



Scope of Work (SOW)

AFRICAN EXPLORATION MINING AND FINANCE CORPORATION (PTY) LTD

VLAKFONTEIN MINE

RFQ NO. 6000006775: PROVISION OF SERVICE FOR DRONE SECURITY SERVICES AT VLAKFONTEIN MINE FOR A PERIOD OF SIX (6) MONTHS.

CONTENTS

1. BACKGROUND	3
2. SCOPE OF WORK (SOW)	3
2.1 Drone Security Services (DSS)	3
2.1.1. Aircraft Technical Specifications	3
2.1.2. Mandatory Compliance	4
2.1.3. Company	4
3. TECHNICAL EVALUATION CRITERIA	6
4. PRICING SCHEDULE	7

1 BACKGROUND

African Exploration Mining and Finance Corporation SOC Ltd (**AEMFC**) is a state-owned Mining Company established to secure South Africa's energy supply primarily through the mining and supply of coal for the generation of electricity, as well as securing other resources that will provide energy for the future, including key minerals for beneficiation in the energy and steel value chain. As a growing company, it is currently operating its first mine since 2011 near Ogies, Mpumalanga. AEMFC requirements are for a service provider to provide Drone services at Vlakfontein for a period of six (6) months.

2 SCOPE OF WORK (SOW)

2.1 DRONE SECURITY SERVICES

The Drone Security Services will be responsible to provide comprehensive and effective patrols service to the Vlakfontein mine in order to protect employees, contractors and company assets.

2.1.1. AIRCRAFT TECHNICAL SPECIFICATIONS

1. An integrated multi-sensor and remotely piloted aircraft system (RPAS), which comprises both the advanced light-weight sensor(s) and the necessary UA (Unmanned Aircraft) platform capabilities and functionalities that will carry or operate them.
2. The system will comprise of Vertical Take of and Landing (VTOL) drone that is a commercial-grade platform that is capable of simultaneously carrying, and operationally integrating, sensors or equipment:
 - a) Thermal sensor or RGB sensor or equivalent sensor
 - b) Downward stabilizing gimbal for the sensor
 - c) 6-Directional sensing (situational awareness)
 - d) GNSS/ IMU (positioning) system
 - e) Onboard redundancy systems and SDK functionality
 - f) Live mission recording and sufficient in-flight storage for collected data
 - g) The maximum payload of the UA shall not be less than 2.7 kg.
3. The maximum flight time shall be 40 minutes or more.
4. The UA shall have a direct transmission range of 15 km or more.
5. The UA shall have VTOL capabilities and at minimum an IP43 rating.

2.1.2. MANDATORY COMPLIANCE

1. Company registered with PSIRA as a security service provider
 - Chapter 3, Section 20, par 1(a), Section 25 and regulations
 - PSIRA registration number
2. Company's director with a minimum PSIRA Grade B qualification
3. Private Security Sector Provident Fund Letter of participation
4. Valid ROC certificate with minimum 10km BVLOS rating
 - Air Service Licence
 - OPSSPEC
 - Proof of Release to Service
 - Proof of Certificate of Registration
5. Qualified Remote Pilot License (RPL) with BVLOS endorsement
6. Certified copies of:
 - PSIRA Grade C certificate and National Key point
 - SACAA Accredited Logbook
 - Operational Vehicle License

NB: Provide registration number and images as proof of Operational Vehicle License. Failure to provide any of the documents and/or information required for mandatory compliance will lead to disqualification.

2.1.3. COMPANY

1. Minimum of 12 months Drone security experience on an industrial or mine site
 - Submit 4 contactable references

1.1 Night-time Security Drone team. Drone Team personnel shall consist of:

- Qualified pilot with a remote pilot license
- PSIRA certified pilot with a National Key Point certification
- BVLOS rated pilot with minimum experience of 200 hours of Beyond Visual Line of Site operations (Provide a SACAA Accredited Logbook, RPL license with BVLOS endorsement)

- Night security tactical team equipped with the following minimum gear:
 - Body Cam
 - Tactical torch
 - Radio communication
 - Bulletproof Vest
 - Full PPE
 - Night Vision capabilities
 - Security spotlights
 - Operational vehicle of the drone team must be a 4x4 bakkie and shall consist of:
 - Backup battery solution
 - Charging station for drone batteries and communication systems
 - Multiple controller screens for operations management
2. Asset Management and Mapping Capability to track critical assets of security interest
- Map area/s of the assets on site monthly and provide a detailed high definition orthomosaic with a monthly variance report
 - Capacity to do volumetric calculations for stockpiles and other material on sites
 - Key maintenance highlights. Provide an annotated photograph report
 - Track all assets of security interest on the site

Scope of Work (SOW)

3 TECHNICAL EVALUATION CRITERIA

EVALUATION CRITERIA					
NO	EVALUATION CRITERIA	SCORING PRINCIPLE	RETURNABLE SCHEDULE	RATING	WEIGHTING SCORE
1.	A minimum 8 months Security Drones Experience at industrial/mining site	Twelve or more industrial/mining site	Provide reference letters with contactable contact details	30	30
		8-12 months Industrial/Mining site		15	
		Less than 8 months	Proof to be submitted with Tender returnable	0	
2.	Night time Drone Security system.	200 hours or more	Submit pilot log book	20	20
	Pilot must have a BVLOS rating with minimum 200 hours BVLOS experience	Less than minimum 200 hours		Proof to be submitted with Tender returnable	
3	Assets Management Mapping Capability to track critical assets of security interest	Three or more reference letters contactable	Provide reference letters with contactable contact details	20	20
		Two reference letters contactable		10	
		One reference letter contactable	Proof to be submitted with Tender returnable	5	
4.	Security Drones- Company to provide proof of previous work with (3) three reference letters contactable. This will serve as proof.	Three or more reference letters contactable	Provide reference letters with contactable contact details	30	30
		Two reference letters contactable		20	
		One reference letter contactable	Proof to be submitted with Tender returnable	10	
TOTAL SCORE					100
MINIMUM THRESHOLD					75

Scope of Work: Provision of Service for Drone Security Services at Vlakfontein Mine for a period of six (6) months

Scope of Work (SOW)

Annexure B: PRICING SCHEDULE

Item No.	Description of Goods /Services	Unit Of Measure	Quantity	Unit Price (ZAR)	Price (Excl Vat)	Total value Price (Inc Vat)
1	Drone Security Services	Night shift only	6 months			
TOTAL PRICE (EXCLUSIVE VAT)						
VAT (If Applicable)						
TOTAL PRICE (INCLUSIVE OF VAT)						
Total Price In Words						