



# 采购公告

## Annonce d'approvisionnement

中国铝业几内亚有限公司采购公告  
Avis d'achat de Chalco Guinea Company S.A.

### 1. 基本情况/ Aperçu

- (1) 采购人: 中国铝业几内亚有限公司  
L'Acheteur : Chalco Guinea Company S.A.
- (2) 采购地点: 几内亚共和国  
Lieu d'achat : République de Guinée
- (3) 采购产品: 挖掘机 (产品技术规格要求详见附件 2 《货物要求 (技术规范书)》)  
Marchandise à acheter : Excavateur à benne preneuse (pour les spécifications techniques détaillées, veuillez vous reporter à l'annexe 2 : Exigences relatives aux biens (spécifications techniques)).
- (4) 采购量: 两台  
Quantité d'achat : Deux

### 2. 供货商资格要求/ Conditions d'admissibilité des fournisseurs

供货商须具备独立法人资格且须是增值税纳税人, 同时应为所报品牌挖掘机的生产厂家或授权代理商, 需提供营业执照、税务登记证及授权委托书等相关证明材料复印件, 原件备查。同一品牌只允许一个授权经销商参与报价。

Les fournisseurs doivent posséder des qualifications de personne morale indépendante et doivent être assujettis à la TVA, en tant que fabricant de l'excavateur à benne preneuse fournie ou agent autorisé. Les fournisseurs doivent fournir des copies des documents de certification pertinents tels que les Registres du Commerce et du Crédit Mobilier (RCCM), les certificats d'enregistrement fiscal et les procurations. Les originaux des documents de certification pertinents sont pour référence future. Une seule société de distribution autorisée est autorisée à soumissionner pour une même marque.

注：供货商必须提供上述资格要求的证明材料（材料必须加盖公章），否则按弃权处理。

Remarque : Le fournisseur doit fournir des documents justificatifs des conditions d'admissibilité mentionnés ci-dessus (les documents doivent être apposés le sceau officiel), à défaut, l'offre sera considérée comme une renonciation.

### 3. 报价要求 **Exigence de devis**

- (1) 有意向的供应商应通过邮件将产品报价（必须列明每项单价及总价）、产品技术参数、品牌、包装规格以及供货商资格要求中的文件发送至 zhangxiuli@chinalco.com.cn。

Les fournisseurs intéressés doivent envoyer le devis du produit (indiquer le prix unitaire et prix total de chaque produit), les paramètres techniques du produit, les marques, les spécifications d'emballage et les documents relatifs aux Conditions d'admissibilité des fournisseurs à zhangxiuli@chinalco.com.cn

- (2) 供应商的报价应为不含税价，且该价格包含送至采购人在博法项目现场指定仓库的运费以及货物的卸载费。

Le devis du fournisseur doit indiquer le prix hors taxes et comprend les frais de transport jusqu'à l'entrepôt désigné par l'acheteur sur le site du projet Boffa, ainsi que les frais de déchargement des marchandises.

- (3) 供应商的报价不得超过 2,280,000,000 GNF/台。

Le prix proposé par le fournisseur ne doit pas dépasser 2,280,000,000 GNF par unité.

- (4) 交货地点：采购人在博法项目现场指定仓库。

Lieu de livraison : entrepôt désigné par l'acheteur sur le site du projet Boffa.

- (5) 报价表上必须注明报价有效期限。

Le délai efficace doit être marqué sûr le devis du produit.

- (6) 报价截止日期：2025 年 9 月 22 日 12: 00（几内亚时间）

Délais de l'heure d'inscription: Le 22 Septembre, à 12: 00 (heure de Guinée)

### 4. 资质审核及单价比较方式/ **Méthodes d'examen de qualification et de comparaison des prix unitaires**



采购人将在所有符合供应商资格条件及采购产品要求的报价中，选择报价最低的供应商作为最终成交方，并与其签订合同。合同采用中国铝业几内亚有限公司合同模板。

L'acheteur sélectionnera comme soumissionnaire retenu le fournisseur qui a présenté l'offre la plus basse parmi toutes les offres répondant aux critères de qualification des fournisseurs et aux exigences de l'achat, et conclut un contrat avec ce fournisseur. Le contrat utilisera le modèle de contrat utilisé par CHALCO GUINEA COMPANY S.A

#### 5. 发布公告的媒介/Moyen d'annonce

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#### 6. 联系方式/ Informations de contact

采购方：中国铝业几内亚有限公司

Adjudicateur: CHALCO GUINEA COMPANY S.A.

联系人：陈 昕 (xin\_chen@chinalco.com.cn / 613337532) 章秀丽 (zhangxiuli@chinalco.com.cn / 611398738)

Contact: Jason Chen (xin\_chen@chinalco.com.cn / 613337532) ZHANG Xiuli (zhangxiuli@chinalco.com.cn / 611398738)

中国铝业几内亚有限公司  
Chalco Guinea Company S.A.

2025年9月15日  
15 Septembre 2025

附件 1 (Annexe 1)

中国铝业几内亚有限公司报价单  
Formulaire de devis de CHALCO GUINEA COMPANY S.A

序号 NO	计划编号 Numéro de plan	物料名称 Nom du matériel	物料名称(英文或 法文)Designation (chinois ou français)	规格 Spécifications	单位 unité (de mesure)	数量 quantit és	单价 prix unique (GNF)	总价 prix total (GNF)	到货时间 date de livraison	备注品牌与型号 note de remarque et spécifications
1		挖掘机	excavateur à benne preneuse		台 / un	2				
		合计 (GNF)		HT (不含税)						

报价单位 unité de cotation  
(盖章 cachet) :

报价联系人 Contact pour  
le devis :

联系人电话 Numéro de  
téléphone de contact :

报价时间 date du  
devis :

附件 2:

## 中铝几内亚

### 带式输送机系统挖掘机采购

### 货物要求（技术规范书）

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# 供货要求

## 1. 项目说明

### 1.1 总则

- 1.1.1 本要求适用于中国铝业几内亚有限公司 Boffa 铝土矿挖掘机采购，包括设备的本体、辅助设备的功能、结构、性能等方面的技术条件和技术要求。本要求将作为订货合同的附件，与合同正文具有同等法律效力。
- 1.1.2 本要求提出的是最低限度的技术要求，并未对一切技术细节做出详细规定，也未充分引述有关标准和规范的条文。投标人应提供符合最新版本的企业或原产地国家、行业标准和本规格书的优质产品，且投标人应提供设备设计、制造和验收的直接标准或规范清单，清单由设备原产地语言和中文对比书写）。
- 1.1.3 如果投标人没有以书面形式对本技术规格书的条文提出异议，则意味着投标人提供的设备完全符合本技术规格书的要求。如有任何异议，应在投标文件中以“商务和技术偏差表”中加以详细描述。
- 1.1.4 设备采用的专利涉及到的全部费用均被认为已包含在设备报价中，投标人应保证招标人不承担有关设备专利的一切责任。
- 1.1.5 投标人提供的设备（包含附件、备品备件）必须满足 1.2 设备使用条件的要求。
- 1.1.6 投标人须保证所投标设备具有满足招标人的使用要求的完整性。
- 1.1.7 投标文件中明确设备运行所使用的燃料、润滑等全部油品的技术指标。
- 1.1.8 投标人应重点关注本供货要求中加黑斜体部分的内容。

## 1.1 设备使用条件

### 1.2.1 地理位置

矿区位于首都科纳克里（Conakry）北偏西，距离首都直线距离86km，公路距离约150km；位于博法（Boffa）省省会博法（Boffa）市北偏东，距离博法（Boffa）市直线距离8km；矿区西南角距离大西洋约25km。矿区位置在西经14°00'00"和西经13°45'00"、北纬10°15'00"和北纬10°55'00"之间。中铝几内亚带式输送机系统共由6条皮带输送机组成，自码头堆场至采场依次编号为：C01、C02、C03（后期增加）、C04（后期增加）、C05、C06、C07、C08，其中C01、C02、C03（后期增加）为码头堆场斗轮式堆取料机配套的输送机，C04（后期增加）、C05为码头堆场工业场地短距离转运输送机，C06、C07、C08为长距离越野皮带输送机。皮带输送机运输系统布置如图1-1所示。

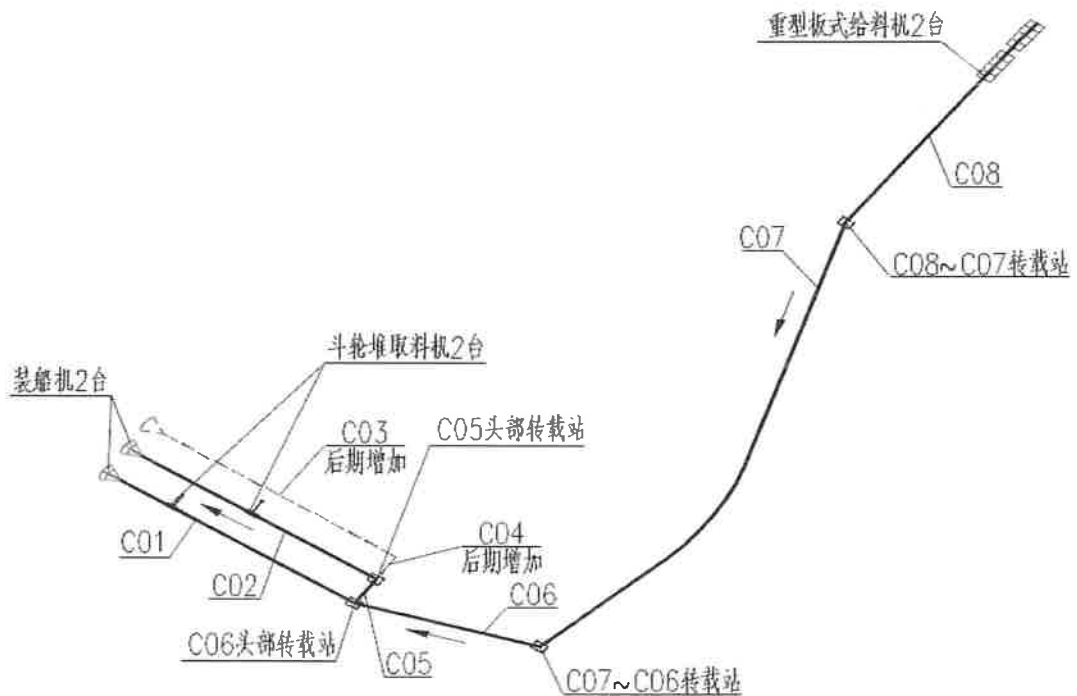


图 1-1 皮带输送机运输系统简图

本项目为带式输送机系统挖掘机采购计划，主要使用范围为堆场、码头区域。

### 1.2.2 气候

几内亚拥有着热带海洋性气候，气候湿热，雨、旱两季分明，每

年的11月至5月是旱季,6月至10月为雨季,年平均降水量为2212mm,年平均蒸发量为1473mm。地区全年湿度较大,介于70%~78%之间。

几内亚月均气温最高的城市是博凯(30°C),最低的城市是博凯(18°C)。气温月变化逐年相似,均呈单峰型。气温的日变化趋势相似,也为单峰型,6~7时气温回升,至13~14时达到最高峰,以后又下降。全年无四季变化,仅存在旱季和雨季之分。

由CBG和国家气象局提供的博凯(Boké)-Baralandé站降水资料,1974~2000年,雨季平均降雨量1996mm,雨季最大降雨量3196mm;1961~2005年,雨季平均降雨量2291mm;2001年雨季降雨量2834.2mm,降雨次数119次,平均每次降雨量约23.82mm,其中8月降雨量896.3mm,平均每次降雨量约35.85mm;2016年雨季降雨量2942.7mm,降雨次数76次,平均每次降雨量约38.72mm,其中7月降雨量1452.6mm,平均每次降雨量约60.525mm。其中最大日降雨量226mm,最大小时降雨量157mm,最大15分钟降雨量72mm。

博凯地区,1991年到2000年,年平均暴风雨数量为72次,大部分降雨在6到10月(大约每月10次)。这期间最高年暴风雨降雨记录为1992年的102次;最低降雨次数为2000年的43次。

矿区所在地区的极端天气主要是暴风雨,主要表现为龙卷风,风力很强(超过75km/h)一般都伴随着暴风雨。强暴风雨一般是在雨季开始和结束的时候发生,最大风力一般在6月和10月。

根据收集到的矿区近期气象资料,矿区属热带海洋性气候,气候湿热,雨、旱两季分明,每年的11月至5月是旱季,6月至10月为雨季,年平均降水量为2212mm,年平均蒸发量为1473mm。其中在7、8和9月,每天降雨量在10mm以上的天数约20天,在6和10月,每天降雨量在10mm以上的天数约10天,雨季降雨全部为暴雨,时间短,强度大,降雨时间集中,降雨之后很快晴天。

根据2017年5月中国有色金属长沙勘察设计研究院有限公司提交的《中铝几内亚Boffa铝土矿项目环境水文地质勘察报告》以Tinguilinta Pioneer Camp气象站提供的数据,矿区月平均气温为24~30°C,月最高气温出现在4月,最高可达44°C,月最低气温出现在1月,约为10°C。

### 1.2.3 地质条件

#### 区域地质

几内亚基底地块为下元古侵入体，以花岗岩类为主体的交代建造 (metasomatic formation) 组成 (图 3-2)。在早古生代，厚大沉积建造堆积形成 Bove 向斜 (图 3-3)，走向北北西，大致规模为 250km×100km，向北西倾伏。Bove 盆地的形成与几内亚基底地块西部的下沉有关。

Boffa&Santou 区块属于几内亚西北部 Boke-Gaoual 成矿带，该带是 Fouta-Djalon 成矿区的一部分，是全球最大的铝土矿成矿省之一。由于热带气候条件，下伏的古生代沉积地层、辉绿岩岩床历经百万年以上的风化作用形成铝土矿矿床。这种矿床主要分布于宽缓的平台或山脊处，通常标高为 200 米以上。

#### 1.1 设备工作条件

几内亚国家的 N3 公路从矿区南部边缘约 5km 处与矿区隔 Fatala 河通过，N3 公路为柏油路，路面宽度约 6m，其余检修道路及堆场、码头区域道路为土路，路况非常差。雨季生产时路况较差。

## 2. 供货范围

序号	设备名称	主要参数	数量 (辆)
1	挖掘机	履带式液压挖掘机，发动机功率 300KW，铲斗挖掘力 280KN，铲斗容量不小于 2.5m <sup>3</sup>	2

## 3. 执行标准

投标设备应满足原产地的国家、行业或企业标准及规范。

## 4. 设备技术规格及结构要求

### 4.1 挖掘机结构要求

性能参数	设备名称
操作重量(KG)	履带式液压挖掘机 大于 49000KG
发动机功率 (kw)	300kw

铲斗容量	2.5m <sup>3</sup> --3.1m <sup>3</sup>
铲斗挖掘力	大于 280kN
标准臂	7m
铲斗	耐磨增强
油箱	密封良好，保证强度，应做好防腐蚀处理
标准杆	3m

#### 4.2 设备结构其他要求：

4.2.1 产品必须具有防虫防尘功能、消防功能，具有耐候性功能。满足操作时产品防护的要求。

4.2.2 产品设计需保证产品在长期的连续运行中保持最少的维修量。投标人应出示类似设备的使用记录或同系列设备的记录以验证。

4.2.3 投标人应对设备的安全性负责。

4.2.4 易造成人身伤害的部位应设有安全防护措施及安全警示标志。

4.2.5 所有旋转轴、关节器、齿轮、飞轮、皮带轮和其他旋转部件应完全防护。防护罩的

设计应能使人容易接近轴承、润滑油脂加注点、温度计和其他检查点，以便操作人员能够没有危险地，或者不需拆除防护体的任何部分情况下，就可进行日常观察、维修。

4.2.6 防护体应采用螺栓固定，需用专用工具方可拆除。

4.2.7 防护体用“软钢”，包括螺栓、螺帽、垫圈以及支架都应采用热浸电镀工艺，采用

4.2.8 其他防腐工艺须另作说明。

4.2.9 设备应配置铭牌、特殊部位标牌、安全警示牌、使用说明牌等。

4.2.10 投标人应提供噪音和振动检测数据

## 5. 备品备件及专用工具要求

### 5.1 随机备品备件要求

卖方应提供合同设备的随机备品备件清单。在清单中应详细说明备品备件的名称、规格型号、数量、生产厂家等有关资料。

随机备品备件表

序号	名称	规格和型号	单位	数量	单价	生产厂家	备注

### 5.2 备品备件、易损件价格清单

卖方应向买方提供整车备品备件图册（电子版及纸质版），提供设备的备品备件、易损件价格清单，在清单表中应详细地列出备品备件和易损件的名称、规格型号、生产厂家等资料。投标人应承诺在质保期内若以该价格向招标人供货。

备品备件、易损件价格表

序号	名称	规格和型号	单位	数量	生产厂家	备注

### 5.3 专用维修工具要求

卖方应为本次采购的合同设备分别提供必要的专用维修工具，并已包含在合同总价中。卖方提供专用维修工具清单，供买方认可。

专业维修工具表

序号	名称	规格和型号	单位	数量	生产厂家	备注

## 6. 主要外购件

主要外购件表

序号	名称	规格和型号	单位	数量	生产厂家	备注

## 7. 技术资料内容及交付时间要求

投标人应提供指各种纸质及电子载体的与合同设备的设计、检验、安装、调试、考核、操作、维修以及保养等有关的技术指标、规格、图纸和说明文件，包括但不限于如下设备技术文件：

- 1) 中法文纸质操作保养手册 1 套/台
- 2) 中法文纸质维修手册 1 套/台
- 3) 中法文版备品备件清单 1 套/台
- 4) 中法文版出厂检验报告 1 套/台
- 5) 中法文版的其他必要资料、图纸、报告
- 6) 提供电子版的上述手册。

交付时间：设备交货时一并交付

## 8. 验收标准

根据中标人提供的性能结构及技术规格参数内容，由发标人成立验收小组对设备进行考核。

序号	项目	考核结果	确认人	备注
1	机械性能			
2	液压性能			
3	控制性能			
4	刹车性能			
5	仪表性能			
⋮	⋮			

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## 9. 技术服务与质保期服务计划

投标人应提供技术服务和质保期服务计划，其内容包括但不限于：

(1) 合同设备管理、操作、维护、维修技术培训教材。

(2) 合同设备质保期服务方案；服务方案应明确设备整体及各项备件、易损件的质保期限。同时应明确质保期内的服务模式及首保内容。已在几内亚或周边国家设置售后服务站及备品备件中心的，提供相关证明文件；尚未设置的，提供配置及保障方案（包括质保期内和质保期后两部分内容）。投标方结合项目的当地工作环境，提供一份维护保养承包方案（含报价）供投标人选择。

## 10. 进度保障措施

投标人按照投标设备生产流程制作交货进度保证措施，该措施应体现部件生产、组装及运输至港口的时间及具体保障措施。

Annexe 2:

## Chinalco Guinea

Belt Conveyor System Excavator Procurement

**Cargo requirements (technical specifications)**

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# Supply requirements

## 1. Project Description

### 1.1 General Principles

- 1.1.1 These requirements apply to the procurement of Boffa bauxite excavators by Aluminum Corporation of China (Guinea) Ltd., covering the technical conditions and requirements for the function, structure, and performance of the equipment and its auxiliary equipment. These requirements will be attached to the order contract and have the same legal force as the main body of the contract.
- 1.1.2 This requirement sets forth minimum technical requirements and does not specify all technical details nor fully cite relevant standards and specifications. Bidders should provide high-quality products that comply with the latest versions of enterprise or country of origin, industry standards, and this specification. Bidders should also provide a list of direct standards or specifications for equipment design, manufacturing, and acceptance, written in both the language of the equipment's country of origin and Chinese.
- 1.1.3 If the bidder does not raise any objection to the provisions of this technical specification in written form, it means that the equipment provided by the bidder fully complies with the requirements of this technical specification. If there is any objection, it should be described in detail in the "Commercial and Technical Deviation Table" in the bidding documents.
- 1.1.4 All costs involved in the patents used in the equipment are deemed to be included in the equipment quotation, and the bidder should ensure that the tenderer does not bear any responsibility for the equipment patents.
- 1.1.5 The equipment (including accessories and spare parts) provided by the bidder must meet the requirements of 1.2 Equipment Usage Conditions.
- 1.1.6 The bidder must ensure that the equipment bid has the integrity to meet the tenderer's requirements.

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1.1.7 The bidding documents shall clearly specify the technical indicators of all oil products such as fuel and lubricants used in equipment operation.

1.1.8 Bidders should pay special attention to the contents in bold italics in this supply requirement.

## **1.1 Equipment usage conditions**

### 1.2.1 Geographical location

The mining area is located northwest of Conakry, 86 km away as the crow flies and approximately 150 km by road. It is also located northeast of Boffa, the capital of Boffa Province, and 8 km away as the crow flies. The southwest corner of the mining area is approximately 25 km from the Atlantic Ocean. The mining area is located between 14°00'00"W and 13°45'00"W, and between 10°15'00"N and 10°55'00"N. The Chalco Guinea belt conveyor system consists of six belt conveyors, numbered sequentially from the terminal yard to the stope: C01, C02, C03 (added later), C04 (added later), C05, C06, C07, and C08. C01, C02, and C03 (added later) serve as conveyors for the bucket-wheel stacker-reclaimers at the terminal yard. C04 (added later) and C05 serve as short-distance transfer conveyors for the terminal yard's industrial site. C06, C07, and C08 are long-distance, off-road belt conveyors. The belt conveyor system layout is shown in Figure 1-1.

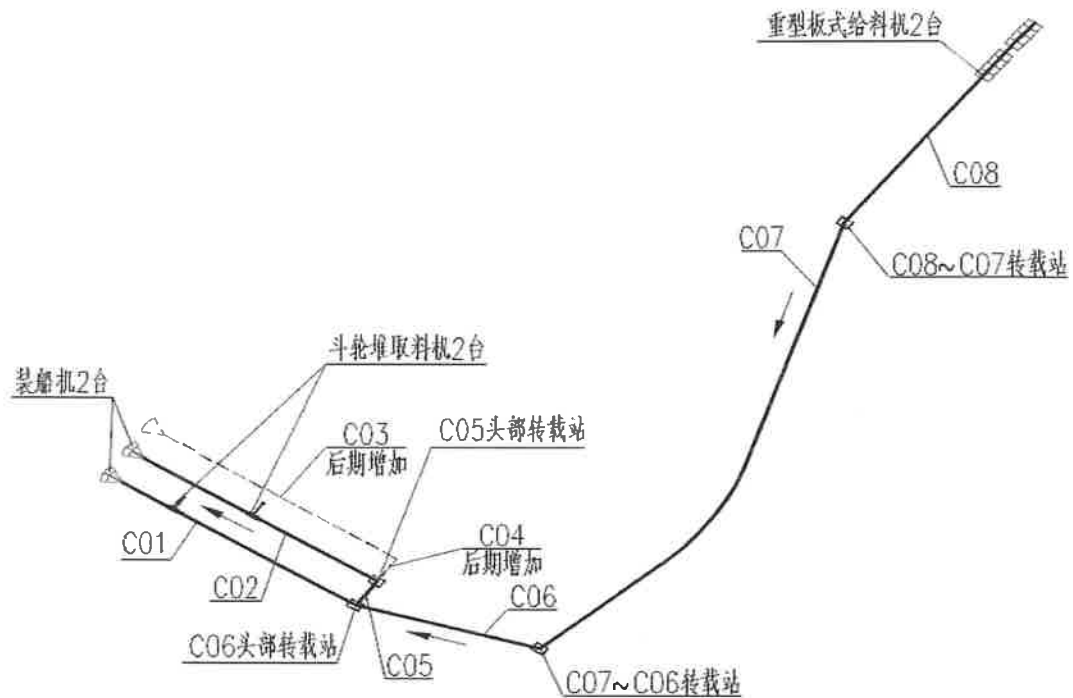


Figure 1-1 Schematic diagram of belt conveyor transportation system

This project is a plan to purchase excavators for belt conveyor systems, and the main use areas are storage yards and dock areas.

### 1.2.2 climate

Guinea has a tropical maritime climate characterized by hot and humid weather, with distinct rainy and dry seasons. The dry season runs from November to May, and the rainy season runs from June to October. The average annual precipitation is 2,212 mm, and the average annual evaporation is 1,473 mm. Humidity is high year-round, ranging from 70% to 78%.

Guinea's highest average monthly temperature is in Boké (30°C), while its lowest is in Boké (18°C). Monthly temperature fluctuations are similar from year to year, showing a single peak. Diurnal temperature fluctuations also follow a similar single peak, rising between 6:00 and 7:00 a.m., reaching their peak between 13:00 and 14:00 p.m., before declining again. There are no four seasons throughout the year, with only dry and rainy seasons.

Precipitation data for the Boké-Baralandé station, provided by the CBG and the National Meteorological Administration, show that from 1974 to 2000, the average rainy season rainfall was 1996 mm, with a maximum of 3196 mm. From 1961 to 2005, the average rainy season

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rainfall was 2291 mm. In 2001, the rainy season rainfall reached 2834.2 mm, with 119 rainfall events, averaging approximately 23.82 mm per event, including 896.3 mm in August, averaging approximately 35.85 mm per event. In 2016, the rainy season rainfall reached 2942.7 mm, with 76 rainfall events, averaging approximately 38.72 mm per event, including 1452.6 mm in July, averaging approximately 60.525 mm per event. The maximum daily rainfall was 226 mm, the maximum hourly rainfall was 157 mm, and the maximum 15-minute rainfall was 72 mm.

In the Boké region, the average annual number of storms from 1991 to 2000 was 72, with most rainfall occurring from June to October (approximately 10 per month). The highest annual rainfall recorded during this period was 102 in 1992, and the lowest was 43 in 2000.

Extreme weather in the mining area is primarily stormy, primarily tornadoes, with strong winds (over 75 km/h) typically accompanying these storms. These severe storms typically occur at the beginning and end of the rainy season, with peak winds typically occurring in June and October.

Recent meteorological data collected for the mining area indicates a tropical maritime climate characterized by hot and humid weather, with distinct rainy and dry seasons. The dry season runs from November to May, and the rainy season runs from June to October. The average annual precipitation is 2,212 mm, and the average annual evaporation is 1,473 mm. In July, August, and September, there are approximately 20 days with daily rainfall exceeding 10 mm, and in June and October, there are approximately 10 days with daily rainfall exceeding 10 mm. During the rainy season, rainfall is always torrential, short, intense, and concentrated, with clear skies quickly following.

According to the Environmental Hydrogeological Survey Report on the Chalco Guinea Boffa Bauxite Project submitted by China Nonferrous Metals Changsha Exploration and Design Institute Co., Ltd. in May 2017, based on data from the Tinguilinta Pioneer Camp Meteorological Station, the average monthly temperature in the mining area is 24-30°C, with the highest temperature occurring in April, reaching 44°C, and the lowest temperature occurring in January, at around 10°C.

### 1.2.3 geological conditions

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## Regional geology

The Guinea Basement is a Lower Proterozoic intrusive body composed of metasomatic formations dominated by granites (Figure 3-2). In the Early Paleozoic, thick sedimentary structures accumulated to form the Bove Syncline (Figure 3-3), which strikes northwest, measures approximately 250 km × 100 km, and dips northwest. The formation of the Bove Basin is related to the subsidence of the western part of the Guinea Basement.

The Boffa & Santou Block is located in the Boke-Gaoual metallogenic belt in northwestern Guinea, part of the Fouta-Djalon metallogenic area and one of the world's largest bauxite provinces. Due to tropical climate conditions, the underlying Paleozoic sedimentary strata and diabase bedrock weathered over millions of years to form bauxite deposits. These deposits are primarily found on broad, gentle platforms or ridges, typically at elevations exceeding 200 meters.

### 1.1 Equipment working conditions

Guinea's N3 Highway passes the mining area approximately 5 km from the southern edge of the mining area, separated by the Fatala River. The N3 is a paved road with a width of approximately 6 meters. The remaining maintenance roads and the roads around the storage yard and dock are unpaved and in very poor condition . Road conditions are particularly poor during the rainy season.

## 2. Scope of supply

Serial number	Device Name	Main parameters	Quantity (units)
1	excavator	Crawler hydraulic excavator, engine power 300KW , bucket digging force 280KN , bucket capacity not less than 2.5m <sup>3</sup>	2

## 3. Implementation standards

The equipment being bid should meet the national, industry or enterprise standards and specifications of the country of origin.

## 4. Equipment technical specifications and structural requirements

### 4.1 Excavator structural requirements

Performance parameters	Equipment name
	crawler hydraulic excavator
Operating weight (KG)	More than 49000KG
Engine power (kw)	300kw
Bucket capacity	2.5m <sup>3</sup> --3.1m <sup>3</sup>
Bucket digging force	More than 280kN
Standard arm	7m
bucket	Enhanced wear resistance
Fuel tank	Good sealing, guaranteed strength, and good anti-corrosion treatment
par	3m

### 4.2 Other requirements for equipment structure:

4.2.1 The product must be insect-proof, dust-proof, fire-resistant, and weather-resistant, and meet the requirements for product protection during operation.

4.2.2 The product design must ensure that the product requires minimal maintenance during long-term continuous operation. The bidder should provide the usage records of similar equipment or equipment in the same series for verification.

4.2.3 Bidders shall be responsible for the safety of the equipment.

4.2.4 Areas that may cause personal injury should be equipped with safety protection measures and safety warning signs.

4.2.5 All rotating shafts, couplings, gears, flywheels, pulleys and other rotating parts should be fully protected.

The design should provide easy access to bearings, grease filling points, thermometers and other inspection points so that operators can perform routine inspections and maintenance without danger or without removing any part of the protective body.

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4.2.6 The protective body should be fixed with bolts and can only be removed with special tools.

4.2.7 The "mild steel" used for the protective body, including bolts, nuts, washers and brackets, should be hot-dip electroplated.

4.2.8 Other anti-corrosion processes must be explained separately.

4.2.9 The equipment should be equipped with nameplates, special location signs, safety warning signs, instruction signs, etc.

4.2.10 Bidders should provide noise and vibration test data

## **5. Requirements for spare parts and special tools**

### **5.1 Random spare parts requirements**

The seller shall provide a list of spare parts for the contract equipment, which shall include the name, specification, model, quantity, manufacturer and other relevant information of the spare parts.

#### **Random spare parts list**

Serial number	name	Specifications and models	unit	quantity	unit price	Manufacturer	Remark

### **5.2 list of spare parts and wearing parts**

The seller shall provide the buyer with a catalog of spare parts for the complete vehicle (in both electronic and paper versions) and a price list of spare parts and wearing parts for the equipment. The list shall include in detail the names, specifications, models, manufacturers, etc. of the spare parts and wearing parts. The bidder shall commit to supply the goods to the tenderee at the stated price during the warranty period.

#### **Price list of spare parts and wearing parts**

Serial number	name	Specifications and models	unit	quantity	Manufacturer	Remark

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### 5.3 Special repair tool requirements

The Seller shall provide the necessary special maintenance tools for each of the Contract Equipment purchased, which are included in the total Contract Price. The Seller shall provide a list of special maintenance tools for the Buyer's approval.

#### Professional Repair Tool List

Serial number	name	Specifications and models	unit	quantity	Manufacturer	Remark

### 6. Main purchased parts

#### Main purchased parts list

Serial number	name	Specifications and models	unit	quantity	Manufacturer	Remark

### 7. Technical data content and delivery time requirements

The Bidder shall provide technical indicators, specifications, drawings and explanatory documents in various paper and electronic formats related to the design, inspection, installation, commissioning, assessment, operation, repair and maintenance of the Contract Equipment, including but not limited to the following equipment technical documents:

- 1) 1 set of Chinese and French paper operation and maintenance manuals per unit
- 2) 1 set of Chinese and French paper maintenance manuals per unit
- 3) 1 set of spare parts list in Chinese and French per unit
- 4) One set of factory inspection report in Chinese and French

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versions per unit

5) Other necessary materials, drawings, and reports in Chinese and French

6) Provide electronic version of the above manual.

Delivery time: Delivered together with the equipment

## 8. Acceptance criteria

Based on the performance structure and technical specifications provided by the successful bidder, the tenderer shall establish an acceptance team to assess the equipment.

Serial number	project	Assessment results	Confirmer	Remark
1	Mechanical properties			
2	Hydraulic performance			
3	Control performance			
4	Braking performance			
5	Instrument performance			
⋮	⋮			

## 9. Technical Service and Warranty Service Plan

The bidder shall provide technical service and warranty service plan, including but not limited to:

(1) Technical training materials for contract equipment management, operation, maintenance and repair.

(2) Service plan for the contract equipment during the warranty period; the service plan should clearly state the warranty period for the entire equipment and all spare parts and wearing parts. It should also clearly state the service model and initial warranty content during the warranty period. If after-sales service stations and spare parts centers have been established in Guinea or neighboring countries, relevant supporting documents should be provided; if they have not yet been established, a configuration and guarantee plan (including both during

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and after the warranty period) should be provided. The bidder shall provide a maintenance contract plan (including quotation) for the bidder to select based on the local working environment of the project.

#### **10. Progress assurance measures**

The bidder shall prepare delivery progress guarantee measures in accordance with the production process of the bidding equipment. The measures shall reflect the time and specific guarantee measures for component production, assembly and transportation to the port.