

REPUBLIC OF CAMEROON
Peace -- Work -- Fatherland
MINISTRY OF DECENTRALISATION AND
LOCAL DEVELOPMENT

NORTH WEST REGION
MOMO DIVISION
BATIBO COUNCIL

P.O BOX 06, BATIBO
CELL (237) 677 980 303



REPUBLIQUE DU CAMEROUN
Paix - Travail - Patrie
MINISTRE DE LA DECENTRALISATION
ET DU DEVELOPPEMENT LOCAL

REGION DU NORD OUEST
DEPARTEMENT DE LA MOMO
COMMUNE DE BATIBO

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BATIBO COUNCIL INTERNAL TENDERS BOARD

OPEN NATIONAL INVITATION TO TENDER

TENDER FILE

**N°03/ONIT/BATIBOCOUNCIL/BCITB/2025 OF 31/01/2025
FOR THE CONSTRUCTION OF THREE BOREHOLES WITH SOLAR
POWERED PUMPING SYSTEM IN BUNJEI AND THE COUNCIL
OFFICE, BATIBO SUBDIVISION, MOMO DIVISION OF THE NORTH-
WEST REGION**

PROJECT OWNER: THE MAYOR OF BATIBO COUNCIL

FUNDING: MINEE - PUBLIC INVESTMENT BUDGET 2025

AUTHORIZATION N°: _____

IMPUTATION: _____

LOT:	NAME OF PROJECT	AMOUNT OF PROJECT	AMOUNT OF BID BOND	COST OF TENDER FILE :	FINANCIAL YEAR
SINGLE	CONSTRUCTION OF THREE BOREHOLES WITH SOLAR POWERED PUMPING SYSTEM IN BUNJEI AND THE COUNCIL OFFICE	50,000,000 FCFA	1,000,000 FCFA	82,000 FCFA	2025



SUMMARY CONTENT OF THE TENDER FILE

PART 01
TENDER NOTICE

- Construction of six double standpipes equipped with valve chamber and a soak away pit (2 per borehole);
- Equipment of each tower with a 5m³ Polyéthylène vertical water storage tank;
- Construction of one control valve chamber (50x50x50cm) in reinforced concrete for each borehole;

Lot 700: Project sustainability with:

- Training of two caretakers provided by the Batibo Council;
- Supply of a complete tool box and spare parts.

3. Execution deadline

The maximum deadline provided by the Contracting Authority for the execution of the works forming the subject of this Invitation to Tender is **one hundred and twenty (120) days**.

4. Lot

The work is in unique lot: the construction of three boreholes with solar powered pumping system in Bunjei and the Council Office.

5. Estimated cost

The estimated cost after preliminary studies is **fifty million (50,000,000) FCFA**.

6. Participation

Participation is open under the same conditions to all Cameroonian companies and business concerned that are in compliance with the Cameroon laws.

7. Financing

The works, subject of this invitation to tender, are financed by the Public Investment Budget **MINEE 2025** budget head N° _____

8. Consultation of the tender file

The tender file may be consulted at the Batibo Council Office Secretariat, during working hours, as soon as this tender notice is published.

9. Acquisition of the tender file

The tender file may be acquired from the Batibo Council Office Secretariat, upon presentation of a non-refundable treasury receipt of **eighty-two thousand (82,000) FCFA payable at the Batibo Council Treasury representing the cost of the tender file**. Such a receipt shall identify the payer as representing the company that wants to participate in the tender.

10. Submission of bids:

Each offer drafted in English or French in 07 (seven) copies including 01 (one) original and 06 (six) copies marked as such, should reach the Batibo Council Office Secretariat not later than **21/02/2025 at 10:00 noon** local time and should carry the inscription:

**<< OPEN NATIONAL INVITATION TO TENDER
N°03/ONIT/BATIBOCOUNCIL/BCITB/2025 OF 31/01/2025
FOR THE CONSTRUCTION OF THREE BOREHOLES WITH SOLAR POWERED PUMPING SYSTEM
IN BUNJEI AND THE COUNCIL OFFICE, BATIBO SUB DIVISION, MOMO DIVISION OF THE
NORTH-WEST REGION.>>**

"To be opened only during the bid-opening session"

11. Admissibility of bids

Under penalty of being rejected, only originals or certified true copies signed by the issuing service or administrative authorities (Senior Divisional Officer, Divisional Officers) must imperatively be produced in accordance with the Special Regulations of the Invitation to Tender.

They must obligatorily not be older than three (3) months preceding the date of submission of bids or may be established after the signature of the tender notice

Any bid not in compliance with the prescriptions of the Tender File shall be rejected. This refers especially to the absence of a bid bond issued by a first-rate bank approved by the Minister in charge of Finance.

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TENDER NOTICE

AVIS D'APPEL D'OFFRES NATIONAL OUVERT

N°03/AONO/COMMUNEBATIBO/CIPMCB/2025 DU 31/01/2025

LA CONSTRUCTION TROIS FORAGES EQUIPPES D'UN SYSTEME DE POMPAGE SOLAIRE A
BUNJEI ET A LA MAIRIE, ARRONDISSEMENT DE BATIBO, DEPARTEMENT DE LA MOMO,
REGION DU NORD-OUEST.

FUNDING: BUDGET D'INVESTIMENT PUBLIC MINEE
Exercise 2025

1.- Objet de l'Appel d'Offres

Le Maire de la commune de Batibo, Autorité Contractante, lance pour le compte de la République du Cameroun, un appel d'offre national ouvert pour les travaux de la construction trois forages équipés d'un système de pompage solaire a bunjei et à la Mairie, Arrondissement de Batibo, Département de la Momo, Région du Nord-Ouest.

2. Consistance des travaux

Les prestations comprennent les opérations suivantes :

- Lot 100: Travaux préparatoires;
- Lot 200: Travaux de forage ;
- Lot 300: Travaux de développement et de pompage;
- Lot 400: installation du système de pompage solaire;
- Lot 500: installation des canalisations ;
- Lot 600 : Construction de trois châteaux et installation du réservoir plastique de 5m3 pour chacun ;
- Lot 700 : Pérénnité du projet.

3. Délais d'exécution

Le délai maximum prévu par le Maître d'Ouvrage pour la réalisation des travaux objet du présent appel d'offres est de **cent vingt (120) jours**.

4. Coût prévisionnel : cinquante million (50.000.000) franc CFA

5. Participation

La participation est ouverte à l'égalité de conditions à toutes les sociétés et entreprises de droits camerounais.

6.- Financement

Les travaux, objet du présent Appel d'Offres, sont financés par **Budget D'investissement Public MINEE, Exercice 2025, sur la ligne d'imputation budgétaire N° _____**.

- 7- Moyens logistiques ;
- 8- Attestation de visite du site signée par l'autorité de soumissionnaire.
- 9- Cahier des Clauses Techniques Particulières paraphé à chaque page ;
- 10- Cahier des Clauses Administratives Particulières complété et paraphé à chaque page.
- 12. Les critères essentiels sont soumis à des minima dont le détail est donné dans le Règlement Particulier de l'Appel d'Offres (RPAO).

13. Attribution

Cette évaluation se fera de manière purement positive (oui) ou négative (non) avec un minimum acceptable d'au moins **80%** de l'ensemble des critères essentiels pris en compte.

Le marché sera attribué au soumissionnaire qui aura proposé l'offre la moins disante, conforme pour l'essentiel aux prescriptions du Dossier d'Appel d'Offres, ayant satisfait à **100%** des critères éliminatoires et au moins **80%** des critères essentiels.

14. Durée de validité des offres

Les soumissionnaires restent engagés par leur offre pendant 180 jours à partir de la date limite fixée pour la remise des offres.

15. Renseignements complémentaires

Les renseignements complémentaires d'ordre technique peuvent être obtenus auprès de la Commune de Batibo.

Copie :

- ✓ ARMP ;
- ✓ DD MINMAP MOMO
- ✓ DD MINEE MOMO
- ✓ Maître d'Ouvrage
- ✓ Présidents CPM ;
- ✓ Affichage.
- ✓ Chrono/archive

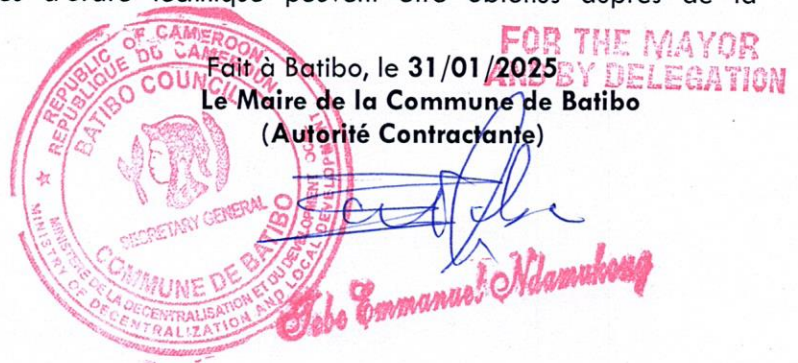


Table of content

A. Generalities

Article 1: Scope of the tender.....	
Article 2: Funding.....	
Article 3: Fraud and corruption.....	
Article 4: Qualification of bidders.....	
Article 5: Site visit.....	
Article 6: Building materials, materials, supplies, equipment and authorised services.....	

B. Tender File

Article 7: Content of Tender File.....	
Article 8: Clarification made to the tender file	
Article 10: Modification of the Tender File.....	

C. Preparation of Bids

Article 10: Costs of submission.....	
Article 11: Language of bid.....	
Article 12: Composition of bid.....	
Article 13: Amount of bid.....	
Article 14: Bid currency and settlement.....	
Article 15: Validity of bids.....	
Article 16: Guarantee of submission.....	
Article 17: Form and signature of the bid.....	

D. Submission of bids

Article 18: Sealing and marking of bids.....	
Article 19: Date and time limits to deposit bids.....	
Article 20: Bids out of time.....	
Article 21: Modification, substitution and withdrawal of bids.....	

E. Opening and evaluation of bids

Article 22: Opening of bids.....	
Article 23: Confidential nature of the procedure.....	
Article 24: Clarification on the bids and contact with the Contracting authority	
Article 25: Determining the conformity of bids	
Article 26: Correction of errors	
Article 27: Evaluation and comparison of the financial bid (offer).....	

F. Attribution of Contract

Article 28: Award	
Article 29: Right of the Contracting authority to declare an invitation to tender unfruitful (unsuccessful) or cancel a procedure	
Article 30: Notification of the award of the contract	
Article 31: Publication of the award decision and redress	
Article 32: Signature of the Contract	
Article 33: Guarantees	

- i. The production of certified balance sheets and a recent turnover figure.
- ii. Access to a credit line or provision of other resources;
- iii. Previous jobbing orders and ongoing contracts attributed;
- iv. On-going disputes;
- v. The availability of the necessary equipment.

4.2. The bids submitted by two or more grouped entrepreneurs (co-contracting) must meet the following conditions:

- a. The offer must include for each of the bidders in the co-contracting, all the information listed in section 4.1 above. The special regulation of the Call for Tender (SRCT) must specify the information to be provided by each Member of the Group;
- b. The nature of the group must be specified and justified by the production of a group agreement in good and due form;
- c. The Member of the Group designated to lead, shall represent all the enterprises engaged in the consortium in front of the contracting Authority for the execution of the contract;
- d. In case of co-contracting, co-contractors share the amounts that are paid by the contracting authority in a single account; however, each company is paid by the contracting authority in a unique account, when it comes to a joint group.

4.3. Bidders must also submit detailed proposals to show that they conform to the technical specifications and the time frames specified in the special regulation of the Call for Tender.

4.4. Bidders requesting for a preferential margin, must provide all the information necessary to prove that they meet the eligibility criteria described in the special regulation of the Call for Tender.

4.5 The bidder must not have been excluded from bidding for public contracts.

Article 5: The site visit

5.1 Each bidder shall visit and inspect the site of the work and its surroundings and by himself, and under his own responsibility, gather all the information as may be necessary for the preparation of the bid and the performance of the work. An attestation of site visit shall be signed by the bidder. The observations of the bidder will be recorded in the site visit report annexed to the technical offer.

5.2 The Project Owner shall authorise the bidder and his employees or agents to enter the premises and the land for the said visit, but only on the express condition that the bidder, his employees and agents free the Project Owner, his employees and agents of any responsibility that may ensue and indemnify them if necessary and that they shall remain responsible for any deadly or corporal accident, loss or material damages, costs and fees incurred from this visit.

Article 6: Building materials, materials, supplies, equipment and authorised services

6.1 Building materials, the contractor's materials, supplies, equipment and services forming the subject of this contract must originate from countries meeting the criteria of origin defined in the Special Regulations of the invitation to tender and all expenditure done within the context of the contract shall be limited to the said building materials, materials, supplies, equipment and services.

6.2 Within the meaning of this 6.1 above, the term "originate" shall designate the place where the goods are extracted, cultivated, produced, manufactured and from where the services originate.

9.2. Any amendment so published will be an integral part of the tender file as presented in Article 6.1 of the RGAO and will be communicated in writing to all bidders who purchased the Tender File.

9.3. To give bidders sufficient time to take account of the amendment in the preparation of their bids, the Contracting authority could extend the deadline of submission of bids, as much as necessary, the deadline for offers, in conformity with the provisions of section 19 of the RGAO.

C. PREPARATION OF BIDS

Article 10: Costs of submission

The candidate will bear all the costs associated with the preparation and presentation of his bids, and the Contracting authority and the project owner are not responsible for any of these costs, or to settle them, regardless of the conduct or outcome of the tender procedure.

Article 11: Language of bid

The bid, all correspondences and all documents exchanged between the bidder and the Contracting authority will be written in English or French.

Article 12: Composition of bid

12.1. The bidder's bid will include documents detailed in the Special Regulations of the invitation to tender, duly completed and grouped in three volumes:

a. Volume 1: Administrative documents

It includes:

- I. All documents stating that the bidder:
 - ✓ Has complied with all declarations provided for by the laws and regulations in force;
 - ✓ Is current with his taxes, contributions, fees or levies of any kind whatsoever;
 - ✓ Is not in a State of liquidation or bankruptcy;
 - ✓ Is not caught by one of the prohibitions and disqualifications criteria provided for by the legislation in force.
- II. Bid bond(s) issued is in conformity with the provisions of article 15 of the present RGAO;
- III. A written confirmation authorizing the signatory of the bid to engage the bidder
- IV. The CCAP is duly initialed on each page and signed on the last page.
- V. Localization plan is duly signed by the authority concerned.

b. Volume II: Technical File

It includes:

- I. Attestation of site visit and the site visit report;
- II. Personnel: the contractor will present the competent technical staff and workers he intends to hire before the beginning of the work (attach to each staff CV signed by the candidate, certified copy of technical diploma, attestation of presentation of original and the attestation of availability signed by the candidate);
- III. Site equipment: The contractor shall justify the ownership and the State of the equipment necessary for the performance of the work (providing registration certificates, invoices and certificates of technical visit of rolling equipment);
- IV. References of the company (the contractor will provide contracts or Jobbing orders for similar work carried out as well as related minutes of reception);
- V. The technical note on the methodology of intervention of the work: the company will produce a technical note dated and signed providing all the information concerning the mode of execution of the works, the planning of intervention, the expected output, provision of materials or site

Article 15: Validity of bids

15.1. The bids shall remain valid for Ninety (90) days. Any offer with validity less than this period will be rejected by the Contracting authority.

15.2. In exceptional circumstances, the Contracting authority may seek the consent of the bidder for an extension of the period of validity. The application and responses to be made will be in writing. The validity of the submission guaranty under article 15 of the RGAO will be similarly extended for a corresponding period. A bidder may refuse to extend the validity of the offer without losing its bid bond. A bidder who agrees for an extension will not be asked to modify its offer, or will be allowed to do so.

15.3. When there is no article in the contract for the revision of prices and the period of bid validity is extended over sixty (60) days to the date of notification of the contract award or of the service order to start work to the successful bidder, as provided in the CCAP, the effect of actualization is not taken into account for the purposes of the assessment.

Article 16: Guarantee of submission

16.1. In application of article 10 of the RGAO, the bidder will provide a bid bond of the amount specified in the OMPP, which will be an integral part of its bid.

16.2. The bid bond must be in conformity with the model presented in the Tender File.

16.3. Any bid not accompanied by an acceptable bid bond will be rejected by the tenders' board as no-compliant. The bid bond of a group must be established in the name of the agent mandated to submit the bid and each member of the grouping must be mentioned.

16.4. The bid bonds and bids of unsuccessful bidders shall be returned within a period of fifteen (15) days from the date of publication of the results.

16.5. The bid bond of the successful bidder shall only be released as soon as the latter has signed the contract and has provided the required performance guarantee.

16.6. The bid bond may be seized:

- a. If the bidder withdraws his bid during the period of validity;
- b. If the bidder selected:
 - ✓ Fails to fulfill its obligation to accept the contract pursuant to the results of award of the contract, or
 - ✓ Fails to provide the performance guarantee pursuant to section 30 of the RGAO.

Article 17: Form and signature of the bid

17.1. The bidder will prepare an original of the constituent documents of the bid described in section 11 of the RGAO, in a volume bearing clearly the indication "**ORIGINAL**". In addition, the bidder shall submit the number of copies required by the OMPP, bearing the indication "**COPY**". In case of discrepancy between the original and the copies, the original will be taken.

17.2. The original and all copies of the offer must be typed or written in eligible ink and will be signed by the person duly empowered to sign on behalf of the bidder. All pages of the bid including overleaf will be initialed by the person (s) mandated to sign the offer.

17.3. In the offer there shall be no amendment, deletion or overloading, unless such corrections are initialed by the signatories of the bid.

D. SUBMISSION OF BIDS

Article 18: Sealing and marking of bids

18.1. The bidder will place the original and copies of the constituent documents of the bids in two separate and sealed envelopes marked "**Original**" and "**Copy**", as the case may be. These envelopes will

23.1. No information on the examination, evaluation, comparison of the bids, the verification of the qualification of bidders, and the recommendation of award of the contract shall be given to bidders or to any other person not concerned in this process until the award of the contract shall be made public by the Contracting authority.

23.2. Any attempt by a bidder to influence the Tender's board or the Sub-Committee for analysis in the evaluation of bids or the Contracting authority in the award decision may lead to rejection of his bid.

23.3. Notwithstanding the provisions of paragraph 19.2, between the opening of bids and the award of the contract, if a bidder wishes to enter in contact with the Contracting authority for reasons related to his bid, he must do so in writing.

Article 24: Clarification on the bids and contact with the Delegated Contracting authority

24.1. To facilitate the examination and comparison of bids, the Chairman of the Council Internal Tender's board may, at his discretion, ask any bidder for clarification on the bidder's bid. The request for clarification and the response shall be in writing, but no change in the amount or the content of the submission is sought, offered or permitted, unless it is necessary to confirm the correction of arithmetic errors discovered by the Sub-Commission for analysis in the evaluation of bids.

24.2. Subject to the provisions of paragraph 1 above, bidders are not allowed to have contact with any member of the tender's board and that of the Sub-committee for analysis for issues related to their bids, between the opening of bids and the award of the contract.

Article 25: Determining the conformity of bids

25.1. The Sub-Commission for analysis shall carry out a detailed examination of the bids to determine if they are complete, if the required guarantees have been provided, if the documents were properly signed and bids are generally in good order.

25.2. The Sub-Commission shall determine if the bid is substantially responsive to the requirements of the Tender File based on its content without recourse to extrinsic evidence.

Article 26: Correction of errors

26.1. The Sub-Commission shall check the bids found substantially responsive with the requirements of the Tender File for any correction of arithmetic errors. The Sub-Commission for analysis will correct the errors in the following ways:

- a. If there is a contradiction between the unit price and the total price obtained by multiplying the price by the amount, the unit price will govern and the total price will be corrected, unless, in the opinion of the Sub-Commission for analysis, the comma of the decimal digits of the unit price is obviously poorly placed, in which case the total price indicated will prevail and the unit price will be corrected.
- b. If the total obtained by addition or subtraction of the subtotals is not correct, the subtotal as indicated will govern and total will be corrected.
- c. If there is a contradiction between the price indicated in words and figures, the amount in words will govern, unless this amount is related to an arithmetic error confirmed by the sub detail of the said price, in which case the amount in figures will prevail subject to paragraphs (a) and (b) above.
- d. If there is a contradiction between the amount in the unit price in the bill of quantities and estimates, and the unit price breakdown (sub-detail), the amount in the unit price break down shall govern.

26.2. The bid amount will be corrected by the Sub-Commission for analysis, in accordance with the procedure of correction of errors mentioned above and with the confirmation of the bidder, such amounts will be deemed to hire him.

26.3. If the bidder having presented the lowest evaluated bid price does not accept the corrections on his bids, his offer will be rejected and the bid bond forfeited.

Article 27: Evaluation and comparison of the financial bid (offer)

Only offers accepted, in conformity according to the provisions of section 24 of the RGAO, will be evaluated and compared by the Sub-Commission for analysis.

32.1. After the publication of the award decision, the draft contract subscribed by the successful bidder is transmitted to the competent tenders' board for examination and adoption.

32.2. The Contracting Authority has a time-limit of seven (07) days from the date of reception of the approved draft contract from the competent's tenders' board and subscribed by the successful bidder to sign the contract.

32.3. The contract is notified to the contractor within five (05) days of signature.

Article 33: Guarantees

33.1. The final bond must be constituted within twenty (20) days following the notification of the contract by the Contracting Authority guaranteeing of the complete execution of the contract.

33.2. The final bond may not be less than two percent (2%) and more than five percent (05%) of the initial value of the contract. It may be replaced by a bank caution issued by a banking establishment or first rate financial institution authorized in accordance with the instruments in force.

33.3. Small and medium-sized enterprises (SME) constituted of National capital and managed by nationals may, in lieu of the final bond, provide a stator lien or a bond issued by a banking establishment or first rate financial institution authorized in accordance with the instruments in force.

33.3. The absence of the final bond within the prescribed time-frame, the Contracting Authority may decide to cancel or terminate the contract at the fault, expense and risk of the said contractor according to the conditions provided in the General Administrative Clauses (CCAG).

Special regulations of the Invitation to Tender

References of the General regulations	General
1	Definition of works: Construction of three boreholes with solar powered pumping system in Bunjei and the Council Office in Batibo Subdivision, Momo Division of the North-West Region. Name and address of the Contracting Authority: The Lord Mayor of Batibo Council Reference of Invitation to Tender: N° ____/ONIT/BC/BCITB/2025 of ____/____/2025
2	Execution deadline: one hundred and twenty (120) days
3	Source of financing Works which form the subject of this Invitation to Tender shall be financed by the 2025 Public Investment Budget of the Ministry of MINEE
4	List of pre-qualified candidates, not applicable
5	Origin of building materials, equipment, materials, supplies and equipment: The materials will generally be from natural sources in Cameroon.

6.1 Evaluation criteria

The bids shall be evaluated according to the main criteria as follows:

C. Eliminary criteria

1) Administrative offer

- Absence or non-compliance of an administrative document beyond the regulatory 48-hour period.
- Absence of bid bond at the opening of tenders
- Falsified or non-compliant part

2) Technical offer

- Declaration of honour not to have abandoned a site during the last 03 years
- False declaration, falsified document
- Performance \geq to 80% of criteria 18/22 yes
- Absence of a Diploma or Certificate of Professional Qualification (DQP) in Building Electricity with at least 5 (five) years' experience

3) Financial offer

- Incomplete financial offer
- Omission of a trade to be assessed
- Presentation of offers
- Previous company references
- Organization and methodology
- Site personnel
- Construction equipment
- Planning and execution time of the work
- Certificate of site visit signed on honor

D. Essential criteria

- Presentation of offers
- Previous company references
- Organization and methodology
- Site personnel
- Construction equipment

	months.
A.5	Purchase receipt of Tender File of eighty-two thousand (82,000) CFAF issued by Council treasury
A.6	A bid bond of one million (1,000,000) CFAF issued by a first rate-financial institution approved by the Ministry in charge of Finance in conformity with COBAC conditions
A.7	An attestation of non-exclusion from Public Contracts issued by the Public Contracts Regulatory Board (ARMP)
A.8	An Attestation of the National Social Insurance Fund stating that the bidder has met all his obligations vis a vis the Fund; the attestation valid within the given time.
A.9	A valid business licence carrying a fiscal stamp
A.10	Certified Copy of a valid taxpayers card carrying a fiscal stamp
A.11	Plan of location of the Company signed by the bidder
A.12	Power of attorney if necessary
A.13	Special Technical Clauses initialed in all the pages and signed at the last page
A.14	Special Administrative Clauses completed and initialed in all the pages and signed at the last page

In the absence or non conformity of one of these documents, the bidder shall be given 48hours to provide the correct document, failure of which it will result to the elimination of the offer.

The second Internal Envelope shall be labeled <<**ENVELOPE B: TECHNICAL DOCUMENT**>> and shall contain the following:

The **Special regulations of the Invitation to Tender** specifies the list of documents to be provided by bidders to justify the qualification criteria referred to in section 6 of the OSPR. They will include:

- A brief description of the Candidate and an overview of his or her recent experience in the context of similar assignments For each of them, this summary must indicate the characteristics of the proposed staff, the duration of the assignment, the amount of the contract and the part taken by the Candidate; (attach, as proof, the co-pies of the purchase orders/letter-orders/contracts/contracts (first and last pages) and the minutes of receipt or follow-up of the corresponding services) For:

At least one (01) General reference in electrification or solar energy works;

At least one (01) Specific Reference in solar energy works.

- Any comments or suggestions on the Terms of Reference and data, services and facilities to be provided by the Employer

- A description of the proposed methodology and work plan to accomplish the assignment:

Presence of a methodology;

Presence of a schedule and duration of the mission;

Presence of a Certificate of Site Visit on honor.

- The composition of the proposed team, by specialty, as well as the tasks that are entrusted to each of its members and their schedule:

- Recently signed curriculum vitae by the proposed specialized personnel and the Applicant's representative authorized to submit the proposal.

1- PROJECT MANAGER: Renewable Energy Design Engineer

Attach CV dated and signed by both parties and certificate of availability (according to the attached model), the certified copy of the diploma or certificate of achievement with a general experience of at least 5 years from the date of obtaining the required diploma and a specific professional experience of at least two (02) projects carried out in solar energy.

2- WORKS SUPERVISOR: Senior Civil Engineering Technician

Attach CV dated and signed by both parties and certificate of availability (according to the attached model), the certified copy of the diploma or certificate of achievement with a general experience of at least 5 years from the date of obtaining the required diploma and a specific professional experience of at least two (02) projects carried out in solar energy.

3 – TECHNICIAN 1: Professional Technician

10.1 Provisional guarantee

The amount of the provisional guarantee or guarantee of tender is fixed at **one million (1,000,000) CFAF**.

The time of validity of this guarantee is ninety (90) days as from the date of depositing of the offers.

10.2 Final Bond

The final Bond is fixed at two percent (2%) of the initial amount of the services envisaged in the country.

It could be replaced by a guarantee personal and interdependent of a banking house approved by the Ministry of Finances following COBAC conditions.

It will have to be made up in the twenty (20) days following the notification of the signature of the Contract in a bank approved by the Minister in charge of Finances.

10.3 Guarantee Retention

Guarantee Retention of ten percent (10%) will be operated on amount including all taxes of the Contract.

The corresponding sum will be paid or the released guarantee, with the final acceptance of work.

ARTICLE 11: Period of validity of the offers

The bidder will remain committed to his offer for sixty (60) days as from the handover date of the offers.

If at the end of this period, the Contract were not notified to him, the bidder will be able, either to cancel his offer, or to ask for a new negotiation of the unit prices.

ARTICLE 12: A number of copies of the offer which must be filled and sent

The tender, as all the parts accompanying it will have to be given in seven (07) copies, including one (01) original and six (06) copies. The bidder will present his dossier inside a sealed outer jacket being marked:

<< OPEN NATIONAL INVITATION TO TENDER

N: 03/ONIT/BATIBOCOUNCIL/BCITB/2025 OF 31/01/2025

**FOR THE CONSTRUCTION OF THREE BOREHOLES WITH SOLAR POWERED PUMPING SYSTEM
IN BUNJEI AND THE COUNCIL OFFICE, BATIBO SUBDIVISION, MOMO DIVISION OF THE
NORTH-WEST REGION.>>.**

"TO BE OPENED ONLY DURING THE OPENING SESSION"

ARTICLE 13: Date and latest time of deposit of offers

The offers will have to arrive under closed fold and seal latest **21/02/2025** at 10:00am, by mail registered with acknowledgement of delivery or by deposit against receipt to the following address:

THE SERVICE OF THE CONTRACTING AUTHORITY, THE SECRETARIAT OF THE BATIBO COUNCIL

Beyond this time no offer will be received nor accepted.

ARTICLE 14: Opening of the tenders

The opening of the folds will be carried out in the conference room of the Batibo Council on **21/02/2025** as from 11:00am, by the Batibo Council Tender Board sitting in the presence of the duly elected bidders or their representatives and having a good knowledge of the file.

AWARD OF THE CONTRACT

ARTICLE 15: Award of the Contract

PART 04
SPECIAL ADMINISTRATIVE CLAUSES (C.C.A.P)

CHAPTER I: GENERALITIES

ARTICLE 1: Subject of the Jobbing order

The jobbing order has as subject the construction of three boreholes with solar powered pumping system in Bunjei and the Council Office, Batibo SubDivision, of the Momo Division, North-West Region.

ARTICLE 2: Procedure of the award of the jobbing order

The present jobbing order is awarded after an Open National Invitation to tender, following procedures laid down for the award of public contracts in Cameroon.

ARTICLE 3: Definitions and attributions (CCAG article 2).

1- General definitions

- The Contracting authority is **the Lord Mayor Batibo**. He is responsible for the conservation of the originals of the jobbing order and the transmission of copies to ARMP through the focal point designated to that effect.
- The Project owner is **the Mayor of Batibo Council** responsible for the general administrative, financial and technical assistance at the definition, preparation, execution and acceptance stages of the services forming the subject of the jobbing order.
- The contract engineer is **the Divisional Delegate of MINEE for Momo** and is responsible for the follow-up of the execution of the contract.
- The project manager is the **Council Development Officer** for Batibo council and is responsible the defense of interest at definition, preparation, execution and acceptance stages of the services forming the subject of the jobbing order
- The beneficiary is **the company**.

2- Security

In view of the application of the law on collateral prescribed in the Decree N° 2018/366 of 20th June 2018, the following are designated:

- The authority in charge of ordering payment shall be the **Mayor of Batibo Council**.
- The body or official in charge of payment shall be the **Municipal Treasury of Batibo Council**;
- The authority in charge of the clearance of expenditures shall be the **Divisional Controller of finance-Momo**;
- The official competent to furnish information within the context of execution of this jobbing order shall be the Project owner, DDMINMAP and the contract engineer.

ARTICLE 4: Language, law, and regulation

4.1. The language used during the submission is either English or French,

4.2. The laws and regulations are the laws and regulations in force in Cameroon;

4.3. The Contractor undertakes to observe laws, regulations, and order in force in the Republic of Cameroon, and as well in its own organization in the implementation of the contract.

If in Cameroon, these laws, regulations, administrative and fiscal obligations in force are changed after the signature of the contract, the eventual costs will be borne by the contracting parties.

ARTICLE 5: Constituent Parts of the Jobbing order (CCAG article 4).

The constituent parts of this contract are in order of priority:

- The letter of undertaking;
- The letter of submission corrected eventually;
- The special administrative Clauses (CCAP);
- The special Technical Clauses (CCTP);
- The unit price schedule;

8.3. Technical service orders on technical issues concerning the execution of the contract will be signed by the contract manager and notified to the contractor by the contract engineer with copies to the Contracting Authority.

8.4. Service orders on warning notices will be signed by the project owner and notified by his services to the contractor with copies to the Contracting Authority and the Contract Engineer.

8.5. Service orders on suspension and restart of works because of unforeseen circumstances will be signed by the Contracting Authority and notified by his services to the contractor with copies to the Contract Manager and the Contract Engineer.

8.6. Service orders concerning remedial actions during the guarantee period will be signed by the Contract Manager on the proposal of the Contract Engineer and notified to the contractor by the Contract Engineer.

8.7. The contractor has fifteen (15) days to issue reservations on any service order received. The fact of issuing reservations does not prevent the contractor to execute the service orders received.

8.8. The Contracting Authority has the right to notify service orders signed by him that are to be notified by the project owner in case this is done within 30 days.

ARTICLE 9: Contractor's Equipment and Personnel (CCAG article 15).

9.1. Personnel: In his bid the contractor engaged to mobilize human and material resources necessary for the proper execution of the works in conformity with the standards and norms in force in Cameroon, and according to the stipulations of the CCAP/CCTP. All these personnel should be effectively present on site up to the end of works. The contract was awarded on the basis of an elaborated list of equipment and personnel requested by the contracting authority.

Within fifteen (15) days following the notification of the administrative service order to commence works, the contractor should obligatorily designate on the approval of the contract engineer the works director, the works foreman endowed with powers of representation and decision to manage the site. Any modification of the technical bid can only take place after a written approval to the contract engineer.

In case of any modification, the contractor shall replace any personnel with one having the same qualification, experience and competence or with appropriate performant equipment.

9.2. Replacement of a senior staff: The contractor's representative and the site foreman shall be approved by the contract manager. Their workers can be replaced or excluded from the site without a prior accord by the contract manager.

Any partial and total changes on the technical bid, shall take place only after a written approval by the contract manager. In case of any changes, the contractor shall replace any personnel with one having the same qualification, experience and competence. The list of personnel to be replaced will be transmitted to the project manager for approval.

The contract manager has the right to order for the replacement of any worker or labourer for reasons of misconduct, insubordination and incapacity. The contractor is responsible for all crimes and disorders committed by his workers. Any replacement of any senior staff shall have a lumpsum fine of Two hundred thousand (200 000) FCFA per person except for unforeseen circumstances. Any such replacement shall not interrupt the execution of the contract. The charges shall be born by the contractor. In case of any accident or illness, the contractor shall replace the worker in question without delay.

9.3. Any one-sided decision to effect change of personnel of the technical bid before and during the execution of the contract constitute a justified reason for the cancellation or termination of the contract.

CHAPTER II: FINANCIAL PROVISIONS

ARTICLE 10: Guarantees (CCAG articles 29 and 41).

10.1. The performance bond:

Within twenty (20) days from the date of notification of the contract, the contractor shall produce a performance bond of three percent (3%) of the amount of the contract TTC, to guarantee the complete and proper execution of the contract. Beyond this time-limit, the Contracting Authority has the right to terminate or cancel the contract to the detriment of the contractor.

Works executed by the contractor and entered into the job cost sheet give entitlement to payment on account.

At the end of the work, a final account of the work is established.

ARTICLE 13: Mode of Payment

The payment of an account to the contractor shall be effected in accordance with the conditions specified in this contract and made base on justifying documentation required to credit of account:

1. Open: _____ agency;
2. Account number: _____

ARTICLE 14: Price variation

The prices are definite (fixed) and not to be changed. The contractor before submitting his bids or signing his contract must have had perfect knowledge about the local conditions under which he has to execute the contract.

ARTICLE 15: Price revision

The prices are not to be revised. Hence there is no price revision formula.

ARTICLE 16: Work using local direct labour (CCAG article 22)

Not required or necessary.

ARTICLE 17: Valorisation of works executed (CCAG article 23)

This contract is lump sum. The contract shall be paid on the basis of approved plans by the contracting parties. Possible differences noticed, for each type of structure or each element of the structure, between the quantities effectively executed and the quantities in the cost estimates shall not lead to the modification of the said price. This applies to errors that the cost estimates may include.

ARTICLE 18: Valorisation of supplies (CCAG article 24)

If need be, each payment on account shall include a part corresponding to building materials bought for the execution of the works and are on site. The amount for these materials is obtained by taking into account the prices from the sub-details. Materials having been the subject of payment on account cannot be taken away from the site without a written authorization of the project owner or the contract engineer.

ARTICLE 19: Advances (CCAG article 28)

The contractor may, upon simple request addressed to the project owner and without any justification, and after providing the guarantees required in the Public Contracts Code, obtain a so-called "start-off" advance or advance "for purchase of building materials".

This advance whose amount shall not exceed twenty percent (20%), all taxes inclusive, of the initial contract price shall be guaranteed at one hundred percent (100%) by a banking establishment governed by Cameroon law or a first-rate financial institution authorized according to the instruments in force.

It shall be reimbursed by deductions done on the payments on account made to the contract holder during the execution of the contract and in accordance with the terms and conditions laid down in the said contract.

The advance must be completely reimbursed not later than when the value of the basic price of the goods and services rendered shall have reached eighty percent (80%) of the price of the contract.

ARTICLE 20: Payment of works executed (CCAG articles 26, 27 and 30)

Works assessment: Before the 30th of each month, the contractor and the control engineer shall jointly establish a job cost sheet which summarises and fixes the quantities executed and established for each item on the schedule during the month and capable of giving entitlement to payment.

No later than the fifth (5th) of the month following the month of the services, the contractor shall hand over to the control engineer two draft provisional monthly detailed accounts in seven copies (one detailed account exclusive of VAT and the other inclusive of taxes), according to the agreed model and establishing

23.1 After completion of the works, and within fifteen (15) days after the provisional acceptance, the contractor shall draw up the draft final detailed account from the joint sheets to which he may be entitled as a result of the integral execution of the contract.

23.2 The Contract Engineer has twenty (20) days to notify the corrected final detailed account.

23.3 The Contractor must within ten (10) days following the date of this notification, send back the final detailed account with his signature, with or without reservations, or make known the reasons for which he refuses to sign it.

ARTICLE 24: Final detailed General Payment (CCAG article 35)

24.1 Within a deadline of one (01) month after the final acceptance, the Contract Engineer shall draw up the detailed final payment.

At the end of the guarantee period leading to the final acceptance, the Contract Engineer shall draw up the detailed final payment sign by the contractor and the Contracting authority, which includes:

- The final detailed account;
- The balance;
- The summary of the monthly payments on account.

The amount of the general payment is equal to the result of this last summary.

24.2 The general detailed account signed by the Contracting Authority must be notified to the contractor by an administrative service order. The contractor then has one (01) month from the date of this notification to return this general detailed account, with or without reservations, to make known the reasons for his refusal to sign the general detailed account.

24.3 If the final detailed account is signed without reservations, this acceptance definitely binds the two (02) parties, except in the case of interests on overdue payments; if there are any. The detailed account thus becomes the final general detailed account of the contract.

24.4 If the contractor does not return the general payment within the deadline referred to above, this general detailed account shall be considered as having been accepted by him and thus become final.

The detailed account shall become final once it is signed without reservations by the contractor, except in the case provided for the preceding paragraph. The acceptance of a claim from the contractor shall be regularized by a rider to the general detailed account.

ARTICLE 25: Tax and customs regulations (CCAG article 36)

Decree N°. 2003/651/PM of 16 April 2003 lays down the terms and conditions for implementing the tax regulations and customs procedures applicable to public contracts. The taxes applicable to this contract include notably:

- Taxes and dues relating to industrial and commercial profits, including the IAR which is a deduction on company taxes;
- Registration dues in accordance with the Tax Code;
- Dues and taxes attached to the execution of services provided for in the contract;
 - o Duties and taxes of entry into Cameroonian territory (customs duties, VAT, computer tax);
 - o Council dues and taxes;
 - o Dues and taxes relating to the extraction of building materials and water.

These elements must be included in the costs which the undertaking imputes on its running costs and constitute one of the elements of the sub-details of prices exclusive of taxes.

All taxes inclusive prices means VAT included.

ARTICLE 26: Stamp duty and registration (CCAG article 37)

Seven (07) original copies of the contract shall be stamped and registered by the contractor in the competent taxation unit within in accordance with the applicable regulations.

CHAPTER III: EXECUTION OF WORKS

ARTICLE 27: Work consistency

The works include the following:

Lot 100: Preparatory works;

Lot 200: Drilling works

Lot 300: Design, cleaning, development and pumping test

Lot 400: Installation of a solar pump system with a 3200Wp solar system, an AC/DC hybrid solar

- Ensure the proper execution of the service orders from competent authorities.

The contractor shall constantly keep a general and updated detailed schedule of the progress of the works and make available four (4) copies to the contract engineer at the beginning of each month.

To this end, the contractor shall take all measures and provide all necessary means, determine, choose and purchase all materials, equipment and supplies and hire any specialized staff if necessary.

ARTICLE 31: Provision of documents and site (CCAG article 42)

Within twenty (20) days after the notification of the contract, a reproducible copy of plans featuring in the tender file of the contract will be made available to the contractor by the project owner as well as the work site and its access

The contractor shall preserve in good state the site plan put at his disposal during the execution of the contract. He shall hand it back, at the request of the project owner in their initial state after the execution of the contract, with due consideration of its normal wear and tear.

ARTICLE 32: Insurance of structures and civil liability (CCAG article 45)

The following insurance policies are necessary for the execution of this contract within fifteen (15) days after the notification of the contract, and before the commencement of work guaranteeing against any loss or damage occurring on the structures and third parties up till the provisional acceptance:

Civil liability insurance and all construction risk.

The Contractor shall justify that he holds an insurance policy of civil liability for damage caused to third parties of all kinds:

- (a) By its current salarized personnels.
- (b) By the equipment in use.
- (c) As a result of the work.

Comprehensive insurance coverage

The working site must be covered for all the works by a construction site comprehensive insurance coverage issued by a company approved by the competent authority. The cost of this insurance is the responsibility of the contractor.

No settlement except the startup advance will be made without presentation of a certificate from an insurance company proving that the contractor has fully addressed the premiums or contributions for the work for this contract.

The contractor has a period of 15 (fifteen) days from the date of notification of the Service order to start the work to present a certificate of insurance proving the premiums or contributions for the work for this contract was fully settled. After that the contract may be terminated.

ARTICLE 33: Documents to be submitted by the contractor (CCAG article 49)

Within a maximum period of fifteen (15) days from the date of notification of the service order to start work, the contractor shall submit to the contract engineer, the programme of execution, his supply calendar, his draft Quality Assurance Plan and the Environment Management Plan in six (6) copies. A duly signed copy of the execution programme must be deposited at the DD of MINEE latest fifteen (15) days from the date of notification of the Administrative Order to commence execution. This working document shall include the following:

- General site installation;
- Company localization plan;
- Execution plans, drawings, calculations, detailed studies, quality control plan and work planning,
- Exhaustive list of personnel with their certified true copies of their diplomas
- Bill of estimate and quantities;
- Detailed list of materials and equipment available on the site;
- Detailed execution planning updated forecasts on the work progress in view of comparing the actual progress to the forecasts;
- The annexes files if the contractor deems it necessary.
- The site sign board

34.3 The building site installation:

The contractor shall set up temporary constructions and facilities needed to execute the works, such as:

- Offices of the Contractor equipped with tables, chairs and lock-up cupboards.
- Building site toilet facility (if it does not exist)
- Storehouse for materials
- Removal of temporary work (fences, field office, sheds, signs, etc.).

34.4 The site logbook:

A site log book shall be kept by the contractor at the construction site before site installation.

It is a unique non contradictory document. Its pages are numbered and sign. No page should be removed. Strikeout or rescinded parts are reported in the margin for validation.

The following informations are recorded in it:

- Atmospheric conditions;
- The daily executed tasks, personnel and equipment used;
- The progress of the work;
- The requirements imposed;
- The detailed work quantities;
- The work carried out by subcontractors;
- The receptions of building materials;
- The incidents, accidents or events on the construction site;
- Nonconformities;
- The official visits;
- The administrative operations;

The site logbook shall be counter signed by the contract engineer and the person in charge of technical or administrative work at each site visit and systematically sign the minutes of site meetings.

Any refusal of presentation or any attempt of total or partial destruction or falsification of this log book may give rise to administrative sanctions.

34.5 The site meetings:

- Site meetings shall hold regularly at the behest of the Project Owner. The presence of the contractor or his representative in these meetings is obligatory or mandatory.
- Periodic meetings shall hold in the presence of the Contracting Authority, the Contract Engineer and the Project Owner or their representatives.
- Minutes of these meetings shall be entered in the site logbook. The contractor or his representative shall at the beginning of the meeting present the level of physical execution of the work and the difficulties faced.

34.6 Sub-contracting:

The ceiling of the percentage of the works to be sub-contracted shall be set at thirty (30) % of the total amount of the contract.

34.6 Site laboratory:

The contractor shall have his own laboratory on the site to enable him carry out all tests and studies on building materials defined in the Special Technical Clauses. The personnel and the equipment must be approved by the Contract Engineer.

34.7 Security Measures:

The contractor shall provide and maintain at his expense all lighting, protection, closing and guarding devices that will be necessary for the proper execution of the work or that will be required by the engineer.

The contractor shall be responsible for all the consequences directly or indirectly of deficiency of signaling during the work.

The Contracting authority reserves the right, at the request of the engineer, without prior notice and at the expense of the contractor, to take all necessary measures engaging the responsibility of the contractor.

CHAPTER IV: ACCEPTANCE OF WORKS

- Delay in the execution of work resulting to penalties above 10% of the amount of the contract;
- Default of the contractor;
- Refusal to repeat poorly executed works;
- Persistent non respect of payments on account.

ARTICLE 40: Case of force majeure (CCAG article 75)

40.1 No party to the contract shall be considered as having contravened his contractual obligations if he is prevented from doing so by a force majeure.

40.2 No claims shall be made against the contractor if he fails or delays in the execution of his contract due to cases of force majeure such as:

- Rains : 200 millimetres in 24 hours ;
- Winds : 40 metres per second ;
- Floods: frequent floods.

ARTICLE 41: Disagreements and disputes (CCAG article 75)

Disagreements and disputes during the execution of the contract shall be the subject of an attempt of amicable settlement, where need be, through mediation, in accordance with the provisions of the SAC and subject to the provisions of the Public Contracts Code.

Where the disagreements and disputes cannot be settled amicably, the matter shall be brought before the competent Cameroon jurisdiction, subject to the provisions of the SAC.

ARTICLE 42: Production and dissemination of this present contract.

Ten (10) copies of this present contract shall be produced and multiplied at the expense of the contractor.

ARTICLE 43 and last: Entry into Force of the Jobbing order

This contract shall be valid only upon its signature by the Contracting Authority. It shall enter into force as soon as it is notified to the contractor by the Contracting Authority.

- 18.2: Traffic
- Article 19: Stone Masonry
- Article 20: Pointing and plastering
 - 20.1 Pointing
 - 20.2 Plastering
- Article 21: Plumbing works
 - 21.1 Pipe Specifications
 - 21.1.1 Control tests on pipes
 - 21.2 Fitting specifications
- Article 22: Piping
 - 22.1 Description
 - 22.2 Care/Laying of pipes
 - 22.3 Methods of determining quality of G.I and PVC piping laid.

CHAPTER VII: CONSTRUCTION METHODS

- Article 23: Setting out of Works
- Article 24: Excavation of Trenches
- Article 25: Backfill

INTRODUCTION.

This specification aims to define the mode of execution of work to be done following the norms and approved standards, according to the documents of the Jobbing Order.

The choice of technological options for achieving the proposed work has the sole concern to ensure a better functionality of facilities in compliance with safety rules for the protection of property and persons. It has been established as a guide to clarify and supplement the guidance of the estimate and drawings notwithstanding the terms of the Jobbing Order.

The technical specifications presented herein below define the hydro-geological waterworks and electromechanical engineering works that shall be executed in Mbengwi town, Momo Division and the manner in which these works shall be carried out. So the Contractor is expected to read these specifications critically and identify all the articles that are applicable to his job

CHAPTER I: GENERAL INFORMATION.

Article 1: Subject

The following Technical Specifications Journal (TSJ) concern the works to be carried out in the construction of a borehole, the supply and installation of a manual pump in the said borehole and the construction of the superstructure respectively in the area between the Gendarmerie Brigade and the Mbengwi Police Station and at the Mbengwi Central Prison; as well as the setting up of measures to sustain the equipped borehole.

In each case, the volume of work to be executed is indicated by the bill of quantities, network maps and/or plans provided for the project. The various works to be executed shall conform to the relevant terms of the technical specifications given herein below.

Article 2: Contractor's role.

The Contractor who shall be chosen after this call for tender, shall be responsible to execute all the works outlined here. These include all the phases from site selection, through the drilling of the borehole, the borehole design, the cleaning and development of the borehole, the determination of the properties of the aquifer (Aquifer or Pumping test) and the superstructure construction, to the pump installation, water analyses and the taken of long-lasting measures to ensure the project sustainability.

It should be understood that the provision of a bill of quantities for any project does not absolve the potential Contractor of the necessity to affect a well-planned site visit, at his own expense, to gain complete knowledge of the conditions prevailing on the terrain. This knowledge shall come in handy when preparing the List of Tasks and the Unit Price Schedule. Potential Contractors (or Bidders) shall provide a detailed and sequenced List of Tasks to be effected on each component of the project. Within fifteen (15) days from the date of notification to start work, the Contractor shall provide the Supervising Engineer with:

- A detailed plan of the work, showing the scheduling of the various works to be executed in time
- Detailed technical drawing of the works to be realized
- A manpower deployment plan
- A schedule of the delivery of materials to the project site, showing possible delays

Drilling shall be done using compressed air supplied by a high pressure compressor. The tool and bit used should be adapted both to the loose and hardrock formations.

Studies on existant boreholes in the area reveal that the depth will be between 40m and 80m (averagely 60m) therefore the drill pipes or rods should be available to attain this depth.

The superstructure shall be of the classic type : a pump stand on a slightly inclined margelle with a ditch at the edges that lead to a drainage system which ends up in a soak away pit at a distance of at least 8m away from the borehole.

The borehole shall be equipped with a manual pump of the type SWN 80 or India mark II or Vergnet. The bodywork of the pump and its accessories should be composed of materials that are resistant to corrosive water and cannot be oxidised.

CHAPTER II – DRILLING WORKS.

Article 5 - Drilling of Borehole

The borehole shall be drilled respecting the technical specifications outlined here and shall be accepted as productive (positive) if its yield is at least 0,7 m³/h (700l/h) and the water is potable after analyses.

5.1. Organization of the work-site

Considering the results obtained after previous drilling campaigns of boreholes in the area, an average depth of sixty (60) m is proposed for the borehole.

The success of this project largely depends on the perfect coordination of the different activities by the Contractor (the Supply and the installation of the manual pump, the drilling process respecting the appropriate drilling technics, the appropriate borehole design, cleaning and development of the borehole, the pumping test, the construction of the superstructure with a good drainage system, water analyses, project sustainability). This coordination requires the strict respect of the execution plan of the borehole which contains the outlined execution plans of the different activities.

The Enterprise shall place its Technical Director who shall be responsible to the Administration and on the worksite, the work execution shall be supervised by a Foreman who is well qualified and experienced in the domain of borehole drilling, manual pump installation and project sustainability. The execution plan should be conceived in such a way that the different phases will be done without unjustified stoppage.

The state of work progression shall be established monthly and if after two months, the progression rate is considered low, the Contractor shall be asked to deploy additional means to the worksite so as to accelerate work progression and meet up with the deadline.

During the work execution, the Administration has the right to modify the work.

5.2. Working Hours.

The general conditions fixed for workers by the Cameroon Legislation also applies to the Contractor's workers in the worksite. There shall be no work at night.

5.3. Equipments and Materials for execution

5.3.1 General conception of equipments and materials

The Contractor shall be responsible for the choice of the equipments and materials. The general conception of the drilling rig and the materials to be used for the execution of the borehole should take into consideration the local milieu : the state of roads and accessibility, as well as the rate of execution stated above.

5.3.2. State of the equipments and materials

The execution calendar obliges the Contractor to be in possession of a drilling rig in order to execute this project, immediately he is notified of having been chosen to execute the job.

The serial number, the age and the origin of the drill ought to be specified in the bid. Anyway, the proposed equipment should be in a good state.

5.3.3. Description and specifications of the drilling rig.

The drilling rig that is needed for this project will be composed of:

The Drill

A conventional rotary apparatus using compressed air and water or mud, and specially adapted to using the tool and bit in loose formations and the down-the-hole hammer in hardrocks. Drilling through the loose formations and to avoid frequent collapse of these formations especially when the hardrock is to be drilled, the use of temporal casing is very obligatory. This temporal casing can be of steel or PVC nature and facilitates drilling in both the loose and hardrock formations without any difficulty.

- This casing shall be armed with slot openings of $\varnothing \leq 2\text{mm}$ (Screen), which shall be placed at the levels of water arrivals by screen fragments of length 3 or 6 meters. The base of the colon shall be blocked with borehole stopper. The annular space between the soil formation and the PVC colon shall be filled with a quartz gravel pack of a grain-size: (1 - 2mm) or (2-4mm) all along the length of the screen plus 3 meters. The gravel shall be disinfected being introduced into the annular space of the borehole.

The grain size of the gravel shall be 1-3mm. The gravel shall be composed of clean quartzeous and smooth material.

On top of the gravel pack filter, a clayey seal of 1 meter thick shall be put in place, it has as goal to prevent the pollution of the borehole by superficial waters.

Above the clayey seal, the borehole shall be filled with alluvium or elluvium, in which case this substance shall constitute material for effective back-fill, and finally the top of the borehole shall be filled with concrete for a depth of 2 meters.

The casing shall overlap the earth surface by 0,50m. This casing shall be momentarily locked with a screwed cork.

5.6. Development

Development is done by air-lift with double tube using the drilling rig or an independent unit.

The yield obtained after the development should not be more than 10 % less than the yield obtained at the end of drilling.

Development shall continue until clean water with no residual sand grains nor clay particles is observed. The Contractor should control the yield in sand grains of the water, by applying the Method of observing sand deposit in a 10 litres bucket of water and of which the diameter should not be greater than 1cm at the end of development.

The average time for development shall be 4 hours.

If technical errors occur during the drilling process or during development, the additional time beyond the 4 hours, shall be under the responsibility of the Contractor and, if clean water is not obtained after development, the borehole will not be received.

In case an independent unit was used for development, the return of the drilling rig for the partial or complete repeat of the drilling process, shall be under the charge of the Contractor.

The yield shall be measured after every 15 minutes. The water level and the depth of the borehole shall be measured before and after the development.

The accepted tolerance for the measurements (including those obtained during pumping test) shall be :

- 10% for the yields,
- 1cm for the water level,
- 5cm for the measurements of depth.

5.7. Pumping [Aquifer] Tests-Superstructures-Disinfection of the Borehole and Water Analyses.

5.7.1 Pumping [Aquifer] Test.

These tests shall be executed using an immersed pump, of a minimal capacity of 10 m³/h at a depth of 30m or 6 m³/h at 80 meters. The pumping test (type CIEH) shall be done for a time lapse of 4 hours (3 phases of an increasing yield). The processes shall comprise : Restoration, Pumping and Recharge. The recharge after pumping shall be done for an hour. The measurements of the water levels shall be effectuated using an electric sounder, while the measurements of the yield shall be done using 200 litres drums. All the measurements shall be recorded in forms recommended by the Ministry in charge of Water.

5.7.2 Superstructures

The Contractor shall have to construct the following superstructures:

- A reinforced concrete corping of dimensions 1,5m x 1,5m and of height (20cm) which is compatible with the manual pump, and situated above the reinforced concrete slab,
- A reinforced concrete slab of minimum size 3m x 3m surrounding the reinforced concrete corping, raised above the soil surface of minimum height 15cm and and slightly inclined with a gentle slope of about 2% towards the evacuation outlet.
- A ditch surrounding the slightly inclined reinforced concrete slab to drain water from the latter to the outlet, through the buried PVC pipes of minimum length 8m, into the soakaway pit. The soakaway pit shall have a dimension of 1m x 1m x 1m and filled with stones ; and shall be covered by a concrete slab of thickness 10cm.
- A protective layer against erosion of width 1 meter all round the half wall and composed of lateritic gravel of thickness 10cm, shall be put all round the half wall.

A model plan shall be available. The superstructures would, however, be constructed on the basis of detailed plans that are convenient for the type of manual pump which shall be accepted by the Contract Engineer. The bidder ought to enclose these detailed plans in his bid.

5.8.2 Control and supervision

The control and supervision of works shall be carried out by the Representative of the Administration and shall be based on the following items:

- Definition of the work plan and its execution calendar in agreement with the Contractor.
- Site implantation.
- Indicative forecasts on the geology and on the depth to be attained by the borehole.
- Decisions on whether to continue or stop drilling, its design or its abandonment.
- Elaboration of the borehole design in collaboration with the Chief driller, taking into consideration the yield.
- Supervision and interpretation of the Development and Pumping test results.
- Choice of the configuration of the superstructures depending on the landscape (topography).
- Supervision of the pump installation and the training of local pump caretakers.
- Supervision of the analyses related to water quality.
- Control the effectiveness of the activities concerning the training and sensitization of the Water Management Committee.

5.9. Origin and quality of materials

5.9.1 General dispositions.

The Contractor shall present to the Delegation incharge of Water Resources for approval the materials he intends using, indicating their nature and their origin. All the materials found faulty shall be evacuated by the Contractor at his own expenses. The Contractor shall be responsible for the regular supply of materials for the smooth running of the project.

Notwithstanding the approval of the quality and origin of the materials by the Delegation incharge of Water Resources, the Contractor remains solely responsible for the quality of the materials used for the project. It is left for him to carry out at his own expenses all the necessary tests and analyses to be sure of the materials used.

It is left for him to make all the necessary moves to obtain autorisations or permissions, and carry out payments if necessary to enable him exploit quarries or other substances, and the site for the installation of the project.

5.9.2 Characteristics of the casing and screen.

The casing and screen shall be of strong PVC (types for boreholes). The diameters shall be 110/125 mm. The origin and quality of these tubes ought to be approved before being used.

These tubes should be smooth, with solid round or square centralized fittings that can enable the tubes attain a depth of 100meters.

The tubes should have the garanti of being resistant to all the stress manipulations during their installation and during pumping. The PVC shall be composed of matter that cannot dissolve in water and modify its quality.

The slot openings of the screen shall be done mechanically in the manufacturer's factory. The slot openings shall have a diameter of less than 1mm. The percentage of openings shall not be less than 2% of the total surface area of the PVC tube.

5.9.3 Cement

The cement to be used shall of the type PORTLAND artificiel CPA 325. It should be obtained in bags of 50kg. Any bag with hardened fragments shall be rejected. The recuperation of cement dust that has fallen on the ground shall be prohibited.

5.9.4 Gravel

The gravel introduced into the annular space of the borehole shall be clean gravel composed of smooth quartz and of grain-size 1-3mm.

5.10. Technical File.

A technical file of the borehole shall be prepared by the Contractor. This technical file shall contain:

- the location of the borehole on the plan of the village,
- the technico-geological cross-section of the borehole,
- the results of the Development and cleaning test,
- the interpretation graphs of the Pumping tests indicating the depth of pump installation.

8.6 Repair works

The Supplier shall specify the breakdowns that shall require the withdrawal of the pump from the borehole as well as the different unit weights, notably:

- the whole fountain,
- the linear meter of the aspiration pipe (with the rod) with and without water,
- the pump cylinder.

For more frequent interventions, he shall specify the nature of intervention and its frequency.

8.7 Accessories

The Contractor should show the pump caretaker the key or keys required to help mount, dismount and replace parts that have broken down.

8.8 Spare parts

The spare parts ought to be, as from the beginning of the project, be available in the different sales points. A kit of spare parts shall be made available and handed to the Village Water Management Committee.

8.9 Technical and pedagogic brochures

The Contractor ought to make available technical and pedagogic brochures on the mounting, the good functioning, the maintenance and the repairs of the pump.

These brochures shall simultaneously contain three levels of information.

a) A level that exclusively illustrates the following themes:

- How to pump correctly (illustrations with photos or drawings).
- How to detect an abnormality in the functioning of the pump.
- How to carry out minor repair works.

b) A level that gives complete informations on the assembling of the pump for use and for maintenance. All the possible types of breakdowns that can occur should be mentioned as well as the means to remedy the situation.

c) A complete documentary level about all the aspects of the pump: manufacture, constituent parts, materials used, assembling, current maintenance, important repair works, list of the spare parts and their approximate lifespan, etc.

These brochures shall be delivered with the pump, a copy shall be kept with the Supplier's representative.

Besides, the Contractor should prepare a maintenance form for the pump (as well as extra copies), which shall be kept in the village, and in which all repairs and maintenance works shall be recorded.

8.10 Putting in place of the maintenance system

The Contractor shall take care of the training of two (02) to three (03) pump repairers to carry out minor maintenance and repair works on the installed pump. The training of these pump repairers shall be a condition for the provisional reception of the borehole.

Article 9 : Transport, Delivery and installation of pump

The Contractor shall equally take care of the transportation and installation of the pump on the site.

Article 10 : Provisional Reception

The materials to be used ought to undergo a qualitative provisional reception, which shall be based on the administrative and technical documents justifying the quality of the materials used are in conformity with the technical objectives.

This reception shall be later followed by a technical reception which shall take place in the worksite after the installation of the pump and after observing it functioning.

The decision taken during this reception does not liberate the Contractor from his engagements with respect to the deadline as well as the technical specifications.

Any change of material that was proposed in the bid (type, characteristics, origin, etc.) before or after the conformity visit and during the execution of the project, is forbidden except authorized in writing by the Contracting Authority, following the application forwarded by the Contractor.

If the works are not in conformity with the specifications, the Contracting Authority can reject them and ask for their replacement or necessary modifications, without any extra charge for this.

Article 11 : Conditions for the Final reception

The final reception shall be pronounced after the expiration of the guarantee date which comes one year after the provisional reception. There shall be no specific pumping test during the final reception, but a test of the equipments

18.2 Traffic

The Contractor shall be responsible for ensuring that traffic is not obstructed on the entire stretch of his work site through out the period of work, right up till provisional reception. No obstruction of traffic shall be allowed for more than two hours. Maintenance of traffic flow shall be the responsibility of the Contractor. In case of any breach of contract in this matter, the Supervising Engineer may bring in a third party to correct any shortcomings that may be impeding the traffic flow, and related expenses shall be borne by the Contractor.

Where interference of the traffic flow for a given period is inevitable, the Supervising Engineer shall be informed of the situation at least 7 days in advance, so that he can seek the opinion of local Administrative authorities and get everything arranged before hand.

In case a deviation has to be used, the contractor shall submit to the Supervising Engineer for approval after consultation with local administrative authorities, the deviation route and his plan for maintaining the deviation throughout the duration of the works that have necessitated the deviation.

Article 19: Stone Masonry

Stone masonry shall be aesthetical and in accordance with structure type and civil engineering rules.

Binding mortar shall be a mixture of 400kg of cement per m³ of sand, no grain of which shall have a dimension exceeding 4mm.

Mortar containing a mixture of 450kg of cement per m³ of sand shall be used for the finishing of the external joints of non-visible walls of stone masonry

Mortar consisting of a mixture of 500kg of cement per m³ of sand, to which shall be added a quantity of SIKA N° 1 recommended by the manufacturer and approved by the Supervising Engineer, shall be used for waterproofing the interior surfaces of water-retaining structures (storage tanks, interruption chambers, sedimentation basin, filters, etc).

Article 20: Pointing and Plastering

20.1 Pointing

The joints of all external walls of stone masonry that are visible shall be carefully pointed to give them an aesthetic look. Mortar containing 600kg of cement per m³ of sand shall be used for pointing with a cement paste (1:0) finish

20.2 Plastering

Plastering of surfaces in contact with water shall comprise pointing of the mortar joints followed by a 1cm thick layer of spatter dash 1:2 (m625). This shall then be followed by the application of a rendering coat of 2cm thick 1:4 (m300) mixtures and a setting coat 2cm thick 1:2 (m625). The walls shall then be finished with cement paste. Plastering of surfaces not in contact with water, such as chambers for air valves, control valves and washouts shall consist of 1 coat of plaster 1cm thick and a mixture of 1:3 (m400)

Article 21: Plumbing Works

By plumbing works include:

- i) Laying of pipes in the trenches
- ii) Construction and installation of chambers for air valves, washouts and control valves
- iii) Installation of branch lines right up to the last plastic before the standpipes.

21.1 Pipe Specifications

Pipes should meet the physical characteristics presented in table1 below:

Table 1: Physical Characteristics of pipes

Internal Ø & external Ø (mm)	Thickness (mm)			Socket length (mm)	Nominal service pressure (bars)	Length of pipe (m)
	Minimum	Nominal	Maximum			
21x25	1.9	2.0	2.3	28	10	6
28x32	1.9	2.0	2.3	32	6	6
26.8x32	2.4	2.6	2.9	32	10	6
35x40	2.3	2.5	2.8	40	6	6
33.6x40	3.0	3.2	3.5	40	10	6
43.6x50	3.0	3.2	3.5	50	6	6
42x50	3.7	4.0	4.3	50	10	6
56.6x63	3.0	3.2	3.5	63	6	6
53x63	4.7	5.0	5.4	63	10	6
68.6x75	3.0	3.2	3.5	75	6	6
66.6x75	3.8	4.2	4.5	75	10	6
63.2x75	5.5	5.9	6.3	75	10	6
80.6x90	4.3	4.7	5.0	90	6	6

The pipes shall be accepted if, and only if, the percentage of broken pipes in the tested samples does not exceed 40%

viii) Labels

The Contractor shall ensure that all pipes for this project are labeled <H>. The Supervising Engineer shall reject any pipe not labeled as such

The Contractor shall furnish the Supervising Engineer with information (name, address, phone, etc) on the factory being used to procure pipes for any project.

The Contractor shall present to the Supervising Engineer a guarantee certificate from the factory of origin ascertaining that the pipes meet the required standards as described in the forgoing sections. The Contractor shall arrange for free access to the factory for the Supervising Engineer to enable him request, as required, for all factory tests described in the aforementioned sections to be carried out by the manufacturer.

The performance guarantee of works shall cover all defects in pipes, their handling and workmanship.

Fittings Specifications

The fittings required for these works, are presented in Table IV below. Contractors are required to strictly respect these specifications.

All fittings shall be approved by the Supervising Engineer before use. All fittings not conforming to those specified in Table IV shall be rejected. The performance guarantee of work shall cover all defects in fittings, their handling and workmanship.

TABLE IV: SPECIFICATIONS FOR FITTINGS

Description of Goods
ADAPTOR UNION 25-3/4"
ADAPTOR UNION 32-1"
ADAPTOR UNION 40-1 1/4"
ADAPTOR UNION 50-1 1/2"
ADAPTOR UNION 63-2"
ADAPTOR UNION 75-2 1/2"
AIR VALVES
BALL VALVE 1 1/2"
BALL VALVE 2"
DEC VALVE 0 3/4"
DEC VALVE 1 1/4"
DEC VALVE 1 1/2"
DEC VALVE 2"
DEC VALVE 2 1/2"
ELBOW 0 3/4"
ELBOW 1 1/4"
ELBOW 1 1/2"
ELBOW 2"
ELBOW 2 1/2"
FLOAT VALVE 63
G.I PIPE 0 3/4"
G.I PIPE 1"
G.I PIPE 1 1/4"
G.I PIPE 1 1/2"
G.I PIPE 2"
G.I PIPE 2 1/2"
G.I SOCKET 0 3/4"
G.I SOCKET 1 1/4"
G.I SOCKET 1 1/2"
G.I SOCKET 2"
G.I TEE 1"

Description of Goods
NIPPLE 2"
NIPPLE 2 1/2"
PVC ELBOW 63
PVC RED SOCKET 40-32
PVC RED SOCKET 50-40
PVC RED SOCKET 63-50
PVC RED SOCKET 75-50
PVC RED SOCKET 75-63
PVC TEE 32
PVC TEE 40
PVC TEE 50
PVC TEE 63
PVC TEE 75
PVC VALVE 32
PVC VALVE 40
PVC VALVE 50
PVC VALVE 63
PVC VALVE 75
REDUCER G.I. 1"-3/4"
PVC RED SOCKET 75-63
SADLE PIECE 32-1"
SADLE PIECE 40-1
SADLE PIECE 50
SADLE PIECE 50-1"
SADLE PIECE 63
SADLE PIECE 63-1"
SADLE PIECE 75-1"
TAP 0 3/4"
UNION 0 3/4"
UNION 1"
UNION 1 1/4"

PIB 2025										
CONTRACTOR:..... P.O. Box Phone N° BORE HOLE CONSTRUCTION PROJECT				CROSS – SECTION OF BOREHOLE						
DEPTH <i>Drilled:</i> <i>Designed:</i> <i>Hardrock:</i> <i>Yield at the end of drilling:</i> <i>Quantity of gravel pack:</i>				DESIGN <i>Nature:</i> <i>Øinternal:</i> <i>Øexternal:</i> <i>Length of Casing:</i> <i>Length of screen:</i> <i>Slot opening:</i> <i>Type of joining:</i> <i>Direction of Fractures:</i>				<i>Locality:</i> <i>Date: to</i> <i>GPS Coordinates of locality: x= y= z=</i> <i>Geophysics:</i> <i>Development: Yield:</i> <i>Duration:</i>		<i>Borehole with manual pump.</i> <i>Region:</i> <i>Division:</i> <i>Council:</i>
OBSERVATIONS:				<i>Nature of gravel pack:</i> <i>Grain size:</i>		<i>Casing Length above the surface:</i> <i>Nature of casing:</i>				
ø (mm)	Depth (m)	Technical C.S.	Water level & Yield	Drilling Speed (m/h)	Depth (m)	Geological C.S.	Geological description	Nature of Aquifer:		

DRILLING: R=Rotary using: a=air, m=mud.
F → Fracture measured AW*=Arrival of Water H: Percussion Rotary using the down-the-hole hammer.
WL= Water level •()=Water yield

CONTROLLER:

BOREHOLE DESIGN: PVC: tc=Temporal casing, c = Casing, s= Screen with slot openings.
p= Packer. al.=Alluvium. c*=Concrete

“SAND GRAIN TEST”: Sediments at the bottom of the container have a $\phi \leq 1$ cm.
Sediments at the bottom of the container have a $\phi > 1$ cm.

NAME AND SIGNATURE OF THE CONTROLLER:

PART 06

SCHEDULE OF UNIT PRICES

501	Supply and laying of HDPE100 pipe Ø40mm to pump water from the borehole to the elevated storage tank and for main distribution	LM		
502	Supply and laying of HDPE100 Ø32mm to connect the tank to the valve chamber	LM		
503	Supply and laying of HDPE100 Ø25mm for the connection of the main line to standpipe	LM		
504	Pipeline excavation and backfilling	LM		
505	Supply and installation of plumbing accessories	LS		
600	CONSTRUCTION OF WATER STRUCTURES			
601	Construction of a 3.2x3.2x11m height vertical pillars (40x40cm) chained at every 3m with cross beams (20x40cm) and two slabs 20cm thick in reinforced concrete dosed at 350Kg with a roof and embedded protected metallic ladder of 10m for the borehole at the Batibo Council	LS		
601	Construction of a 3x3x6m height vertical pillars (40x40cm) chained at every 3m with cross beams (20x40cm) and two slabs 20cm thick in reinforced concrete dosed at 350Kg with a roof and embedded protected metallic ladder of 10m.	LS		
602	Construction of a pump house at the ground floor of the tower with 15x20x40 cement blocks.	LS		
602	Concreting of the floor, plastering and Painting of the tower with Pantex oil paint	LS		
603	Purchase and Installation of a 5m³ Polyéthylène vertical water storage tank	U		
603	Installation of a metallic door of 90x210cm with a padlock	LS		
302	Construction of control valve chamber (50x50x50cm) in reinforced concrete	U		
604	Construction of double standpipe equipped with valve chamber and a soak away pit	LS		
700	PROJECT SUSTAINABILITY			
701	Disinfection of the tank and the pipeline	LS		
702	Training of two caretakers provided by the Batibo Council	session		
703	Supply of a complete tool box and spare parts (List of tools and spare parts to be obtained at the Divisional Delegation of MINEE MOMO). Equipment to be officially handed to the Chairman of the WMC by the Divisional Delegate of MINEE during the provisional reception.	session		

COMPANY:

**BILL OF QUANTITIES FOR THE REHABILITATION OF THE CONSTRUCTION OF THREE BOREHOLES
WITH SOLAR POWERED PUMPING SYSTEM IN BUNJEI AND THE COUNCIL OFFICE POTABLE WATER
SUPPLY SCHEME**

N°	DESCRIPTION OF WORKS	UNIT	QTY	U. PRICE	Amount
100	PREPARATORY WORKS				
101	Mobilization: Transportation of materials and equipment	LS	1		
	SUB-TOTAL 100				
200	DRILLING WORKS AT AN AVERAGE DEPTH OF 120m				
201	Installation and withdrawal of drilling rig and other equipment	U	3		
202	Air Rotary Drilling of Ø 9"7/8 in unconsolidated loose formations	LM	75		
203	Installation and removal of temporal PVC or metallic casing of Ø 175-195mm	LM	75		
204	Air Rotary and Percussion Drilling with the down-the-hole hammer of Ø 6" 1/2 to 6" 3/4) in hard rock	LM	210		
	SUB-TOTAL 200				
300	DESIGN, CLEANING, DEVELOPMENT AND PUMPING TEST				
301	Supply and installation of PVC casing of Ø 112 – 125mm	LM	186		
302	Supply and installation of PVC screen of Ø 112 – 125mm with slot openings of Ø ≤2mm	LM	144		
303	Supply and putting in place of a gravel pack of a quartzeous nature and calibrated: (1-2mm) or (2-4mm)	LM	72		
304	Putting in place of the borehole cap	U	3		
305	Cleaning and development of the borehole by the air lift method	U	3		
306	Pumping and recharge test [Aquifer test]	U	3		
307	Sampling and physico-chemical analysis of water from the borehole	U	3		
308	Disinfection of the borehole	U	3		
	SUB-TOTAL 300				
400	SOLAR PUMP SYSTEM INSTALLATION				
401	Supply and installation of an AC/DC hybrid solar submersible pump with a minimum flow rate of 3.8m³/h and TMH of about 150m	U	3		
402	Supply and installation of 400W/24V monocrystalline solar panel	U	24		
403	Supply and installation of pump cable with sectional area 4x2.5mm²	LM	360		
404	Supply and installation of panel to charge controller cable with sectional area 4mm²	LM	90		
405	Purchase and installation of MPPT charge controller with automatic operation of 48A/12V or equivalence	U	3		
406	Supply and installation of metal framework for solar system stand	LS	3		
407	Supply and installation of earthing, surge Arrester, AC 30A/Legrand, electrical control box	LS	3		
408	Supply and installation of all accessories (two bulbs, 1.5mm² copper cable, connector, switch) for the lighting of the control room and its frontage	LS	3		
409	Supply and installation of automatic control system with all necessary accessories for the pumping system	LS	3		
	SUB-TOTAL 400				
500	PIPELINE INSTALLATION				