring

Finding	Rating
No monitoring at Samochima	non compliant

Xakao

#### No evidence of monitoring in neighbouring homesteads

Finding	Rating
Xakao	កច្ចក្ <sub>ទ</sub> ុជអាជុម៌ដំដ

Shakawe

## Evidence of monitoring in neighbouring homesteads

Finding	Rating
Shakawe	Contribution

# Cement batching plant

Finding	Rating
Dust monitoring at Cement batching plant	egenplised

#### Bridge and contractor's camp





#### Figure 12, some of the dust buckets observed

Finding	Rating
Dust monitoring at Bridge and contractor's	compliant
camp	

# 4.9.1.2 Dust suppression plan Plan

# available.

1

Finding	Rating
Dust suppression plan available	Partially compliant

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# 4,9,1.3 Performance of Dust suppression measures

#### Dust remedial measures are implemented satisfactorily e,g. dust suppression with water

Finding	Rating
Dust remedial measures implemented	C. MARINE
satisfactorily	

# 4.9.1.4 Perception of dust

Community complained of dust

# 4.9.2 Ambient air

# 4.9.2.1 Emission monitoring programme

There was an active programme for monitoring the quality of ambient air, as proven by the monitoring records as well as the monitoring stations at the cement batching plant.

# Parameters included BTEX, PM<sub>10</sub>



Figure 13 Air quality monitoring station at the cement batching plant

Finding	Rating
Evidence of air quality monitoring station at	compliant
cement batching plant	

# 4.9.2.2 Validity of monitoring protocol

Best practise suggests that monitoring should be done from sensitive receptors. However, given that the devices were kept at areas of controlled access, it is an reasonable choice.

Finding	Rating
Monitoring protocol valid under the	comaliant
circumstances	

# 4.9.2.3 Compliance to standard

Finding	Rating

Occasional exceedance of thresholds	Partially compliant

There is no monitoring of indoor air quality. In spite of commendable monitoring of ambient air quality in the bounds of the cement batching plant, a similar effort was non evident in respect of occupational health.

Finding	Rating
indoor air quality not being monitored	Partially compliant

#### 4.9.2.4 Perceptions on air pollution

Finding	Rating
No evidence of effort to manage perceptions and	Partially compliant
concerns	

#### 4.9.2.5 Availability of mitigation measures

Finding	Rating
mitigation measures available	Partially constraint

or's camp. Raingauge available at Samochima

#### 4.10 Weather monitoring

Weather monitoring station available on contract Burrow Pit (see fig)



Figure 14. Rain gauge ot Samochima Burrow Pit

Finding	Rating
Rainfall being monitored at burrow pits	(Brigham)

#### 4.11 Archaeological findings records monitoring

There is no Archaeologist employed to monitor project activities however there is evidence of employment of one hired twice for specific activity. There is need to have a resident archaeologist on site. Although the project environmentalists indicated that an archaeologist-on-call during the excavation activities who could be contacted in the event of findings, this would suffice if it was not for the fact that there were no records of induction/training to operators regarding archaeological artefacts, hence making it difficult for them to establish what findings would be worthy of contacting the archaeologist.

The management of graveyards reflects the deliberate effort to manage heritage aspects. However, this was presumably driven by community consultations as opposed to relations with relevant specialists.



Finding	Rating
deliberate effort to manage heritage aspects	somplian)

There was no record form for archaeological findings availed. Standard operating procedures were not availed in the event of chance findings.

Finding	Rating
no record form for archaeological findings	non-compliant
availed	

#### Similar reports were not availed for monitoring the impact on intangible heritage. •

#### Effort made for graveyard consideration

Finding	Rating
reports were not availed for monitoring the	Partially compliant
impact on intangible heritage	

#### 4.12 Ecological management

An important observation was that ecological management and monitoring was completely missing from the content of the approved EMP. This was in spite of the ecological sensitivity of the area. The audit therefore relied on best practise.

Notwithstanding the above observation, it was noted that ecological monitoring was deprioritized. The inclusion of ecological monitoring in reports was inconsistent, with more recent reports reflecting a more consistent inclusion. The engineer's monthly monitoring reports have no ecological monitoring, while the contractor's quarterly reports do. Furthermore, where the baseline was offered, it was not site-specific, but appeared to rely on zoogeographic data from literature with related more the Delta region.

EIA was not site specific regarding ecological indicators: species composition (inventory), conservation status, likely invasives, location of protected trees, sighting frequency, land cover, -making it impossible to attribute impact to the project.

Where monitoring had been done, it was unclear what protocol had been use used to generate the records. To illustrate, maps were availed clearly demarcating the locations of biophysical monitoring points, however, the same was not available for ecological monitoring.

The was no evidence of ecological monitoring in regard to the WTP. Among the burrow pits, only records from the Samochima burrow pit were reflected in the report.

As noted earlier, a budget for environmental protection has been allocated amounting to P1,700,00 as of 2016. However, since this was not costed in the plan, it is difficult to ascertain the adequacy thereof.

special consideration has been given to access to natural resources by humans or animals

Important Faunal species that are known to occur in the area are;

Important Floral species that are known to occur in the area include; Adansonia digitata (Baobab), Baikiaea plurijuga (Mukusi),

### 4.12.1 Vegetation clearing

#### Confined to project area

Finding	Rating
Vegetation clearing confined to project area	

#### Access to natural resources by community

	······································
Finding	Rating
No upperson electruction of recourse energy	
No unnecessary obstruction of resource access	

# 4.13 Ecological monitoring

#### 4.13.1 General

During the previous audit, a concern was raised on the lack of monitoring reports regarding ecological components. It was noted, however,

No provision for ecological monitoring in monitoring plans of EIAs. Hence, reliance on environmentalists' competence

Finding	Rating
No provision for ecological monitoring in	Not rated
monitoring plans of EIAs	

Ecological monitoring is not prioritized in monitoring reports. Recent monitoring reports attempted to address this aspect

Finding	Rating
Deprioritization of ecological monitoring	Partially compliant

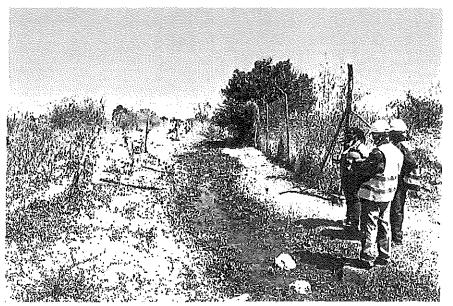


Figure 15. Outlet stream from Wastewater Treatment Plant

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Given the extensive documentation and recordkeeping that had to be carried out regarding specific aspects of environmental monitoring, it was established that there was a staffing constraint. The contractor's environmentalist would not be able to undertake the extensive work that was required.

Finding	Rating
Staff shortage evident	Partially compliant

A general observation on the area including various off-site component showed no evidence of loss of ecological integrity. The was a general presence of faunal species on the main river channel and in the floodplains.

Avian species noted during the audit included slaty egret, lesser egret, Egyptian goose, African whitebacked vulture (CE), swift,

Finding	Rating
Evidence of ecological integrity	complete and a second

#### 4.13.2 Bridge, approach roads

- Accessibility of wildlife well managed; no unnecessary movement route obstruction, e.g. Fence built, although not maintained.
- There was good management of waste –hence avoidance of scavenger attraction

#### 4.13.3 Burrow Pits

- Samochima, Shakawe, Shadikekete, Xakao
- Good standard fence was used
- Bank collapse evident, leading to a gulley encroaching into fence -thus compromising integrity (see Fig. 1)
- Poor fence maintenance might be a legacy issue -this might, however, lead to land use conflict, as well as waste dumping
- Protected-species management evident, but has flaws as some trees has exposed roots, or were on sand islands.
- Shadikekete rehabilitation attempted, but standards seemingly aimed to comply with Mines standards, without considering HWC implications for area.
- Ongoing extraction undermines rehabilitation effort, hence requires regular monitoring and corrective action.

#### 4.13.4 Waste Treatment Plant

- Documentation of impact pertaining to ecology not evident
- Monitoring focused within fence confines
- Sampling issue/protocol unclear
- Low flow might mean low impact, however, given the projected lifespan of the facility, it is key to pay deliberate consideration.
- Biological treatment option might be explored, e.g. use of reed-bed for filtration. Alternatively, charcoal to augment filtration.

#### 4.13.5 Invasive species

The was no evidence of a deliberate invasive species monitoring programme for faunal species.

#### Fauna

- No deliberate monitoring thereof
- No evidence of identification of species of concern

#### Flora

• No deliberate monitoring thereof

Finding	Rating
deliberate monitoring of invasive species	non-compliant

#### • No evidence of identification of species of concern

Finding	Rating
No evidence of identification of invasive species	non-cumpliant
of concern	

#### 4.13.6 Awareness

It was discerned from the interviews that ecological monitoring at burrow pits was reliant on operators. This assumed that the operators could accurately identify all possible species in the area, in relation to this, there were no records of training/induction/awareness availed to ensure the validity of this assumption. This thus undermines the validity of the ecological monitoring at these points. Ecological monitoring representatives.

Finding	Rating
no records of training/induction/awareness in	non-compliant
respect to ecology	

At the Xakao burrow pit, there appeared to be a deliberate effort to avoid the destruction of protected floral species. Several trees were left standing. The concern, however, was that the management was not well guided as the trees were left on sand island, with some having their roots partially exposed.

Finding	Rating
deliberate effort to avoid the destruction of	Partially compliant
protected floral species at some burrow pits	

Soil erosion monitoring and management

Finding	Rating
Soil erosion management being doesnt, but no	Partially compliant
evidence of monitoring	

#### Clearing of vegetation

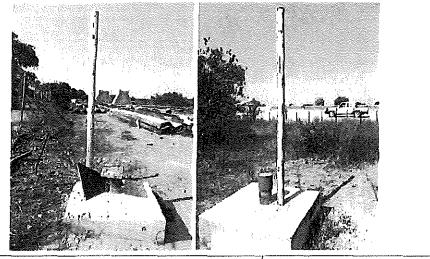
Aerial photography, and ground assessments indicated that clearing of vegetation was confined to the work areas. However, as baseline landcover maps had not been developed, it was difficult to ascertain this observation. In spite of the missing documentation, there appeared to be no areas of unnecessary land clearing.

# 4.14 Water quality monitoring

#### Map availed

Finding	Rating
Locations of water sampling points clearly	compliant.
indicated on map	

# Hydrogeology and hydrology both done



Finding	Rating
both Hydrogeology and hydrology done	Compiliant

# Comparison to BOS 93, instead of BOS 32

Finding	Rating
Comparison to BOS 93, instead of BOS 32	Partially compliant

#### Reports availed

Finding	Rating
Water quality reports availed	ompliant i

# Water Quality results availed

Finding	Rating
Water Quality results availed	compliant

# Performance does not meet standard --treated water released without meeting standard

Finding	Rating
treated water released without meeting	Partially compliant
standard	

#### Pontoon spill management plan available

Finding	Rating
Pontoon spill management plan availed	ONTRAFINE STATES

\_\_\_\_\_

### Consistent exceedance of threshold (Calcium Carbonate, Ammonia, Phosphate)

Finding	Rating
Consistent exceedance of threshold (Calcium	noncompliant
Carbonate, Ammonia, Phosphate)	
Sampling at confluence with river/stream when	ever possible
Finding	Rating
Sampling at confluence with river/stream whenever possible	Not rated
Trend monitoring	

Finding	Rating
Trend monitoring not done	Not rated

### Monitoring protocol for reproducibility

Finding	Rating
Monitoring protocol not availed	Partially compliant

# Include monitoring points/transects in map

a. 1

1

Finding	Rating
monitoring points/transects not included on	Not rated
map	

### Summary of incident register (currently it is itemised)

Finding	Rating
Summary of incident register (currently	Not rated
itemised)	

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# 5 Conclusion

The project generally complied with most of legal instruments in terms of acquisition of permits, authorizations, licences and approvals.

There was however, no systematic documentation and monitoring of project impact to the livelihoods, health system, intangible heritage, economic activities of the local community is neglected and not.

- The project failed to systematically monitor the possibility of archaeological discoveries by not having the resident archaeologist or an archaeologist on call.
- Occupational Health activities are well executed and documented.
- The contractor's camp level of upkeep is impressive

#### 5.1 Summary per component

Table 2. Summary of compliance rate per component 1-5, with 0 being non-compliance and 5 being highest level of compliance.

Component	Compliance level	Comments
Bridge and Approach Roads	4	Generally compliant
Contractor's camp	4	Generally compliant
Wastewater Treatment Plant	2	No authorisation, not license
Asphalt Plant	4	Avail waste management plan
Cement Batching Plant	4	Liquid waste management requires attention
Samochima Burrow Pit	4	Attend to fence maintenance
Shadikekete Burrow Pit	3	Consider additional backfilling
Shakawe Burrow Pit	4	Update pre-decomissioning structural assessment
Xakao Burrow Pit	3	Improve protected species management. Avail evidence of archaeologist engagement.
Water Abstraction	4	Generally compliant
Waste Collection	5	Commendable

#### 5.2 Summary per authorisation

Table 3. Summary of compliance rate per authorisation, permits, licenses.

Component	Compliances noted	Noncompliances noted
Bridge and Approach Roads	1	0
Contractor's camp	1	0
Wastewater Treatment Plant	3	2
Asphalt Plant	1	0
Cement Batching Plant	2	1
Samochima Burrow Pit	3	1

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# 6 Recommendations

Aspect	Recommendation		
Socio-economic monitoring	Establish the changes that may have been brought by the project by monitoring changes in the economic status, crime rate, health before close of the project.		
Ecological monitoring	Demonstrate a plan towards progressive realisation of systematic data collection within 21 days.		
Burrow pits/Archaeological monitoring	Demonstrate conscious effort towards deliberate consideration of archaeological finds monitoring within 21 days.		
Wastewater Treatment Plant	Apply for Environmental Authorisation and Licensing process within 21 days.		
Burrow pits	Land Reclamation should be done for Shakawe, Samochima and Shakawe Burrow pits taking into consideration neighbouring land uses.		
Decommissioning	Develop a comprehensive, budgeted decommissioning and rehabilitation program with timelines, with specific revegetation plan of relevant components sites such as burrow pits		

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"CCCIS"

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#### MINISTRY OF MINERALS AND ENERGY

Ref: CMMGE 7/3/56 III (11)

26<sup>th</sup> April, 2022

The Managing Director Gcwihaba Resources Pty Ltd P O Box 3726 Gaborone Botswana

Dear James M. Bruchs,

# RE: APPLICATION FOR RENEWAL OF PROSPECTING LICENCE NO. 020/2018 BY GCWIHABA RESOURCES PTY LTD

- Reference is made to your application submitted on 2 July 2021 as well as your letter of 15<sup>th</sup> March, 2022.
- 2. Kindly note that the coordinates submitted in the application for renewal of Prospecting Licence No. 020/2018 are encroaching into the buffer zone, of the Okavango Delta, which is listed as a World Heritage Site. Prospecting activities are prohibited within the buffer zone of the Delta, or if permitted, they are to be subjected to stringent Environmental Impact Assessment measures, in accordance with the provisions of the Environmental Assessment Act of 2010 and Environmental Regulations of 2012 from the Department of Environmental Affairs (DEA).
- In light of the above, I am not in a position to renew the Prospecting Licence for as long as the submitted coordinates fall within the buffer zone of a World Heritage Site.

Yours\_faithfully, as the case Lefoko M: Moagi MINISTER OF MINERALS AND ENERGY

Cc: Director of Mines



"The Ministry that makes a real difference to Bohowana"



Ommgebatswana Ominerals energy

# **GCWIHABA RESOURCES (PTY) LIMITED**

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27<sup>th</sup> April 2022

To: Honourable Lefoko M. Moagi

The Minister of Mineral Resources, Green Technology and Energy Security Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) Private Bag 0018 - Gaborone, Botswana

Mr. Ofentse Ditsele Director of the Ministry of Mines **Department of Mines** Ministry of Mineral Resources, Green Technology and Energy Security Private Bag 0018 – Gaborone, Botswana

# Re: Application For Renewal of Prospecting License No. 020/2018.

Dear Honourable Minister Moagi,

Thank you for your letter of April 26, 2022.

Gcwihaba Resources (Pty) Ltd. (Gcwihaba) fully understands your commitment to ensure that activities which take place within the *buffer zone*, an area controlled by the Republic of Botswana (State Party) and not part of the Okavango World Heritage Property (OKWHP), are conducted in such a way that it they do not have an adverse impact on the OKWHP.

PL020/2018 has existed in one form or another since 2008 and always in the area currently known as the buffer zone. Chronologically, the buffer zone encroached on our license area as our license existed six (6) years prior to the buffer zone being establish by the State Party in 2014. In fact, a compliant NI 43-101 441Mt resource report was prepared and filed with MMGE prior to the *buffer zone* and the OKWHP being established. For clarification, only the area known as the core zone is part of the OKWHP and it is defined in and known by as the Property in the UNESCO documentation. See, https://whc.unesco.org/en/list/1432/documents.

We agree with your sentiments that if mining were to take place within the buffer zone that an Environmental Impact Assessment (EIA) must first be conducted and made part of any mining application and further an Environmental Management Plan (EMP) must be filed before exploration activities are to be conducted. The foregoing is consistent with the Mines and Minerals Act, the Environmental Assessment Act of 2010 and the Environmental Regulations of 2012 and are applicable not only to us but to all resource activities in the country. However, under existing law, before either an EIA or a EMP can be conducted and approved, a company must first have the prospecting license.

Your sentiments are indeed consistent with the State Party's position on these issues as codified in the following documents:



Nomination dossier to UNESCO for inscription into the World Heritage List (submission by Republic of Botswana, 2013)

[Page 30]

"The Ministry of Energy, Mineral and Water Resources has issued several mineral prospecting licenses to exploration companies for concession areas within the buffer zone of the site. No licenses have been issued within the core zones of the property. <u>Should an application to mine</u> within the buffer zone arise, an Environmental Impact Study (EIA) will be required as part of Botswana's EIA Act, which would address concerns relating to the World Heritage property. Also, the matter would be referred to the World Heritage Centre (WHC) for their advice." (emphasis added)

#### and from the same report,

[Page 405]

The government of Botswana through the Ministry of Minerals, Energy and Water Resources has taken a position that it will not issue any new mineral concessions within the Core area of the delta. The Ministry will further engage with the holders of the few existing licenses within the Core area of the delta with a view to eventually expunge those portions of the licenses which overlap the core. <u>Regarding the buffer area, stringent environmental protocols and practices will be adhered to, to protect the integrity of the Delta</u>. (emphasis added)

#### In addition,

#### WORLD HERITAGE NOMINATION – IUCN TECHNICAL EVALUATION KAVANGO DELTA (BOTSWANA) – ID No. 1432 [April 2014] (page 12)

"Mining activities including prospecting will not be permitted within the [core zone] property. Furthermore, potential impacts from mining including concessions in the buffer zone and outside the buffer zone need to be carefully monitored and managed to avoid direct and indirect impacts to the property, including water pollution." (emphasis added)

It is clear from the State Party's submissions to UNESCO since 2013, that both mining and prospecting licenses can exist within the *buffer zone*. Accordingly, we are agreeable, as we have always been, to conduct our activities consistent with the prevailing law and we assure you that our goal is to advance our project in an environmentally friendly manner.

Accordingly, as we are in full compliance with all laws, we respectfully request that PL020/2018 is renewed as we have proposed as it is now almost 11 months since we filed for its renewal. If there is further delay in awarding the license, we request that the State Party reimburse us for its' taking what is legally ours, the exploration costs (+25M USD) and the present value of the in-situ value (\$6-7Billion USD) of that portion of the resource in the buffer zone.

Thank you again for your attention to this matter and please be assured that we are committed to developing our project in full compliance of all relevant existing laws. In addition, Gcwihaba adopted Occupational Health and Safety Assessment Series (OHSAS 18000) and the International Financial Corporation (IFC) Performance Standards and Environmental, Health and Safety Guidelines when IFC, a member of the World Bank became a shareholder of Gcwihaba's parent company, Tsodilo Resources Ltd. in 2010.

Respectfully submitted,

James M. Bruchs Managing Director

received by Gcwihaba Resources (Pty) Ltd. on June 15, 2022 CT

Telephone: +267 3656600 Fax: +267 3909368 Plot No: 50676, Block C, Fairgrounds Office Park



Private Bag 0018 Gaborone Botswana www.mmge.gov.bw

7<sup>th</sup> June, 2022

## MINISTRY OF MINERALS AND ENERGY

222

**Ref:** CMME 7/3/56 I (2)

The Managing Director Gcwihaba Resources Pty Ltd P O Box 3726 Gaborone

Dear Mr. James M. Bruchs,

# RE: PROPOSAL FOR RESOLUTION OF APPLICATION FOR RENEWAL OF PROSPECTING LICENCE NO. 020/2018 – ENCORACHMENT INTO OKAVANGO DELTA WORLD HERITAGE SITE BUFFER ZONE

- 1. Reference is made to your letter dated 19<sup>th</sup> May 2022, in which you are making a proposal for resolution of the application for renewal of Prospecting Licence No. 020/2018 which encroaches into the buffer zone of Okavango Delta World Heritage Site.
- 2. I note the resolution by Gcwihaba Resources (Pty) Ltd ("Gcwihaba") to drop off a portion of the area applied for, which falls within the buffer zone of the Okavango Delta World Heritage Site, subject to some conditions.
- 3. I wish to reiterate my willingness to consider a renewal application as long as the area applied for falls outside the Okavango Delta buffer zone. However, I am not amenable to the conditions attached to your resolution, save for the one that requires that Gcwihaba be given a right of first refusal in the event Government decides to allow exploration or mining within the buffer or core zone anytime in future. I wish to clarify that Government has no intention of allowing those activities in the Okavango Delta, anytime in future.
- 4. I am not inclined to agree with conditions 1 and 2 in Gcwihaba's letter as the conditions are unreasonable and not supported by law. It will be unreasonable to tie the decision of investment into Gcwihaba's project by Minerals Development Company Botswana ("MDCB") to the renewal of the prospecting licence. This is so because any investment decision is taken after a bankable feasibility study has been



"The Ministry that makes a real difference to Botswana"



@mmgebotswana @minerals\_energy

Telephone: +267 3656600 Fax: +267 3909368 Plot No: 50676, Block C, Falrgrounds Office Park

1



Private Bag 0018 Gaborone Botswana www.mmge.gov.bw

MINISTRY OF MINERALS AND ENERGY

completed and a competent person's report detailing the mineral resource statement issued to the Ministry. This has not happened with the area in question.

- 5. Furthermore, the request to renew Prospecting Licence No. 020/2018 held by Gcwihaba for a period three (3) years is not supported by any law therefore rejected. It may be worth pointing out that the Ministry is not responsible for any delays in the carrying out of the programme of prospecting for any licence held by Gcwihaba Resources as claimed in your letter. Rather, Gcwihaba Resources has been responsible for delays in the renewal of its Prospecting Licences due to the insistence of licences being granted over a World Heritage Site.
- 6. In light of the above, I will be willing to consider the renewal application for Prospecting Licence No. 020/2018 provided:
  - Gcwihaba drops off conditions 1 and 2 in their letter dated 19<sup>th</sup> May 2022.
  - Gcwihaba submit within 21days from the date of this letter, a revised application for renewal of the Prospecting Licence in question, with boundary coordinates falling entirely outside the Okavango Delta core and buffer zone.
- 7. Thank you.

Yours Sincerely, Lefoko M. Moagi MINISTER OF MINERALS AND ENERGY

Cc: Director of Mines



"The Ministry that makes a real difference to Botswana"



A REAL PROPERTY AND A REAL

@mmgebotswana @minerals\_energy

«CCC 18

# **GCWIHABA (PTY) LIMITED**

Attachment B

#### Co 2003/292

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 21532 Fairgrounds Office Park Gaborone, Botswana Registered Address RSM House – Plot 39 Plot 39, Commerce Park Gaborone, Botswana

TEL / FAX (267) 392-7144

June 28, 2022

To: Mr. Ofentse Ditsele Director of Mines Department of Mines Private Bag 0049 Gaborone, Botswana

# <u>Re: Revision of License Coordinates: License Renewal Application for</u> <u>PL020/2018 – Metals Prospecting Licenses</u>

Dear Sir,

Pursuant to Honourable Minister Lefoko M. Moagi correspondence of June 7, 2022 and received by the Company on June 15, 2022, Gcwihaba Resources (Pty) Ltd. (herein Gcwihaba or the Company), is hereby resubmitting modified license boundary coordinates relating to license ground being renewed for the for the first-2 year renewal of Metals Prospecting Licenses PL020/2018.

The revised co-ordinates are set forth in **Attachment A** and the information set forth in the October 14, 2021 Revision of License Coordinates: License Renewal Application for PL020/2018, PL021/2018, PL022/2018, PL023/2018, and PL024/2018 - Metals Prospecting Licenses is hereby incorporated (**Attachment B**). The Company has resubmitted and updated renewal license boundaries and co-ordinates for PL020/2018 on maps with respect to **Appendix VI** mentioned in the original Form 1 and original application package submitted on June 30, 2021.

The updated re-submitted co-ordinates are in Geographical WGS84 datum and shape files and tabulated coordinates (excel) are included separately on a CD included with this re-submission. Please note that these revised co-ordinates update those relevant section and figures in the original relinquishment report submitted titled *"Final Relinquishment Report, A review of Exploration Results from Gcwihaba Resources (June 2021)"*, in so far as only affecting Figures 1, 3, 12, 13, and 14, where **Tables 2** in that report is replaced with **Table 1** below.

Directors: James M. Bruchs<sup>1</sup> (Managing) – Jonathan R. Kelafant<sup>1</sup> - Blackie Marole<sup>2,3</sup> – Dr. Gary A. Bojes<sup>1</sup> <sup>1</sup>American, <sup>2</sup>Motswana, <sup>3</sup>Resident

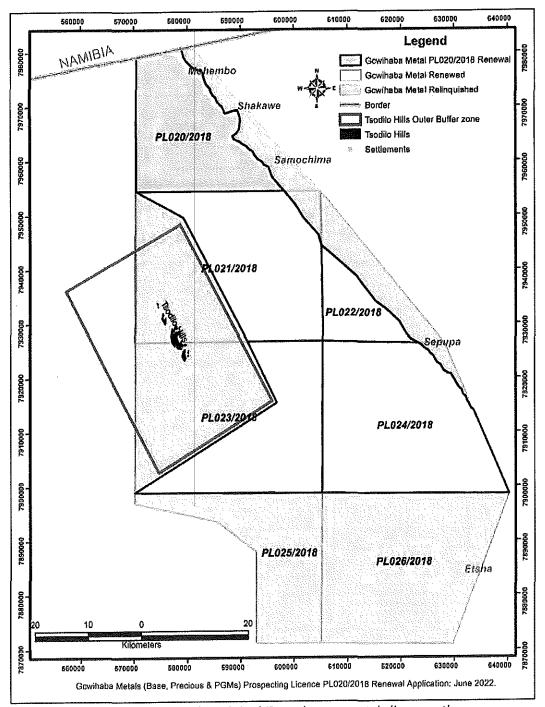
The Company was initially granted 7 contiguous Metals Prospecting Licenses effective the 1<sup>st</sup> October 2018 for 3 years. The 7 contiguous licenses were:

- PL020/2018 (570.0 km2);
- PL021/2018 (964.9 km2);
- PL022/2018 (317.1 km2);
- PL023/2018 (978.6 km2);
- PL024/2018 (807.3 km2);
- PL025/2018 (454.5 km2); and
- PL026/2018 (828.1 km2).

In October 2021, The Company relinquished 50% (2,462.1 km<sup>2</sup>) including heritage areas as discussed (see **Figure 1**). The relinquishment includes two licenses, PL026/2018, and PL025/2018 which were relinquished in their entirety (100%). Accordingly, the Company by renewing 463.3 km<sup>2</sup> of PL020/2018 is effectively renewing 50.2% (2,469.10 km<sup>2</sup>) of the original area of the seven (7) contiguous licenses in compliance with Section 19 of the Mines and Minerals Act as follows in **Table 1** and **Figure 1**:

License No	Grant Date	Original Area km²	1 <sup>st</sup> Renewal Date	Grant Date (1st Renewal)	Renewal Area km²	Percentage
PL020/2018	October 1, 2018	570.0	October 1, 2021	This Application	463.3	81.28%
PL021/2018	October 1, 2018	964.9	October 1, 2021	January 01, 2022	572.5	59.33%
PL022/2018	October 1, 2018	317.1	October 1, 2021	January 01, 2022	160.4	50.58%
PL023/2018	October 1, 2018	978.6	October 1, 2021	January 01, 2022	491.2	50.19%
PL024/2018	October 1, 2018	807.3	October 1, 2021	January 01, 2022	781.7	96.83%
PL025/2018	October 1, 2018	454.5	Did not renew	Did not renew	Did not renew	0.00%
PL026/2018	October 1, 2018	828.1	Did not renew	Did not renew	Did not renew	0.00%
TOTAL		4,920.50			2,469.10	50.18%

Table 1. Area of the seven (7) contiguous metals licenses and renewed in this resubmission.



**Figure 1**. Map showing the original 7 contiguous metals licenses, the areas relinquished, and the areas renewed in this application and that submitted in October 2021. Also shown is the Tsodilo Hills area as part of the relinquished area.



Please see **Attachment A** and the initial renewal license application filed on June 30, 2021, for any additional information.

Please do not hesitate to contact me if you have any questions or need additional information.

Respectfully submitted,

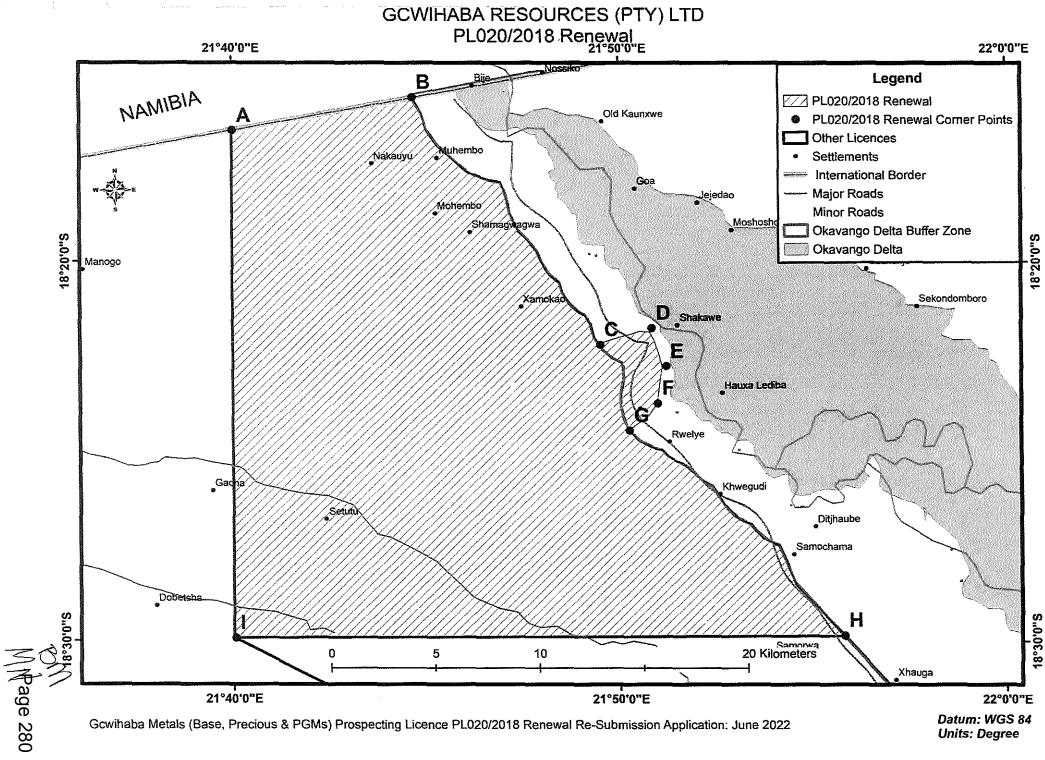
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James M. Bruchs Managing Director

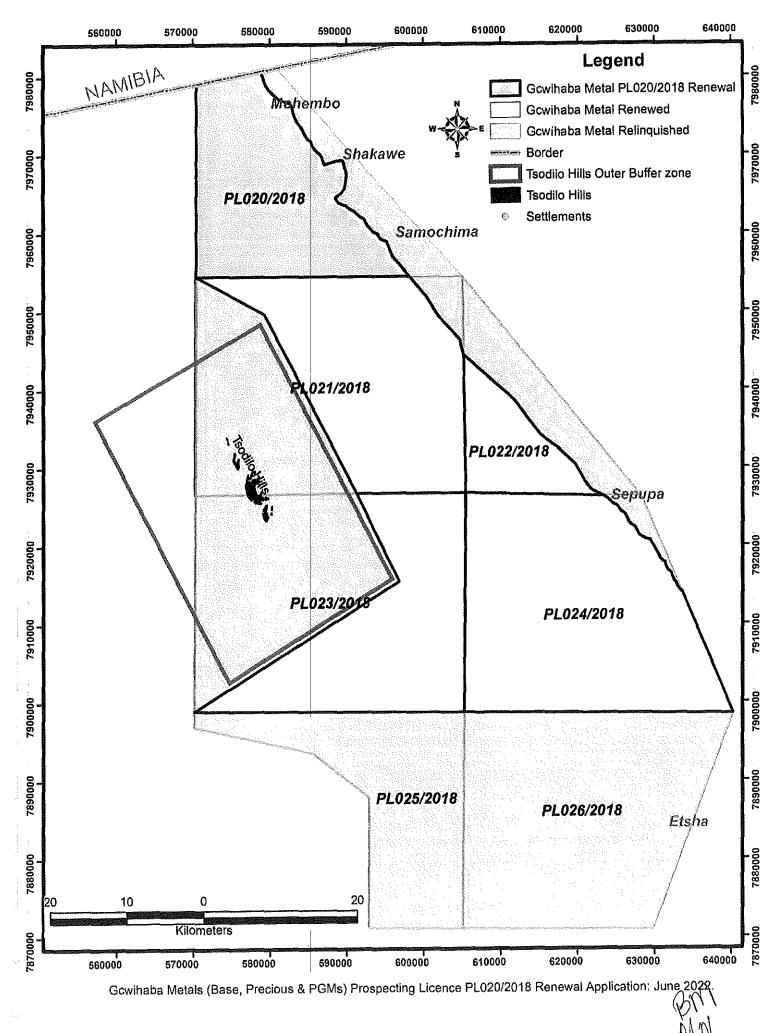


	PL020/2	018 Renewa	al
Point	Long	Lat	Area (Km2)
A	21.6668604	-18.27575189	
В	21.7445511	-18.26107901	
Point "B	" runs along the	e reserved area	
to point	"C"		
С	21.8252343	-18.36973496	
D	21.8474983	-18.36231363	
E	21.8535876	-18.3790592	463.3
F	21.8499721	-18.39542419	
G	21.8377935	-18.4074125	
Point "G	" runs along the	e reserved area	
to point	" <u>H"</u>		
H	21.9300845	-18.49761026	
1	21.6674834	-18.498752	

MRage 279



Units: Degree



age 281

# «CCC19»

ME

Attachment A

REJISION Type of Applicatio Appilcant's Name

REUISION	OF	coop	INATES
GCWITTABA	e	7Y) i	-74

Commodity applied for (for industrial Minerale Specify).

-			ATUS
8		YES	NO
	PROSPECTING LICENCE APPLICATION FORM I SIGNED & SUBMITTED (WITH ANNEXURES)		T
	(a) All required information in Form 1 should be filled & the declaration part should be signed. ADDRESS IN BOTSWANA	.L	
		1	1
!	(e) Postal Address	<u> </u>	<u> </u>
	(b) Telephone Number / Fax Number/ Email Address	<u> </u>	<b> </b>
_	(d) Copy of Certification of Incorporation (Company Certificate)		
	(a) Audited Financial Report/Statements with a letter of resolution from board comitting the funds reserved for	T	1
	exploration project appoint for. A share certificate is to be included if the company has one Director.		
	(b) Latest Three months bank statement with a letter of resolution from board comiting the funds reserved for		1
	exploration project applied for. A share cartificate is to be included if the company has one Director.	L	<u> </u>
		<u> </u>	F
	(a) Latest updated detailed curriculum vitae of proffessionals with experience in commodities applied for.	<u> </u>	
_	(b) Signed consent letter from the CV owner declaring they will work for the company applying for the PL.		L
	DESCRIPTION OF AREA APPLIED FOR		T
	(a) Attached sketch plan of the area applied for in Geographic Coordinate System (GCS), WGS84 Datum, Decimal Degress.	11	1
ł	(b) Attached hard copy coordinates		
	(c) Attached soft copy coordinates in excel formal. DETAILED PROPOSED PROGRAMME OF PROSPECTING OPERATIONS		
	(a) It must provide an understanding of the nature and extent of the proposed exploration activities.		
	(b) The activities should be adequate to explore mineral potential and able to generate data that may lead to		
	discoveries and an increase in the level of knowledge of the area applied for.		
	(c) Types of activities to be underlaken must be clearly klentifiable at each level of the programme:		
	(i) Desktop studies, geological reviews, technical assessment of available data; Details of the number and types of data		
	processing that are going to be undertaken and clearly indicate the added value for each phase survey details, (Geochem, geophysics, etc.); Sampling methods, spacing of grids, lines, depins to samples & number; Drilling types		
	and details of depth & number to be drilled, stratigraphy; Maps and illustrations or plans of the stratigraphy, etc. must be		
	clearly cullined.		
	d) A summary of the minimum expenditure for each year has to be clearly stated in line with the proposed exploration		
_	activilies.	i	
1	a) Companies to submit in-house Environmental Health and Safety (EHS) Policy		
	SOMMENTS A A A A A A A A A A A A A A A A A A A		
	Then appued for overwas and the	Λ	Λ
F	estructed , allarmino heretare thear. Also renol	relat	14
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7	replication cumit be blalled as is thence the	0 PDI	plir
1	Cathorist of ACLASSIC	1-1	- 0.0
,	Coordinates, Area and Sketch Plan Checked by: (for GIS Personnel)		
1	A and a summer of the analysis of the analysis and the and the analysis		
	(Name) (Designation) (Date)		

(II) Application Checked and passed by: (for Gaologist Personnel) 40 CENDERG किल (Designation) (Signature)

05/22022 (Date)

Last modified by T. Segwabe and PL. Team

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February 2012



# «CCC 20»

https://www.mmegi.bw/business/govt-crafts-base-metals-and-iron-ore-strategy/news June 13, 2014

The Permanent Secretary (PS) in the Ministry of Minerals, Energy and Water Resources (MMEWR) Boikobo Paya told the Botswana Resource Sector Conference on Tuesday that government is formulating a base metals and iron ore beneficiation strategy.

"Government has identified potential iron ore of seven billion tonnes and 646.6 million tonnes of copper and nickel," he said, adding that some feasibility study on iron ore has been done to see the value of smelting and refinery, to generate more income from selling finished products.

He said the Ministry is willing to co-finance this project.

Paya assured that some strategic goals have been put in place to optimise the benefits. He said government coordination through this process is crucial and the private sector has been considered with shareholder consultation.Paya called for private sector involvement, to partner with the government to develop the area where the iron ore is found thus creating employment.

"Iron ore is located in the most remote areas of this country in the Ngamiland where water and power is a major concern. There is no infrastructure especially roads, and accommodation" he said.

Tsodilo Resources, which is located at Shakawe, is one of the identified local companies mining iron ore. They are expected to announce how much resources they have by end of their second quarter.

The current copper and nickel producer in the country includes BCL, African Copper, Discovery Metals and Tati Nickel. Prospective copper producers in the country include Gantsi based Khoemacau, which plans to apply for a mining licence before the end of the year. The proposed strategy is one of numerous government efforts to try and generate income from other minerals to diversify from diamonds, as its revenue is expected to dip significantly around the year 2022 when Jwaneng 'jewel in the crown' is due to convert from open pit to underground pit.

In February 2012 government launched the Coal Road Map, whose development unit was established in April the same year.

The PS revealed that the resource assessment study on the Coal Roadmap is ongoing and the signing of an agreement with Namibia for the Trans Kalahari Road (TKR) development has been done even though their operational office is behind schedule as it was expected to be set by end of June and has been postponed to July.

"There are also discussions on existing rail capacity building to handle 10-15mtpa to Matola/Maputo in Mozambique and another one on existing rail capacity building to handle 10Mtpa to Richards Bay in Durban," he said.

Paya added that the ministry planned expanding the capacity on mines, rail and ports, as well as develop infrastructure.

# IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

In the dispute between

# GCWIHABA RESOURCES (PTY) LTD

And

MINISTER OF MINERALS AND ENERGY

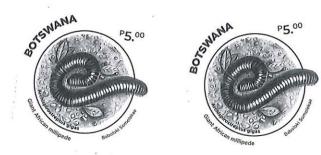
ATTORNEY GENERAL

# **CONFIRMATORY AFFIDAVIT**

I, the undersigned,

Do hereby take oath and state as follows:

- I am an adult male of full legal capacity residing in Gaborone. I am an admitted attorney of the Courts of Botswana and I practice out of the firm of Messrs Collins Chilisa Consultants.
- 2. I depose to this affidavit on behalf of Messrs Collins Chilisa Consultants, the Applicants' attorneys of record and I am duly authorised to do so by virture of my position as Associate. The facts contained in this affidavit fall within my own personal knowledge and belief by virtue of my control of documents relating to the issues herein



1

Case No:

Applicant

First Respondent

Second Respondent

30

3 4 OCT 2022

The

and my involvement in the matter. Save where the contrary appears from the context, the contents herein are to the best of my knowledge and belief, both true and correct.

4. I have read the Founding Affidavit of **MOAGI NTUKUNUNU** and I confirm the contents therein in as far as they relate to the firm of Messrs Collins Chilisa Consultants and the advice it has rendered to the Applicant as both **f**rue and correct.

QUINTAN MADUWANE

THUS SWORN TO AND SIGNED BEFORE ME AT MAUN ON THIS  $3^{1}$  day of october 2022, at  $100_{6}$  hours, the deponent having acknowledged that he knows and understands the contents of this affidavit and has no objection to taking the prescribed oath which he considers binding on his conscience.

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# IN THE HIGH COURT OF THE REPUBLIC OF

# BOTSWANA HELD AT MAUN

Case No:

In the dispute between



**GCWIHABA RESOURCES (PTY) LTD** 

and

MINISTER OF MINERALS AND ENERGY

**ATTORNEY GENERAL** 

First Respondent

Applicant

Second Respondent

DRAFT ORDER

BEFORE THE HONOURABLE JUSTICE\_\_\_\_\_\_on this\_\_\_\_\_day of \_\_\_\_\_2022.

Upon hearing counsel for the parties and having read the papers filed of record, it is hereby ordered as follows:

- 1. The decision of the First Respondent dated 29 June 2022 rejecting the renewal of the Applicant's prospecting license (020/2018) is declared to be illegal, unreasonable, irrational and arbitrary;
- The decision of the First Respondent dated 29 June 2022 rejecting the renewal of the Applicant's prospecting license (020/2018) is hereby set aside;



- 3. The First Respondent shall renew the Applicant's license subject only, to environmental safeguards and/or conditions as deemed necessary for the protection of the heritage area.
- 4. Following renewal as above, the First Respondent shall align the effective dates of contiguous licenses PL 021-026/2018 with that of the renewed license.

Alternatively

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- 5. The First Respondent shall pay damages to the Applicant in the sum of US\$65 million or any other amount as assessed by the Registrar of the High Court;
- 6. Granting the Applicant costs of suit.

# **ORDER OF COURT**

I, the undersigned

#### GARY A. BOJES

(In my capacity as the **Chief Financial Officer** of **GCWIHABA RESOURCES (PTY) LTD** and authorised by a Resolution dated 27 October 2022 attached hereto)

do hereby nominate, constitute and appoint;

# MBOKI MBAKISO CHILISA and/or OUTULE KEATIMILWE and/or HAZEL SAUNGWEME and/or CHARLES BATSALELWANG and/or QUINTAN MADUWANE

with power of substitution to be the Applicant's lawful Attorneys and Agents in its name, place and stead, to appear before the High Court or wherever else may be necessary and then and there to institute legal proceedings on behalf of Gcwihaba Resources (Pty) Ltd.

And to appear by counsel, to pay all fees for counsel and any witnesses to make any payments whatsoever which may be necessary and desirable for the proper conduct of the case, to proceed to final determination thereof, including all or any interlocutory application(s) and appeals, and generally for effecting the purposes aforesaid, to do or cause to be done, whatsoever shall be requisite as fully and effectually, to all intends and purposes as I might or could do if personally present and acting therein; hereby ratifying, allowing and confirming and promising and agreeing to ratify, allow and confirm all and whatsoever the said Attorneys and Agents shall lawfully do or cause to be done in or about the premises by virtue of these presents.

Given under my hand at Gaborone on this **27<sup>th</sup>** day of **October 2022** in the presence of the undermentioned witnesses.

#### **AS WITNESSES**

1. 2.

James M. Bruchs **Blackie Marole** 

Jany Bojis

GARY A. BOJES



MARIPE J.

IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

Case No. MAHMN-000075-22

In the matter between:

**GQWIHABA RESOURCES (PTY) LTD** 

And

MINISTER OF MINERALS AND ENERGY

**ATTORNEY GENERAL** 

FILING SHEET

### PLEASE FIND FILED HEREWITH;

Respondents' Notice of Opposition. 1.

### DATED AT GABORONE ON THIS 14<sup>TH</sup> DAY OF NOVEMBER 2022

**G.I. BEGANE** For/ Respondents Attorney General's Chambers **Civil Litigation Division** Government Enclave Private Bag 009 GABORONE



1<sup>st</sup> Respondent

Applicant

2<sup>nd</sup> Respondent

TO: REGISTRAR OF HIGH COURT High Court <u>MAUN</u>

### AND TO: COLLINS CHILISA CONSULTANTS

Applicant's Attorneys

Chambers Plot 4858, Lecha Close

Off Marakanelo Way

P. O. Box 45136

### GABORONE

Received the original documents is a copy-	ment of which
Date: 23/11/22	
Time: 0828	
PANEMCE (CB)	

IN THE HIGH COURT OF THE REPUBLIC HELD AT MAUN	C OF BOTSWANA
In the matter between:	Case No. MAHMN-000075-22
GQWIHABA RESOURCES (PTY) LTD	Applicant
And	
MINISTER OF MINERALS AND ENERGY	1 <sup>st</sup> Respondent
ATTORNEY GENERAL	2 <sup>nd</sup> Respondent

### NOTICE OF OPPOSITION

**BE PLEASED TO TAKE NOTICE THAT** the 1<sup>st</sup> respondent intends to oppose the applicant's application and appoints the **Attorney General's Chambers, Lot 50762, Government Enclave, Private Bag 009, Gaborone**, as the address at which all the documents may be delivered or sent.

### **RELIEF SOUGHT**

**WHEREFORE** the 1<sup>st</sup> respondent prays for the dismissal of the application with costs.

dated at gaborone on this  $14^{\rm th}$  day of november 2022



KPL -*P-f---*

**G.I. BEGANE** For/ Respondents Attorney General's Chambers Civil Litigation Division Government Enclave Private Bag 009 **GABORONE** 

TO: REGISTRAR OF HIGH COURT High Court MAUN

### AND TO: COLLINS CHILISA CONSULTANTS

Applicant's Attorneys Chambers Plot 4858, Lecha Close Off Marakanelo Way P. O. Box 45136 **GABORONE** 

### IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

In the matter between:

### **GQWIHABA RESOURCES (PTY) LTD**

And

### MINISTER OF MINERALS AND ENERGY

ATTORNEY GENERAL

FILING SHEET

### PLEASE FIND FILED HEREWITH;

1. Respondents' Record of Proceedings.

G 30, EGIST

8 NOV 2022

### DATED AT GABORONE ON THIS 18<sup>TH</sup> DAY OF NOVEMBER 2022

**G.I. BEGANE** For/ Respondents Attorney General's Chambers Civil Litigation Division Government Enclave

Private Bag 009

### GABORONE

1<sup>st</sup> Respondent

Case No. MAHMN-000075-22

Applicant

2<sup>nd</sup> Respondent

TO: REGISTRAR OF HIGH COURT High Court MAUN

### AND TO: COLLINS CHILISA CONSULTANTS

Applicant's Attorneys

Chambers Plot 4858, Lecha Close

Off Marakanelo Way

P. O. Box 45136

### GABORONE

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Π

Received the original document of which this is a copy-
Date: 23/11 /22
Time: 0828HKS
PATIENCE KEBIONE

# IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA Case No. MAHMN-000075-22 Case No. MAHMN-000075-22 In the matter between: QQWIHABA RESOURCES (PTY) LTD And MINISTER OF MINERALS AND ENERGY 1st Respondent

ATTORNEY GENERAL

2<sup>nd</sup> Respondent

### RECORD OF PROCEEDINGS

**BE PLEASED TO TAKE NOTICE** that that the Applicant has instituted Review Proceedings against the Respondents' before the Honorable Justice Maripe.

**TAKE FURTHER NOTICE** that the Respondents' file the Record of Proceedings as below:

Index	Item	Page
1.	Resolution letter dated 15 December 2015	1
2.	Letter dated 16 December 2015 from Gcwihaba Resources (Pty) Ltd.	2-3
3.	Prospecting License given on 22 October 2018.	4-9
4.	License renewal application dated 30 June 2021	H COURT G 30, MAUN
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Page 295

5.	Letter dated 06 December 2021 by	30
	Gchwihaba Resources (Pty) Ltd.	
6.	Savingram dated 10 December	31-32
	2021 from the Director of Mines	
	regarding Application for first	
	renewal of prospecting license.	
7.	Savingram dated 31 December	33
	2021 regarding Prospecting Licence	
	Number.	
8.	Savingram dated 14 April 2022	34-35
	regarding Application for renewal of	
	prospecting license.	
9.	Letter dated 26 April 2022 from the	36
	Minister of Minerals and Energy.	
9.	Response Letter dated 27 April	37-38
	2022 from Gcwihaba Resources	
	(Pty) Ltd	
10.	Savingram dated 01 June 2022	39-40
	regarding proposal for resolution of	
	Application of Prospecting License.	
11.	Letter dated 07 June 2022 being	41-42
	proposal for resolution of	
	Application for renewal of	
	prospecting license.	

### dated at gaborone on this $18^{\rm th}$ day of november 2022

Tel.: (267) 365 7000 Fax.: (267) 395 2141

Ref: CP 337 XII (11)



Department of Mines Private Bag 0049 GABORONE BOTSWANA



All correspondence to be addressed to the Director

Date: 15<sup>th</sup> December 2015

Gcwihaba Resources (Pty) Ltd P O Box 3726 GABORONE

ATTENTION: Dr. Mike de Wit

Fax: 392 7144

### RE: RESOLUTION OF MEETING HELD BETWEEN DEPARTMENT OF MINES AND GCWIHABA RESOURCES (PTY) LTD.

The above refers.

- 2. This communiqué serves to summarize the resolutions agreed to between Department of Mines and Gewihaba Resources (Pty) Ltd represented by Dr. Mike de Wit.
- 3. The meeting was held to discuss the issues of the pending renewals of prospecting licences held by Gchwiha Resources. This licences fall within the buffer zone of the Okavango World Heritage Site (OWHS) where prospecting activities/operations are prohibited and/or will be subjected to stringent EIA measures.
- 4. Gewihaba has agreed to release those licences that fall within the buffer zone in lieu of areas i outside the buffer zone and also with the basis that the licences will be issued as new ones rather than as renewals. This request came about as Gewihaba has spent and carried out works on the areas that they are now requested to surrender to give way to the OWHS.
- 5. In light of the above, we are currently waiting for the submissions from Gcwihaba Resources indicating those licences that they wish to release and also to indicate those that they wish to be given as a substitute.
- 6. Thank You.

Yours faithfully,

T. Segwabe /FOR DIRECTOR

1



### GUWIHABA RESOURCES (PTY) LIMITED

Co 2003/292

VAT NO. C06643801113

Mailing Address P. O. Box 3726 Gaborone, Botswana Registered Address 1<sup>st</sup> Floor, Acacia House – PL 54358 Gaborone, Botswana

1 EL / FAX (267) 392-7144

### PRIVILEGED AND CONFIDENTIAL

16<sup>th</sup> December 2015

The Director of Department of Mines, MMEWR, Private Bag 0049 GABORONE

Attention: Mr Gabotshwarege Tshekiso

#### RE: Gewihaba Resources (Pty) Ltd and prospecting licences near the Okavango deha

Dear Director.

Since we last spoke on Monday the 14<sup>th</sup> of December. I have had the opportunity to discuss with Mr. James M. Bruchs, Chairman and CEO, of Tsodilo Resources Limited (100% owner of Gewihaba Resources), several scenarios whereby our mutual interests could be obtained. We would like to explore with you the possibility of giving up all rights to our metal licenses on the eastern side (Parcel 1, see map) of the panhandle (PL 393/2008 – 395/2008;

➢ PI 93/2012 - PL97/2012; and PI 588/2009) in exchange for having the licenses on western side (Parcel 2, see map) (PL 386/2008 - 392/2008; PL 51/2008 and 52 /2008; PI 595/2009 - 597/2009; and PL119/2005) be renewed for their initial three (3) year term. We would also like to select an area south of PL391/2008 and PL 392/2008, linking it with PL 595/2009 and 119/2005, to be added to Parcel 2.

The above would be conditioned on several factors not limited to the following:

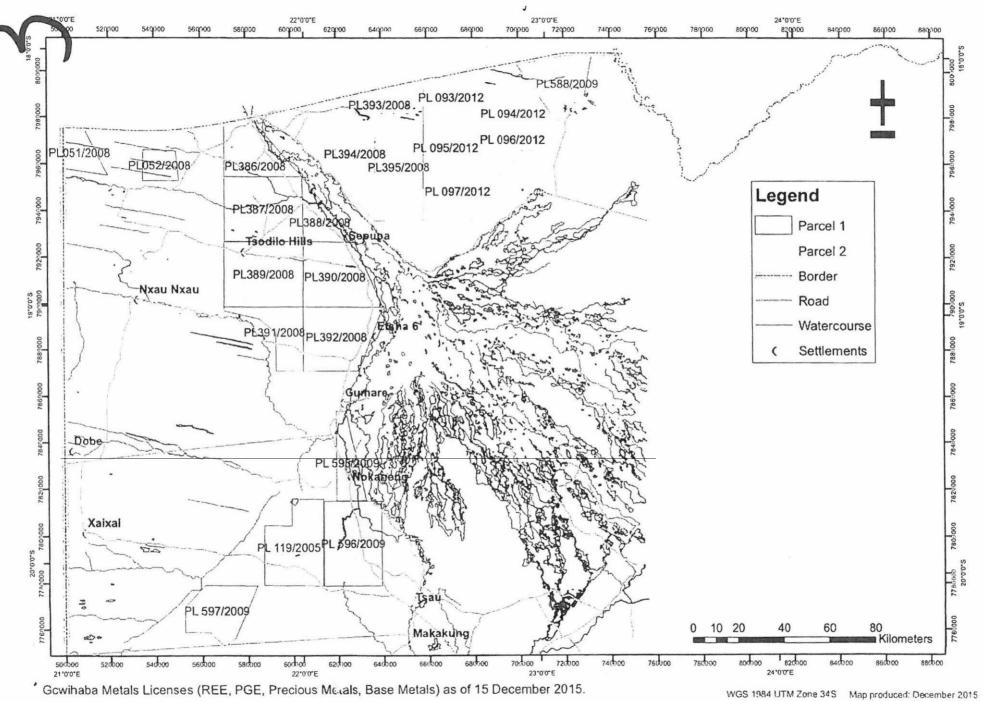
- The areas on the eastern side (Parcel 1) that we would be giving up would be off-limits to further license grants to other companies, i.e. if we relinquish them drey cannot then be then granted to another party/company - ever. However, if for some reason they would be granted to other parties, the Ministry would first give Gewihaba Resources the right of first refusal to take up the licenses.
- 2) Our licensees on the western side (Parcel 2) would be granted their initial 3 year term and at minimum expenditure levels and would be considered contiguous licenses under the Act. As of to date, we have spent 213,762,183 BWP (over 200m BWP) on our metal licenses and although we continue to proceed with our aggressive exploration, prior expenditures and a recognition of the down turn in the resource sector must be recognized.
- 3) In-fill areas in Parcel 2 would be granted to us,
- 4) The licenses would be granted to us no earlier than April 1, 2016.

We believe that such an arrangement would serve the interests of all parties.

	GCWIHABA RESOURCES (PTY) LTD
Yours sincerely.	COMPANY NO. 2003/292
· +	VAT REG. NO. C06643801113
1 A	P.O. BOX 3726
un cille"	GABORONE BOTSWANA
Dr. Michiel C.I de W	1 TEL/FAX: 3927144
- 1 Director and COO	Restored to the second se

Attached map

Directors: James M. Bruchs' (Managing), Machiel C.J. de Wit David J. Cushing American (Metherland, Retrieves assessed



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**REPUBLIC OF BOTSWANA** 

### PROSPECTING LICENCE

in favour of

### GCWIHABA RESOURCES (PTY) LTD

PROSPECTING LICENCE NO. 020/2018



Form II/Amendment

Prospecting Licence No.020/2018

Issued in terms of section 16 of the Mines and Minerals Act.

WHEREAS Gcwihaba Resources (Pty) Ltd a company incorporated under the laws of the Republic of Botswana (hereinafter referred to as "the holder") has made application for the right to prospect for metals on land to which the Republic of Botswana holds mineral rights.

AND WHEREAS provision is made under section 14 of the Act for the conferring of such rights by means of a prospecting licence:

NOW THEREFORE the Minister hereby grants to the holder the exclusive right to prospect for metals in the Licence area for a period of 3 years commencing on 01 October 2018 and ending on 30 September 2021.

- The Licence area shall be the area shown on the map annexed hereto in extent of five hundred and seventy square kilometres (570 km<sup>2</sup>), located in the Ngamiland District and more fully described in Annexure 1 hereto; and as reduced from time to time in accordance with the provisions of the Act.
- In accordance with section 70 of the Act, the holder shall, simultaneously with issuance of this licence, and thereafter on each anniversary thereof, pay to the Government at the Office of the Director of Mines, an annual charge equal to Five Pula (P5.00) multiplied by the number of square kilometers in the Licence area subject to a minimum annual charge of One Thousand Pula (P1000.00).
- 3. The holder shall incur the minimum annual expenditures and shall expeditiously carryout the programme of prospecting operations set out in Annexure II.

GIVEN under my hand at GABORONE this ..... day of in the year 2018.

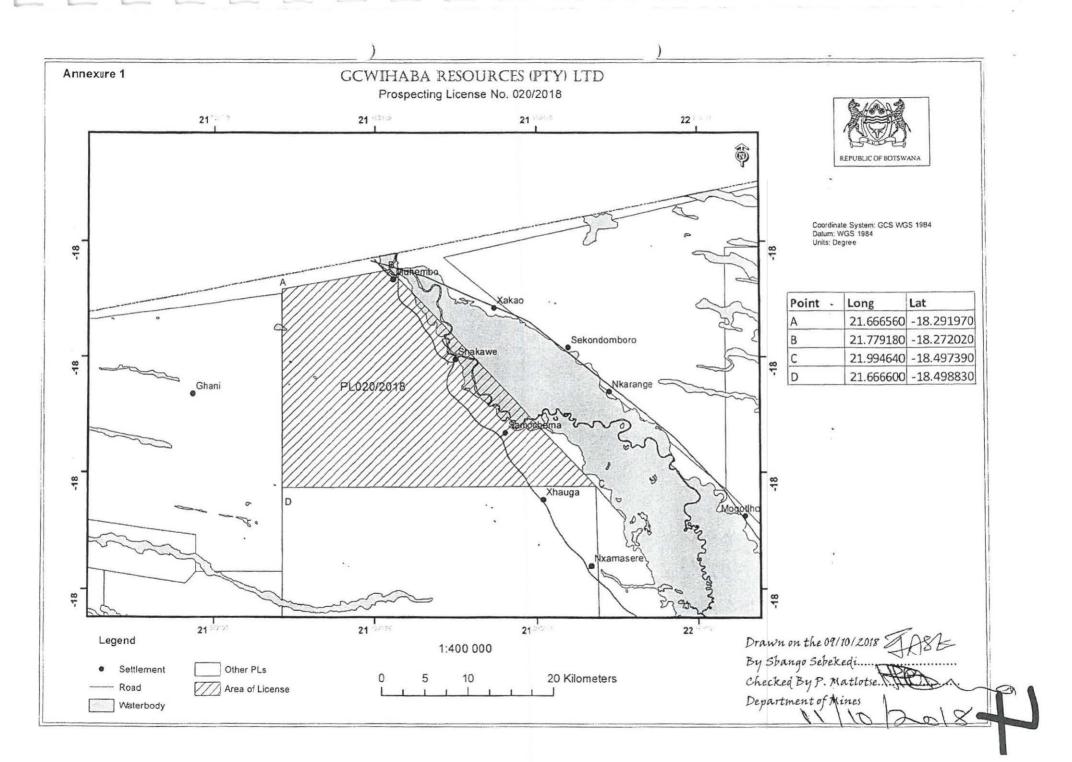
Minister Minister Ministry of Mineral Resources, Green Technology and Energy Security

### ANNEXURE I

The Licence area is five hundred and seventy square kilometres (570 km<sup>2</sup>) in the Ngamiland District defined by boundary lines, which shall be straight unless otherwise stated, joining successive points at the following coordinates in Geographic Coordinate System, Datum WGS 1984:

Point	Longitude (E)	Latitude (S)
А	21.666560	-18.291970
В	21.779180	-18.272020
С	21.994640	-18.497390
D	21.666600	-18.498830

Total Area =  $570 \text{ km}^2$ 



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### ANNEXURE II

Programme of prospecting operations	Proposed minimum expenditure
<ul> <li>Year 1</li> <li>i. Conduct detailed review and analysis of geological and geophysical historical data, and continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>ii. Petrographic analyses of existing drill cores.</li> <li>iii. Further assaying of existing drill cores.</li> <li>iv. Conduct detailed ground magnetic survey.</li> <li>v. Extension and completion of the tie-lines of the airborne gravity survey and conduct drilling.</li> <li>vi. ICP multi-element geochemical analysis of 220 drill holes targeting</li> </ul>	Seventy Thousand Pula
<ul> <li>metal anomalism.</li> <li>vii. Analysis of sulphide-rich mineral intersections from recently-drilled boreholes.</li> <li>viii. Water sampling for hydro geochemical analysis.</li> <li>ix. Complete a Preliminary Economic Assessment (PEA).</li> <li>x. Investigation of the transport of metals from bedrock into detectable anomalies and completion of geological model.</li> <li>xi. Geological interpretation in 2D (MapInfo) and 3D (Leapfrog) software.</li> </ul>	(BWP 70,000.00)
<ul> <li>Year 2</li> <li>i. Further Mineral Resource estimation and definition to expand the resource model beyond the initial resource report.</li> <li>ii. Analyses of recently flown (2013/2014) airborne magnetic, electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models.</li> <li>iii. Drilling of 32 drill holes totaling 6,300 meters targeting high grade magnetite material.</li> <li>iv. Assaying of drill core samples using at least XRF analysis.</li> <li>v. Geological modelling of the deposit using GOCAD.</li> <li>vi. A NI 43-101 MRE report and resource statement.</li> <li>viii. Conduct detailed metallurgical test work including DTR analysis and magnetic susceptibility measurements.</li> <li>viii. Carryout a Pre-feasibility studies.</li> <li>ix. Conduct diamond core drilling of priority targets.</li> <li>x. Conduct petrographic analyses of drill cores.</li> <li>xi. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ul>	Eighty Thousand Pula (BWP 80,000.00)

## 

Year 3	
<ul> <li>i. Define extended resources.</li> <li>ii. Drilling of 31 drill holes totaling 6,200 meters targeting high grade magnetite material.</li> <li>iii. Assaying of drill cores using XRF analysis.</li> </ul>	
<ul> <li>v. Geological modelling of the deposit.</li> <li>v. A third NI 43-101 MRE report and resource statement.</li> <li>vi. Conduct detailed metallurgical test work including DTR analysis</li> </ul>	Ninety Thousand Pula
<ul> <li>and magnetic susceptibility measurements.</li> <li>vii. Outline diamond core drilling of targets that have been identified as having the potential for an inferred resource.</li> </ul>	(BWP 90,000.00)
<ul><li>viii. Conduct petrographic analyses of drill cores.</li><li>ix. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li></ul>	
x. Conduct further detailed geophysical and drilling to prepare for an NI 43-101 Mineral Resource Report.	

### GCWIHABA (PTY) LIMITED

### Co 2003/292

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 21532 Fairgrounds Office Park Gaborone, Botswana Registered Address RSM House – Plot 39 Plot 39, Commerce Park Gaborone, Botswana

### TEL / FAX (267) 392-7144

June 30, 2021

To: Madame Selinah Mogojwa Director of Mines Department of Mines Private Bag 0049 Gaborone, Botswana

### Re: License Renewal Application for PL020/2018, PL021/2018, PL022/2018, PL023/2018, and PL024/2018 – Metals Prospecting Licenses

Dear Madame Director,

Gcwihaba Resources (Pty) Ltd. (herein Gcwihaba or the Company) is hereby applying for the first-2 year renewal of Metals Prospecting Licenses PL020/2018, PL021/2018, PL022/2018, PL023/2018, and PL024/2018.

The Company was initially granted 7 contiguous Metals Prospecting Licenses effective the 1<sup>st</sup> October 2018 for 3 years. The 7 contiguous licenses were:

- PL020/2018 (570.0 km2);
- PL021/2018 (964.9 km2);
- PL022/2018 (317.1 km2);
- PL023/2018 (978.6 km2);
- PL024/2018 (807.3 km2);
- PL025/2018 (454.5 km2); and
- PL026/2018 (828.1 km2).

The Company is relinquishing 50.7% (2,496 km2) including the Tsodilo Hills area (see Figure 1). The relinquishment includes two licenses, PL026/2018, and PL025/2018, relinquished in their entirety (100%). Accordingly, the Company as such is renewing 49.3% of the original area of the 7 contiguous licenses aforementioned as follows in Table 1 and Figure 1:

			quish	Renew	
License	Original Area	Area	Percentage	Area	Percentage
PL020/2018	570	66.8	11.72%	503.2	88.28%
PL021/2018	964.9	367.76	38.11%	597.14	61.89%
PL022/2018	317.1	0	0.00%	317.1	100.00%
PL023/2018	978.6	779.24	79.63%	199.36	20.37%
PL024/2018	807.3	0	0.00%	807.3	100.00%
PL025/2018	454.5	454.5	100.00%	0	0.00%
PL026/2018	828.1	828.1	100.00%	0	0.00%
TOTAL	4,920.50	2,496.40	50.73%	2,424.10	49.27%

 Table 1. Area of the 7 contiguous metals licenses relinquished (grey) and renewed (green) in this application.

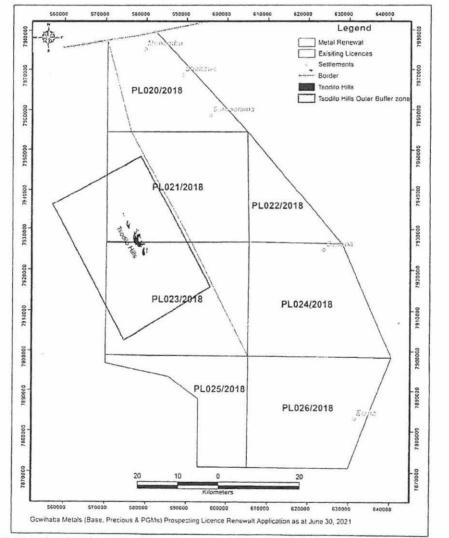


Figure 1. Map showing the original 7 contiguous metals licenses, the areas relinquished, and the areas renewed in this application. Also shown is the Tsodilo Hills area as part of the relinquished area.

### Effects of Covid-19 on the Company

It is well known and documented, the Covid-19 pandemic has had a substantial negative impact on all areas of life including individuals, all industries, and all businesses alike, and the business of exploration and prospecting is no exception.

The local and global constraints, inclusive of financial constrictions, placed on us all have meant that conducting any form of work and normal business for an exploration Company such as Gcwihaba has been hard and to near impossible.

The Ministry recognized the effects of the Covid-19 pandemic on the economy, including the mineral industry, and as such the Company was granted a forbearance of one (1) year of prospecting programme for these prospecting licenses (PL 020-026/2018). The company has somewhat been able to outlast the ongoing and debilitating effects of the pandemic and is looking to make up for the lost time in its activities on this next renewal (See Form1 and an overview below).

### **Expenditure:**

The total expenditure of Gcwihaba these licenses discussed as PL 020-026/2018 and their previous incarnations since inception through December 31, 2020 is over **\$25M USD in expenditures and services.** 

A brief summary of the work completed to date and the **Form 1** planned work program is described below. Reference is made to **Form 1** (attached hereto) and **Appendix IIV as a summary of the work conducted**.

### General Summary of Work Conducted to Date on these Gcwihaba Licenses

The Company has had an extremely successful exploration program, and thus far has defined successfully Botswana's only exploitable resource of iron. This Xaudum Iron Project will produce an iron concentrate product which will be very similar to the iron ore concentrate fines and pellets feed produced from premium iron ore producers in the U.S., Canada, Brazil, Sweden etc. and attract a premium value compared to standard global iron ore products.

The Company's independent scoping studies into the feasibility of the Xaudum Iron Project for iron ore mining show very exciting results suggesting that the project is highly feasible and will likely become the country's first iron ore mine and bring in significant wealth for Botswana and Batswana. This study indicates that the project could have multiple positive NPV scenarios which are summarised below ranging from:

- 1. Stage 1: Low Risk venture Start Up Mine producing product beneficiated to Ferrosilicone (FeSi) and sold to southern African mines;
  - FeSi sales to regional diamond and coal mines
  - ◊ Small scale start-up operation 1.8 Mtpa ROM

- @ 50 year plus life of mine
- NPV = ~\$850 million USD Expected upside to NPV \$1,350 million USD
- ◊ IRR = ~82%
- ♦ Low CAPEX = ~\$200 million USD
- 0 5 year payback
- ♦ 68% operating margin
- Stage 2: Low Risk venture (as in it's a "no brainer")Base case iron ore concentrate shipping mine, shipping a moderate level iron concentrate mine;
  - 0 Magnetite concentrate produced via magnetic concentrator at 67% Fe
  - Product transported to railhead at Grootfontein Namibia
  - Railed to Walvis Bay
  - Shipped to international markets such as Europe, India, and China
  - Medium Size Mine 7.2 Mtpa ROM
  - ◊ 50-year plus life of mine
  - NPV = ~\$82 million USD Expected upside to NPV \$302 million USD
  - ◊ IRR = ~19%
  - ♦ Low CAPEX = ~\$260 million USD
  - ◊ 9-year payback
  - ♦ 35% operating margin
  - O Low Risk Venture
- 3. Stage 3: Full Size Iron Ore Mine Magnetite Concentrate international sales through Walvis Bay
  - Magnetite concentrate produced via magnetic concentrator at 67% Fe
  - Magnetite concentrate further beneficiated to Pellets via pelletizing plant
  - Upgraded Rail Line From Mine to Walvis Bay
  - Output Description Upgraded Port at Walvis Bay
  - Shipped to international markets such as Europe, India, and China
  - Large Size Mine 63 Mtpa ROM
  - 60-year plus life of mine
  - 0 NPV = ~\$287 million USD Expected upside to NPV \$2,600 million USD
  - ◊ IRR = ~15%
  - Significant CAPEX = ~\$3,746 million USD
  - ◊ 10-year payback
  - 0 34% operating margin
  - Moderate Risk Venture but huge job creation and secondary job and wealth creation for Botswana

In addition to this, the Company has explored successfully within the licenses for the following that could potentially become significant mines also:

- Copper and Cobalt: Sedimentary Cu/Co (Katanga type sediments) within the entire Neoproterozoic package;
- 2. Xaudum Gold: Gold mineralisation linked to the Xaudum Iron Formation; and



3. Rare Earth Element: Skarn REE and Cu targets. These are secondary skarn targets hosted within marbles (carbonate) rich lithologies and include significant enrichment in REE and Cu.

### **Metals Exploration Work Conducted**

- Exploration Drilling
  - $\diamond$  Number of holes drilled = 556
  - Meters Drilled = 83,546.95 meters
  - Assays taken = 12,898
  - Ø Geotechnical and Structural Logged Intervals = 28,878
- Xaudum Iron Project Evaluation
  - Ø Block 1 Resource Defined = 441 million tonnes @ 29.4% Fe
  - Metallurgy results show it can be Beneficiated to = ~67.2% Fe concentrate
  - Resource Reporting NI 43-101 Mineral Resource Estimate Technical Report (<u>www.sedar.com</u>)
  - Number of Holes Drilled = 156
  - Meters Drilled = 30,935.0 meters
  - Meters of mineralisation = 9,022 meters
  - Assays performed = 9,221
  - Davis Tube Recovery (DTR) bulk composite test results conducted = 19
  - Density Measurements 8,680
- Geophysics
  - ◊ Reflex Gyro Down-hole surveys = 116
  - ♦ Ground Magnetic Survey line km (20 and 50 m spacing) = 22,749
  - Airborne Electromagnetic Magnetic (EM) Survey Flown line km (200m line spacing) = 16,933. Collecting electromagnetic (EM), magnetic and radiometric data.
  - Airborne Gravity Survey Flown line km (200m line spacing) 10,392
  - These surveys have contributed greatly to advancing the structural and geological modelling of the area, which have aided immensely in exploration targeting.
- General Exploration
  - Hydro Geochemical Analysis, water analysis taken = 283
  - Mineralogy Reports = 88
  - Geochronology Dates taken (Samples) = 16
  - Passive seismic data points = 116
  - Various local and regional mapping interpretations and cross-sectional analysis
  - Various 3D modelling of regional scale and local scale
  - Copper Target soil samples for assays = 5,071. These soil samples were collected and sieved to 180 mesh from the sub-deflation soil zone during the dry season. The first targets soil samples were sent for a specialized partial digestion technique which has been specially developed for sampling in covered terrains called TerraLeach at Intertek laboratories Australia. This data was validated and further studied to remove geomorphological

controls and highlighted a significant target of interest that has be prioritized for drilling.

- GoCad Xaudum Iron 3D model, for specific iron resource definition, Verified by SRK
- Resource Reporting
  - 0 NI 43-101 Mineral Resource Estimate Technical Report (www.sedar.com).
  - Independent Scoping level Techno-Economic Study into the feasibility of the iron project.
  - Scoping for a Preliminary Economic Assessment (PEA) for the Xaudum Iron Project (NI 43-101) to move it forward towards mining and define a road map for development.

The reported Block 1 Mineral Resource represents only a fraction of the potential iron mineralization delimited by the ground magnetics. An Exploration Target for the entire strike of the XIF is estimated to be 5 to 7 billion tonnes of potential resource at 15-40% Fe, which will also be able to be beneficiated to a ~67% Fe product also, which makes the Xaudum Iron Projects one of the largest iron projects in Africa.

The Net Revenues for the Xaudum Iron Project will be massive, and as such the revenues to the government from Tax and Royalties from these projects will be huge, far larger than the expected returns for some other notable projects that are being developed in Botswana by other companies, Table 2 gives an indication of this.

Table 2. Generalised Net Revenue Projects for the Gcwihaba Resources projects vs. generalised Net Revenues for a selection of Botswana Mines. Debswana All In means all of the Debswana mining activities in a generalised averaged revenue income range over recent years. Details on the non-Gcwihaba mines and operations are for generalised comparison only, every effort has been made to source accurate information although some variation may exist.

	Million Tonnes Per Annum	Life of Mine	Net Revenue Per Year (Million or Billion USD)	Net Revenue Life of Mine (Million or Billion USD)
<b>Stage 1</b> : Gcwihaba Iron Ore Mine FeSi Production	1.8	59	~\$480M USD	~\$28.3B USD
<b>Stage 2</b> : Gcwihaba Iron Ore Mine Base Case	7.2	59	~\$200M USD	~\$11.8B USD
<b>Stage 3</b> : Gcwihaba Iron Ore Mine Full Size Project	63	76	~\$2.1B USD	~\$153.3B USD
Khoemacau Copper Mine	~5.8	22	~\$41M USD	~\$900M USD
Lucara Karowe Diamond Mine (Open Pit)	~3.0	14	~\$222M USD	~\$4.9B USD
Debswana (All In)	-	-	~\$3 - 3.5B USD	-

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As discussed, the Company also has also a Rare Earth Element prospect, and has defined an Exploration Target of over 76 to 92 Million Tonnes of Skarn Deposit which may contain 0.05% to 1% Total Rare Earth Element Oxide (TREO). Which at today's Rare Earth Element prices is over \$400 million to over \$10 billion US dollars of in-situ value in terms of Rare Earth Elements. This in combination with the potential the Company has shown for Iron, Copper, Cobalt, Gold and REE within these same Katanga meta-sediments and associated basement complex makes these licenses very exciting indeed.

### <u>Strategic Partnership with Mineral Development Company Botswana (Pty) Ltd. to</u> <u>obtain Equity Funding and Accelerate Work on the Xaudum Iron Project</u>

The Minerals Development Company Botswana (MDCB) identified the Xaudum Iron project as a potential strategic project for Botswana and as such a key and exciting investment for MDCB. The MDCB scoping studies undertaken during their extensive review of the project identified a number of development scenarios that could be economically successful, ranging from small scale non-traditional start-up options through to mid-size base-case scenarios, as well as large-scale opportunities all of which could create significant revenue and jobs adding significantly to the Botswana's mining portfolio. As such the MDCB board approved the Xaudum Iron project for investment at every stage and again at its final stage on the 15<sup>th</sup> December 2020 when it sent the investment for final approval to the MDCB's main shareholder the Ministry of Minerals Resources, Green Technology and Energy Security ("MMGE").

This exciting strategic partnership between Gcwihaba and the MDCB on the Xaudum Iron project in Botswana. The Xaudum Iron project has reached a stage of project development where it is crucial that the project is taken forward with the right entity, a strategic partner, to develop this project to economic success. MDCB is in uniquely positioned to partner with Gcwihaba on the development of this iron project as they have in house expertise and contacts with industry leading individuals that can be brought on board to help enable Gcwihaba to bring the right expertise at the right stages of the project. This will ensure Gcwihaba can deliver the Xaudum Iron project on budget and on schedule. This will also allow Gcwihaba to take full advantage of synergies and cross industry partnership to help this project move towards mining in the most efficient and economic manner to deliver high quality iron mining.

Below is a short timeline to show the MDCB investment process into the Xaudum Iron project and stages that the project has been through.

### February 2018

 Managing Director of Gcwihaba and MDCB Chairman meet and go over the project and introduce the project as a funding opportunity

### April 2018

Confidentiality Agreement signed by both parties

### April 2018 to December 2018

• Multiple meetings and documentations shared by Gcwihaba relevant to the project

### July 2019

- Meeting with new MDCB management personnel to re-introduce the Xaudum Iron project as a funding opportunity
- Project taken forward by MDCB management for due diligence review

### October 2019

• Kick off meeting with MDCB due diligence team

### November 2019

- MDCB undertake a detailed due diligence technical review of the project using independent technical team
- All data is uploaded into data room for this due diligence process
- Due diligence review concludes the project is a worthy investment for the MDCB

### December 2019

- Project as an investment opportunity is presented to the MDCB main board
- Board recommend that the project is reviewed by the MDCB Investment Committee
- Investment Committee reviews and approves the project as an investment opportunity for the MDCB, subject to the main board approving it
- Main MDCB board approve the investment case for further technical review

### Jan 2020

• More data including summary documents and resource development plan added to data rooms for more detailed technical review

### February 2020

- Final meeting with the due diligence team to finalise the detailed technical review
- Technical Review presented to the MDCB Investment Committee
- Investment committee approves the investment case for the project once more

### April 2020

 The main MDCB board and Investment Committee was disbanded and would require reconstitution before they could (again) hear the investment case for funding the Xaudum Iron Project

### August 2020

MDCB board and Investment Committee were both reformed

### September 2020

The investment case was presented again to the new Investment Committee



- New Investment Committee agreed again that the project was an investment opportunity the MDCB should progress
- The project was again taken forward to the new main MDCB board for final approval

### October 2020

- The Xaudum Iron project investment opportunity was presented to the main MDCB board and approved
- The main board recommended that the MDCB take the investment opportunity through the final stages
- MDCB conducted a detailed Know Your Customer (KYC) and Legal review with a mind to finalising the investment in the project

### November 2020

• MDCB finalised the Scope of Work document for the Investment Committee

#### December 2020

- The Legal and KYC review were completed successfully
- KYC and legal review presented to the MDCB Investment Committee
- Investment Committee once again approved the project as an investment opportunity to take to the main MDCB board for the final time
- The main MDCB board approved the project as an investment for the final time on the 15<sup>th</sup> December 2020
- MDCB sent all the documentations and reports to the Ministry and asked the Ministry to ratify the MDCB board decision and approve the Xaudum Iron project for investment by the MDCB

#### January 2021

• Documentation and data room was presented to the Ministry for Ministry to review

#### February 2021

 Xaudum Iron project was presented to the Permanent Secretary Mr. Mmetla Masire by Gcwihaba

#### May 2021

- May 14<sup>th</sup> MDCB presented the case for investment in the Xaudum Iron project to the Minister Honourable Minister Lefoko Maxwell Moagi
- May 24<sup>th</sup> the Honourable Minister Lefoko Maxwell Moagi, and Director Sellinah A Mogojwa, visit the Gcwihaba Xaudum Iron project in the northwest Botswana to appreciate the project

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### General Summary of what is next for the Gcwihaba Projects

**Iron Ore Mine Development:** The Company is currently exploring options for developing the XIF resource. To this end the Company is looking to initiate a Preliminary Economic Assessment (PEA) for this project. The objective of this PEA will be to conduct an early stage economic analysis of the potential viability of the mineral resources and to develop a general strategy to move the project forward, given its premium ore potential. The PEA will include detailed studies into; processing and engineering strategies; equipment and technology requirements; transport and infrastructure requirements; identification of potential environmental and social aspects; associated costs such as capital costs, operational costs, and life-cycle costs; and, anticipated revenues. The potential for a small scale start-up mine supplying magnetite to a small scale ferrosilicon (FeSi) plant which will sell FeSi products to the mines in Botswana and the mines in the local SADC area is also being explored as a way of initiating mining at a small scale while a larger scale mine and infrastructure can be explored and developed.

**Copper and Cobalt Exploration:** Remaining soil samples will be sent for TerraLeach analysis to assist in refining the high priority Cu and Co targets so focused drilling of these targets can occur.

**Rare Earth Element Exploration:** Advance the next stage of REE drilling and exploration program to further define the grade and tonnage of these REE deposits.

**Gold Exploration:** Holes identified for further assay will be sent and will lead to drill target generation and drilling of these targets to define grades and tonnages further.

### Summary

In brief the following exploration and development programs will be undertaken (the following is a summary and extrapolation of the detailed program in Form 1):

- 1. Preliminary Economic Assessment (PEA) into the Xaudum Iron Project
  - Economic Viability of the project best Option and Approach
  - Trade-off studies for achieving the project objectives
  - Process Design Criteria (PDC)
  - Process description
  - Principle equipment definition
  - Principle Opex calculations for the plant
  - Block Flow Diagrams (BFD's) for beneficiation options
  - Preliminary capital and operating cost estimates
  - Assessment of the positive impact to the Botswana economy given its drive to diversify its economy away from Diamond based revenue
  - ♦ Environmental Study
  - ♦ PEA will review:
    - o Infrastructure
      - o Mine, plant, beneficiation

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- o Transport road and rail
- o Water supply
- o Electrical power availability
- o Housing, and communications
- Human Capacity building local employment and skill development generated
- O Technology + methodology improvements (green tech)
- This PEA will lead into a development strategy for the Xaudum Iron Project, which will include resource definition, and Feasibility work and studies to lead into mine development
- 3. General Development of the Iron ore mine, with a 50 plus year mine life
- 4. General Exploration and drilling into the Copper, Cobalt, and Gold targets in the licences
- 5. Further Exploration to define better the exciting Rare Earth Element (REE) Skarn prospect
- This will included but not be limited to; drilling, assaying, engineering studies, technical studies, economic studies, geotechnical and hydrological sampling and studies, and metallurgical sampling and studies.
- 7. Further Geophysical Ground work and studies are planned, alongside mapping.
- 8. Plus general Feasibility Studies and Assessments.

All of this will be undertaken in the next phases of work by Gcwihaba.

### Financing:

Tsodilo Resources Limited will continue financing the evaluation of these Gcwihaba licenses, please see the attached *Resolution of Directors*.

### Social Responsibility:

Local manual workers are benefiting from the project through temporary jobs. Thousands of permanent jobs will be created when the Xaudum Iron Project becomes a mine.

### Concluding remarks:

Gcwihaba Resources (Pty) Ltd is fully committed to complete the evaluation and assessment of the Xaudum Iron Formation Project and ultimately develop the first iron ore mine in Botswana. We have enjoyed a positive and close relationship with the MMGE and look forward to continue with this project to the successful completion to the benefit of the local community and Botswana in general once the application for the renewal has been approved.

Respectfully submitted,

James M. Bruc

Managing Director

### FIRST SCHEDULE

FORM I

This application is in terms of Section 13 of the Minerals and Mineral Act, No. 17 of 1999

(Attach additional sheets or annexure where necessary)

1. <u>Name</u> (and nationality where appropriate). In the case of Company attach copy of certificate of incorporation:	Address in Botswana: P. O. Box 3726, Gaborone
GCWIHABA RESOURCES (PTY) LTD (2003/292)	Tel/fax. 3927144
Please refer to <b>Appendix I</b> for the certificate of incorporation.	
2. Full name(s) of partners/directors/members of association	<b>Nationality</b>
Directors – Mr. J. M. Bruchs (Managing Director) <sup>1</sup> , Jonathan R. Kelafant <sup>1</sup> , Blackie Marole <sup>2&amp;3</sup> , Dr. Gary Allen Bojes	<sup>1</sup> American, <sup>2</sup> Motswana, <sup>3</sup> Botswana Resident
3. <u>Name(s) of sharcholder</u> who is a beneficial owner of more than 5% of the issued capital	Nationality Tsodilo Resources Limited is
Tsodilo Resources (PTY) Limited – 100%	a listed public company in Toronto, Canada.

4. Details of financial status (attach bankers reference and most recent financial statements)

The December 31, 2020 Tsodilo Resources (Pty) Ltd annual report is included in **Appendix II.** 

The December 31, 2020 Annual Financial Statements of Gewihaba Resources (Pty) Ltd is included in **Appendix III.** 

**Note:** GCWIHABA RESOURCES (PTY) LTD. will be adequately funded during all times of operation. In addition, services and goods may be provide at market price to Gcwihaba by Tsodilo Resources Ltd or its subsidiaries and will be booked by Gcwihaba as primary project loans or held as account payables.

5. Technical competence (attach curriculum vitae of professionals to be involved)

Tsodilo Resources (Pty) Ltd subsidiary company in Botswana, Gewihaba Resources (Pty) Ltd ("Gewihaba") will manage the project. The curriculum vitae of the personnel responsible for providing guidance to the project and conducting field exploration are included in **Appendix IV**.

6. Experience (established track record is an advantage but is not essential)

Tsodilo Resources Limited has managed the diamond exploration programs for both its subsidiary companies, notably Newdico and Gcwihaba since 1988 and 2003 respectively. In addition, the sister company, Newdico (Pty) Ltd explored for diamonds in joint venture with Forward your application to: The Director, Department of Geological Survey, Private Bag 14, Lobatse, Botswana.

Tinto Botswana Explorations Pty Ltd during the mid-1980's, and with Rainbow Resources in PL's 35 & 36/97 in 1998.

The Company, through its subsidiary Bosoto (Pty) Ltd, have just finished a first phase evaluation program for its BK16 project in the Orapa area. A total of 20 DD holes (3,727 m) were drilled in 2015, and 14 DD pilot (3,220 m) and 14 LDD (24 inch) evaluation holes (3,119 m) drilled in 2017. A 10 tph DMS treatment plant was bought and is being commissioned for treatment of the 2,000-ton bulk sample from the LDD work.

To date, Gcwihaba's efforts has resulted in the successful identification of a south-western extension of the Zambian Copper belt over its prospective licences and thus has potential to contain Cu, Co and Ni deposits like those in Zambia and DRC, which was the focus of our joint venture partners First Quantum Minerals (Faloxia subsidiary). Several Cu targets have been identified for further exploration.

Further to this, Gcwihaba has discovered a major iron ore resource of 441 Mt at 29.4% in Block 1 of the Xaudum Iron Formation (XIF) and potential Exploration target of 5 to 7 Billion tonnes at 15-40 % Fe within the area termed the XIF. The XIF extends at least over two of the PL's being applied for in this application (PL Folio A and PL Folio B). A press release that explains the Block 1 NI 43-101 Mineral Resource Estimate (MRE) report can be found at www.tsodiloresources.com, and the NI 43-101 MRE report filled under www.sedar.com and attached to this application, see **Appendix V**.

7. Description of area applied for (attach plan and coordinates in Latitude(S) and Longitude(E))

A map of the area applied for is attached together with the corner co-ordinates in **Appendix VI**. This is for renewal of prospecting licence blocks in the Ngamiland area of NW Botswana that include:

PL020/2018 PL021/2018 PL022/2018 PL023/2018 PL024/2018

The co-ordinates in Geographical WGS84 datum and a shape file are included separately on a CD attached to this application.

The initial licence grant is included in Appendix VII.

Forward your application to: The Director, Department of Geological Survey, Private Bag 14, Lobatse, Botswana,

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### Government of the Republic of Botswana Ministry of Minerals Energy and Water Resources

8. Name(s) of mineral(s) applied for	Period applied for:
Metals	1 <sup>st</sup> - 2-year Renewal Application.
9. Proposed programme of prospecting operations:	<u>Proposed minimum</u> expenditure per block
<ul> <li>Year 4: If warranted:- Continued Advanced Evaluation of the Xaudum Iron Formation (XIF) which includes but not limited to Company signed document: MDCB Project Scope of Work for the XIF which is attached in Appendix XI.</li> <li>Plus additional exploration efforts for iron mineralisation and continued Cu, Co, Au, Ni and REE mineralisation Exploration</li> <li>i. Analyses of flown airborne magnetic, electromagnetic, radiometric, and gravity surveys, as well as continued upgrading of ground magnetic surveys, and building of geophysical and geological models for the exact extend and stratigraphy of the Zambian Copper Belt rocks over the permits (PL020/2018 to PL026/2018).</li> <li>ii. Geological interpretation in 2D and 3D using Gocad and Geosoft software.</li> <li>iii. Additional petrographic analyses of the existing drill cores.</li> <li>iv. Further assaying of existing drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> <li>v. Detailed ground magnetic survey over selected targets.</li> <li>vi. Possible extension and completion of the tie lines of the airborne gravity survey covering ALL the licences under application. Approximately 8,000 lines of 22,000-line kilometres completed to date with flight-line spacing of 500 meters and tie-line spacing of 4,500 metres.</li> <li>vii. Drilling of eight holes within Block 2 in PL022/2018 totalling 2,000 meters targeting high-grade magnetite material.</li> <li>viii. ICP multi-element geochemical analysis (assaying) of 220 drill holes targeting metal anomalism in the Kalahari cover and litho-geochemistry of bedrock. Approximately 4,500 samples to be taken over PL020/2018 to PL024/2018 inclusive.</li> </ul>	Year 4: BWP 1,000,000.00 per PL block

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ix. Analysis of sulphide-rich mineral intersections from drilled boreholes by ICP-MS and/or ICP-AES.	
x. Sampling of water from FQM and Tsodilo Resources	
boreholes for hydro geochemical analysis, by multi-	
element ICP-MS and Cu-isotope analysis, approximately	
300 samples.	
xi. Complete a Preliminary Economic Assessment (PEA) of the Xaudum Iron Formation in collaboration with a	
reputable resource assessment company. This will lay the	
foundation of a pre-feasibility study for the development	
of iron ore mining options further, depending on previous	
work and the scale of potential collaborations to plan the	
eventual exploitation of this iron ore resource.	
xii. These Preliminary Economic Analysis (PEA) studies	
will be for the development of defined resources to study	
iron ore mining start-up options and beneficiation within	
Botswana, and industrial collaborations for the	
exploitation of this iron ore resource. Market Studies into	
potential marketing options for the XIF products.	
Transport studies, Infrastructure analysis, capital	
expenditure and operating costs analysis for miming	
options. PEIA Environmental studies at PEA level.	
xiii. A second NI 43-101 Mineral Resource Estimation and	
definition for Block 2a within the Xaudum Iron	
Formation (XIF) that stretches over the two PL's	
PL020/2018 and PL021/2018 to expand the resource	
model beyond the initial block 1 resource report.	
Year 5: If warranted: -	
i. Continued Advanced Evaluation of the Xaudum	Year 5: BWP1,000,000.00
Iron Formation (XIF) which includes but not limited	per PL Block
to Company signed document: MDCB Project Scope	
of Work for the XIF which is attached in Appendix	
XI. Plus additional exploration efforts for iron	
mineralisation and continued Cu, Co, Au, Ni and	
REE mineralisation Exploration Drilling of 32 drill	
holes in the area referred to as Block 2b within	
PL020/2018 totalling 6,300 meters targeting high-grade	
magnetite material.	
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ii. Assaying of drill core samples using at least XRF	

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<ul> <li>iii. Detailed metallurgical test work conducted including DTR analysis and magnetic susceptibility measurements taken for percent magnetite information.</li> <li>iv. Pre-feasibility studies into iron ore mining start-up options and beneficiation within Botswana, and industrial collaborations for the exploitation of this iron ore resource.</li> <li>v. Hydrological investigations and geotechnical investigations and lab tests.</li> <li>vi. Continuation of 1<sup>st</sup> year Cu, Co, Au, Ni and REE exploration work.</li> <li>vii. Diamond core drilling of priority targets.</li> <li>viii. Petrographic analyses of drill cores.</li> <li>ix. Assaying of drill cores using a variety of techniques (AAS, 1CP, and XRF, ME).</li> <li>x. Drilling of 31 drill holes in the area referred to as Block 2b within PL021/2018 totalling 6,200 meters targeting high-grade magnetite material.</li> <li>xi. Assaying of drill cores using XRF analysis.</li> <li>xiii. Geological modelling of the deposit.</li> <li>xiii. A third NI 43-101 MRE report and resource statement for Block 2b.</li> <li>xiv. Detailed metallurgical test work conducted including DTR analysis, magnetic susceptibility measurements, milling and liberation test work, Low Intensity Magnetic Separation (LIMS) test work, High Intensity Magnetic Separation (1MS) test work, article size determinations, and chemical analysis of separation concentrates. Continuation of 2<sup>nd</sup> year work.</li> <li>xv. Outline diamond core drilling of targets that have been identified as having the potential for an inferred resource.</li> <li>xvii. Assaying of drill cores using a variety of techniques (AAS, ICP, and XRF, ME).</li> </ul>	
xviii. Based on analytical results prioritize the targets for	
further detailed geophysical and drilling program to prepare for a NI 43-101 Mineral Resource Report.	

Forward your application to: The Director, Department of Geological Survey, Private Bag 14, Lobatse. Botswana,

10. Details of Botswana prospecting licences held within the preceding 10 years by the applicant or any person controlling, controlled by or under joint or common control with the applicant.

Please refer to Appendix VIII for the list of licences.

11. Disclose any other information material to the application

Tsodilo Resources (Pty) Ltd. ("Tsodilo") has actively explored in Botswana since 1988, successfully managing both the Newdico, Bosoto and Gewihaba prospecting programs for diamonds, metals and radioactive minerals in NW Botswana. During these periods, the companies have gained considerable experience working within remote and logistic-challenging areas. In addition, the exploration and management teams are technically qualified and highly experienced in the various disciplines of diamond, as well as metals exploration. These company attributes have contributed to the successful discovery of new kimberlitic bodies and an extension of the Zambian Copper belt in NW Botswana. Tsodilo resources and its sister companies are therefore well equipped to explore for both diamonds and metals.

The Company has had an extremely successful exploration program, and thus far has defined successfully Botswana's only exploitable resource of iron. This Xaudum Iron Project will produce an iron concentrate product, which will be very similar to the iron ore concentrate fines and pellets feed produced from premium iron ore producers in the U.S., Canada, Brazil, Sweden etc. and attract a premium value compared to standard global iron ore products.

The Company's independent scoping studies into the feasibility of the Xaudum Iron Project for iron ore mining show very exciting result suggesting that the project is highly feasible and will likely become the country's first iron ore mine and bring in significant wealth for Botswana and Batswana:

This study indicates that the project could have multiple positive NPV scenarios which are summarised below ranging from:

- 1. Stage 1: Low Risk venture Start Up Mine producing product beneficiated to Ferrosilicon (FeSi) and sold to southern African mines;
  - ◊ FeSi sales to regional diamond and coal mines
  - ◊ Small scale start-up operation 1.8 Mtpa ROM
  - ◊ @ 50 year plus life of mine
  - ◊ NPV = ~\$850 million USD Expected upside to NPV \$1,350 million USD
  - ♦ IRR = ~82%
  - ♦ Low CAPEX =  $\sim$ \$200 million USD
  - ◊ 5 year payback
  - ♦ 68% operating margin

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- 2. Stage 2: Low Risk venture (as in it's a "no brainer")Base case iron ore concentrate shipping mine, shipping a moderate level iron concentrate mine;
  - Magnetite concentrate produced via magnetic concentrator at 67% Fe
  - O Product transported to railhead at Grootfontein Namibia
  - A Railed to Walvis Bay
  - ◊ Shipped to international markets such as Europe, India, and China
  - ◊ Medium Size Mine 7.2 Mtpa ROM
  - 0 50-year plus life of mine
  - ◊ NPV = ~\$82 million USD Expected upside to NPV \$302 million USD
  - $\diamond$  IRR = ~19%
  - ◊ Low CAPEX = ~\$260 million USD
  - ◊ 9-year payback
  - ◊ 35% operating margin
  - O Low Risk Venture
- Stage 3: Full Size Iron Ore Mine Magnetite Concentrate international sales through Walvis Bay
  - Magnetite concentrate produced via magnetic concentrator at 67% Fe
  - Magnetite concentrate further beneficiated to Pellets via pelletizing plant
  - O Upgraded Rail Line From Mine to Walvis Bay
  - O Upgraded Port at Walvis Bay
  - Shipped to international markets such as Europe, India, and China
  - ◊ Large Size Mine 63 Mtpa ROM
  - ♦ 60-year plus life of mine
  - ◊ NPV = ~\$287 million USD Expected upside to NPV \$2,600 million USD
  - $\Diamond$  IRR = ~15%
  - ◊ Significant CAPEX = ~\$3,746 million USD
  - 0 10-year payback
  - ◊ 34% operating margin
  - Moderate Risk Venture but huge job creation and secondary job and wealth creation for Botswana

In addition to this, the Company has explored successfully within the licenses for the following that could potentially become significant mines also:

- 1. Copper and Cobalt: Sedimentary Cu/Co (Katanga type sediments) within the entire Neoproterozoic package;
- 2. Xaudum Gold: Gold mineralisation linked to the Xaudum Iron Formation; and

 Rare Earth Element: Skarn REE and Cu targets. These are secondary skarn targets hosted within marbles (carbonate) rich lithologies and include significant enrichment in REE and Cu.

Forward your application to: The Director, Department of Geological Survey, Private Bag 14, Lobatse. Botswana.



See the following Appendices for details of work performed within PL020/2018 to PL026/2018:

- APPENDIX IX Summary: Work Performed (XIF)
- APPENDIX X Economic Evaluation of XIF
- APPENDIX XI MDCB Project Scope of Work for the XIF
- APPENDIX XII Summary: Work Performed (Cu Exploration)
- APPENDIX XIII Summary: Work Performed (Co Exploration)
- APPENDIX XIV Summary: Work Performed (REE)

Gewihaba's environmental plan pertaining to its exploration programs is contained in APPENDIX XV.

I, James M. Bruchs being duly authorised, declare that the applicant and its partners/members/directors/shareholders are persons qualified in terms of Section 6 of the Mines and Minerals Act to hold a Prospecting License, and that the information contained herein is true and correct.

inds Signed;

Capacity: Chairman and Managing Director Date: 28/06/2001

Place: Maun, Botswana

Forward your application to: The Director, Department of Geological Survey, Private Bag 14, Lobatse, Botswana.

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		PROSPECTING LICENCE APPLICATION CHECKLIST (Front Desk_Assessment)	,	
		Type of Application: Lene well - PL 020-024/2018	Ś.,	
			Ltd	
		Applicant's Name: GCWILLABG Resources (Pty) Metals	,=1 = 1	
		Commodity applied for (for Industrial Minerals Specify)	STATUS	Г
[	Nos	ITEMS CHECKED	YES NO	-
1		PROSPECTING LICENCE APPLICATION FORM I SIGNED & SUBMITTED (WITH ANNEXURES)		1
	1	(a) All required information in Form I should be filled & the declaration part should be signed.	IL	
1		ADDRESS IN BOTSWANA		-
		(a) Postal Address		7
	2	(b) Telephone Number / Fax Number/ Encil Address	1V	7
		(d) Copy of Certification of Incorporation (Company Certificate)	V	-
		FINANCIAL STATUS		-
	3	(a) Audited Financial Report/ Statements with a letter of resolution from board comitting the funds reserved for exploration project applied for. A share certificate is to be included if the company has one Director.		
		(b) Latest Three months bank statement with a letter of resolution from board comitting the funds reserved for		1
ł		exploration project applied for. A share certificate is to be included if the company has one Director. TECHNICAL COMPETENCE		
	4	(a) Latest updated detailed curriculum vitae of proffessionals with experience in commodities applied for.	1	7
×		(b) Signed consent letter from the CV owner declaring they will work for the company applying for the PL.		1
	-	DESCRIPTION OF AREA APPLIED FOR		-
		(a) Attached sketch plan of the area applied for in Geographic Coordinate System (GCS), WGS84 Datum, Decimal Degrees.	V	-
	5	(b) Attached hard copy coordinates and soft copy of coordinates	V	7
1		(c) Is the area available (i.e., overlapping, partial overlapping and/or not overlapping)*	1	-
				1
ł	-	(d) Is the partial overlap corrected and accepted by the applicant? DETAILED PROPOSED PROGRAMME OF PROSPECTING OPERATIONS		-
		(a) It must provide an understanding of the nature and extent of the proposed exploration activities.		1
		(b) The activities should be adequate to explore mineral potential and able to generate data that may lead to		-
		discoverles and an increase in the level of knowledge of the area applied for.		
		(c) Types of activities to be undertaken must be clearly identifiable at each level of the programme:		7
	б	(i) Desktop studies, geological reviews, technical assessment of available data; Details of the number and types of data		
		processing that are going to be undertaken and clearly indicate the added value for each phase.survey details, (Geochem, geophysics, etc.); Sampling methods, spacing of grids, lines, depths to samples & number; Drilling types		
		and details of depth & number to be drilled, stratigraphy; Maps and illustrations or plans of the stratigraphy, etc. must		
		be clearly outlined.		
		(d) A summary of the minimum expenditure for each year has to be clearly stated in line with the proposed exploration activities.		
A	7	ENVIRONMENTAL MANAGEMENT PLAN		]
	<u>_</u>	(a) Companies to submit in-house Environmental Health and Safety (EHS) Policy		
		* If 5 (c ) or (d) above is no return application before capturing it in the system	1	
		COMMENTS: The renewal areas putial	ing	
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		(Signature)		

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#### Co 2003/292

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 21532 Fairgrounds Office Park Gaborone, Botswana Registered Address RSM House – Plot 39 Plot 39, Commerce Park Gaborone, Botswana

TEL / FAX (267) 392-7144

6<sup>th</sup> December 2021

To: Honourable Lefoko M. Moagi The Minister of Mineral Resources, Green Technology and Energy Security Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) Private Bag 0018 – Gaborone, Botswana

#### Re: PL020/2018 license renewal and Mineral Development Corporation of Botswana (MDCB)

Dear Honourable Minister,

As per our discussions at the meeting on the 6<sup>th</sup> December 2021, with respect to Gcwihaba Resource (Pty) Ltd. (hereinafter "Gcwihaba") PL020/2018 prospecting license, we propose that Honourable Minister renew PL020/2018 as submitted for the reasons and rationale we set forth at today's meeting (see, attached presentation). This will allow us to announce the renewal of the five (5) licenses containing the Xaudum Iron Formation (XIF) project allaying the concerns of the board of directors, shareholders, stakeholders and investment community with respect to these license renewals.

Further to our discussion and in conjunction therewith, Gcwihaba will then agree to relinquish that portion of PL020/2018 which is located within the Okavango Delta World Heritage buffer zone upon execution and funding of the Gcwihaba / MDCB investment agreement ("the Agreement") that is currently pending. We would agree to make this a condition within the Agreement documentation and include language to this effect, so that the relinquishment occurs without further action required on our part. Said relinquishment achieves the government's goal of having no licenses in the Okavango Delta World Heritage buffer zone.

Coincident with the relinquishment of the buffer zone area, the Department of Mines (hereinafter "DOM") shall issue a revised PL020/2018 license modified to exclude the area of PL 020/2018 within the buffer zone only, all other terms to remain the same.

In consideration for the buffer zone area relinquishment, DOM will issue a letter to Gcwihaba, inclusive of MDCB's ownership, stating that Gcwihaba shall have the right of first refusal to acquire the area relinquished in the buffer zone if the Government of Botswana (a) decides to take such action to officially modify the buffer zone to exclude the area relinquished (by Gcwihaba); or, (b) otherwise permits any prospecting or mining license in the Okavango Delta World Heritage site.

I trust that the above accurately reflects our discussion. I believe the above rectifies the issues and allows the development of the XIF iron project to proceed without delay.

Respectfully submitted,

dames M. Bruchs Managing Director Attachment – License Renewal / MDCB

MINISTRY OF MINERAL RESOURCES, GREEN TECHNOLOGY & ENERGY SECURITY CONFIDENTIAL R.M.U 0 7 DEC 2021 MAIL RECEIVED PRIVATE BAG 0013, GABORONE

Directors: James M. Bruchs<sup>1</sup> (Managing) - Jonathan R. Kelafant<sup>1</sup> - Blackie Marole<sup>2,3</sup> - Dr. Garv A. Boies<sup>1</sup>

#### SAVINGRAM

Mogomotsi Nyepetsi For/Director

FROM: Director Department of Mines

TEL: 365 7000

FAX: 395 2141

TO: Permanent Secretary, Ministry of Mineral Resources, Green Technology & Energy Security

REF: CP 215 XIV (11)

10 December 2021

#### RE: Application for First Renewal of Prospecting Licence, ("PL") 020/2018 by Gcwihaba Resources Pty Ltd

Gcwihaba Resources Pty Ltd ("Gcwihaba") has applied for renewal of their prospecting licence number 020/2018 to continue with prospecting for metals in the North West District. Gcwihaba is a company incorporated under the laws of the Republic of Botswana and the registered shareholders with more than 5% of the issued capital is Tsodilo Resources Bermuda Limited.

In 2018 Gcwihaba was re-granted prospecting licences numbers 020-024/2018 previously issued to the company in 2008 as PL386-390/2008. These were re-granted as new licences rather than as renewals on grounds that Gcwihaba release the licences that fell within the buffer zone for Okavango Delta World Heritage Site. This came about as Gcwihaba had spent funds and carried out work on the areas that they were now requested to surrender, to give way to the Okavango World Heritage Site (OWHS) where prospecting activities/operations are prohibited and/or will be subjected to stringent EIA measures.

In the initial renewal application received on 2<sup>nd</sup> July 2021, prospecting licences numbers 020-024/2018 encroached into the delta's buffer zone, and the company was requested to revise their submissions. Upon the re-submission of the modified licences boundaries, prospecting licence number 020/2018 still encroached into the buffer zone. The applicant was further engaged to realign the boundaries of the prospecting licence number 020/2018 with the buffer zone boundary of the Okavango Delta or otherwise submit an approved Environmental Assessment Statement for the area, but to no avail.

In their letter dated 6<sup>th</sup> December 2021, purportedly following engagements with the Honourable Minister, the applicant proposes that they be granted a renewal with the licence encroaching into the buffer zone to enable them to engage with Mineral Development Company Botswana ("MDCB") on a pending funding and investment agreement. The proposal

is that once the funding agreement and investment agreement has been executed with MDCB, Gcwihaba will relinquish a portion of the prospecting licence that falls within the buffer zone.

The Department of Mines does not see the rationale for signing a funding and investment agreement based on mineral resources that will shortly thereafter be relinquished. The Department further believes there is a big risk for the Government or Country to grant a Prospecting Licence inside the buffer of a World Heritage Site, no matter how short the duration before relinquishment; should International Environmental Pressure Groups and International Stakeholders become aware of the granting of a licence inside the World Heritage Site, Botswana may be put under a lot of pressure and disadvantage. The Department of Mines is of the view that the most reasonable thing will be to grant the licence renewal for a portion falling outside the buffer zone.

On the contiguous licence block on which a renewal of tenure has been applied for, to date, Gcwihaba has spent BWP 1, 753, 815.00 on prospecting activities conducted. This amount was spent on prospecting operations and some technical studies such as an independent scoping studies into the feasibility of the iron ore project, exploration drilling of 556 holes totalling to 83, 546.95 meters with 12, 898 assays taken. Also, a resource of 441 million tonnes at 29.4% Fe was defined together with completion of airborne electromagnetic survey, ground magnetic survey and hydro geochemical analysis.

In their proposed renewal of tenure, among other activities, Gcwihaba intends to conduct analysis of flown airborne magnetic, electromagnetic, radiometric and gravity surveys; geological interpretation in 2D and 3D followed by petrographic analyses of the existing drill cores. Also, a preliminary economic assessment (PEA) of the Xaudum Iron Formation in collaboration with a reputable resource assessment company together with drilling, detailed metallurgical test work, geological modelling of the deposit and the Pre-feasibility studies into iron ore mining start-up will be carried out.

Gcwihaba has committed a minimum expenditure of BWP 2, 000, 000.00 to undertake their proposed work programme. We view both the technical competence, financial commitment and prospecting programme as satisfactory.

In light of the above, the Department of Mines therefore recommend to the Honourable Minister that Gcwihaba be granted the renewal of their Prospecting Licence Number 020/2018, for a portion of licence area falling outside the buffer zone, and the company be advised that Government is not in a position to grant a prospecting licence within a World Heritage Site. The Department has taken the liberty to crop out the portion of the area falling with the buffer zone. The licence documents are attached for the Minister's consideration and approval together with a draft letter advising the applicant that Government is not in a position to grant a prospecting licence within a world heritage Site.

Thank you.

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#### SAVINGRAM

FROM: Ag. Director Department of Mines Kenalemang Charles

TEL: 365 7000

FAX: 395 2141

TO: Permanent Secretary, Ministry of Mineral Resources, Green Technology & Energy Security

REF: CP 215 XIV (16)

31 December 2021

#### RE: PROSPECTING LICENCE NUMBER 020/2018 AND MINERAL DEVELOPMENT COMPANY BOTSWANA (MDCB)

We refer to your savingram referenced CMMGE 7/3/56 III (4) dated 17 December 2021 on the subject matter.

Through our savingram referenced CP 215 XIV (11) and dated 10 December 2021, we recommended to the Honourable Minister that prospecting licence number 020/2018 should only be granted with the exclusion of areas that encroaches the buffer zone of the Okavango Delta.

The Rio Declaration on Environment and Development (Principle No. 15) which Botswana is also a signatory, it clearly states that where there is no scientific certainty that serious or irreversible harm would not occur to the environment as in the case of PL 020/2018, cost- effective measures must be taken and these includes not authorising the potential harmful activity of prospecting.

The position of the Department of Mines remains unchanged in that the licence cannot be issued with the inclusion of areas within the buffer of the heritage site as per the applicant, Gcwihaba Resources (Pty) Ltd request.

Department of Mines once again recommend to the Honourable Minister that Gcwihaba Resources (Pty) Ltd be granted prospecting licence number 020/2018 with the exclusion of areas within the World Heritage Site buffer zone as proposed.

Thank you.

#### SAVINGRAM

Ofentse Ditsele

FROM: Director, Department of Mines

TEL: 365 7000

FAX: 395 2141

TO: Permanent Secretary, Ministry of Mineral Resources, Green Technology & Energy Security Attention: Johannes o. Tsimako

**REF:** CP 215 XIV (21)

14th April, 2022

#### RE: Application for First Renewal of Prospecting Licence, ("PL") 020/2018 by Gcwihaba Resources Pty Ltd

- 1. Gcwihaba Resources Pty Ltd ("Gcwihaba") has applied for renewal of their Prospecting Licence No. 020/2018 for metals in the North West District.
- 2. Gcwihaba is a company incorporated under the laws of the Republic of Botswana and the registered shareholders with more than 5% of the issued capital is Tsodilo Resources Bermuda Limited.
- 3. In 2018 Gcwihaba was re-granted Prospecting Licences Nos. 020-024/2018 previously issued to the company in 2008 as PL386-390/2008. These were re-granted as new licences rather than as renewals on grounds that Gcwihaba release the licences that fell within the buffer zone for Okavango Delta World Heritage Site. This came about as Gcwihaba had spent funds and carried out work on the areas that they were now requested to surrender, to give way to the Okavango World Heritage Site (OWHS) where prospecting activities/operations are prohibited and/or will be subjected to stringent EIA measures.
- 4. In the initial renewal application received on 2<sup>nd</sup> July 2021, Prospecting Licences Nos. 020-024/2018 encroached into the buffer zone of the Okavango Delta, and the company was advised to revise their submissions. Upon re-submission of the modified licence boundaries, Prospecting Licence No. 020/2018 was noted to still encroach into the buffer zone.

- 5. The applicant was further engaged to realign the boundaries of the prospecting licence number 020/2018 with the buffer zone boundary of the Okavango Delta or otherwise submit an approved Environmental Assessment Statement for the area, but to no avail.
- 6. In their letter dated 6<sup>th</sup> December 2021, purportedly following engagements with the Honourable Minister, the applicant proposes that they be granted a renewal with the licence encroaching into the buffer zone to enable them to engage with Mineral Development Company Botswana ("MDCB") on a pending funding and investment agreement. The proposal is that once the funding agreement and investment agreement has been executed with MDCB, Gcwihaba will relinquish a portion of the prospecting licence that falls within the buffer zone.
- 7. The Department of Mines does not see the rationale for signing a funding and investment agreement based on the mineral resources that will shortly thereafter be relinquished. The Department further believes there is a big risk for the Government or Country to grant a Prospecting Licence inside the buffer of a World Heritage Site, no matter how short the duration before relinquishment. Should International Environmental Pressure Groups and International Stakeholders become aware of the granting of a Prospecting Licence inside the World Heritage Site, Botswana may be put under a lot of pressure and disadvantage.
- 8. Gcwihaba Resources, through their letter dated 15 March, 2022, are still insisting that Prospecting Licence No. 020/2018 be granted still with a portion of the licence falling within the buffer zone of the Okavango Delta.
- 9. The Department of Mines is of the view that the most reasonable thing will be to grant licence renewal only for a portion falling outside the buffer zone.
- 10. In light of the above, the Department of Mines therefore recommend that the Honourable Minister advises Gcwihaba Resources that he is not in a position to grant renewal of Prospecting Licence No. 020/2018 as long as the licence falls with the buffer zone World Heritage Site. The company should be advised to consider revising the boundaries of the area, or otherwise submit an approved Environmental Impact Assessment with their application
- 11. Attached herewith is a draft letter for consideration of the Honourable Minister

Thank you.

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Private Bag 0018 Gaborone Botswana www.mmge.gov.bw

#### MINISTRY OF MINERALS AND ENERGY

Ref: CMMGE 7/3/56 III (11)

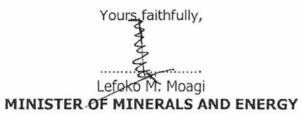
26<sup>th</sup> April, 2022

The Managing Director Gcwihaba Resources Pty Ltd P O Box 3726 Gaborone Botswana

Dear James M. Bruchs,

#### RE: APPLICATION FOR RENEWAL OF PROSPECTING LICENCE NO. 020/2018 BY GCWIHABA RESOURCES PTY LTD

- Reference is made to your application submitted on 2 July 2021 as well as your letter of 15<sup>th</sup> March, 2022.
- 2. Kindly note that the coordinates submitted in the application for renewal of Prospecting Licence No. 020/2018 are encroaching into the buffer zone, of the Okavango Delta, which is listed as a World Heritage Site. Prospecting activities are prohibited within the buffer zone of the Delta, or if permitted, they are to be subjected to stringent Environmental Impact Assessment measures, in accordance with the provisions of the Environmental Assessment Act of 2010 and Environmental Regulations of 2012 from the Department of Environmental Affairs (DEA).
- 3. In light of the above, I am not in a position to renew the Prospecting Licence for as long as the submitted coordinates fall within the buffer zone of a World Heritage Site.



Cc: Director of Mines

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@mmgebotswana
@minerals\_energy

GCWIHABA RESOURCES (PTY) LIMITED

#### Co 2003/292

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 21532 Fairgrounds Office Park Gaborone, Botswana

TEL / FAX (267) 392-7144

Registered Address RSM House – Plot 39 Plot 39, Commerce Park Gaborone, Botswana

27<sup>th</sup> April 2022

To: Honourable Lefoko M. Moagi

The Minister of Mineral Resources, Green Technology and Energy Security Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) Private Bag 0018 – Gaborone, Botswana

Mr. Ofentse Ditsele Director of the Ministry of Mines Department of Mines Ministry of Mineral Resources, Green Technology and Energy Security Private Bag 0018 – Gaborone, Botswana

#### Re: Application For Renewal of Prospecting License No. 020/2018.

Dear Honourable Minister Moagi,

Thank you for your letter of April 26, 2022.

Gcwihaba Resources (Pty) Ltd. (Gcwihaba) fully understands your commitment to ensure that activities which take place within the *buffer zone*, an area controlled by the Republic of Botswana (State Party) and **not part** of the Okavango World Heritage Property (OKWHP), are conducted in such a way that it they do not have an adverse impact on the OKWHP.

PL020/2018 has existed in one form or another since 2008 and always in the area currently known as the *buffer zone*. Chronologically, the *buffer zone* encroached on our license area as our license existed six (6) years prior to the buffer zone being establish by the State Party in 2014. In fact, a compliant NI 43-101 441Mt resource report was prepared and filed with MMGE prior to the *buffer zone* and the OKWHP being established. For clarification, only the area known as the *core zone* is part of the OKWHP and it is defined in and known by as the Property in the UNESCO documentation. See, <u>https://whc.unesco.org/en/list/1432/documents</u>.

We agree with your sentiments that if mining were to take place within the *buffer zone* that an Environmental Impact Assessment (EIA) must first be conducted and made part of any mining application and further an Environmental Management Plan (EMP) must be filed before exploration activities are to be conducted. The foregoing is consistent with the Mines and Minerals Act, the Environmental Assessment Act of 2010 and the Environmental Regulations of 2012 and are applicable not only to us but to all resource activities in the country. However, under existing law, before either an EIA or a EMP can be conducted and approved, a company must first have the prospecting license.

Your sentiments are indeed consistent with the State Party's position on these issues as codified in the following documents:

Directors: James M. Bruchs<sup>1</sup> (Managing) – Jonathan R. Kelafant<sup>1</sup> - Blackie Marole<sup>2,3</sup> – Dr. Gary A. Bojes<sup>1</sup> <sup>1</sup>American, <sup>2</sup>Motswana, <sup>3</sup>Resident

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Nomination dossier to UNESCO for inscription into the World Heritage List (submission by Republic of Botswana, 2013)

[Page 30]

"The Ministry of Energy, Mineral and Water Resources has issued several mineral prospecting licenses to exploration companies for concession areas within the buffer zone of the site. No licenses have been issued within the core zones of the property. <u>Should an application to mine</u> within the buffer zone arise, an Environmental Impact Study (EIA) will be required as part of Botswana's EIA Act, which would address concerns relating to the World Heritage property. Also, the matter would be referred to the World Heritage Centre (WHC) for their advice." (<u>emphasis added</u>)

#### and from the same report,

#### [Page 405]

The government of Botswana through the Ministry of Minerals, Energy and Water Resources has taken a position that it will not issue any new mineral concessions within the Core area of the delta. The Ministry will further engage with the holders of the few existing licenses within the Core area of the delta with a view to eventually expunge those portions of the licenses which overlap the core. <u>Regarding the buffer area, stringent environmental protocols and practices will be adhered to, to protect the integrity of the Delta.</u> (emphasis added)

#### In addition,

#### WORLD HERITAGE NOMINATION – IUCN TECHNICAL EVALUATION KAVANGO DELTA (BOTSWANA) – ID No. 1432 [April 2014] (page 12)

"Mining activities including prospecting will not be permitted within the [core zone] property. Furthermore, potential impacts from mining including concessions in the buffer zone and outside the buffer zone need to be carefully monitored and managed to avoid direct and indirect impacts to the property, including water pollution." (emphasis added)

It is clear from the State Party's submissions to UNESCO since 2013, that both mining and prospecting licenses can exist within the *buffer zone*. Accordingly, we are agreeable, as we have always been, to conduct our activities consistent with the prevailing law and we assure you that our goal is to advance our project in an environmentally friendly manner.

Accordingly, as we are in full compliance with all laws, we respectfully request that PL020/2018 is renewed as we have proposed as it is now almost 11 months since we filed for its renewal. If there is further delay in awarding the license, we request that the State Party reimburse us for its' taking what is legally ours, the exploration costs (+25M USD) and the present value of the in-situ value (\$6-7Billion USD) of that portion of the resource in the buffer zone.

Thank you again for your attention to this matter and please be assured that we are committed to developing our project in full compliance of all relevant existing laws. In addition, Gcwihaba adopted Occupational Health and Safety Assessment Series (OHSAS 18000) and the International Financial Corporation (IFC) Performance Standards and Environmental, Health and Safety Guidelines when IFC, a member of the World Bank became a shareholder of Gcwihaba's parent company, Tsodilo Resources Ltd. in 2010.

Respectfully submitted,

James M. Bruchs Managing Director

> Directors: James M. Bruchs<sup>1</sup> (Managing) – Jonathan R. Kelafant<sup>1</sup> - Blackie Marole<sup>2,3</sup> – Dr. Gary A. Bojes<sup>1</sup> <sup>1</sup>American, <sup>2</sup>Motswana, <sup>3</sup>Resident

#### SAVINGRAM

FROM:	Director Department of Mines	Kenalemang Charles For/Director
TEL:	365 7000	
FAX:	395 2141	
TO:	Permanent Secretary, Ministry of Minerals and Energy Attention: Johannes O. Tsimako	
REF:	CP 215 XIV (29)	01 <sup>st</sup> June 20

01<sup>st</sup> June 2022

#### **RE: PROPOSAL FOR RESOLUTION OF APPLICATION FOR RENEWAL OF** PROSPECTING LICENCE NO. 020/2018 - ENCORACHMENT INTO OKAVANGO DELTA WORLD HERITAGE SITE BUFFER ZONE

- 1. This refers to the letter dated 19th May 2022, which Gcwihaba Resources (Pty) Ltd ("Gcwihaba") are making a proposal for resolution of the application for renewal of Prospecting Licence No. 020/2018, which encroaches into the buffer zone of Okavango Delta World Heritage Site.
- 2. The Honourable Minister through his letter reference CMMGE 7/3/56 III (11), dated 26th April 2022 advised Gcwihaba that he is not in a position to grant renewal of Prospecting Licence No. 020/2018 as long as the submitted coordinates fall within the buffer zone of Okavango Delta World Heritage Site.
- 3. Gcwihaba through their letter dated 19th May 2022, are proposing, as resolution to the impasse on the renewal application of Prospecting Licence No. 020/2018, to drop the area of the licence that falls with the buffer zone of the Okavango world Heritage Site, subject to the following conditions:
  - Condition 1: That Gcwihaba would abandon all claims for expenditures in the buffer zone that were made in exchange of approval by Minerals Development Company Botswana ("MDCB") for investment in Gcwihaba's Project;
  - · Condition 2: That Gcwihaba's Prospecting Licences' be granted with new licence numbers and also be granted with a three (3) years validity period.
  - · Condition 3: That Gcwihaba be given a right of first refusal in the event the government decides to allow exploration or mining in the buffer or core zone of the Okavango Delta, including the portion in question anytime in the future.

## 40

- 4. The Department of Mines is of the view that Conditions 1 and 2 above as carried in Gcwihaba's proposal are unreasonable and not supported by law. It is unreasonable to tie the decision of investment into Gcwihaba's project by Minerals Development Company Botswana (MDCB) to the renewal of the prospecting licence.
- 5. The request for Gcwihaba Resources' held Prospecting Licences and the one in question to be renewed for a three (3) year period is not supported by any law. It may be worth pointing out that the Department is not responsible for any delays in the carrying out of the programme of prospecting for any licence held by Gcwihaba as claimed by the company. Rather, Gcwihaba has been responsible for delays in the renewal of its Prospecting Licences due to the insistence of licences being granted over a World Heritage Site.
- 6. The Department is of the view that the most reasonable thing will be to grant the licence renewal only for a portion falling outside the buffer zone and the renewal should not be attached the conditions stipulated in Gcwihaba's letter, except for the one request that the company be given a right of first refusal in the event government decides to allow exploration or mining within the buffer or core zone anytime in future.
- 7. In light of the above, the Department of Mines therefore recommend that the Honourable Minister advises Gcwihaba that the Ministry is in a position to grant the renewal of Prospecting Licence No. 020/2018 provided conditions 1 and 2 in their letter of 19<sup>th</sup> May 2022 are dropped and also that submission of a revised application for renewal of the licence in question with boundary coordinates falling entirely outside the Okavango Delta core and buffer zone be made within 21 days.

8. Attached herewith is a draft letter for the consideration of the Honourable Minister.

9. Thank you.

Telephone: +267 3656600 Fax: +267 3909368 Plot No: 50676, Block C, Fairgrounds Office Park





REPUBLIC OF BOTSWANA

#### MINISTRY OF MINERALS AND ENERGY

**Ref:** CMME 7/3/56 I (2)

7<sup>th</sup> June, 2022

The Managing Director Gcwihaba Resources Pty Ltd P O Box 3726 Gaborone

Dear Mr. James M. Bruchs,

#### RE: PROPOSAL FOR RESOLUTION OF APPLICATION FOR RENEWAL OF PROSPECTING LICENCE NO. 020/2018 – ENCORACHMENT INTO OKAVANGO DELTA WORLD HERITAGE SITE BUFFER ZONE

- Reference is made to your letter dated 19<sup>th</sup> May 2022, in which you are making a proposal for resolution of the application for renewal of Prospecting Licence No. 020/2018 which encroaches into the buffer zone of Okavango Delta World Heritage Site.
- 2. I note the resolution by Gcwihaba Resources (Pty) Ltd ("Gcwihaba") to drop off a portion of the area applied for, which falls within the buffer zone of the Okavango Delta World Heritage Site, subject to some conditions.
- 3. I wish to reiterate my willingness to consider a renewal application as long as the area applied for falls outside the Okavango Delta buffer zone. However, I am not amenable to the conditions attached to your resolution, save for the one that requires that Gcwihaba be given a right of first refusal in the event Government decides to allow exploration or mining within the buffer or core zone anytime in future. I wish to clarify that Government has no intention of allowing those activities in the Okavango Delta, anytime in future.
- 4. I am not inclined to agree with conditions 1 and 2 in Gcwihaba's letter as the conditions are unreasonable and not supported by law. It will be unreasonable to tie the decision of investment into Gcwihaba's project by Minerals Development Company Botswana ("MDCB") to the renewal of the prospecting licence. This is so because any investment decision is taken after a bankable feasibility study has been



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#### MINISTRY OF MINERALS AND ENERGY

completed and a competent person's report detailing the mineral resource statement issued to the Ministry. This has not happened with the area in question.

- 5. Furthermore, the request to renew Prospecting Licence No. 020/2018 held by Gcwihaba for a period three (3) years is not supported by any law therefore rejected. It may be worth pointing out that the Ministry is not responsible for any delays in the carrying out of the programme of prospecting for any licence held by Gcwihaba Resources as claimed in your letter. Rather, Gcwihaba Resources has been responsible for delays in the renewal of its Prospecting Licences due to the insistence of licences being granted over a World Heritage Site.
- 6. In light of the above, I will be willing to consider the renewal application for Prospecting Licence No. 020/2018 provided:
  - Gcwihaba drops off conditions 1 and 2 in their letter dated 19th May 2022.
  - Gcwihaba submit within 21days from the date of this letter, a revised application for renewal of the Prospecting Licence in question, with boundary coordinates falling entirely outside the Okavango Delta core and buffer zone.
- 7. Thank you.

Yours Sincerely, Lefoke M. Moagi MINISTER OF MINERALS AND ENERGY

Cc: Director of Mines

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@mmgcbotswana @minerals\_energy

#### MARIPE J. IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

#### Case No: MAHMN-000075-22

In the dispute between

#### GCWIHABA RESOURCES (PTY) LTD

And

MINISTER OF MINERALS AND ENERGY

ATTORNEY GENERAL

Applicant

Second Respondent

**First Respondent** 

FILING NOTICE

#### FILED HEREWITH:

1. Supplementary Affidavit and Annexures.

DATED AT GABORONE ON THIS 29TH DAY OF NOVEMBER 2022

A

COLLINS CHILISA CONSULTANTS Applicant's Attorneys Gaborone Chambers Plot 4858, Lecha Close Off Marakanelo Way P O Box 45136 GABORONE

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3 0 NOV 2022

SIGNATURE

DOCUMENTS RECE

TO:

THE REGISTRAR High Court MAUN

Page 339

AND TO:

ATTORNEY GENERAL G.I. Begane For Respondents Government Enclave GABORONE

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BM

MN

MARIPE J. IN THE HIGH COURT OF THE REPUBLIC OF BOTSWANA HELD AT MAUN

Case No: MAHMN-000075-22

In the dispute between

#### GCWIHABA RESOURCES (PTY) LTD

And

MINISTER OF MINERALS AND ENERGY

ATTORNEY GENERAL

First Respondent

Applicant

Second Respondent

SUPPLEMENTARY AFFIDAVITA X 30 NOV 2022 I, the undersigned, X MOAGI NTUKUNUNU TIME do hereby make oath and say that:-

- 1 I am an adult male, an Office Administrator of the Applicant, GCWIHABA RESOURCES (PTY) LTD, duly authorised to depose to this affidavit on behalf of the Applicant by virtue of the Board Resolution and Power of Attorney filed of record.
- 2 The facts contained in this affidavit therefore fall within my personal knowledge due to my position in the Applicant and are, to the best of my knowledge and belief, both true and correct.
- 3 Where I make legal submissions, I do so on the advice of the Applicant's legal representatives. I verily believe that such advice is well-founded. Where I rely on information conveyed to me by others, I identify the source of that information and attach the relevant confirmatory affidavits.



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#### NATURE OF THIS AFFIDAVIT

- 4 This is a supplementary affidavit pursuant to Order 61 Rule 4 of the Rules of the High Court which affords the Applicant an opportunity to supplement, amongst others, the founding affidavit upon receipt of a record of proceedings.
- 5 It is common cause that the Second Respondent filed a record of proceedings on 18 November 2022 which was served on the Applicant on 23 November 2022. This said record contains documents which the Applicant has not had an opportunity to speak to and the Applicant wishes to place its version on record herein under.

#### SUPPLEMENTARY FACTUAL BACKGROUND OF THE APPLICATION

- 6 It is necessary to reincorporate herein, by reference, paragraphs 8.10 to 8.11 of the Founding Affidavit which demonstrate that the Applicant held prospecting licenses in both the eastern and western sides of the panhandle of the Okavango Delta.
- 7 It is imperative to note that some of the licenses held on the eastern side of the panhandle also fell within the buffer zone.
- 8 For purposes of this application, the Applicant had confined itself to those licenses on the western side of panhandle of the Okavango Delta as it no longer holds licenses in the eastern panhandle, and in any event, the current dispute with the First Respondent relates to a licence which falls on the western side of the panhandle.
- 9 After receiving the record of proceedings, information and correspondence relating to the eastern side of the Okavango Delta has been placed on record.
- 10 A prime example of correspondence relating to licenses in the eastern panhandle of the Okavango Delta is a letter dated 15 December 2015 which purports to record an undertaking by the Applicant to surrender its licences in the buffer zone. This correspondence from the Respondents is misleading in light of the fact that it does not disclose that the licenses which the Applicant was willing to give up was those in the eastern side of panhandle in return for the re-issuance of those

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licenses relating to the western side of the panhandle. This letter is attached herein and marked "**SUP 1**".

- 11 The above is supported by the letter that the Applicant sent in response to SUP 1, dated 16 December 2015 wherein the Applicant noted that what it would consider exploring is the possibility of giving up its licenses in the eastern panhandle. This letter is attached hereto and marked "SUP 2". This correspondence demonstrates that the parties were as of 2015 willing to engage in negotiations which are a *quid pro quo* process.
- 12 Notwithstanding the above demonstration by either party to reach an agreement, the negotiations between the parties died a natural death as the parties never finalised anything in 2015.
- 13 I must confess that the conversation did however, resurface in the context discussed in paragraph 8.10 and 8.11 of the founding affidavit and this time round it bore fruit, in the sense that the Applicant was issued with the licenses attached as CCC 10 <sup>a-f</sup> to the founding affidavit.
- 14 It is worth pausing at this juncture to comment on the issuance of the above referred licenses.
- 14.1 Prior to the issuance of the above referred licenses in October 2018, the First Respondent's office had initially issued the licenses earlier, sometime in January 2018. The Applicant rejected the licenses DOM had reduced the extent of the Applicant's prospecting area by excluding the portions that fell into the buffer zone.
- 14.2 The Applicant learnt about the cutting off from the buffer zone and addressed a letter on 23 January 2018 to DOM wherein the Applicant demanded that the licenses be issued as agreed (including the areas in the buffer zone). A copy of this letter is annexed hereto and marked "**SUP 3**"
- 14.3 DOM replied on 16 February 2018 and noted as follows:
  - "…
  - Please be informed that the Department of Mines is amenable to relinquish the eastern boundaries of the prospecting licenses to

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coincide with the original eastern boundaries of the prospecting licenses 386 – 392/2008.

•••

...

- The Department regrets any inconvenience that may have been caused by this oversight. Please do not hesitate to contact our office doe any clarifications.
- 14.4 Notwithstanding its regrets, DOM was yet again up to no good. Following its above letter, annexed here and marked **"SUP 4**", the Applicant wrote a follow up letter to make a follow up on the new licenses, this letter is attached hereto and marked **"SUP 5**".
- 14.5 DOM replied by letter attached hereto as "**SUP 6**" wherein DOM sought to change the sorry on realignment of the Applicant's licenses. Per the letter DOM contended that:
  - "…
  - 7. We reiterate that the eastern boundaries of prospecting licenses 020 -026/2018 cannot be extended into the buffer zone of the Okavango Delta. If Gcwihaba accedes to the correction as alluded to in bullet 5 above, the Department will amend prospecting licenses 024/2018 and 026/2018 as proposed."
- 14.6 The above prompted the Applicant to address DOM, in particular demonstrating and demanding that its licenses be issued as agreed. This letter, which summarises the Applicant's position is attached hereto and marked "SUP 7".
- 14.7 Ultimately, following a long back and forth, the Applicant was issued with the corrected licenses which effected in October 2018. The foregoing is a demonstration that the First Respondent and those through which he acts, have been gunning to remove the Applicant from the buffer zone by hook or by crook.

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- 15 It is important to highlight that when the October 2018 licenses were issued, they related to the western side of the panhandle and they continued to exist in the same area that the buffer zone encroached upon. This on its own is *prima facie* evidence that the Applicant did not at any point in time, enter into an agreement to relinquish its rights to prospect within the buffer zone as per its prospecting licenses.
- 16 On the face of things, it would appear that the parties were on the same page, however, it has come to light that behind the scenes, the First Respondent with the aid of the Director of the National Museum, embarked on a dissemination of false information campaign to UNESCO by repeatedly submitting that the Applicant had relinquished all its prospecting licenses in the buffer zone and that there were no existing prospecting and/or mining licenses in the buffer zone.
- 17 It also became apparent that the First Respondent was operating under the false impression that prospecting licences were prohibited in the buffer zone. There is nothing in international law or domestic law prohibiting prospecting or mining in the buffer zone. The Applicant repeatedly explained, wrote and made presentations to the First Respondent to demonstrate that prospecting and mining are permitted in the buffer zone. In fact, government has recognized this and attested to it in their filings with UNESCO and the issue has only arisen now with respect to the renewal of PL 020/2018.
- 18 On receipt of the record, the Applicant has been able to learn that the actions of the First Respondent are influenced and dependent on the advice he receives from the DOM. The issue however, is that DOM has feed the First Respondent with misinformation as relates to its license in issue. For instance:
- 18.1 In a savingram dated 10 December 2021, which is attached hereto and marked "**SUP 8**" the Department of mines told the First Respondent that in 2018, the Applicant when re-issued with prospecting licenses number 020-024/18 agreed that the re-issuance would be on condition that it relinquishes its right to prospect in the buffer zone. This is a lie which is easily disputed by the letter attached as **CCC 9** to the founding affidavit and the fact that the 2018 re-issued licenses ultimately fell within the buffer zone.

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- 18.2 Still in the same savingram, and another authored on 31 December 2021 (attached hereto and marked "SUP 9"), the Department of mines, peddles the incorrect narrative that the Applicant's licenses fall within a World Heritage Property site. As demonstrated in the founding affidavit, the Applicants licenses fall within the buffer zone and not the WHP. The WHP is designated by UNESCO and the buffer zone is designated by the Government of Botswana. That which the Government of Botswana designates, does not form part of that which is designated by UNESCO and as a result, activities such as prospecting and mining which cannot take place in the area designated by UNESCO can take place in the area designated by the Government of Botswana. This is pivotal information which the DOM, in its wisdom, either withheld or misled the First Respondent on.
- 19 **SUP 8**, together with another savingram dated 14 April 2022, attached herein and marked "**SUP 10**" reveal the motive behind the DOM's advice to the First Respondent and by extension, the true reason behind the First Respondent's refusal to renew the Applicant's license in issue. This reason is stated as follows by the Department of mines:

"The Department further believes there is a big risk for the Government or Country to grant a Prospecting License inside the buffer of a World Heritage Site, no matter how short the duration before relinquishment. Should International Environmental Pressure Groups and International Stakeholders become aware of the granting of a Prospecting License inside the World Heritage Site, Botswana may be put under a lot of pressure and disadvantage." [emphasis added]

- 20 The above is prima facie evidence that the First Respondent's decision not to renew the Applicant's license in issue is devoid of logic, reason and legal backing. This goes to show that the First Respondent is willing to trample on the Applicant's rights, by disregarding the provisions of the Act, in order to avoid the 'risk' of pressure from international environmentalists.
- One last issue which this supplementary affidavit seeks to address is the contents of the Applicant's letter dated 06 December 2021 which is attached hereto as "SUP 11". This letter was yet again, a result of active lobbying by the parties to reach an amicable settlement through negotiations.

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- 22 As alluded to in the founding affidavit, the Applicant was, and still is interested in having MDCB invest in its project relating to the prospecting activates and recovery of the discovery that the Applicant has made. The MDCB's Board is equally willing and ready to invest, however, such investment is subject to ministerial approval.
- 23 The ministerial approval in this instance is delayed by the fact that there is an issue between the Applicant and the First Respondent as relates to the renewal of the license in issue which falls within the buffer zone.
- 24 The letter is therefore an attempt by the Applicant to create a win- win environment wherein the Applicant would agree to relinquish its rights in the buffer zones upon the First Respondent's approval of the invest by MDCB.
- 25 The above letter therefore was a precursor to negotiations which did not take place. As a result, it cannot and should not be gain said that the Applicant has as a matter of fact relinquished its rights to prospect in the buffer zone. The letter however, does disclose that the Applicant has always been willing to find ways to resolve the matter amicably, if at all the main issue relating to the non-renewal of its license in issue related to the buffer zone.
- 26 It must be recalled that the Applicant's licenses existed way before the buffer zone and as such, its license cannot be said to be encroaching on the buffer zone.

#### CONCLUSION

27 On the basis of the foregoing, I therefore pray for an order in terms of the draft order filed of record.

MOAGI'NTUKUNUNU

THUS SWORN TO AND SIGNED BEFORE ME AT MAUN ON THIS 30 day of november 2022, at 1000 hours, the deponent having acknowledged that he knows and understands the contents of this affidavit and has no objection to taking the prescribed oath which he considers binding on his conscience.

Page 347

Botswana Police Service Botswana Police Service Botswannity Service Centre Maun Airport 3 0 NOV 2022	* Chisi
P. O. Box 7 Maun CONIN 76/: 6861553 Fax: 680	ISSIONER OF OATHS
Full names: boineeb Rank: Sergeant	Molsetinisi

Mann

Station:\_\_\_

Hiport

M Page 348

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Tel.: (267) 365 7000 Fax.: (267) 395 2141



Ref: CP 337 XII (11)

Department of Mines Private Bag 0049 GABORONE BOTSWANA

All correspondence to be addressed to the Director

Date: 15th December 2015

Gcwihaba Resources (Pty) Ltd P O Box 3726 GABORONE

ATTENTION: Dr. Mike de Wit

Fax: 392 7144

#### <u>RE: RESOLUTION OF MEETING HELD BETWEEN DEPARTMENT OF MINES AND</u> <u>GCWIHABA RESOURCES (PTY) LTD.</u>

The above refers.

- 2. This communiqué serves to summarize the resolutions agreed to between Department of Mines and Gewihaba Resources (Pty) Ltd represented by Dr. Mike de Wit.
- 3. The meeting was held to discuss the issues of the pending renewals of prospecting licences held by Gchwiha Resources. This licences fall within the buffer zone of the Okavango World Heritage Site (OWHS) where prospecting activities/operations are prohibited and/or will be subjected to stringent EIA measures.
- 4. Gewihaba has agreed to release those licences that fall within the buffer zone in lieu of areas is outside the buffer zone and also with the basis that the licences will be issued as new ones rather than as renewals. This request came about as Gewihaba has spent and carried out works on the areas that they are now requested to surrender to give way to the OWHS.
- 5. In light of the above, we are currently waiting for the submissions from Gcwihaba Resources indicating those licences that they wish to release and also to indicate those that they wish to be given as a substitute.
- 6. Thank You.

Yours faithfully,

T. Segwabe /FOR DIRECTOR



GUWIHABA KESUUKUES (PTY) LIMITEU

Co 2003/292 VAT NO. C06643801113

Mailing Address P. O. Box 3726 Gaborone, Botswana Registered Address 1<sup>st</sup> Floor, Acacia House – PL 54358 Gaborone, Botswana

1 EL / FAX (267) 392-7144

24

#### PRIVILEGED AND CONFIDENTIAL

16<sup>th</sup> December 2015

Page 350

The Director of Department of Mines, MMEWR, Private Bag 0049 GABORONE

Attention: Mr Gabotshwarege Tshckiso

RE: Gewihaba Resources (Pty) Ltd and prospecting licences near the Okavango delta

#### Dear Director.

Since we last spoke on Monday the 14<sup>th</sup> of December. I have had the opportunity to discuss with Mr. James M. Bruchs, Chairman and CEO, of Tsodilo Resources Limited (100% owner of Gewihaba Resources), several scenarios whereby our mutual interests could be obtained. We would like to explore with you the possibility of giving up all rights to our metal licenses on the eastern side (Parcel 1, see map) of the panhandle (PI, 393/2008 – 395/2008;

➢ PI 93/2012 - PL97/2012; and PI 588/2009) in exchange for having the licenses on western side (Parcel 2, see map) (PL 386/2008 - 392/2008; PL 51/2008 and 52/2008; PI 595/2009 - 597/2009; and PL119/2005) be renewed for their initial three (3) year term. We would also like to select an area south of PL391/2008 and PL 392/2008, linking it with PL 595/2009 and 119/2005, to be added to Parcel 2.

The above would be conditioned on several factors not limited to the following:

- The areas on the eastern side (Parcel 1) that we would be giving up would be off-limits to further license grants to other companies, i.e. if we relinquish them they cannot then be then granted to another party/company - ever. However, if for some reason they would be granted to other parties, the Ministry would first give Gewihaba Resources the right of first refusal to take up the licenses.
- 2) Our licensees on the western side (Parcel 2) would be granted their initial 3 year term and at minimum expenditure levels and would be considered contiguous licenses under the Act. As of to date, we have spent 213,762,183 BWP (over 200m BWP) on our metal licenses and although we continue to proceed with our aggressive exploration, prior expenditures and a recognition of the down turn in the resource sector must be recognized.
- 3) In-fill areas in Parcel 2 would be granted to us.
- 4) The licenses would be granted to us no earlier than April 1, 2016.

We believe that such an arrangement would serve the interests of all parties.

GCWIHABA RESOURCES (PTY) LTD Yours sincerely. COMPANY NO. 2003/292 VAT REG. NO. C06643801113 P.O. BOX 3726 GABORONE BOTSWANA Dr. Michiel CJ de Wh TEL/FAX: 3927144 Director and COO

Attached map

Directors: James M. Bruchs<sup>1</sup> (Managing), Michiel C.J. de Wit David J. Cushing American (Mathuriand, (Rotswapa resident)

Exhibit 3

#### Co 88/384 / VAT No C00452001111

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 61547 Fairgrounds Office Park Gaborone, Botswana Registered Address Unit G3, Victoria House Plot 132, Independence Avenue Gaborone, Botswana

#### TEL / FAX (267) 392-7144

January 23, 2018

Director of the Ministry of Mines

Attention: Mr. Lesego Ungwang Acting Assistant Director Department of Mines The Ministry of Mineral Resources, Green Technology, and Energy Security

Dear Mr Ungwang,

Our Company received the new licences PL 20 -26/2018 earlier this week. I would however like to point out the following:

- The agreement with you was that the Company would relinquish all licences east of the Okavango river and north of the Delta (PL 393, 394, 395/2008 and PL 093, 094, 095, 096, 097/2012), on which considerable expenses were incurred by the Company during its exploration program, in exchange for new licences replacing the existing ones on the west of the Okavango River (PL 386, 387, 388, 389, 390, 391 & 392/2008).
- The Company prepared and submitted the applications for new licences, replacing PL 386 392/2008 in its entirety, as agreed.
- 3. The following new licences were received: PL 20, 21, 22, 23, 24, 25, and 26/2018,
- However, it is apparent that the eastern boundaries of PL 20, 21, 22, 24 & 26/2018 are not aligned with that of PL 386, 387, 388, 390 & 392 respectively and were modified by your office without notice or consultation.
- This might be an error on your behalf or done intentionally, but either way the Company requires that this modification of the licenses rectified.
- 6. If these boundaries were fixed sua sponte with purpose not to coincide with the old licences, the Company wish to point out that the Iron Ore resource that the Company has outlined will be deflated in value by a large number risking the fact that Ngamiland might never benefit from this resource.
- If the Ministry is not prepared to change the boundary to that as was agreed, the Company will withdraw its relinquishment and revert back to the old licences, on both sides of the river for which it still has 2 years left and continue with its drilling program.

Yours sincerely.

James M. Bruchs Managing Director



Telephone: (267) 365 7000 Fax No: (267) 393 2141 Telegraphic Address: Mines Gaborone

Department of Mines Private Bag 0049 Gaborone Botswara

REPUBLIC OF BOTSWANA

#### All correspondence to be addressed to the Director

Ref: CP 215 XIII (8)

Date: 16 February 2018

The Managing Director Gcwihaba Resources (Pty) Ltd PO Box 3726 Gaborone

#### Attention: James M. Bruchs

Dear Sir,

#### RE: NEW PROSPECTING LICENCES 020-026/2018 ISSUED TO GCWIHABA RESOURCES (PTY) LTD

- Your letter dated 23 January 2018 and the meeting of 14 February 2018 with Gcwihaba Resources (Pty) Ltd representatives refer.
- Please be informed that the Department of Mines is amenable to re-aligning the eastern boundaries of the prospecting licences to coincide with the original eastern boundaries of prospecting licences 386-392/2008.
- We recognise that the current eastern boundaries have a negative effect on your Fe ore resource and Cu deposits. To that end, the Department will issue amended prospecting licences with re-aligned boundaries.
- The Department regrets any inconvenience that may have been caused by this oversight. Please do not hesitate to contact our office for any clarifications.

Yours faithfully.



BM

Visit our Website at, http://www.mines.gov.bw/

Exhibit 4

### GCWIHABA RESOURCES (PTY) LIMITED

Co 88/384 / VAT No C00452001111

Mailing Address PO Box 3726 Gaborone, Botswana

**Physical Address** The Office Building #59 Plot 61547 Fairgrounds Office Park Galiorone, Bolswana

TEL / FAX (267) 392-7144

July 12, 2018

Director of the Ministry of Mines

Attention: Mr. Lesego Ungwang Acting Assistant Director Department of Mines The Ministry of Mineral Resources, Green Technology, and Energy Security

Dear Mr Ungwang,

I would like to inquire as to the status of the licenses which I brought to your attention on or about January 23, 2018 (see attachment A) regarding the inaccuracies of the license co-ordinates and our concern that the Department of Mines sua sponte decide to breach our agreement concerning these and other licenses. These are the same licenses together with the licenses east of the panhandle that we have been discussing with DOM for close to 3 years and it is not important at this time to reiterate everything as I am sure this matter has just been over-looked.

l acknowledge your response of February 14, 2018 to my letter (see Attachment B) in which you acknowledge the error and assured me that the errors would be corrected.

However, to this date, some 5 months later nothing has happened and we are waiting to commence work on the licenses. The errors can visually be seen on Attachment C. The sua sponte action by the DOM and not in conformity with our agreement has not only an impact on our exploration efforts and the resource defined billion USD iron ore project but it has further legal and regulatory implications. 1 have assured our shareholders; our stakeholders; our lawyers; our regulators; and, our auditors that the long saga of these licenses was over and they accepted your lefter as acknowledgement of the same. I'm at a lost as to what to report now as I believe we have all acted in good faith and that there is just some clerical error that needs correcting. We and our joint venture partner have spent 25M USD on the project and the issues surrounding these licenses are something that need to get resolved as we agreed to do as we are not able to capitulate further.

If I may, I would again like to propose a solution that is 100% consistent with the agreement we reached. I have attached the original licenses (Attachment 4) and have the GIS license staff plot them exactly as they are and put an effective date on as July 1, 2018 for an initial term and we can all put this matter behind us.

Yours sincerely,

Himes M. Bruchs Managing Director Ce: Mike de Wit / Blackie Marole / Milton Keeletsang Attachments: A, B, C & D

**Registered Address** Unit G3, Victoria House Plot 132, Independence Avenue Gaborone, Botswana

CONFIDENTIAL RMI

Exhibit 5





Department of Mines Private Bag 0519 Gaborane Botswang

REPUBLIC OF BOISWANA

All correspondence to be addressed to the Director

Ref: CP 215 XIII (12)

Date: 02 August 2018

The Managing Director Gcwihaba Resources (Pty) Ltd PO Box 3726 Gaborone

#### Attention: James M. Bruchs

Dear Sir,

Telephone (167) 165 7000

Fax No. (267) 395 2141

Γελιχιαρίας Αλότεια

Meters Galverger

#### RE: NEW PROSPECTING LICENCES 020-026/2018 ISSUED TO GCWIHABA RESOURCES (PTY) LTD

- Your letter dated 12 July 2018 and our letter CP 215 XIII (8) dated 16 February 2018 on the subject matter refer.
- In 2014, the Okavango Delta was declared a World Heritage Site by UNESCO and the Government of Botswana took a deliberate decision to prohibit any prospecting or mining activities within the core and buffer zones of the Delta. At the time Gcwihaba Resources (Pty) Ltd ("Gcwihaba") had a number of prospecting licences within the buffer zone of the Delta (see Map 1).
- 3. Gowihaba agreed in principle to relinquish all the licences in the buffer zone and others that were outside the buffer zone. In the spirit of fairness and compromise, Gowihaba proposed that the other prospecting licences that were located to the south-west of the pan-handle (see Map 2), where there is an auspicious deposit of magnetite, be renewed in their entirety with a new lease of life with effect from 1<sup>st</sup> January 2018.

Visit our Website at http://www.mines.gov.bw/

Original	PLs	New PLs		
PL Number	Size (km <sup>2</sup> )	PL Number	Size (km <sup>2</sup> )	Comments
386/2008	570.0	020/2018	458	Cut off from the Buffer Zone
387/2008	964.9	021/2018	925	Cut off from the Buffer Zone
388/2008	317.1	022/2018	152	Cut off from the Buffer Zone
389/2008	978.6	023/2018	978	Unaffected by the Buffer Zone
390/2008	978.6	024/2018	706	Cut off from the Buffer Zone and A35 road
391/2008	454.5	025/2018	455	Unaffected by the Buffer Zone.
392/2008	828.1	026/2018	732	Cut off from the Buffer Zone and A35 road

4. The licences were renewed as shown in the table below (see Map 3):

- On the basis of the above, the only prospecting licences that were to be corrected are 024/2018 and 026/2018 that have been cut off from the Sehitwa – Shakawe road (A35). This correction was to involve moving the eastern boundaries of prospecting licences 024/2018 and 026/2018 from A35 road to the edge of the Buffer Zone (see Map 4).
- Please note that our letter of 16 February 2018 was with regards to the above mentioned two (2) prospecting licences only. It is obvious from your contention that this was erroneously construed to be in reference to all the prospecting licences.
- We reiterate that the eastern boundaries of prospecting licences 020-026/2018 cannot be extended into the buffer zone of the Okavango Delta. If Gcwihaba accedes to the correction as alluded to in bullet 5 above, the Department will amend prospecting licences 024/2018 and 026/2018 as proposed.
- 8. Please do not hesitate to contact our office if there is any clarification sought.

Yours faithfully,

Sellinah A. Moqoiwa **Director of Mines** 

Visit our Website at, http://www.mines.gov.bw/

# "Syp7"

#### **GCWIHABA RESOURCES (PTY) LIMITED**

#### Co 88/384 / VAT No C00452001111

Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 61547 Fairgrounds Office Park Gaborone, Botswana Registered Address Unit G3, Victoria House Plot 132, Independence Avenue Gaborone, Botswana

TEL / FAX (267) 392-7144

August 13, 2018

Director of the Ministry of Mines

Attention: Sellinah A. Mogojwa, Director Department of Mines (DOM) The Ministry of Mineral Resources, Green Technology, and Energy Security (MRGE)

#### **RE:** Gcwihaba Resources (Pty) Ltd Prospecting Licenses

Dear Madame Director,

Thank you for your correspondence of August 2, 2018. I have read it over several times, shared it with my colleagues and with counsel and from our standpoint it is neither supported by the documented facts or represents an accurate portrayal of the agreement reached with DOM with respect to our prospecting licenses in Ngamiland. Your letter asks us to accept the credulity of a narrative that is neither accurate or factually supported.

I will address the points you set forth individually and incorporate my letters of October 25, 2017, January 24, 2018 and July 12, 2018 and DOM's letters of February 16, 2018 and August 2, 2018. Your statements as they are set forth in your letter are italicized and Gcwihaba Resources (Pty) Limited's (Gcwihaba) response follows each point.

#### DOM

2. In 2014, the Okavango Delta was declared a World Heritage Site by UNESCO and the Government of Botswana took a deliberate decision to prohibit any prospecting or mining activities within the core and buffer zones of the Delta. At the time Gcwihaba Resources (Pty) Ltd ("Gcwihaba") had a number of prospecting licenses within the buffer zone of the Delta (see Map 1),

#### Gewihaba response:

Facts:

 At no time did DOM or MRGE inform Gcwihaba of any such prohibition to prospecting or mining in the areas where we held licenses. If in 2014 a decision to prohibit any prospecting or mining activities was indeed consummated there must be a record of such a public decision and we hereby request a copy of any such

documentation. We would also request any such record evidencing this prohibition being delivered to us.

- 2) As a stakeholder, we were never consulted or advised with respect to the UNESCO process although I have recently been told by our lawyers that there are references in the UNSECO filings by the government of Botswana that all stakeholders were consulted with. This statement by the government is not accurate with respect to Gcwihaba as no such consultations with Gcwihaba were ever held.
- 3) Starting in 2013 and prior to the OKV designation as a World Heritage site, Minister Onkokame Kitso Mokaila and Permanent Secretary Boikobo Paya informed us on numerous occasions in 2013, 2014, 2015 and 2016 that "the Botswana government would not allow the placement of any arbitrary boundaries against the development of its natural resources for the benefit of its people". In fact, Ministry staff several times commented about the problems that would occur if an Orapa was found in the core zone! More to the point, we were informed by Minister Mokaila that he in fact held high level talks at the end of 2015 with his counterpart, Minister TS Khama at the Ministry of Environment, Natural Resources and Conservation and Minister Mokaila stood firm in his resolve that the buffer zone was not off limits to prospecting or development
- 4) The facts set forth in point 3 are further supported by the fact that on July 1, 2016, two (2) years after the World Heritage designation, the Minister renewed PLs 386, 387, 388, 390 and 392 all of which had parts of them in the buffer zone and PLs 393, 394 and 395 which were entirely in the buffer zone were also renewed. These licenses were all processed by DOM while you were the Director at DOM.
- 5) In 2014, 2015, 2016, 2017, the DOM issued confirmation letters confirming that the licenses in question were in good order. Nowhere in the confirmation letters are there qualifying remarks that impair the licenses which DOM would have to have been stated if in fact what you say is correct.
- 6) I read your letter as an admission that the Ministry intentionally granted licenses knowing full well that they would never allow resource development in a portion or all the area and yet they did not inform the license holder who was spending money on these projects or offer any reparations for this condemnation or impairment. You are effectively saying that there was a constructive taking of the license without notice or compensation.
- 7) Accordingly, only one of the following can be true:
  - a) there was a ban on PLs being awarded in the buffer zone after 2014 in which case we are owed some +25M USD representing the expenditure on these licenses plus the value of the iron deposit because you contend we should not have been awarded these licenses in the first place; or

b) Minister Mokaila and PS Paya were correct in their statements and the renewal licenses in 2016 were indeed correct.

c) a & b cannot both be correct.

#### DOM

3. Gcwihaba agreed in principle to relinquish all of the licenses in the buffer zone and others that were outside the buffer zone. In the spirit of fairness and compromise, Gcwihaba proposed the other prospecting licenses that were located to the south-west of the pan-handle (see Map 2), where there is an auspicious deposit of magnetite, be renewed in their entirety with a new lease of life with effect from 1<sup>st</sup> January 2018.

#### Gcwihaba response:

The supposition of your statement is not supported by the facts so it is hard for me to comment on such inaccuracies.

#### Facts

- After several years of countless meetings with DOM and resulting no actions on several PL's that were languishing in their renewals only to discover that one if not more of these metals licenses were given to a Chinese company, Triprop Holdings, while it was still licensed to Gcwihaba, I then took a conciliatory approach with DOM to get everything resolved as no one including our investors, the public market and ourselves could understand why licenses were not being renewed despite being told repeatedly by DOM over years that "don't worry next week they will be done".
- 2) Gcwihaba proposed a solution and that is set forth in my letter of October 25, 2017 and January 24, 2018. The only difference between the October 2017 discussion letter given to DOM and the January 24, 2018 letter is that we capitulated and gave up our rights to PL's 393, 394 and 395 during discussions with DOM in November and December of 2017. We gave up our rights and claims to 14 licenses in their entirety and kept 7 as they currently were. At no time did we ever say that we would give up any areas in PL's 386 392 (7 licenses) nor were we ever asked to as part of our agreement with DOM. My offer was accepted by DOM in early December 2017 and we proceeded to relinquish all licenses effective December 29, 2018 in consideration for PL's 386 392 being issued to us with an effective date of January 1, 2018.
- 3) The agreement between Gcwihaba and DOM is set forth in the attached letters and there is no need to repeat what has already been said except to say that Dr de Wit, Milton Keeletsang, Lesego Ungwang (DOM Employee), Mr. Mathule (DOM Employee), and myself will testify under oath to the circumstances and facts surrounding the 21 PL's held by Gcwihaba and the agreement with DOM concerning those licenses and that testimony is not consistent with the facts as you have set forth. As you were not present at the meetings I can only surmise that you have been provided with misinformation as I am confident that the individuals named above and myself will testify truthfully and that testimony is not consistent with what you have set forth.

#### DOM

4. The licenses were renewed as shown in the table below (see Map 3): (table and map excluded - JMB)

#### Gcwihaba response:

Facts

 The licenses were not renewed as agree to by the parties as set forth in my letter of January 24, 2018 and DOM's reply letter of February 16, 2018. Point 2 of DOM's February 16, 2018 letter states as follows:

"Please be informed that the Department of Mines is amenable to realigning the eastern boundaries of the prospecting licences to coincide with the <u>original eastern boundaries of prospecting licences</u> <u>386-392/2008</u>." (emphasis added)

- 2) DOM's letter of February 16, 2018 is in response to my correspondence of January 24, 2018 in which I asked DOM to align the 7 licenses to our original licenses as per our agreement. DOM's letter in response apologized for the error and said they would move the 7 licenses to their original co-ordinates. Further to my letter, a meeting was held on February 14, 2018 between Dr Michiel CJ de Wit, Milton Keeletsang and Lesego Ungwang (DOM Employee) and Mr. Mathule (DOM Employee) with respect to the license boundaries.
- 3) To date some 6 months after DOM's letter of February 16, 2018 the boundaries have not been re-aligned.

D	OM

Original PLs		New PLs			
PL	Size	PL	Size	Comments	
Number	(km <sup>2</sup>	Number	(km <sup>2</sup> )		
386/2008	570.0	020/2018	458	Cut off from the Buffer Zone	
387/2008	964.9	021/2018	925	Cut off from the Buffer Zone	
388/2008	317.1	022/2018	152	Cut off from the Buffer Zone	
389/2008	978.6	023/2018	978	Unaffected by the Buffer Zone	
390/2008	978.6	024/2018	706	Cut off from the Buffer Zone and A35	
391/2008	454.5	025/2018	455	Unaffected by the Buffer Zone.	
392/2008	828.1	026/2018	732	Cut off from the Buffer Zone and A35	
	5091.8	let ar of no surveile me issue are agricultured and the first of a surveiled of the surveil	4406	685.8 km <sup>2</sup> reduction by DOM (JMB)	

4. The licences were renewed as shown in the table below (see Map 3):

5. On the basis of the above, the only prospecting licenses that were to be corrected are 024/2018 and 026/2018 that have been cut off from the Sehitwa – Shakawe road (A35). This correction was to involve moving the eastern boundaries of prospecting license 024/2018 and 026/2018 from A35 road to the edge of the Buffer Zone (see Map 4).

6. Please note that our letter of 16 February 2018 was with regards to the above

mentioned two (2) prospecting licences only. It is obvious from your contention that this was erroneously construed to be in reference to all the prospecting licences.

#### Gcwihaba response:

With respect to Point 4, 5 & 6, I again have a difficult time to formulate a coherent response because the facts are not correct.

- DOM's letter of February 16, 2017 refers to 7 licenses, PL386-392 and any assertions that it is referring to 2 licenses are ludicrous and not consistent with either the documented facts nor testimony that will be forthcoming from Gcwihaba employees or DOM employees.
- 2) In Point 5 you state that PL24 & 26 (are) being changed to accommodate our auspicious deposit of magnetite and you accommodate this by changing PLs 24 & 26.
- 3) None of this makes any sense because the magnetite iron deposit is located in old PL386 397 or new PL20 & 21. There was never any discussion about magnetite being in PL24 or PL26 as there is only possible cobalt, copper and gold deposits in these licenses.
- 4) Compounding this problem is that nothing in your points 4, 5 or 6 deal with the issue that DOM said it would fix the eastern boundaries as set forth in DOM's letter of February 16, 2018 which states exactly as follows:

2. Please be informed that the Department of Mines is amenable to re-aligning the eastern boundaries of the prospecting licences to coincide with the original eastern boundaries of prospecting licences 386-392/2008.

3. We recognise that the current eastern boundaries have a negative effect on your Fe ore resource and Cu deposits. To that end, the Department will issue amended prospecting licences with re-aligned boundaries.

- 5) Simply put, the facts as you state them have no support, they are just unsupported statements of convenience.
- 6) The *sua sponte* changing of the license area has effectively reduced our license area by 659 square kilometres a material amount.

#### DOM

7. We reiterate that the eastern boundaries of prospecting licenses 020-026/2018 cannot be extended into the buffer zone of the Okavango Delta. If Gcwihaba accedes to the correction as alluded to in bullet 5 above, the Department will amend the prospection licenses 024/2016 and 026/2018 as proposed.

#### Gewihaba response:

Your proposal is not acceptable nor is it consistent with the agreement made with DOM. At the end of the 2017 Financial Year and the First Quarter 2018, I notified the market place, our stakeholders, our shareholders and the regulators that we had after negotiations with DOM relinquished twenty-one license (21) in consideration of our 7 core licenses being renewed in their entirety. This disclosure was with the approval of our auditors Ernst & Young LLP and their approval of the disclosure language was based entirely on DOM's letter of February 16, 2018 in response to my letter of January 24, 2018, in which DOM confirmed that the licenses would be reconfigured to the correct co-ordinates.

Our Second Quarter Financials are due to be released no later than the 24<sup>th</sup> of August and we need to have this matter resolved prior to that date as I am required to give the specifics of the dispute with DOM over these licenses if the matter is in fact not resolved as previously disclosed.

If we do not resolve this matter then I suggest that the best way forward is to submit this matter to binding arbitration with respect to the issue of damages as I do not believe there is any question as to the facts surrounding this matter as you on behalf of the Botswana government are confiscating at least part of a resource that has a current in situ value of some \$14 billion USD with respect to the Block 1 resource and \$159 to \$223 billion USD if extrapolated to the entire exploration target. We would be agreeable to submit this matter to the International Chamber of Commerce (ICC) to determine damages as First Quantum Minerals did with the Democratic Republic of Congo (DRC) and others when the DRC impaired / confiscated their licenses. First Quantum Minerals were subsequently awarded \$1.25B USD.

We are not asking for anything more than what was agreed to and that which we already had. DOM's breach of the agreement entered into was not only deceitful to Gcwihaba but the effective confiscation of our licenses in not consistent to representations made to UNESCO and I don't believe UNESCO would have approved the designation when they did if they knew that the representations about consultations with stakeholders were not accurate.

Yours sincerely,

James M. Bruchs Managing Director Cc: Permanent Secretary, Cornelius K. Dekop Mike de Wit / Blackie Marole / Milton Keeletsang Attachments: 1) October 25, 2017 letter from James M. Bruchs to Lesego Ungwang

2) January 24, 2018 letter from James M. Bruchs to Lesego Ungwang

3) February 16, 2018 letter from Lesego Ungwang to James M. Bruchs

4) July 12, 2018 letter from James M. Bruchs to Lesego Ungwang

5) August 2, 2018 letters from Director Sellinah A. Mogojwa to James M. Bruchs

#### **TSODILO RESOURCES LIMITED**

CANADA TRUST TOWER - BCE PLACE, 161 BAY STREET, BOX 508, TORONTO, ONTARIO M5J 2S1 TEL. + 1 416 572-2033 / FAX + 1 416 987-4369 / EMAIL: info@tsodiloresources.com WEBSITE: http://www.tsodiloresources.com

October 25, 2017

Mr. Lesego Ungwang Acting Assistant Director Department of Mines The Ministry of Mineral Resources, Green Technology, and Energy Security

RE: Gcwihaba Resources (Pty) Ltd – Licenses

Dear Sir,

Once again thank you and Mr. Mathule, for taking time to meet with Dr Mike de Wit, Milton Keeletsang and myself on September 20, 2017. We appreciated the opportunity to meet with you and have a frank and open discussion with respect to Gcwihaba's metal licenses in Ngamiland.

Let me say from the onset that we understand the Ministry's and the Department of Mines' efforts in adhering to the spirit of the caveats that the UNESCO designation of the Okavango Delta as a World Heritage site have brought about. As the largest license or land holder in the area, we were never consulted by any party to the accord prior to the delta's designation which we have always thought peculiar but we have nonetheless conducted our activities in all our licenses according to the World Bank's good practice standards at all times with respect to environmental and social matters and will continue to do so.

Our prospecting licenses as they are today are set forth in attachment A & B. No license rests in either in the Ramsar or World Heritage core areas and only those to the east of the panhandle rest in the buffer zones (Attachment C). Some of our licenses in the buffer zone were renewed 2 years after the World Heritage designation while others which may or may not be contiguous to other licenses have not been acted upon in years or in an extreme case were granted to another company while still under license to us. The latter example is clearly an anomaly and not representative but it remains an issue. However, no matter the reason, the delay in renewal has caused actual damages in the exploration program due to the uncertainty caused by the delay. In the past five years, I would estimate that 250M BWP has been spent on the metals licenses and the uncertainties have now resulted in a disjointed exploration program and effort where there should be one cohesive effort and it has also hindered discussions with development partners who question the lack of license renewal.

It should also be pointed out that in previous discussions with the Honourable Mr. Onkokame Kitso Mokaila, Permanent Secretary Paya and others that no impediment to prospecting licenses in the buffer zone existed and that MMEWR and DEA were both so operating.

I have heard reports that our overtures to resolve these issues over the past years have been viewed by the DOM as contentious but let me assure you that this is not the case at all but rather it has been a good faith effort in trying to reach an understanding and a resolution of the matters with DOM.

In the spirit of equity and compromise without relinquishing any of our rights, we would like to propose for discussion purposes the following:

- We would agree to drop all claims be they actual or in equity to those licenses (11) highlighted in blue on both Attachment A & B effective December 31, 2017;
- in exchange for an initial grant of those licenses (10) highlighted in yellow in Attachment A & B to be effective January 1, 2018.

Although, we would have to take a large impairment charge on our financials for the relinquishment of the licenses we deem this an acceptable outcome if it allows us to further those licences west of the panhandle without any dark clouds which arise over any license controversy. In the mineral resource and other areas, Botswana works because of the rule of law and the ability of its governmental staff to address issues, it is in this context that we are putting forth this proposal.

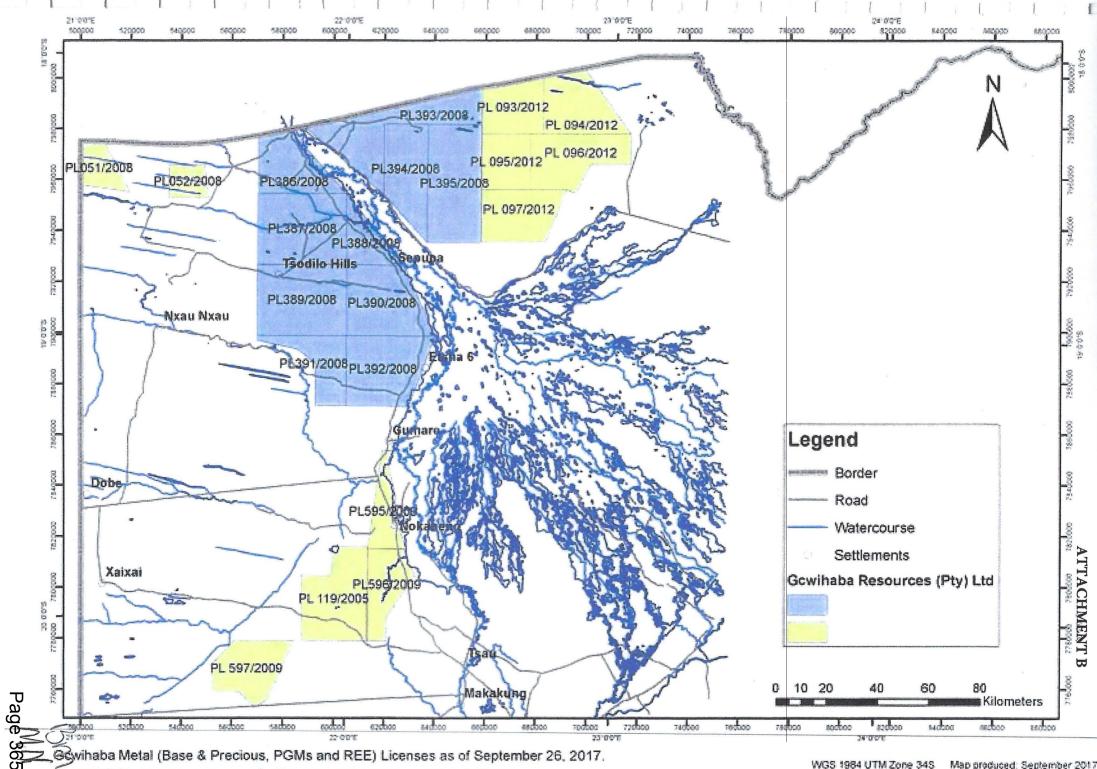
Best regards,

James M. Bruchs Chairman & CEO Attachment A, B & C

# **DESCRIPTION OF PROPERTIES**

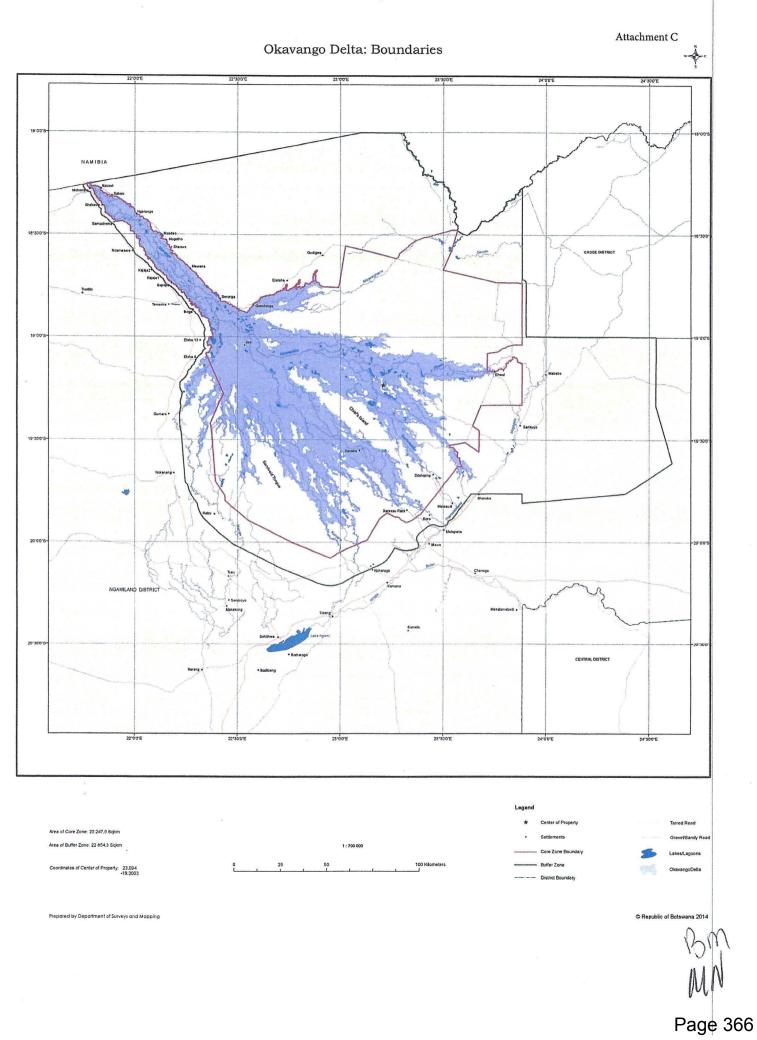
Gcwihaba Resources (Pty) Limited [Botswana] (Prospecting Licenses - Metals: base, precious, platinum group, and rare earth)

	PL number	PROPOSAL
1	PL 119/2005	RELINQUISH LICENSE AND ALL CLAIMS
2	PL 051/2008	RELINQUISH LICENSE AND ALL CLAIMS
3	PL 052/2008	RELINQUISH LICENSE AND ALL CLAIMS
4	PL 386/2008	RENEW INITIAL TERM AS OF 1/1/2018
5	PL 387/2008	RENEW INITIAL TERM AS OF 1/1/2018
6	PL 388/2008	RENEW INITIAL TERM AS OF 1/1/2018
7	PL 389/2008	RENEW INITIAL TERM AS OF 1/1/2018
8	PL 390/2008	RENEW INITIAL TERM AS OF 1/1/2018
9	PL 391/2008	RENEW INITIAL TERM AS OF 1/1/2018
10	PL 392/2008	RENEW INITIAL TERM AS OF 1/1/2018
11	PL 393/2008	RENEW INITIAL TERM AS OF 1/1/2018
12	PL 394/2008	RENEW INITIAL TERM AS OF 1/1/2018
13	PL 395/2008	RENEW INITIAL TERM AS OF 1/1/2018
14	PL 595/2009	RELINQUISH LICENSE AND ALL CLAIMS
15	PL 596/2009	RELINQUISH LICENSE AND ALL CLAIMS
16	PL 597/2009	RELINQUISH LICENSE AND ALL CLAIMS
17	PL 093/2012	RELINQUISH LICENSE AND ALL CLAIMS
18	PL 094/2012	RELINQUISH LICENSE AND ALL CLAIMS
19	PL 095/2012	RELINQUISH LICENSE AND ALL CLAIMS
20	PL 096/2012	RELINQUISH LICENSE AND ALL CLAIMS
21	PL 097/2012	RELINQUISH LICENSE AND ALL CLAIMS



E (Teodio/GIS/OD17116\_inense\_2017\_05\_18/Gowinsto Metal (Rass & Precisus, PGMs and REE) inenses\_26 September 2017\_TSD

WGS 1984 UTM Zone 345 Map produced: September 2017



4 Sup 8"

SAVINGRAM

Mogomotsi Nyepetsi For/Director

TEL: 365 7000

Director

FROM:

FAX: 395 2141

TO: Permanent Secretary, Ministry of Mineral Resources, Green Technology & Energy Security

Department of Mines

**REF:** CP 215 XIV (11)

10 December 2021

# RE: Application for First Renewal of Prospecting Licence, ("PL") 020/2018 by Gcwihaba Resources Pty Ltd

Gcwihaba Resources Pty Ltd ("Gcwihaba") has applied for renewal of their prospecting licence number 020/2018 to continue with prospecting for metals in the North West District. Gcwihaba is a company incorporated under the laws of the Republic of Botswana and the registered shareholders with more than 5% of the issued capital is Tsodilo Resources Bermuda Limited.

In 2018 Gcwihaba was re-granted prospecting licences numbers 020-024/2018 previously issued to the company in 2008 as PL386-390/2008. These were re-granted as new licences rather than as renewals on grounds that Gcwihaba release the licences that fell within the buffer zone for Okavango Delta World Heritage Site. This came about as Gcwihaba had spent funds and carried out work on the areas that they were now requested to surrender, to give way to the Okavango World Heritage Site (OWHS) where prospecting activities/operations are prohibited and/or will be subjected to stringent EIA measures.

In the initial renewal application received on 2<sup>nd</sup> July 2021, prospecting licences numbers 020-024/2018 encroached into the delta's buffer zone, and the company was requested to revise their submissions. Upon the re-submission of the modified licences boundaries, prospecting licence number 020/2018 still encroached into the buffer zone. The applicant was further engaged to realign the boundaries of the prospecting licence number 020/2018 with the buffer zone boundary of the Okavango Delta or otherwise submit an approved Environmental Assessment Statement for the area, but to no avail.

In their letter dated 6<sup>th</sup> December 2021, purportedly following engagements with the Honourable Minister, the applicant proposes that they be granted a renewal with the licence encroaching into the buffer zone to enable them to engage with Mineral Development Company Botswana ("MDCB") on a pending funding and investment agreement. The proposal

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is that once the funding agreement and investment agreement has been executed with MDCB, Gcwihaba will relinquish a portion of the prospecting licence that falls within the buffer zone.

The Department of Mines does not see the rationale for signing a funding and investment agreement based on mineral resources that will shortly thereafter be relinquished. The Department further believes there is a big risk for the Government or Country to grant a Prospecting Licence inside the buffer of a World Heritage Site, no matter how short the duration before relinquishment; should International Environmental Pressure Groups and International Stakeholders become aware of the granting of a licence inside the World Heritage Site, Botswana may be put under a lot of pressure and disadvantage. The Department of Mines is of the view that the most reasonable thing will be to grant the licence renewal for a portion falling outside the buffer zone.

On the contiguous licence block on which a renewal of tenure has been applied for, to date, Gcwihaba has spent BWP 1, 753, 815.00 on prospecting activities conducted. This amount was spent on prospecting operations and some technical studies such as an independent scoping studies into the feasibility of the iron ore project, exploration drilling of 556 holes totalling to 83, 546.95 meters with 12, 898 assays taken. Also, a resource of 441 million tonnes at 29.4% Fe was defined together with completion of airborne electromagnetic survey, ground magnetic survey and hydro geochemical analysis.

In their proposed renewal of tenure, among other activities, Gcwihaba intends to conduct analysis of flown airborne magnetic, electromagnetic, radiometric and gravity surveys geological interpretation in 2D and 3D followed by petrographic analyses of the existing drill cores. Also, a preliminary economic assessment (PEA) of the Xaudum Iron Formation in collaboration with a reputable resource assessment company together with drilling, detailed metallurgical test work, geological modelling of the deposit and the Pre-feasibility studies into iron ore mining start-up will be carried out.

Gcwihaba has committed a minimum expenditure of BWP 2, 000, 000.00 to undertake their proposed work programme. We view both the technical competence, financial commitment and prospecting programme as satisfactory.

In light of the above, the Department of Mines therefore recommend to the Honourable Minister that Gcwihaba be granted the renewal of their Prospecting Licence Number 020/2018, for a portion of licence area falling outside the buffer zone, and the company be advised that Government is not in a position to grant a prospecting licence within a World Heritage Site. The Department has taken the liberty to crop out the portion of the area falling with the buffer zone. The licence documents are attached for the Minister's consideration and approval together with a draft letter advising the applicant that Government is not in a position to grant a prospecting licence within a World Heritage Site.

Thank you.

### SAVINGRAM

FROM: Ag. Director Department of Mines Kenalemang Charles

TEL: 365 7000

FAX: 395 2141

TO: Permanent Secretary, Ministry of Mineral Resources, Green Technology & Energy Security

REF: CP 215 XIV (16)

31 December 2021

## RE: PROSPECTING LICENCE NUMBER 020/2018 AND MINERAL DEVELOPMENT COMPANY BOTSWANA (MDCB)

We refer to your savingram referenced CMMGE 7/3/56 III (4) dated 17 December 2021 on the subject matter.

Through our savingram referenced CP 215 XIV (11) and dated 10 December 2021, we recommended to the Honourable Minister that prospecting licence number 020/2018 should only be granted with the exclusion of areas that encroaches the buffer zone of the Okavango Delta.

The Rio Declaration on Environment and Development (Principle No. 15) which Botswana is also a signatory, it clearly states that where there is no scientific certainty that serious or irreversible harm would not occur to the environment as in the case of PL 020/2018, cost- effective measures must be taken and these includes not authorising the potential harmful activity of prospecting.

The position of the Department of Mines remains unchanged in that the licence cannot be issued with the inclusion of areas within the buffer of the heritage site as per the applicant, Gcwihaba Resources (Pty) Ltd request.

Department of Mines once again recommend to the Honourable Minister that Gcwihaba Resources (Pty) Ltd be granted prospecting licence number 020/2018 with the exclusion of areas within the World Heritage Site buffer zone as proposed.

Thank you.

"Sup 10"



### SAVINGRAM

Ofentse Ditsele

FROM: Director, Department of Mines

TEL: 365 7000

FAX: 395 2141

TO: Permanent Secretary, Ministry of Mineral Resources, Green Technology & Energy Security Attention: Johannes o. Tsimako

REF: CP 215 XIV (21)

14th April, 2022

## RE: Application for First Renewal of Prospecting Licence, ("PL") 020/2018 by Gcwihaba Resources Pty Ltd

- 1. Gcwihaba Resources Pty Ltd ("Gcwihaba") has applied for renewal of their Prospecting Licence No. 020/2018 for metals in the North West District.
- Gcwihaba is a company incorporated under the laws of the Republic of Botswana and the registered shareholders with more than 5% of the issued capital is Tsodilo Resources Bermuda Limited.
- 3. In 2018 Gcwihaba was re-granted Prospecting Licences Nos. 020-024/2018 previously issued to the company in 2008 as PL386-390/2008. These were re-granted as new licences rather than as renewals on grounds that Gcwihaba release the licences that fell within the buffer zone for Okavango Delta World Heritage Site. This came about as Gcwihaba had spent funds and carried out work on the areas that they were now requested to surrender, to give way to the Okavango World Heritage Site (OWHS) where prospecting activities/operations are prohibited and/or will be subjected to stringent EIA measures.
- 4. In the initial renewal application received on 2<sup>nd</sup> July 2021, Prospecting Licences Nos. 020-024/2018 encroached into the buffer zone of the Okavango Delta, and the company was advised to revise their submissions. Upon re-submission of the modified licence boundaries, Prospecting Licence No. 020/2018 was noted to still encroach into the buffer zone.

- 5. The applicant was further engaged to realign the boundaries of the prospecting licence number 020/2018 with the buffer zone boundary of the Okavango Delta or otherwise submit an approved Environmental Assessment Statement for the area, but to no avail.
- 6. In their letter dated 6<sup>th</sup> December 2021, purportedly following engagements with the Honourable Minister, the applicant proposes that they be granted a renewal with the licence encroaching into the buffer zone to enable them to engage with Mineral Development Company Botswana ("MDCB") on a pending funding and investment agreement. The proposal is that once the funding agreement and investment agreement has been executed with MDCB, Gcwihaba will relinquish a portion of the prospecting licence that falls within the buffer zone.
- 7. The Department of Mines does not see the rationale for signing a funding and investment agreement based on the mineral resources that will shortly thereafter be relinquished. The Department further believes there is a big risk for the Government or Country to grant a Prospecting Licence inside the buffer of a World Heritage Site, no matter how short the duration before relinquishment. Should International Environmental Pressure Groups and International Stakeholders become aware of the granting of a Prospecting Licence inside the World Heritage Site, Botswana may be put under a lot of pressure and disadvantage.
- Gcwihaba Resources, through their letter dated 15 March, 2022, are still insisting that Prospecting Licence No. 020/2018 be granted still with a portion of the licence falling within the buffer zone of the Okavango Delta.
- The Department of Mines is of the view that the most reasonable thing will be to grant licence renewal only for a portion falling outside the buffer zone.
- 10. In light of the above, the Department of Mines therefore recommend that the Honourable Minister advises Gcwihaba Resources that he is not in a position to grant renewal of Prospecting Licence No. 020/2018 as long as the licence falls with the buffer zone World Heritage Site. The company should be advised to consider revising the boundaries of the area, or otherwise submit an approved Environmental Impact Assessment with their application
- 11. Attached herewith is a draft letter for consideration of the Honourable Minister

Thank you.

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# GCWIHABA RESOURCES (PTY) LIMITED



Mailing Address PO Box 3726 Gaborone, Botswana Physical Address The Office Building #59 Plot 21532 Fairgrounds Office Park Gaborone, Botswana Registered Address RSM House – Plot 39 Plot 39, Commerce Park Gaborone, Botswana

#### TEL / FAX (267) 392-7144

6<sup>th</sup> December 2021

To: Honourable Lefoko M. Moagi The Minister of Mineral Resources, Green Technology and Energy Security Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) Private Bag 0018 – Gaborone, Botswana

#### Re: PL020/2018 license renewal and Mineral Development Corporation of Botswana (MDCB)

Dear Honourable Minister,

As per our discussions at the meeting on the 6<sup>th</sup> December 2021, with respect to Gcwihaba Resource (Pty) Ltd. (hereinafter "Gcwihaba") PL020/2018 prospecting license, we propose that Honourable Minister renew PL020/2018 as submitted for the reasons and rationale we set forth at today's meeting (see, attached presentation). This will allow us to announce the renewal of the five (5) licenses containing the Xaudum Iron Formation (XIF) project allaying the concerns of the board of directors, shareholders, stakeholders and investment community with respect to these license renewals.

Further to our discussion and in conjunction therewith, Gcwihaba will then agree to relinquish that portion of PL020/2018 which is located within the Okavango Delta World Heritage buffer zone upon execution and funding of the Gcwihaba / MDCB investment agreement ("the Agreement") that is currently pending. We would agree to make this a condition within the Agreement documentation and include language to this effect, so that the relinquishment occurs without further action required on our part. Said relinquishment achieves the government's goal of having no licenses in the Okavango Delta World Heritage buffer zone.

Coincident with the relinquishment of the buffer zone area, the Department of Mines (hereinafter "DOM") shall issue a revised PL020/2018 license modified to exclude the area of PL 020/2018 within the buffer zone only, all other terms to remain the same.

In consideration for the buffer zone area relinquishment, DOM will issue a letter to Gcwihaba, inclusive of MDCB's ownership, stating that Gcwihaba shall have the right of first refusal to acquire the area relinquished in the buffer zone if the Government of Botswana (a) decides to take such action to officially modify the buffer zone to exclude the area relinquished (by Gcwihaba); or, (b) otherwise permits any prospecting or mining license in the Okavango Delta World Heritage site.

l trust that the above accurately reflects our discussion. I believe the above rectifies the issues and allows the development of the XIF iron project to proceed without delay.

Respectfully submitted,

James M. Bruchs Managing Director Attachment – License Renewal / MDCB MINISTRY OF MINERAL RESOURCES, GREEN TECHNOLOGY & ENERGY SECURITY CONFIDENTIAL R.M.U

07 DEC 2021

Mail Regeived Private Bag 0018, Gazorone

Directors: James M. Bruchs<sup>1</sup> (Managing) - Jonathan R. Kelafant<sup>1</sup> - Blackie Marole<sup>2,3</sup> - Dr. Garv A. Bnies<sup>1</sup>