

REPUBLIQUE DU CAMEROUN

Paix-Travail-Patrie

MINISTERE DE LA DECENTRALISATION  
ET DU VELOPPMENT LOCALE

REGION DU NORD OUEST  
DEPARTMENT DE NGOKETUNJIA

COMMUNE DE BALIKUMBAT

B.P. 001 COUMMUNE DE BALIKUMBAT



REPUBLIC OF CAMEROON

Peace – Work – Fatherland

MINISTRY OF DECENTRALISATION  
AND LOCAL DEVELOPMENT

NORTH WEST REGION  
NGOKETUNJIA DIVISION

BALIKUMBAT COUNCIL

P.O BOX 001 BALIKUMBAT COUNCIL

## PROCUREMENT OF SMALL WORKS

# Balikumbat Council internal tenders board

## Request for Quotations

No. 03/RFQ/BC/BCITB/MINDDEVEL/PROLOG/NWR/2025 OF 09/09/2025  
FOR THE CONSTRUCTION AND INSTALLATION OF A COMMUNITY  
BOREHOLE EQUIPPED WITH A SOLAR PUMP AND STAND TAP WITH  
HEAD TAPS IN SOME QUARTERS (NJIFORWANG AND AKUMOM) OF  
BALIKUMBAT MUNICIPALITY, NGOKETUNJIA DIVISION, NORTH  
WEST REGION.

**Project Name:** Local Governance and Resilient Communities Project (PROLOG)

**Project Owner:** Mayor of Balikumbat Council

**Country:** Cameroon

**Funding:** IDA No. 72130– CM

**STEP Contract Reference No.:**

**Issued on:**

REPUBLIQUE DU CAMEROUN

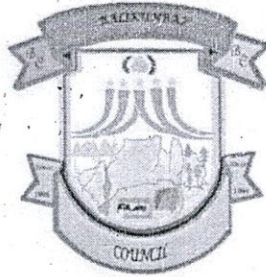
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## BALIKUMBAT INTERNAL TENDERS BOARD

**No. 03/RFQ/BC/BCITB/MINDDEVEL/PROLOG/NWR/2025 OF 09/09/2025  
FOR THE CONSTRUCTION AND INSTALLATION OF A COMMUNITY  
BOREHOLE EQUIPPED WITH A SOLAR PUMP AND STAND TAP WITH  
HEAD TAPS IN SOME QUARTERS (NJIFORWANG AND AKUMOM) OF  
BALIKUMBAT MUNICIPALITY, NGOKETUNJIA DIVISION, NORTH  
WEST REGION.**

Dear Sir/Madam,

### Request for Quotation (RFQ)

1. The Government of the Republic of Cameroon has obtained from the World Bank, IDA Credit Agreement No. 72130 – CM to finance the cost of the LOCAL GOVERNANCE AND RESILIENT COMMUNITIES PROJECT (PROLOG) and intends to use a portion of the amount of this credit to make the authorized payments under the Contract for which this Request for Quotations is published.
2. The execution of the said project includes **FOR THE CONSTRUCTION AND INSTALLATION OF A COMMUNITY BOREHOLE EQUIPPED WITH A SOLAR PUMP AND STAND TAP WITH HEAD TAPS IN SOME QUARTERS (NJIFORWANG AND AKUMOM) OF BALIKUMBAT MUNICIPALITY, NGOKETUNJIA DIVISION, NORTH WEST REGION.**
3. The Mayor of the Balikumbat Council now invites Contractors to submit their Quotations for the Works. To this end, the Balikumbat Council intends to use part of the sums granted under this agreement to make the payments provided for under the contract relating **FOR THE CONSTRUCTION AND INSTALLATION OF A COMMUNITY BOREHOLE EQUIPPED WITH A SOLAR PUMP AND STAND TAP WITH HEAD TAPS IN SOME QUARTERS (NJIFORWANG AND AKUMOM) OF BALIKUMBAT MUNICIPALITY, NGOKETUNJIA DIVISION, NORTH WEST REGION.**
4. The execution period for the works is **THREE (03) months.**



10. A Contractor that has been sanctioned by the Bank, pursuant to the Bank's Anticorruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in the appendix to the Contract Conditions (Appendix A) paragraph 2.2 d., shall be ineligible to submit Quotations or be awarded or otherwise benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. A list of debarred firms and individuals is available on the Bank's external website: <http://www.worldbank.org/debarr>.
11. Contractors that are state-owned enterprises or institutions in the Employer's country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they:
- (a) are legally and financially autonomous;
  - (b) operate under commercial law; and
  - (c) are not under supervision of the Employer.
12. A Contractor shall not have a conflict of interest. Any Contractor found to have a conflict of interest shall be disqualified. A Contractor may be considered to have a conflict of interest for the purpose of this Request for Quotations process, if the Contractor:
- (a) directly or indirectly controls, is controlled by or is under common control with another Contractor that submitted a Quotation;
  - (b) receives or has received any direct or indirect subsidy from another Contractor that submitted a Quotation;
  - (c) has the same legal representative as another Contractor that submitted a Quotation;
  - (d) has a relationship with another Contractor that submitted a Quotation, directly or through common third parties, that puts it in a position to influence the Quotation of another Contractor, or influence the decisions of the Employer regarding this Request for Quotations process; or
  - (e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Request for Quotations process; or
  - (f) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower for implementing the Contract; or
  - (g) would be providing goods, works, or non-consulting services resulting from, or directly related to consulting services for the preparation or implementation of the project specified in this Request for Quotations, that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
  - (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the Request for Quotations or specifications and/or the evaluation of Quotations, of the subject Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Request for Quotations process and execution of the Contract.

**Performance Security (NOT APPLICABLE)**

**Validity of Quotations**



Note: It should be noted that the administrative documents mentioned above must be less than three (03) months old and be produced in originals or certified copies by the competent issuing authority. The absence of all or some of the above documents will not result in the rejection of the tender at the time of evaluation. However, they will be required when the Contract is awarded.

#### Clarifications

20. Any clarification request regarding this RFQ may be sent in writing to *[insert: name and email address of Employer's representative]* before *[insert date and time]*. The Employer will forward copies of its response to all Contractors including a description of the inquiry but without identifying its source.

#### Submission of Quotations

Invited eligible Bidders may obtain further information from **BALIKUMBAT COUNCIL Building, Cell Phone: 670912286, P.O BOX : 01 BALIKUMBAT**; and inspect the bidding document during office hours, Monday to Friday between 7:30am and 3:30pm (GMT+1).

As soon as the invitation to tender is published, the contract award documents (tender's file) will be made available to all bidders, either at their request to the **Balikumbat Council** or the **PROLOG PMU/RCU** or via the internet link indicated in the invitation to tender.

Tenders must be delivered to the **Balikumbat Council, Cell Phone : +237 670912286, PO BOX : 01 Balikumbat, located Balikumbat, no later than 02/10/2025 at 10:00AM** in seven (07) copies (including one (01) original and six (06) copies plus a USB key containing the digital PDF and editable version) in sealed envelopes marked

**“Request for quotation No. 03/RFQ/BC/BCITB/MINDDEVEL/PROLOG/NWR/2025 OF 09/09/2025 FOR THE CONSTRUCTION AND INSTALLATION OF A COMMUNITY BOREHOLE EQUIPPED WITH A SOLAR PUMP AND STAND TAP WITH HEAD TAPS IN SOME QUARTERS (NJIFORWANG AND AKUMOM) OF BALIKUMBAT MUNICIPALITY, NGOKETUNJIA DIVISION, NORTH WEST REGION”**

**NOT TO BE OPENED UNTIL THE COUNTING SESSION”**

**Submission of tenders by electronic means will not be permitted.** Any tender arriving after the deadline for submission of tenders will be rejected. Tenders will be opened in the presence of the tenderers' representatives at the above-mentioned address, the **02/10/2025** on at **11:00AM** in the **conference room of the Balikumbat Council Internal Tender's Board**.

21. The deadline for submission of Quotations is *[insert time, day, month, year]*.

22. The address for submission of Quotations is:

Attention: *[insert full name of person, if applicable]*

E-mail address: or link to e-procurement system

#### Opening of Quotations

24. Quotations will be opened by the **Balikumbat council internal tenders board** immediately after the deadline for the submission of Quotations.

#### Evaluation of Quotations

23. Quotations will be evaluated to ensure the technical proposal's compliance.



	Detailed work schedule with deadlines $\leq$ one hundred and twenty days (120) days	Yes/No
7	Special technical clauses booklet, initialed on each page, dated and signed on the last page	Yes/No
8	Environmental and social clauses booklet, initialed on each page, dated and signed on the last page	Yes/No
	Special administrative clauses booklet, initialed on each page, dated and signed on the last page	Yes/No
9	Site visit report <i>(justified with a with photos and a thorough description of the site)</i>	Yes/No
	<b>Total</b>	..... /15

NB: Only bids with a total of 12 out of 15 yes votes will be accepted for the next stage of the procedure.

- ☐ Verification of arithmetic operations, multiplying unit prices by quantities where applicable and using the price in words to make any necessary corrections;
- ☐ Preparation of a summary table of quotations based on the amounts corrected for any arithmetic errors, listed in ascending order.

For the purposes of evaluation and comparison, the currency(ies) of the quotations must be converted into the same currency. The currency to be used for comparison purposes to convert the proposed prices, expressed in various currencies, into the comparison currency at the selling exchange rate will be the following: CFA franc (XAF). The source of the exchange rate is the Bank of Central African States (BEAC). The exchange rate date is: twenty-eight (28) days before the date of submission of offers. (NB: If the reference currency is not quoted on this date, the exchange rate will be that of the last previous day quoted.).

For technically compliant Quotations, the total evaluated prices, excluding provisional sums and any provision for contingencies, but including work in-house when their prices are established competitively, will then be compared to determine the lowest evaluated price(s).

## Contract Award

*[Select either of the two options below]*

*[Option 2- For a Single Lot]*

28. The contracts will be awarded to the Contractor or Contractors meeting the eligibility requirements in accordance with the RFQ, offering a technically compliant quotation, guaranteeing completion of the Works by the specified date and offering the lowest evaluated price to the Employer.”]
29. The Employer shall invite by the quickest means *[e.g. e-mail]* the successful Contractor/s for any discussion *[this is expected to be virtual in light of the emergency situation]* that may be needed to conclude the contract or otherwise for contract signature:



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## BALIKUMBAT INTERNAL TENDERS BOARD

**No. 03/RFQ/BC/BCITB/MINDDEVEL/PROLOG/NWR/2025 OF 09/09/2025  
POUR LA CONSTRUCTION ET L'INSTALLATION D'UN FORAGE  
COMMUNAUTAIRE EQUIPE D'UNE POMPE SOLAIRE ET D'UN TAPIS  
AVEC DES ROBINETS DE TETE DANS CERTAINS QUARTIERS  
(NJIFORWANG ET AKUMOM) DE LA MUNICIPALITE DE BALIKUMBAT.  
DIVISION DE NGOKETUNJIA, REGION DU NORD-OUEST.**

**Madame, Monsieur,**

### **Demande de Cotation (RFQ)**

1. Le gouvernement de la République du Cameroun a obtenu de la Banque mondiale l'accord de crédit IDA n° 72130 - CM pour financer le coût du PROJET DE GOUVERNANCE LOCALE ET DE COMMUNAUTÉS RÉSILIENTES (PROLOG) et a l'intention d'utiliser une partie du montant de ce crédit pour effectuer les paiements autorisés dans le cadre du contrat pour lequel la présente demande de devis est publiée.
2. La réalisation dudit projet comprend **POUR LA CONSTRUCTION ET L'INSTALLATION D'UN FORAGE COMMUNAUTAIRE EQUIPE D'UNE POMPE SOLAIRE ET D'UN TAPIS AVEC DES ROBINETS DE TETE DANS CERTAINS QUARTIERS (NJIFORWANG ET AKUMOM) DE LA MUNICIPALITE DE BALIKUMBAT, DIVISION DE NGOKETUNJIA, REGION DU NORD-OUEST.**
3. Le maire du Commune de Balikumbat invite désormais les entrepreneurs à soumettre leurs devis pour les travaux. À cette fin, la Commune de Balikumbat a l'intention d'utiliser une partie des sommes accordées au titre du présent accord pour effectuer les paiements prévus dans le contrat relatif à **la CONSTRUCTION ET L'INSTALLATION D'UN FORAGE COMMUNAUTAIRE EQUIPE D'UNE POMPE SOLAIRE ET D'UN TAPIS AVEC DES ROBINETS DE TETE DANS CERTAINS QUARTIERS (NJIFORWANG ET AKUMOM) DE LA MUNICIPALITE DE BALIKUMBAT, DIVISION DE NGOKETUNJIA, REGION DU NORD-OUEST.**
4. La durée d'exécution des travaux est de **trois (03) mois.**
5. **Fraud et corruption**
  - a) La Banque exige le respect de ses directives anti-corruption et de ses politiques et procédures de sanctions en vigueur, telles qu'énoncées dans le cadre de sanctions du Groupe de la Banque mondiale, figurant à l'annexe A des conditions contractuelles.
  - b) Conformément à cette politique, les entrepreneurs doivent autoriser et faire en sorte que leurs agents (déclarés ou non), sous-traitants, sous-consultants, prestataires de services, fournisseurs



12. Les entrepreneurs qui sont des entreprises ou des institutions publiques dans le pays de l'employeur ne peuvent être autorisés à soumissionner et à se voir attribuer un ou plusieurs contrats que s'ils peuvent établir, d'une manière acceptable pour la Banque, qu'ils :
- a) ils sont juridiquement et financièrement autonomes ;
  - b) opèrent en vertu du droit commerciale et
  - c) ne sont pas sous la supervision de l'employeur.
13. Un contractant ne doit pas se trouver en situation de conflit d'intérêts. Tout contractant se trouvant en situation de conflit d'intérêts sera disqualifié. Un contractant peut-être considéré comme se trouvant en situation de conflit d'intérêts aux fins du présent processus d'appel d'offres si :
- (a) il contrôle directement ou indirectement, est contrôlé par ou est sous contrôle commun avec un autre entrepreneur ayant soumis une offre ;
  - (b) il reçoit ou a reçu une subvention directe ou indirecte d'un autre contractant ayant soumis une offre ;
  - (c) il a le même représentant légal qu'un autre entrepreneur ayant soumis une offre ;
  - (d) Entretient, directement ou par l'intermédiaire de tiers communs, une relation avec un autre entrepreneur ayant soumis une offre qui le place en position d'influencer l'offre d'un autre entrepreneur ou d'influencer les décisions de l'employeur concernant le processus d'appel d'offres ; ou
  - (e) ou l'une de ses filiales a participé en tant que consultant à la préparation de la conception ou des spécifications techniques des travaux faisant l'objet du processus d'appel d'offres ; ou
  - (f) ou l'une de ses filiales a été engagée (ou est proposée pour être engagée) par l'Employeur ou l'Emprunteur pour la mise en œuvre du Contrat ; ou
  - (g) fournirait des biens, des travaux ou des services autres que des services de conseil résultant de, ou directement liés à, des services de conseil pour la préparation ou la mise en œuvre du projet spécifié dans la présente demande de devis, qui ont été fournis par une filiale qui contrôle directement ou indirectement, est contrôlée par, ou est sous contrôle commun avec cette entreprise ; ou
  - (h) entretient des relations commerciales ou familiales étroites avec un membre du personnel professionnel de l'Emprunteur (ou de l'agence chargée de la mise en œuvre du projet, ou d'un bénéficiaire d'une partie du prêt) qui : (i) est directement ou indirectement impliqué dans la préparation de la demande de devis ou du cahier des charges et/ou dans l'évaluation des devis du Contrat en question ; ou (ii) serait impliqué dans la mise en œuvre ou la supervision dudit contrat, à moins que le conflit découlant de cette relation n'ait été résolu d'une manière acceptable pour la Banque tout au long du processus d'appel d'offres et de l'exécution du contrat.

#### 14. Validité des offres

Les offres seront valables pendant quatre-vingt-dix (90) jours calendaires à compter de l'ouverture des offres.

#### 15. Prix

Le contractant doit indiquer le prix total dans le formulaire intitulé « Devis du contractant ».

- a) *Le contractant doit également indiquer ses tarifs et prix pour tous les éléments des travaux décrits dans le devis quantitatif ci-joint. Les éléments pour lesquels aucun tarif ou prix n'est indiqué par le contractant ne seront pas payés par l'employeur lors de l'exécution et*



*des documents ci-dessus n'entraînera pas le rejet de l'offre au moment de l'évaluation. Toutefois, ils seront exigés lors de l'attribution du marché.*

**19. Clarifications**

Toute demande de clarification concernant la présente demande de devis peut être envoyée par écrit à *[insérer : nom et adresse électronique du représentant de l'employeur]* avant le *[insérer la date et l'heure]*. L'employeur transmettra des copies de sa réponse à tous les entrepreneurs, y compris une description de la demande, mais sans en identifier la source.

**20. Soumission des devis**

Les soumissionnaires éligibles invités peuvent obtenir de plus amples informations auprès du **conseil municipal de Balikumbat**, **téléphone portable : +237670912286**, **boîte postale : 01, Balikumbat**, et consulter le dossier d'appel d'offres pendant les heures de bureau, du lundi au vendredi, de 9 h à 15 h (GMT+1).

Dès la publication de l'appel d'offres, les documents d'attribution du marché (dossier d'appel d'offres) seront mis à la disposition de tous les soumissionnaires, soit à leur demande auprès du **Conseil de Balikumbat** ou de la **PMU/RCU PROLOG**, soit via le lien Internet indiqué dans l'appel d'offres.

Les offres doivent être remises au **Conseil municipal de Balikumbat**, **téléphone portable : +237670912286**, **PO BOX :01 Balikumbat** situé à Balikumbat, au plus tard le **02/10/2025 à 10 heures précises**, en sept (07) exemplaires (dont un (01) original et six (06) copies, plus une clé USB contenant le PDF numérique et la version modifiable) dans des enveloppes scellées portant la mention :

**« DEMANDE DE COTATION N° 03/RFQ/BC/BCITB/MINDDEVEL/PROLOG/ NWR /2025 DU 05 SEPTEMBER 2025 POUR LA CONSTRUCTION ET L'INSTALLATION D'UN FORAGE COMMUNAUTAIRE EQUIPE D'UNE POMPE SOLAIRE ET D'UN TAPIS AVEC DES ROBINETS DE TETE DANS CERTAINS QUARTIERS (NJIFORWANG ET AKUMOM) DE LA MUNICIPALITE DE BALIKUMBAT, DIVISION DE NGOKETUNJIA, REGION DU NORD-OUEST »**

**21. La soumission des offres par voie électronique ne sera pas autorisée.** Toute offre arrivant après la date limite de soumission sera rejetée. Les offres seront ouvertes en présence des représentants des soumissionnaires à l'adresse susmentionnée, **le 02/10/2025 à 10 heures précises** dans la **salle de conférence de la Commission interne de Passation des Marches de la Commune de Balikumbat**.

**22. La date limite de soumission des devis est fixée au [02/10/2025 à 10 heures précises].**

**23. L'adresse pour la soumission des devis est la suivante :**

À l'attention de : *[insérer le nom complet de la personne, le cas échéant]*

Adresse e-mail : ou lien vers le système d'approvisionnement électronique

**24. Ouverture des offres**

**25. Les offres seront ouvertes par la Commission interne de Passation des Marches de la Commune de Balikumbat** une heure après la date limite de soumission des offres **[02/10/2025 à 11 heures précises]**.



8	Livret des clauses environnementales et sociales, paraphé à chaque page, daté et signé à la dernière page	Oui/Non
	Livret des clauses administratives spéciales, paraphé à chaque page, daté et signé à la dernière page	Oui/Non
9	Rapport de visite du site (justifié par des photos et une description détaillée du site)	Oui/Non
	<b>Total</b>	..... /15

NB : Seules les offres ayant obtenu un total de 12 votes positifs sur 15 seront acceptées pour la prochaine étape de la procédure.

- Vérification des opérations arithmétiques, multiplication des prix unitaires par les quantités le cas échéant et utilisation du prix en lettres pour apporter les corrections nécessaires ;
- Préparation d'un tableau récapitulatif des offres sur la base des montants corrigés des éventuelles erreurs arithmétiques, classés par ordre croissant.

Aux fins de l'évaluation et de la comparaison, la ou les devises des offres doivent être converties dans la même devise. La devise à utiliser à des fins de comparaison pour convertir les prix proposés, exprimés dans différentes devises, dans la devise de comparaison au taux de change vendeur sera la suivante : franc CFA (XAF). La source du taux de change est la Banque des États de l'Afrique centrale (BEAC). La date du taux de change est : vingt-huit (28) jours avant la date de soumission des offres. (NB : Si la devise de référence n'est pas cotée à cette date, le taux de change sera celui du dernier jour précédent coté).

Pour les offres techniquement conformes, les prix évalués totaux, à l'exclusion des montants provisoires et de toute provision pour imprévus, mais incluant les travaux internes lorsque leurs prix sont fixés de manière concurrentielle, seront ensuite comparés afin de déterminer le ou les prix évalués les plus bas.

### **Attribution du marché**

*[Sélectionnez l'une des deux options ci-dessous]*

*[Option 2 - Pour un seul lot]*

27. Les contrats seront attribués au ou aux entrepreneurs qui remplissent les conditions d'éligibilité conformément à la demande de devis, qui proposent un devis techniquement conforme, qui garantissent l'achèvement des travaux à la date spécifiée et qui proposent le prix évalué le plus bas à l'employeur. »]
28. L'employeur invitera par les moyens les plus rapides *[par exemple, par courrier électronique]* le ou les entrepreneurs retenus à toute discussion *[qui devrait être virtuelle compte tenu de la situation d'urgence]* qui pourrait être nécessaire pour conclure le contrat ou pour la signature du contrat.
29. L'employeur communiquera par les moyens les plus rapides aux autres entrepreneurs sa décision d'attribution du contrat. Un entrepreneur non retenu peut demander des éclaircissements sur les raisons pour lesquelles son devis n'a pas été retenu. L'employeur répondra à cette demande dans un délai raisonnable.
30. L'Employeur publiera un avis d'attribution du contrat sur son site web en libre accès, s'il existe, ou dans un journal à diffusion nationale ou sur le site web de la BANU, dans les 15 (quinze) jours suivant l'attribution du contrat. Les informations comprendront le nom du



**Attachments:**

**Annex 1: Works Requirements Annex 2: Quotation Form Annex 3: Contract Forms**

## **ANNEX 1: Work Requirements Specifications**

### **1- Special Technical Specifications (STS)**

## **Technical specifications and plans**

### **PARTICULAR TECHNICAL TERMS NOTEBOOK**

#### **GENERAL DESCRIPTION**

#### **TECHNICAL SPECIFICATIONS FOR THE BOREHOLE**

##### **A-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 Contract.

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 Contract.

##### **Consolidated formation**

Water as known is the most important life keeper. Groundwater is the major source of supply. This can only be achieved by effective and professional placement of a borehole.

Reaching underground reservoirs can sometimes prove to be very extremely challenging exercise. However, our proposed methodology and scope of work has been defined as being:-

##### **Rig Set Up**

The rotary rig will be moved into a position of the selected site by the consulting hydro geologist. The unit will be levelled into position using hydraulic jacks. This is on pre-positioned heavy-duty timber slippers. This is done in order to avoid any deviation in the borehole during drilling operations and also to achieve affective vertically of the borehole.

##### **Borehole Drilling**

##### **(A) Consolidated Formation**

We shall deploy the use of hydraulic rotary rig namely DTH with Mission Hammer Bits. This combines the percussive action of cable tool drilling with the rotating action of rotary drilling. Its fast penetration rate in medium hard to very hard formations results from two important factors.

1. Since its bottom – hole tool, the piston blows are transmitted directly to the bit without losing energy through the drill string
2. The air is fully used for rapid impacting action and for lifting cuttings from the hole.

This tool is operated by high-pressure compressed air, injected through hollow drilling pipes by means of 1200cfm, 320 psi Ingersole Rand Screw Air Compressor. Compressed air ensures that the moment water is located, compressed air immediately lifts it to the surface.



We shall sample clean water in 1 litre jerry can and forward to the Government Chemist, Nairobi or any other competent authority for Chemical analysis.

**Borehole Completion & Capping**

We shall approximately construct suitable concrete plug around casing with dimensions specified in the Bill of Quantities after successful completion of test pumping works.

**Reporting**

We shall compile a report after completion of the assignment, which will include: -

Drilling operations (i.e penetration and geological logs), results and borehole design construction with drawings.

Development and test pumping operations, results and analysis with graphs

**Water quality analysis**

Recommendations on groundwater abstraction and utilization, including submersible pump specifications

**SPECIAL TECHNICAL CONDITION (C.C.T.P) FOR THE SOLAR PUMP**



The SQFlex system is a reliable water supply system based on renewable energy sources, such as solar energy.

Very flexible as to its energy supply and performance, the SQFlex system can be combined and adapted to any need according to the conditions of the installation site.

**Motor type : MSF3, Power input - P1 : 0.35 kW**

**SQF 1-30**

Max. TDH: 40m

Max: 2,1m<sup>3</sup>/h

98842452

**Motor type : MSF3, Power input - P1 : 0.9 kW**

**SQF 1-70**

Max. TDH: 70m

Max: 3,7m<sup>3</sup>/h

99596857

**Motor type : MSF3, Power input - P1 : 1.4 kW**

**SQF 0.6-2**

**SQF 0.6-3**

**SQF 1.2-2**

Max. TDH: 120m

Max: 0,65m<sup>3</sup>/h

Max. TDH: 200m

Max: 0,63m<sup>3</sup>/h

Max. TDH: 120m

Max: 1,3m<sup>3</sup>/h

95027324

95027326

95027326

**SQF 1.2-3**

**SQF 2.5-2**

**SQF 3A-10**

Max. TDH: 250m

Max: 1,3m<sup>3</sup>/h

Max. TDH: 120m

Max: 2,80m<sup>3</sup>/h

Max. TDH: 70m

Max: 5m<sup>3</sup>/h

96834838

95027330

95027336

**SQF 5A-7**

**SQF 7-4**

Max. TDH: 50m

Max: 9m<sup>3</sup>/h

Max. TDH: 35m

Max: 13,2m<sup>3</sup>/h

**SQF 8A-5**

Discontinued

95027342

98978806

**SQF 9-3**

**SQF 11A-3**

**SQF 14-3**

Discontinued



The motor is available in two material variants: • MSF 3 is the standard version made of stainless steel DIN W.-Nr. 1.4301

• MSF 3 N is made of stainless steel DIN W.-Nr. 1.4401.

The motor has three internal limitations:

- maximum power input (P1)
- maximum current of 8,4 A or 12 A
- maximum speed of 10700 min-1 or 3600 min-1.

The pump delivers its maximum performance when one of the above limitations is reached.

Supply voltage is flexible regarding power supply and power range, the motor can be supplied with either DC or AC voltage:

- 30-300 VDC, PE (100-300VDC for 2500W motor)
- 1 x 90-240 V - 10 %/+ 6 %, 50/60 Hz, PE.

### **Installation**

The modular pump and motor design facilitates installation and service. The cable and the end cover with socket are fitted to the pump with screws to enable replacement.

The SQFlex system is a reliable water supply system based on renewable energy sources, such as solar and wind energy. The SQFlex system incorporates an SQF submersible pump.

All pump types are available in two material variants:

- SQF is the standard version made of stainless steel DIN W.-Nr. 1.4301
- SQF-N is made of stainless steel DIN W.-Nr. 1.4401.

### **Dry-running protection**

The SQF pump is protected against dry running to prevent damage to the pump. The dry-running protection is activated by a water level electrode placed on the motor cable 0.3 to 0.6 m (12 to 24 in) above the pump, depending on the pump type.

The water level electrode measures the contact resistance to the motor sleeve through the water. When the water level falls below the water level electrode, the pump stops. The pump automatically restarts five minutes after the water level is above the water level electrode.

### **Pumped liquids**

SQF pumps are applicable in thin, clean, non-aggressive and non-explosive liquids that do not contain solid or long- fibred particles.

pH value: 5-9.

Liquid temperature: 0-40 °C (32-104 °F).

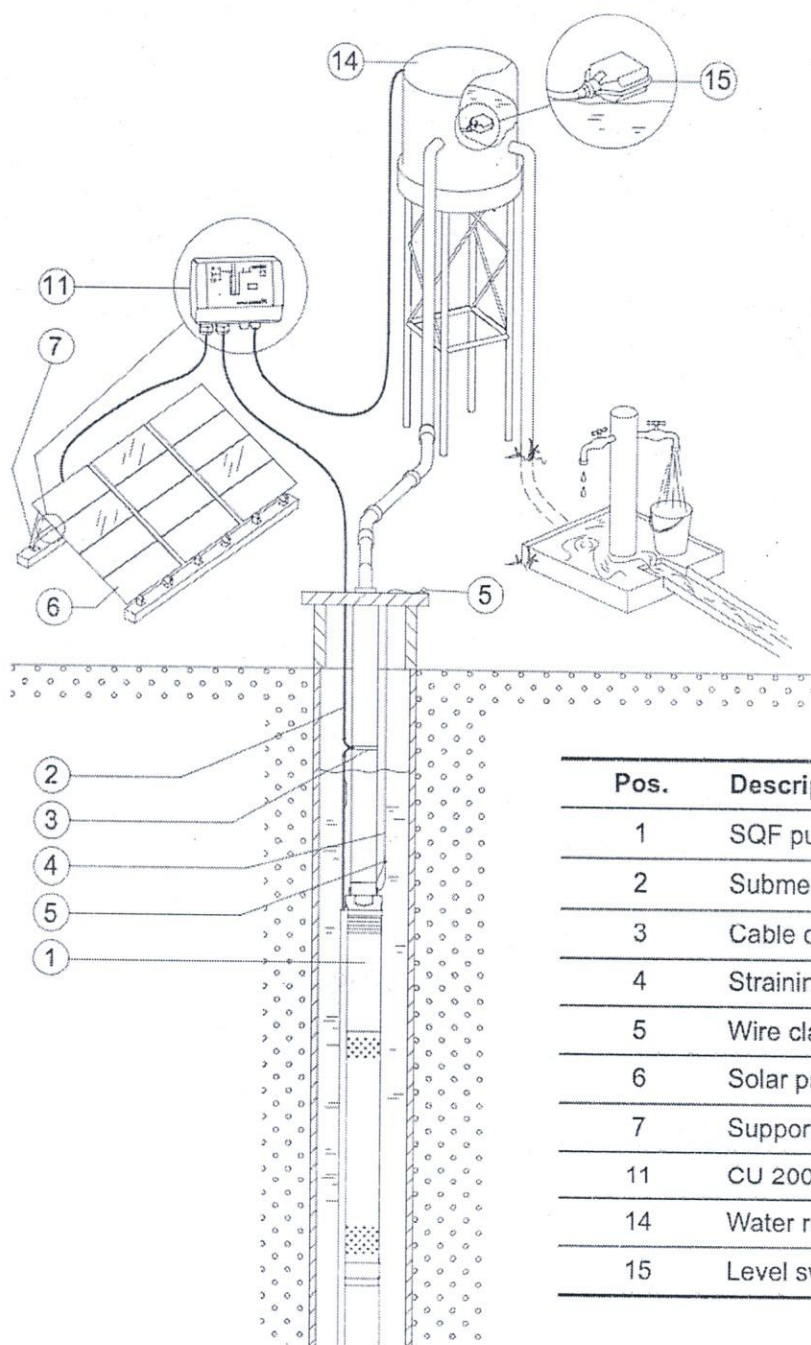
The pump can run at free convection (~ 0 m/s, 0 ft/s) at maximum 40 °C (104 °F).

Maximum sand content: 50 g/m<sup>3</sup> (50 ppm).

A higher sand content considerably reduces the lifespan of the pump.

### **SQFlex Solar with CU 200 and level switch**





Pos.	Description
1	SQF pump
2	Submersible drop cable
3	Cable clips
4	Straining wire
5	Wire clamps
6	Solar panels
7	Support structure
11	CU 200 SQFlex control unit
14	Water reservoir
15	Level switch

*SQFlex Solar with CU 200 and level switch*

### **SQFlex Solar with backup generator**

During periods of limited solar energy, the SQFlex Solar system provides reliable water supply. The system is connected to an external backup generator via the IO 101. The system switches automatically to operation via generator when the generator is started.





**GRUNDFOS**

## **TECHNICAL SPECIFICATIONS FOR THE STORAGE TANK AND TECHNICAL UNIT**

**GENERALITIES:** *This present special technical specifications concern the construction of a storage tank and technical unit in Balikumbat and Bamunkumbit villages for the community boreholes.*

It is the duty of the contractor to realize the structure as per the execution plans that shall be approved by the competent authority and sample models of equipment and furniture provided by the project owner. Through the Project Engineer, the contractor shall furnish the owner of the project and other project team members within the shortest possible time with an execution plan showing clearly how he intends to run the work site. A fence in local materials shall enclose the whole work site to avoid trespassing.

**SIGN-POSTS:** The contractor shall put in place at his expense sign-posts indicating work in conformity with the plans put at his disposal by the authority that signed the contract.

**Hygiene and safety:** The contractor shall ensure total hygiene and security of the site by constructing a temporal pit latrine and putting up a temporal fence around the project site if that be the case.

The contractor shall be responsible for the protection of the structures before final reception. He shall be equally responsible for all tools and materials present at the work site. He shall seek an insurance policy to cover theft and fire incidence.

The contractor shall take all preventive measures against accidents. The owner of the project reserves the right to intervene in case of any emergency without necessary interfering with the responsibilities of the contractor.

The contractor shall verify all dimensions on the plans. For execution no dimension shall be measured with a scale rule from the plans. The contractor shall check in-situ the possibility of translating the dimensions on plans to the structure before work begins. He shall refer to the Project Engineer in case of any doubt. He shall not on his own modify anything on the structure and shall inform the Project Engineer of any changes that he considers necessary.

All modifications accepted by the contractor shall be accomplished in a specified duration and at his cost without modification of the contract amount. The owner of the project shall have the right to the final choice in case of any modification.

**2- PREPARATORY WORKS – SETTING OUT:** These works concern the clearing of the site and evacuation of the rubbles to the public discharge, the clearing and leveling of the site where necessary. The setting out will be in respect to the technical plans.

The setting out profile boards will be at least 1, 20 m from the outside axes, this to facilitate trenching and other earthworks and good circulation. The commencement of excavation will be accepted by the Project Engineer without checking the conformity of the setting.



### **Doors and Windows:**

- Door shutters shall be made of metallic panels fitted with metallic protection bars (vertical Strips), anchored to the wall with appropriate screws, and hard wooden raise panels fixed on wooden frames and securely anchored to the walls, All door shutters shall open to the outside.

-All window openings shall be fitted with metallic or with sliding aluminum panels shutters and fixed window protectors of vertical striped metallic tubes (30mm)

**7 – ELECTRICAL INSTALLATION:** The interior facilities (sheaths VGV cables, TH etc...) will be executed according to the norms and the rules concerning electrical installations at the time of the over-site concrete or as the agglomerated hollow blocks walls are being raised. Accessories and luminous elements (sockets, switches etc...) will be of good model. The set of facilities will be joined to a general earth hold.

**8 – RENDERING (PLASTERING) AND COATINGS:** The wall rendering (thickness at least 2cm cm on both sides of the walls) will be of cement mortar at 400 kg/m<sup>3</sup>. There will be an under-coat layer and a finish layer floated and foamed to finish. They must be well cut horizontally and vertically using a straight edge. All walls shall receive a base coat of spatadash before plastering is done.

**9 – PAINTING:** A layer of impression in ordinary paint will be applied previously on all the walls as priming layer. The interior walls will be painted in water paint (pantex 800). The external walls will be painted in water resistant paint (pantex 1300 type). Colour tinted tubes will be chosen to achieve the desired **magnolia** colour.

All metal and wood works shall be painted with oil paint - Glyptalresien lacquer, in two coats. A primary coat of antirust before final painting is done. Skirting shall be carried out oil paint at 90cm from the floor, externally and internally with coffee brown colours

**10 - OUTSIDE AMENITIES AND LAYOUT PLANNING:** **Gutters:** To be excavated 40cm wide and 30cm deep at the rain drops. The walls of gutters are to be constructed in concrete and the floor well rolled and smoothen out with ordinary cement concrete providing a slope of 10% for the flow of water with an offshoot of at least 3m to the environment.

**Prefabricated slabs** of one meter twenty (1.20m) wide each shall be provided at the main entrance of the classrooms at right angles.

**Steps** shall be constructed out of shaped stones at the main entrance to the building at 1,20m wide as the case may be.

Equally, **ramps** of 1,20m cast insitu of one twenty (1,20m) wide each with edges protected with angle bar of 25mm shall be provided at the entrance of the building for handicaps on wheel chairs or otherwise.

**11 -PROTECTION OF THE ENVIRONMENT:** The entrepreneur will propose to the Project Engineer, before the beginning of works, the place of his yard facilities and will request his authorization of installation.

The site must be chosen outside of the sensitive zones, in order to limit the site clearing, the extraction of bushes, the setting out of the building and general circulation.

The site must foresee an adequate drainage of waters on the whole surface. The maintenance areas and of washing should be concreted. These maintenance areas should have a slope toward a cesspool provided for the purpose and toward the inside of the platform in order to avoid the out-flow of the polluting products toward the site and the neighborhood.

At the end the works, the entrepreneur will do all necessary works to the restoration of the various places of the site. The entrepreneur should fold all his material, and equipment. He should demolish all stationary



- **Aggregate:** shall consist of natural and homogeneous materials or crushed stones. Tiny layer of grave (dust) shall be removed by sieving, blowing or washing.
- **Water:** To be used for the mixture mortar, concrete and washing of aggregates. Shall be clean and free from impurities ; meaning potable water.
- **Cement:** To be used mostly for cement mortar, all concrete mixtures shall satisfy the general conditions laid down by regulation in force. It will be type CPA325 Portland cement and shall not show any trace of uneven mixture. Storage on the building site shall be done on a dry and ventilated floor. Any stock presenting an unsatisfactory pulverulent condition will be discarded and cleared away within four (04) days.
- **Rods:** shall be mild steel reinforcement, Tor or Steel in accordance with the R/C & 3 rules. The steel shall be perfectly clean without any trace of rust, non-adhesive to paint or grease.
- **Shuttering:** hard wood, to bear without any noticeable distortion, the load and pressure of concrete, the effect of vibration and weight of workers involved in setting it up.
- **MASONRY:**
  - **Blocks-** blacks stone with cement mortar joint
  - **Screed:** a smooth layer of ordinary cement screed  $400\text{kg/m}^3$  (1:2) finish shall be spread on the 8cm concrete floor and the screed shall be 3cm thick.

### 13 GUTTERS:

To be excavated 40cm wide and 30cm deep at the rain drops and to be provided particularly at the frontage and the two ends of the building as the topography of the terrain is relatively flat. The walls of gutters are to be constructed in concrete and the floor will be rolled and smoothen out with ordinary cement concrete providing a slope of 10% for the flow of water for level surfaces.

**15- Wood – Material:** The wood must be pure and should not have nodes, foreign bodies or fractures due to sawing. This shall be locally sawn eucalyptus.

## TECHNICAL SPECIFICATIONS FOR THE PIPELINE NET WORK

### PIPES AND FITTINGS

Generally pipes used in water supply must meet any of the standards mentioned below or their equivalence: the American Water Works Association (AWWA) or the American National Standards Institute (ANSI) or the American Society for Testing and Materials (ASTM) standards N°D 1785 and D 2241 or ISO standards N°527 and 845.

**Table A: NFT 54 – 016 Physical Characteristics of Pipes**

the tolerance for pipe lengths shall be  $\pm 1\%$  ( $\pm 6\text{cm}$ ) for every 100 pipes, if the number of pipes not respecting this tolerance is less than 3 i.e 3%, then the whole lot is considered okay, otherwise the supervisor could request that as many pipes be tested in the lot as possible.

a) **External diameter**

The tolerance shall be  $\pm 0.3\text{mm}$  for pipes of external diameters between 25mm and 50mm, and  $\pm 0.4\text{mm}$  for pipes above 63mm diameters. Before reception, the supervisor shall verify the external diameters of 15 pipes for every 300 pipes. If 6 or more pipes do not meet the tolerance prescribed above, he reserves the rejected.

b) **Thickness**

Thickness verification should adhere to the specifications presented on table B.

**Table B: Thickness verification**

N° of pipes in the lot	N° of pipes randomly selected for verification	N° of bad pipes X	
		Lot accepted if X max =	Lot rejected if X min =
100 – 199	10	2	3
200 – 299	15	3	4
300 – 499	20	3	4
500 – 899	25	5	6
899 – 1300	30	6	7
1300 – 3200	40	8	9

The supervisor shall carry out thickness verification in accordance with table B.

d) **Socket length**

The socket length has to be verified according to agreed norms. The value obtained should have the theoretical value of the diameter of the tube plus 1.3mm. the tolerance shall be 0.6mm.

e) **Shrinkage cracks**

Shrinkage crack tests should be carried out according to agree methods by the supervisor on a 1.5 – 30cm long sample. No shrinkage cracks should occur if the pipe is at  $90^\circ$  to its horizontal axis. If this occurs for 15 samples representing a lot of 100 pipes, the lot shall be rejected.

f) **Internal pressure**

Pipe sample shall be subjected to 1.5 times the service pressure for a duration of one hour. If one out of every five samples ruptures, another set of five is selected for a retest. If the second set respects the specified relation with the service pressure, the set is considered satisfactory. Otherwise, necessary adjustments are carried out to meet the required specification, or the lot is rejected.

g) **Impact**

This test is carried out on three samples, one from each extremities and the third from the centre, all three, one meter long. Perpendicular masses are dropped from a height of one meter onto the samples as in table C.



Pipe joints, reducers, tees, etc. shall be connected in conformity with the manufacture's prescriptions.

#### **Method of measurement**

The quantity of PVC shall be measured per linear meter of installed pipe. Measurements shall be made for each class of pipe and each diameter of pipe separately.

#### **Basis of payment**

Payments shall be made at the contract's unit price. This unit price shall be full compensation for the provision, transportation, installation and testing of all piping material including the installation of all accessories like coupling, tees, reducers, etc.

### **Article 16 EXCAVATIONS OF TRENCHES**

The trench for pipes up to 110mm shall be excavated to a depth of at least 80cm deep and 40cm wide or other such depths and widths as directed by the supervisor and shown on the plan.

The trench for pipes above 110mm shall be excavated to a depth of at least 100cm deep and 40cm wide or other such depths and widths as directed by the supervisor and shown on the plan.

### **Article 17 NOMENCLATURE OF WORK**

#### **17.1 Setting out of works**

The contractor shall be responsible for the setting out of all pertinent lines, works, grades and levels as required for the proper and accurate positioning of the structures on the site.

#### **17.2 Earth Works**

##### **17.2.1 Description**

This item shall consist of all excavation and backfill works in accordance with these specifications and in conformity with the lines shown on the plans or as indicated by the supervisor.

##### **17.2.2 Construction methods**

#### **Excavation**

Excavation works for the piping system shall be performed by the contractor. The bottom of the trench shall be free of any stones or other materials which could incur damage to the pipes.

*Excavations for intakes, reservoir tanks, wash – out chambers, valve boxes, break – pressure tanks and public tap – stand shall be performed by the contractor.*

#### **Backfill**

Backfill of the pipeline shall be performed by the contractor. No backfill operations shall be allowed before the approval from the supervisor has been granted.

The compaction requirement for backfill shall be at least 90% of the dry modified optimum proctor density.

#### **Maintenance of excavations.**

The contractor shall carry the risk of collapse of excavated faces whether or not he takes any precautions, the nature of the precautions shall be entirely at his own discretion.

No water shall be allowed to accumulate in any portion of the excavations.

The excavations shall be protected against flooding, and any water entering

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## **LIST OF ACRONYMS AND ABBREVIATIONS**

ILO: International Labor Office  
 CCES: Environmental and Social Clauses  
 TSP :Special Technical Clauses  
 CGES: Environmental and Social Management Framework  
 CPPA: Planning Framework for Indigenous Peoples  
 CPR: Resettlement Policy Framework  
 E&S: Environmental and Social  
 SEA: Sexual Exploitation and Abuse



## **II. GENERAL OBLIGATIONS**

### **II.1. Responsibilities of the Contractor (the Contractor and its Subcontractors)**

The Contractor is solely and entirely responsible for compliance with this CCES. Subcontracting part of the work does not exempt it from full responsibility to the Contractor for compliance with these clauses. It therefore has the following environmental and social obligations:

1. It must prepare, before the actual start of on-site work, the Construction Site ESMP in compliance with the requirements of the Construction Site Environmental and Social Standards Committee (CCES) and the World Bank's Environmental and Social Standards;
2. It must implement the Construction Site ESMP throughout the period from contract signing to final acceptance of the works by the Project Owner or their delegate;
3. It must have a dedicated organization and resources to ensure:
  - ☐ (i) the preparation of environmental and social documentation,
  - ☐ (ii) environmental and social monitoring of construction activities,
  - ☐ (iii) the definition of corrective measures in cases of non-compliance and the prevention of non-compliance,
  - ☐ (iv) adequate and timely communication between the various parties involved;
4. He must ensure compliance with good environmental, social, health, and safety (ESHS) practices, including aspects relating to the prevention and management of GBV/SEA/HS incidents in the workplace and in communities, as well as the management of complaints and grievances related to the project;
5. He must be familiar with, comply with, and enforce all regulations, laws, decrees, standards, and other government provisions of a socio-environmental nature, including those corresponding to national and municipal areas that, in one way or another, are related to the work covered by the contract. In the absence of knowledge of one or more of these regulations, or others not specifically indicated and their corresponding updates, he is not exempt from the responsibility to comply with these regulations;
6. Without being exhaustive, the applicable regulations, laws, decrees, and standards presented in the following environmental and social texts, subject to these clauses, are as follows:
  - ☐ Framework Law No. 96/12 of August 5, 1996, relating to environmental management, which provides, in particular, for the treatment of waste by companies and the protection of receiving environments and penalties for environmental damage;
  - ☐ Law No. 94/01 of January 20, 1994, on the forest, wildlife, and fisheries regime, which sets out the framework and conditions for felling trees, whether or not they belong to permanent forest land;
  - ☐ Law 1998 on classified hazardous establishments such as quarries;
  - ☐ Law No. 98/005 of April 14, 1998, on the water regime;
  - ☐ Law No. 96/67 of April 8, 1996 on the protection of national road heritage,
  - ☐ Law No. 2016/017 of December 14, 2016 on the mining code, which governs the conditions for opening quarry sites and laterite borrow pits;



#### **II.4.1. Monitoring the implementation of the environmental and social clauses of the CCES**

The Contractor's compliance with and effectiveness of its implementation of the CCES is monitored by the Project Manager, depending on the case, with the advice of its environmental, social, and health and safety manager or a qualified technical manager with proven expertise in environmental and social matters. This monitoring is carried out during site visits, where corrective actions are addressed directly to the Contractor. Depending on the nature of the activity being implemented, this monitoring may be daily, weekly, or monthly. The findings are recorded in monthly, quarterly, and semi-annual monitoring reports.

#### **II.4.2. Notification of Non-Compliances**

The Project Manager shall notify the Contractor in writing of any instances of failure to comply with or non-implementation of environmental and social measures. The Contractor must rectify any failure to comply with the requirements duly notified to it by the Project Manager. Resumption of work or additional work resulting from non-compliance with the clauses shall be the Contractor's responsibility.

#### **II.4.3. Management of Non-Compliances**

Non-compliances detected during inspections carried out by the Contractor or the Project Manager will be handled in a manner appropriate to the severity of the situation. Non-compliances will be defined as discrepancies with the requirements of the regulations in force, this CCES, the CGES, and the Construction Site ESMP. Non-compliances will therefore be divided into four categories:

- a) Observation Notification, for minor non-conformities such as the abandonment of household waste in the open air. This level only requires verbal notification from the Project Manager to the Contractor's representative, with the signature of the Observation Notification prepared by the Project Manager. The multiplication of Observation Notifications in an Activity Zone, at least three (03) times or the failure of the Contractor to take into account the Observation Notification within six (06) working days, elevates the Observation Notification to the level of non-conformity level 1.
- b) Level 1 non-conformity: for non-conformities that present a moderate and non-immediate risk in terms of the environment, society, health or safety, such as the inconsistent wearing of complete Personal Protective Equipment (PPE). Non-compliance shall be notified in writing to the Contractor and must be resolved within five (5) working days. The Contractor shall send the Project Manager proof of resolution of the problem. After a visit and a favorable opinion, the Project Manager shall confirm in writing the closure of the non-compliance. In all cases, any level 1 non-compliance not corrected within a period exceeding five (5) working days shall be elevated to level 2.
- c) Level 2 non-compliance: Applicable to any non-compliance that presents an immediate moderate risk or has significant consequences for the environment, social security, and occupational health and safety, such as the lack of a first aid kit and medicine cabinet, the lack of awareness about the spread of STIs/HIV/AIDS, or the storage of waste (batteries, filters, etc.) on unsealed ground. The same procedure as for level 1 non-compliances shall apply. The resolution must be made within three (03) working days. Any level 2 non-compliance not corrected within a period exceeding three (03) working days will be raised to level 3. For non-compliances such as unauthorized deforestation of valuable species, installation of parking areas within the distances prescribed in the CCTP, for which the planning of corrective measures requires more time, its failure to correct within ten (10) days will result in its elevation to level 3;



instructs, the Construction Site ESMP will be updated by the Contractor and returned for approval. The revised version must highlight any new elements introduced into the document.

The content of the Construction Site ESMP to be prepared by the Contractor will be structured according to the scope of the work and, at a minimum, by the elements presented in Appendix 1 of this document.

### **III. EXECUTION OF WORK**

#### **III.1. Construction Kick-Off Meeting**

Before the start of construction, the Contractor and the Project Manager, under the supervision of the Project Owner, must organize meetings with the authorities, representatives of the local population, including women, located in the project area, and the relevant technical services, to inform them of the scope of the work to be carried out and its duration, the routes involved, and the locations likely to be affected. This meeting will also allow the Project Owner to gather feedback from the local population, raise awareness of environmental and social issues, and their relationships with the workers.

#### **III.2. Site Access and Installation**

##### **III.2.1. Access**

Access to the site for construction purposes must be achieved in a manner that minimizes disruptions and safety risks. To this end, the Contractor must define the most optimal access route, taking into account the aforementioned concerns. Access roads must be maintained by the companies using them (sweeping may be requested by the project manager).

Increased vigilance will be exercised to ensure that water flows are maintained in good condition at all times.

The project manager may also order the provision of equipment for watering and maintaining the roads. This will be ensured, in each of their sectors and for all stakeholders.

Each lot holder of the contract must be responsible for the specific operations to secure and protect the environmental site.

Their bids will therefore include the costs associated with these services to preserve access conditions.

##### **III.2.2. Traffic**

In the event that the work passes near sensitive areas, these areas will be precisely identified and marked out on the ground before the start of work in the presence of the project manager, a representative of the earthmoving company, and an environmental specialist. These preventive measures will minimize the construction site's impact on the environment and thus avoid irreversible damage to the most sensitive natural environments.

No traffic is permitted in the wetland with high environmental impact, as shown in the attached graphic.

When removing machinery from the construction site area onto a paved traffic area, the contractor must take all precautions (e.g., a cleaning pond) to avoid contaminating these roads.

##### **III.2.3. Installation**

The Contractor must submit an installation plan and the location of the construction site facilities to the project developer. The scope of these facilities is determined by the volume and nature of the work to be carried out, the site personnel, and the number and type of machinery. The site installation plan must take into account the following facilities and protective measures:



### **III.3. Clearance of rights-of-way and network identification**

#### **III.4.1. Weekly Environmental and Social Inspections**

In addition to their own inspections, the E&S Manager will also conduct E&S inspections of the Activity Zones jointly with the Project Manager. Each inspection will result in a written report, in a form approved by the Project Manager, of the non-compliances with the CCES observed in the Activity Zone. In these reports, the non-compliances will be visually illustrated by captioned digital photographs so that the location, date of the inspection, and the degree of the non-compliance illustrated are clear.

#### **III.4.2. Reporting**

##### **Monthly Reports:**

The Contractor will submit a monthly E&S activity report to the Project Manager, summarizing all E&S actions implemented during the previous period.

**Incidents and Accidents.** The company will immediately notify the PMU of any incident or accident within 48 hours of becoming aware of it, in accordance with the template provided in Appendix XXXX.

A detailed report of the incident or accident will then be prepared within a timeframe set by the Bank following the initial notification; which will also propose all measures to prevent its recurrence (in accordance with the template provided by the Bank).

The E&S activity report will be submitted no later than 7 business days after the end of the month in question. It will contain at least the following information:

- A status report on the personnel assigned to the work (contract status, representation (gender, local populations, indigenous peoples where applicable, etc.), compensation adjustments, etc.),
- Presentation of the E&S personnel present at the end of the month;
- Work carried out during the month;
- Inspections carried out (location and frequency);
- Non-conformities detected during the month, their severity, and a description of the analysis of the corresponding causes and corrective measures implemented;
- Description of actions taken during the month to comply with the CCES;
- Description of actions taken with stakeholders external to the work: local residents, local authorities, government agencies;
- Results of monitoring the following indicators:
  - o Availability and quality of drinking water;
  - o Management of hazardous and non-hazardous solid waste;
  - o Management of atmospheric and noise emissions;
  - o Status of Activity Zones
  - o Statistics on the recruitment of contract workers and community workers: number and type of positions, number of women recruited locally, number of young people, number of vulnerable people, number of hours worked by all of the Contractor's community staff;



- The work requiring work permits, and the emergency plans to be implemented in the event of an accident. - The following risks must be given particular attention:

- o Risks related to exposure to nuisances;
- o Risks related to traffic accidents;
- o Risks related to opening trenches for laying foundations and pipes;
- o Risks related to manual and mechanical handling;
- o Risks related to poor hygiene;
- o Risks of falls;
- o Toxic risks;
- o Risks related to failure to take measures to protect against COVID-19
- o Risks of electrocution.

☐ Weekly and daily health and safety meetings

The Contractor shall organize, at least once a week or at another frequency approved by the Project Manager, a health and safety meeting on the construction sites where activities are carried out, with all employees assigned to this Activity Zone. Accidents and incidents from the past week are described, and feedback is highlighted. Improvement actions are identified, documented, and evaluated until they are resolved. The project manager receives their reports.

The Contractor organizes, per team, a daily health and safety review before the start of activities in all Activity Zones where an activity is taking place. The meeting establishes the health and safety risks associated with the day's tasks and activities, as well as the prevention and protection measures. These meetings result in reports.

### **III.6. Information, Awareness, and Capacity Building**

The work covered by the Contract will result in an information and awareness campaign for local populations and stakeholders regarding:

- The nature and schedule of the work;
- The people to be recruited and the recruitment procedures to be implemented;
- STDs and STIs (HIV/AIDS); - Prevention of GBV/CSE/HS/VCE
- Participation of local residents in various meetings;
- Protection of road assets;
- Sustainability of the structure to be constructed.
- Health and safety risks during the post-construction period

The Contractor will conduct its information, awareness-raising, and capacity-building activities under the supervision of the Project Manager and with the approval of the Owner. These activities will include, among others:

- Preparing a communication plan to be submitted to the Project Manager for approval,
- Organizing at least one train-the-trainer workshop on the fight against poaching, illegal logging, unsanitary conditions and pollution of waterways, and the fight against STDs and HIV-AIDS.



The Contractor shall pay particular attention to limiting potential noise nuisances. To this end, it must comply with the noise thresholds prescribed by law.

It shall ensure that the use of noisy machinery is limited to what is strictly necessary and shall shut down those not in use (e.g., generators). Except in emergencies, noise pollution (machinery, vehicles, etc.) near residential areas shall be prohibited from 7 p.m. to 8 a.m., as well as on weekends and public holidays.

The Contractor's personnel working at workstations where noise levels exceed the acceptable standard must undergo hearing tests at frequencies defined by the occupational physician. In the event of concerns, the affected employees must receive medical treatment at the Contractor's expense. These tests must also be conducted before the termination of the contracts. During the construction work, to combat dust and nuisance, the contractor must limit the speed of construction-related traffic to 24 km/h on the streets within a 200-meter radius of the construction site, and limit the speed of all vehicles on the construction site to 16 km/h.

#### IV.3. Storage and Use of Potentially Polluting Substances

In general, the storage and handling of potentially polluting or hazardous substances (oils, fuel, etc.) must comply with the following principles:

- limitation of stored quantities;
- organized storage, on a site or in a manner that does not allow access to anyone outside the construction site;
- handling by responsible personnel equipped with PPE;
- marking of the storage site with a sign indicating the nature of the hazard.
- Liquid chemicals will be stored in a reservoir to prevent accidental spills and soil pollution;
- The chemicals used must be provided with a Safety Data Sheet (SDS) to be displayed at the storage location.

#### IV.4. Fuels and Lubricants

If the contractor uses fuels and lubricants on the construction site, the lubricants will be stored in leak-proof containers placed on a level, clean, and stable surface. The containers will be insulated from the ground by a plastic sheet or absorbent material (sand or sawdust) to allow for the recovery of any accidental spills. Fuels will be stored in tanks in a space designed according to standards. The tank must be placed in a leak-proof collection container, the volume of which is at least two-thirds that of the tank, to contain the liquid in the event of an accidental spill. The entire container must be covered and equipped with firefighting equipment (fire extinguishers, sandboxes). Upon completion of the work, the construction site will be cleared of all traces or by-products.

#### IV.5. Other Potentially Polluting Substances

The use of other potentially polluting substances will be reported to the project manager before their use. The company will provide proof of the legality of their use, and the project manager will notify the relevant technical services for authorization and, if necessary, the prescription of precautionary measures.

#### IV.6. Accidental Pollution Management



#### IV.10. Biodiversity Protection

In addition to complying with the resolutions of the Biodiversity Management Plan, which will be developed and made available to the Contractor, the Contractor must take the following initial measures during the execution of the work:

Prohibit construction site facilities and base camps in the vicinity of the two parks, outside the buffer zones;

- Prohibit the opening of borrow pits and storage areas within the boundaries of said parks;
- Prohibit the search for timber (planks, stakes, and markers) within the said parks and their buffer zones;
- Prohibit the consumption, hunting, and transportation of bush meat by construction site personnel;
- Avoid the installation of certain roadside facilities, including rest areas, toll booths, and weigh stations, within national parks and their buffer zones;
- Obtain permits to search for borrow pits within the parks and buffer zones in accordance with the park's zoning plan;
- Collaborate with park rangers to select areas that can be dedicated to the exploitation of borrow pits, even in critical situations of material shortages;
- Plan, in collaboration with national park rangers, work near parks, taking into account the locations and periods of animal migration during their seasonal migrations;
- Develop tunnels or footbridges, as appropriate, for wildlife crossings, with the collaboration of conservationists who control the crossing points for these animals;
- Post physical signage at park entrances and exits, as well as at animal crossing points;
- Implement facilities such as speed bumps at these points to reduce motorist speeds.
- Develop communication plans and training/awareness sheets/posters in collaboration with conservationists for the benefit of the direct and indirect beneficiaries of the road. These documents should highlight the project's protected species, enforcement measures, and regulatory requirements. Awareness campaigns will be conducted by the conservation team for the benefit of construction personnel, and by a local NGO for the benefit of local communities.
- Adopt educational and awareness-raising measures for staff, subcontractors, and project management to preserve park resources.

#### V. Social Risk and Impact Management: Plan/Program/Measures to Manage Social Risks and Impacts

The Contractor must establish a detailed social management program for the construction site. This detailed program must contain the following Plan/Program/Measures:

##### V.1. Workforce Management Plan/Program/Measures

In its Construction Site ESMP, the Contractor must describe its labor management procedures appropriate to the work and activities, and in accordance with the Project's Labor Management Procedures Manual (if the Project does not have one, the Contractor must prepare one). These procedures will describe how the Contractor's workers will be managed, in accordance with the requirements of national law and World Bank ESS No. 2. They will indicate how this ESS will apply to the Contractor's various categories of workers.

The principles to be followed when developing procedures are as follows:



may be linked to religious, cultural, or ethnic differences, or based on competition for local resources; illicit behavior and criminality; and impacts on community dynamics depending on the number of workers entering and their engagement with the host community. Increased burden and competition for the provision of public services: The presence of workers can generate additional demand for water, electricity, medical services, transportation, education, and social services; communicable diseases and a burden on local health services; an increase in incidents of gender-based violence; increased traffic and related accidents; among others.

This includes, for example, the recruitment of local labor, thereby reducing the contingent of workers from outside the region and, at the same time, reducing the support structure for the work (housing, sanitation, waste, etc.) and also preventing the transfer of transferred assets and minimizing the problems of increased prostitution and violence, among others. The Contractor shall provide training to (i) minimize the potential for the spread of or community exposure to waterborne or vector-borne diseases and infectious diseases due to project activities that may be associated with the influence of temporary or permanent project workers; and (ii) on the worker code of conduct, defining acceptable and appropriate behavior with communities, as well as disciplinary measures.

The Contractor shall not, except as permitted by applicable law, import, sell, give away, or otherwise distribute alcoholic beverages or drugs, nor authorize or permit the importation, sale, gift, exchange, or transfer of these by Contractor Personnel.

### V.3. Gender-Based Violence Prevention and Response Plan/Program/Measures: Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH)

SEA/SH in the workplace are the types of GBV most likely to occur or be exacerbated by the implementation of investment projects. Given the low probability of completely eliminating the risk of SEA/SH, the Bank's environmental and social framework recommends the prevention and mitigation of project-related SEA/SH risks.

The company's contract will include codes of conduct, the templates of which are provided in the appendices to this document. The codes of conduct will be signed and implemented by the company. In addition, the company will implement measures and actions to prevent and address VBG/SEA/HS/VCE risks (gender-based violence, sexual exploitation and abuse, sexual harassment, violence against children) within the work sites as well as the communities impacted by the company's work.

Three codes of conduct are recommended: a code of conduct for companies, an individual code of conduct, and a code of conduct for managers. These codes bind companies (and their subcontractors, if applicable) and their employees to GBV issues.

The action plan to be implemented for the company will be based primarily on the Project's GBV Action Plan, which includes, among other things, community awareness-raising, training for company employees and subcontractors and other stakeholders, and the implementation of a grievance mechanism with a mechanism for addressing GBV/CSA/SH complaints in accordance with a survivor-centered approach.

Contractor Personnel must be informed, at the time of their engagement, of the SEA/SH Response Mechanism, which includes the principles, practices, roles, and responsibilities for mitigating and responding to cases of gender-based violence for the Contract. They must also be informed of the GBV:SEA/SH Complaint Management Mechanism and the measures in place to protect them from any retaliation for its use. For all other persons (including the Employer's Personnel and affected communities), information about this SEA/SH Response Mechanism, including how to submit an



The Contractor shall also ensure that the speeds of various vehicles and machinery are limited (less than 40 km/h). Similarly, it shall ensure that all temporary diversions are identified in collaboration with local residents and do not affect sensitive areas. In addition to the construction site signs bearing the project references, the Company is also responsible for installing safety signs, such as those prohibiting access to the construction site by outsiders or those relating to traffic (truck exit, speed limit, caution during construction, etc.).

- The following measures must also be taken: Ensure the safety of traffic, pedestrians, livestock farmers and their herds on all construction and installation sites, through signage, installation of protection and guardrails, temporary crossings, etc., by redirecting their traffic to the least dangerous side of the work roads;

- Train personnel, particularly drivers, to respect pedestrians and herds of animals;

- Trenches will be surrounded by solid barriers, if necessary;

- Barriers and walkways will be lit at night;

- Ensure the required signage and security;

- Provide adequate warning of work. - Ensure the passage of vehicles, unless absolutely impossible;

- Roads will not be cut at any one time for more than half their width;

- Trenches along roads and affecting their right-of-way will not be opened for a length exceeding 200 m;

- Protect from any damage the walls of residents' homes, public highway structures such as curbs, boundary stones, etc., electrical or telephone lines, and pipes and cables of any kind found in the ground;

- Maintain in working order, throughout the duration of the work, the existing cables, pipes, and installations ensuring the distribution of drinking water or the evacuation of wastewater.

- The Contractor shall not give, barter, or otherwise transfer any weapons or ammunition of any kind to anyone, or allow its personnel to do so.

**V.5. Plan/Program/Measures** for managing the occupation of people in the right-of-way: restriction of access for local residents to their residences or businesses and/or right-of-way or transit easements (See also the Resettlement Plan for sub-projects, as applicable).

The Contractor must be aware that the public utility area related to the operation is the area likely to be affected by the work. Work may only begin in areas affected by private rights-of-way when these rights-of-way are vacated following an acquisition procedure that is the responsibility of the Government/Borrower.

Before starting work, the Contractor must prepare a procedure for identifying the concessionaires' networks (drinking water, electricity, telephone, sewer, etc.) on a plan, which will be formalized by a report signed by all parties (Contractor, Project Manager, concessionaires). The Contractor shall take all necessary precautions to prevent any type of damage to persons or property of any kind, including properties adjacent to the work, and shall be solely and exclusively responsible for repairing any damage or injury caused by and/or its work.

The Contractor may only commence work in areas where it is necessary to permanently restrict access to the land once the dispossession or physical displacement and subsequent clearance of the areas for the work have been completed, which shall be the responsibility of the Contractor. To this end, the



- Resume work only after receiving authorization from the relevant authorities.

#### **V.7. Social Communication Plan/Program/Measures**

The Contractor will prepare a Social Communication Program (SCP) aimed at informing the surrounding population about the specific aspects of the work before it begins. The SCP will inform the communities (i) of the work schedule and their needs (e.g., access restrictions, etc.); (ii) the progress of the work and the scheduling of new front openings, the need to stop work or interrupt traffic; (iii) preventive measures to be adopted to ensure the protection of the environment and local populations; and (iv) channels and means of communication through which the population can express their doubts, complaints, and suggestions.

The PCS will include the production and printing of posters, leaflets, brochures, and other graphic materials, which will be distributed to the community and placed in locations that provide access to information for all. This material must receive the Contractor's prior approval before its distribution.

#### **V.8. Grievance Management Plan/Program/Measures: Grievance Management Mechanism (GMM)**

The Contractor shall organize and manage a grievance management system for cases that may arise during the execution of the work. The Contractor shall be responsible for registering the grievance in accordance with the Project's GMM, including the date of its execution, the response and date to the complainant, or the referral of the complaint to the Contractor, if it is not within its area of expertise. Similarly, the Contractor shall provide a mechanism for easy access to complaints from workers and their organizations, independent of other legal remedies, so that they can express their concerns regarding working conditions, with a guarantee of return to the complainants, without any retaliation. This mechanism shall be linked to the GMM established by the Project to ensure transparency and efficiency in responding to and resolving grievances/grievances. To this end, the PMU will be involved in collecting, processing, and archiving complaints/grievances at all levels, in accordance with the PMM and MGPT.

A spreadsheet containing cases and information on their processing and resolution will be presented to the project manager and the client on a monthly basis.

Complaints, in accordance with the Project PMM, may be submitted in person at the construction site, using the telephone provided by the contractor, or via the Project-enabled telephone and channels.

The Contractor will disclose the complaint channels through signs to be installed at least on the construction site and in easily understandable graphic documents produced as part of the communication program. On construction sites, MGP information panels will be removable for temporary sites and, depending on the duration of the work, for permanent sites. They will be fixed and placed in frequently visited locations and easily accessible to all persons with access to the sites (e.g., entrances to construction sites and living quarters, construction site notice boards, etc.).

Complaints will be analyzed and resolved according to their nature and complexity. Complaints handled by the Contractor generally include elements related to the risks and direct impacts of the work, inappropriate conduct with the communities, risks to the health and safety of the community that could be caused by the project's activities, equipment, and infrastructure, and potential community exposure to disease.

The Contractor will systematically record all complaints submitted to the project owner for cases that do not fall within its resolution coverage. A plan containing the cases that have arisen, along with information on the process and resolution, will be submitted to the project owner on a monthly basis.



- Description of collective protective equipment at the workplace; - A presentation of the medical system in the area of activity (medical equipment, medical personnel, treatment center, emergency medical evacuation procedure);

- A description of the internal organization and actions to be taken in the event of an accident or incident.

- Workforce management plan/program/measures;
- Workforce influx management plan/program/measures;
- Gender-Based Violence prevention and response plan/program/measures: Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH);
- Personal and property damage prevention plan/program/measures;
- Right-of-Way occupation management plan/program/measures: restriction of access for residents to their residences or businesses and/or right-of-way or transit easements (See also the Sub-Project Resettlement Plan, as applicable);
- Cultural Heritage Management Plan/Program/Measures;
- Social Communication Plan/Program/Measures;
- Complaints Management Plan: Complaints Management Mechanism (MGP)
- Fines and Penalties;

#### 5) Responsibilities for implementing the construction site ESMP

The responsibility for implementing the construction site ESMP must:

- o provide a precise description of the entity responsible for implementing mitigation and monitoring measures
- o specify staff training and any additional measures that may be necessary to support the implementation of mitigation measures and any other recommendations of environmental and social significance.

#### 6) Implementation schedule and cost estimate.

A schedule for implementing the measures to be taken within the project, indicating the various stages and coordination with the overall project implementation plans. An estimate of its investment and recurring costs, as well as the sources of financing for ESMP implementation.

#### 7) Monitoring plan

The ESMP must define the monitoring objectives and indicate the nature of the actions carried out in this regard, linking them to the effects examined in the environmental and social assessment and the mitigation measures described. It shall provide:

- a) a detailed and technical description of the monitoring measures, including the parameters to be measured, the methods to be used, the sampling locations, the frequency of measurements, the detection limits (if applicable), and a definition of thresholds that will indicate the need to apply corrective measures; and
- b) monitoring and reporting procedures to: i) ensure timely detection of conditions that require specific mitigation measures, and ii) provide information on the progress and results of the mitigation actions.
- c) An estimate of its investment cost and recurrent costs, as well as the sources of financing for its implementation.



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| 13. <b>Reacts with water</b>             | Substances and preparations which, upon contact with water, air, or an acid, emit a toxic or very toxic gas  |
| 14. <b>Sensitizer</b>                    | Substances and preparations which, upon inhalation or penetration through the skin, may give rise to a hyper sensitization reaction such that further exposure to the substance or preparation produces characteristic adverse effects. This property should only be considered if test methods are available. |
| 15. <b>Eco toxic</b>                     | Substances and preparations that present or may present immediate or delayed risks to one or more components of the environment.   |
| 16. <b>Dangerous for the environment</b> | Substances and preparations that may, after disposal, give rise, by any means whatsoever, to another substance, for example a leaching product, which has one of the characteristics listed above.   |

#### Appendix 4: Risk Management of Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH)

In accordance with Section III, Qualification Criteria and Requirements. Form ANT-4

Statement on Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) and Declaration Form on Sexual Exploitation and Abuse and/or Sexual Harassment (or equivalent depending on the Tender Document), the Contractor must apply the following codes of conduct:

#### Appendix 5. Codes of Conduct

In accordance with the content of the Gender-Based Violence Prevention and Response Plan/Program: Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH) (see subsection V.2.3), three codes of conduct are recommended. These are: a code of conduct for companies, an individual code of conduct, and a code of conduct for managers. These codes bind companies (and their subcontractors, if applicable) and their employees to GBV issues.

#### (i) COMPANY CODE OF CONDUCT

##### **Commitment**

The company undertakes to ensure that the project is implemented in a manner that minimizes any negative impact on the local environment, communities, and its workers. To achieve this, the company will comply with environmental, social, health, and safety (ESHS) standards and ensure that appropriate occupational health and safety (OHS) standards are met. The company also commits to creating and maintaining an environment in which Gender-Based Violence (GBV), including Sexual Exploitation and Abuse (SEA), Sexual Harassment (SH), and Violence Against Children (VAC), do not occur—they will not be tolerated by any employee, subcontractor, supplier, associate, or representative of the company.

Therefore, to ensure that everyone involved in the project is aware of this commitment, the company commits to adhering to the following fundamental principles and minimum standards of behavior, which will apply without exception to all employees, associates, and representatives of the company, including subcontractors and suppliers.

#### **DEFINITIONS OF TERMS**



**Sexual exploitation:** This is defined as the abuse of a position of vulnerability, authority, or trust for sexual purposes, particularly for financial, social, or political gain.

**Manager (project manager or works manager):** Any person providing labor to a company or consultant, on or off-site, under a formal or informal employment contract and in exchange for a salary, with responsibility for controlling or directing the activities of the team, unit, division, or similar entity of a company or consultant, and with responsibility for supervising and managing a predefined number of employees.

**Occupational Health and Safety (OHS):** A set of measures designed to protect the safety, health, and well-being of those working or employed on the project. Compliance with these standards at the highest level is a fundamental human right that should be guaranteed to every worker.

**Grievance and Complaints Management Mechanism (GCM):** A process established by a project to receive and address complaints.

**Accountability and Confidentiality Measures:** Refers to the preservation of the privacy and confidentiality of the survivor at all stages of the intervention by ensuring that the identity of those involved is respected. The measures instituted hold contractors, consultants, and the client accountable for establishing a fair system for handling GBV, SEA, and HS cases.

**Environmental, Social, Health, and Safety (ESHS) Standards:** A general term covering issues related to the project's impact on the environment, communities, and workers.

**Company Environmental and Social Management Plan (CESMP):** The plan prepared by the company that describes how it will carry out construction activities, in accordance with the project's Environmental and Social Management Plan (ESMP).

**GBV/SEA/SH and VAC Allegations Procedure:** The prescribed procedure for reporting incidents of GBV/SEA/SH or VAC.

**Child Protection:** An activity or initiative aimed at protecting children from all forms of harm, particularly those resulting from VAC.

**Response Protocol:** Mechanisms in place to respond to GBV/SEA/SH and VAC incidents.

**Child sexual solicitation:** This behavior allows an abuser to gain a child's trust for sexual purposes. This allows an offender to establish a relationship of trust with the child and then seek to sexualize that relationship.

**Online child solicitation:** This involves sending electronic messages with indecent content to a recipient the sender believes to be a minor, with the intention of inducing the recipient to engage in or submit to sexual activity.

**Survivors:** Individuals negatively affected by GBV/SEA/SH or VAC. Women, men, and children can be survivors of GBV/SEA/SH; only children can be survivors of VAC.

**Gender-Based Violence (GBV):** An umbrella term that refers to any harmful act perpetrated against a person's will and based on societal differences between men and women (gender). It includes acts that cause physical, sexual, or psychological harm or suffering, the threat of such acts, coercion, and other forms of deprivation of liberty. These acts can occur in the public or private sphere (Inter-Agency Standing Committee (IASC), 2015).

The six main types of GBV are:



The following acts of discrimination, harassment, and violence are strictly prohibited and severely punished for all project stakeholders (members of the educational community). 1. Any act of discrimination in interactions with project beneficiaries or members of the local community, or among staff (of the host company, training center, etc.) based on race, color, sex, age, religion, language, marital status, family status, political belief, national, ethnic, or social affiliation, physical or mental disability, birth, sexual orientation, gender identity, or any other status.

2. Any act of sexual harassment, or inappropriate, harassing, threatening, abusive, sexually provocative, degrading, or culturally inappropriate language or behavior.

3. Any act of violence, including sexual and/or gender-based violence, that may cause physical, psychological, or sexual harm, the threat of such acts, coercion, and deprivation of liberty. 4. Any act of exploitation or abuse of power, including sexual exploitation and abuse, such as the exchange of money, employment, goods, or services for sex, including sexual favors or other forms of humiliating, degrading, or abusive behavior.

5. The employment and exploitation of children within the company, including sexual abuse or other inappropriate behavior towards children, including sexual intercourse and early marriage; in addition, the safety and protection of children in the project areas and surrounding areas must be ensured.

Committing the prohibited acts listed above will be immediately punished by dismissal upon first discovery of the offense, with the transmission of the characteristic elements of the offense for legal proceedings by the competent public authority if reported (with the informed consent of the survivor).

In addition, any repeated act of harassment that has the purpose or effect of degrading working conditions likely to violate rights and dignity, harm physical health, or compromise professional future will be subject to disciplinary action.

Finally, no employee may be disciplined, dismissed, or subjected to discriminatory measures for having undergone or refused to undergo the acts or behaviors defined above, or for having witnessed such acts or behaviors, reported them, or reported them to their superiors.

#### General

- The company—and consequently all employees, partners, representatives, subcontractors, and suppliers—is committed to complying with all national laws, rules, and regulations specific to environmental, social, and GBV standards.

- The company is committed to fully implementing its "Environmental and Social Management Plan" (PGESE).

- The Company is committed to treating women, children (persons under the age of 18), and men with respect, regardless of race, color, language, religion, political or other opinion, national, ethnic, or social origin, wealth, disability, citizenship, or any other status. Acts of GBV/SEA/HS and VCE constitute a violation of this commitment.

- The Company ensures that interactions with members of the local community are conducted with respect and without discrimination.

- Language and behavior that is demeaning, threatening, harassing, abusive, inappropriate, or culturally or sexually inflammatory are prohibited among all Company employees, associates, and representatives, including subcontractors and suppliers.



Managers will ensure that no retaliatory actions (suspension or other sanctions) are taken against individuals who report suspected or actual acts of GBV/SEA/HSV/VC.

### III.1.5. Implementation

1. To ensure that the principles set out above are effectively implemented, the company undertakes to ensure that:

- All managers sign the project's "Manager Code of Conduct," which details their responsibilities and involves implementing the company's commitments and enforcing the obligations of the "Individual Code of Conduct."
- All employees sign the project's "Individual Code of Conduct," confirming their commitment to complying with ESHS and OHS standards and not being perpetrators or accomplices of GBV/SEA/HS or VAC.
- The company and individual Codes of Conduct must be prominently displayed in worker camps, offices, and public areas of the workplace. Examples of these areas include site waiting, rest, and reception areas, canteens, and health centers.
- Posted and distributed copies of the Company Code of Conduct and the Individual Code of Conduct must be translated into both official languages and in formats understandable by individuals with limited or no reading skills in the official languages.
- A designated individual must be appointed as the company's "Focus Point" for addressing GBV/SEA/HSV and VCE issues, including representing the company on the GBV/SEA/HSV and VCE Compliance Team (CT), which is composed of representatives from the partner and from the sectors or organizations involved in combating GBV/SEA/HSV and VCE in the activity's area of operation.

In consultation with the Compliance Team (CT), an effective Action Plan must be developed, including at least the following provisions:

- The GBV/SEA/SM and VAC Incident Allegations Procedure: to report GBV/SEA/SM and VAC incidents through the Complaints/Grievances Management Mechanism;
- Accountability and Confidentiality Measures: to protect the privacy of all concerned;
- The Response Protocol: applicable to survivors and perpetrators of GBV/SEA/SM and VAC.

The company must effectively implement the GBV/SEA/SM and VAC Action Plan, communicating any improvements and updates to the Compliance Team (CT), as appropriate. All employees must complete an orientation course before starting work on the site to ensure they are aware of the company's commitments to ESHS and OHS standards, as well as the project's Codes of Conduct on GBV/SEA/HS and VCE.

All employees must complete a mandatory training course once a month throughout the contract period, beginning with an initial training session upon commissioning before work begins, to reinforce their understanding of the project's ESHS and OHS, GBV/SEA/HS and VCE standards.

2. Ensure that:

- i. Staff lists and signed copies of the code of conduct are provided to the project's Human Resources officers;
- ii. Staff participate in capacity-building sessions for the implementation of the code of conduct;



**Sexual Harassment (SH):** Any sexual advance, request for sexual favors (e.g., making promises of favorable treatment or threats of unfavorable treatment based on sexual acts), and any other unwanted verbal or physical behavior or gesture of a sexual nature that could reasonably be perceived to offend or humiliate another person, when such behavior disrupts work, is made a condition of employment, or creates an intimidating, hostile, or offensive work environment. Sexual harassment is not always explicit or obvious; it can include implicit and subtle acts, but it always involves power and gender dynamics in which a person in power uses their position to harass another based on their gender. Sexual behavior is unwanted when the person subjected to it deems it undesirable (e.g., looking someone up and down, kissing or blowing kisses; making sexual innuendos by making noises; brushing against someone; whistling and catcalling; giving personal gifts). Both women and men can experience SH.

**Perpetrator/Aggressor:** The person(s) who commit(s) or threaten(s) to commit an act(s) of GBV/SEA/HS or VAC.

**Survivor(s):** The person(s) negatively affected by GBV, SEA, or HS.

**Worksite:** The location where infrastructure development work is taking place on behalf of the project. Consulting assignments have the locations/sites where they are carried out as worksite(s).

**Consent:** Is the informed choice underlying a person's free and voluntary intention, acceptance, or agreement. Consent cannot be considered when such acceptance or agreement is obtained through threats, force, or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if the national law of the country where the Code of Conduct is introduced considers the age of consent to be lower. Lack of knowledge of the child's age and the child's consent cannot be invoked as a defense.

**Consultant:** Any organization or individual that has been contracted to provide consulting services for the project and has hired managers and/or employees to perform this work.

**Employee:** Any person who provides labor to the firm or consultant in the country, on the project site, or elsewhere, under a contract or employment agreement for remuneration, whether formally or informally (including unpaid interns and volunteers), without management or supervisory responsibility over other employees.

**Child:** A term used interchangeably with the term "minor," which refers to a person under the age of 18. This is in accordance with Article 1 of the United Nations Convention on the Rights of the Child.

**Contractor:** Any business, corporation, organization, or other institution that has been awarded a contract to provide construction services for the project and has hired managers and/or employees to perform this work. This includes subcontractors hired to perform activities on behalf of the contractor.

**Site environment:** The "project area of influence," which is any location, urban or rural, directly affected by the project, including human settlements.

**Sexual Exploitation:** This is defined as the abuse of a position of vulnerability, authority, or trust for sexual purposes, particularly for financial, social, or political gain.

**Manager (project manager):** Any person providing labor to a company or consultant, on or off-site, under a formal or informal employment contract and in exchange for a salary, with responsibility for controlling or directing the activities of the team, unit, division, or similar entity of a company or consultant, and with responsibility for supervising and managing a predefined number of employees.



- Physical assault: an act of physical violence that is not sexual in nature. Examples include hitting, slapping, strangling, hurting, shoving, burning, shaking, shooting or using a weapon, acid attack, or any other act that causes pain, physical discomfort, or injury.
- Forced marriage: the marriage of an individual against their will.
- Deprivation of resources, opportunities, or services: deprivation of legitimate access to economic resources/assets or livelihoods, education, health, or other social services.
- Psychological/emotional abuse: the infliction of mental or emotional pain or harm. Examples include threats of physical or sexual violence, intimidation, humiliation, forced isolation, harassment, stalking, unwanted solicitation, verbal abuse, destruction of cherished possessions, etc.
- Child: A term used interchangeably with the term "minor," which refers to a person under the age of 18. This is in accordance with Article 1 of the United Nations Convention on the Rights of the Child.
- Consent: The informed choice underlying a person's free and voluntary intention, acceptance, or agreement. Consent cannot exist when such acceptance or agreement is obtained by threat, force, or other forms of coercion, abduction, fraud, deception, or misrepresentation. In accordance with the United Nations Convention on the Rights of the Child, the World Bank considers that consent cannot be given by children under the age of 18, even if the national law of the country where the Code of Conduct is introduced considers consent to be a lower age. Lack of knowledge of the child's age and the child's consent cannot be invoked as a defense. - Violence Against Children (VAC): physical, sexual, emotional, and/or psychological harm, neglect, or negligent treatment of minor children (i.e., children under the age of 18). This includes the use of children for profit, labor, sexual gratification, or any other personal or financial gain. It also includes other activities such as the use of computers, mobile phones, video devices, digital cameras, or any other means to exploit or harass children or to access child pornography.
- Human Trafficking: recruitment, transportation, harboring, or receipt of persons by means of the threat or use of force or other forms of coercion, through abduction, fraud, deception, the abuse of power or a position of vulnerability, or the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purpose of exploitation. Exploitation includes, at a minimum, the exploitation of the prostitution of others or other forms of sexual exploitation, forced labor or services, slavery or practices similar to slavery, servitude, or organ removal.

## **PRINCIPLES, MORAL VALUES, ETHICS, AND ATTITUDES TO BE RESPECTED**

Project workers and all project implementation stakeholders are obligated to respect the principles and moral values to facilitate academic and professional life and to protect learners from all forms of abuse, including gender-based violence (GBV), sexual exploitation and abuse (SEA), sexual harassment (SH), and violence against children (VCE).

The acts of discrimination, harassment, and violence listed below are strictly prohibited and severely punished for all project stakeholders (members of the educational community).

1. Any act of discrimination in interactions with project beneficiaries or members of the local community, or among staff (of the host company, training center, etc.) based on race, color, sex, age, religion, language, marital status, family status, political belief, national, ethnic, or social affiliation, physical or mental disability, birth, sexual orientation, gender identity, or any other status.
2. Any act of sexual harassment, or inappropriate, harassing, threatening, abusive, sexually provocative, degrading, or culturally inappropriate language or behavior.



- Explain the Corporate Code of Conduct and the Individual Code of Conduct to all staff, both orally and in writing.
- Ensure that:
  - o All direct reports sign the "Individual Code of Conduct," confirming that they have read and agree to it;
  - o Staff rosters and signed copies of the Individual Code of Conduct are provided to the HST manager, the Compliance Team (CT), and the client;
- Participate in and ensure staff participate in training, as outlined below;
- Establish a mechanism for staff to:
  - Report concerns related to compliance with ESHS standards or HST requirements; and
  - Confidentially report incidents related to GBV/SEA/HS or VCE through the Complaints/Grievances Management Mechanism
  - Encourage staff members to report suspected and substantiated issues related to ESHS standards and HST requirements, GBV/SEA/HS or VCE, emphasizing staff accountability to the company and respecting the principle of confidentiality.
  - In accordance with applicable laws and to the best of their ability, prevent perpetrators of sexual exploitation and abuse from being hired, rehired, or deployed. Conduct background and criminal record checks on all employees.
  - Ensure that when entering into partnership, subcontracting, supplier, or similar agreements, these agreements:
    - o Include as annexes the codes of conduct on ESHS standards, HST requirements, GBV/SEA/HS, and VAC;
    - o Include appropriate language requiring these contracting entities and contracted individuals, as well as their employees and volunteers, to comply with the Individual Code of Conduct;
    - o Expressly state that the failure of these entities or individuals, as applicable, to ensure compliance with ESHS standards and HST requirements; to take preventive measures to combat GBV/SEA/HS and VAC; to investigate related allegations or take corrective action when acts of GBV/SEA/HSV and VAC are committed – all of which constitute not only grounds for sanctions and penalties in accordance with the Individual Codes of Conduct, but also grounds for termination of project employment or service contracts.
  - Provide support and resources to the GBV/SEA/HSV and VAC Compliance Team (CT) to create and disseminate internal awareness-raising initiatives through the awareness-raising strategy within the GBV/SEA/HSV and VAC Action Plan.
  - Ensure that any GBV/SEA/HSV or VAC issues warranting police intervention are immediately reported to the police, the client, and the World Bank, while respecting the wishes of the victim.
  - Report and respond to any suspected or actual acts of GBV/SEA/HS and/or VCE in accordance with the Response Protocol, as managers are responsible for enforcing the company's commitments and holding their subordinates directly accountable for their actions.



- Once a sanction has been determined, the managers concerned are expected to be personally responsible for ensuring that it is effectively implemented, within a maximum of 14 days following the date on which the sanction decision was issued;

- If a manager has a conflict of interest due to personal or family relationships with the survivor(s) and/or the perpetrator of the violence, they must inform the company concerned and the Compliance Team (CT). The company will be required to designate another manager who has no conflict of interest to handle complaints;

- Ensure that any GBV/SEA/HSV or VAC issues that warrant police intervention (after obtaining the survivor's consent) are immediately reported to the police, the client, and the World Bank.

Managers who fail to address incidents related to ESHS standards or HST requirements, or who fail to report incidents related to GBV/SEA/HSV and VAC, or who fail to comply with the provisions related to GBV/SEA/HSV and VAC, may be subject to disciplinary action, which will be determined and issued by the Chief Executive Officer (CEO), the Managing Director, or an equivalent senior manager of the company. These measures may include:

- Informal warning;
- Formal warning;
- Additional training;
- Loss of up to one week's pay;
- Suspension from employment (without pay), for a minimum period of one month and a maximum period of six months;
- Referral to the police or other authorities, if necessary, only with the survivor's consent.
- Termination of employment.

Finally, failure by company managers or the CEO to effectively address ESHS and STI non-compliance, and to address GBV/SEA/STI and VCE in the workplace, may result in legal action before national authorities.

I hereby acknowledge that I have read the above Manager's Code of Conduct, agree to comply with the standards contained therein, and understand my roles and responsibilities in preventing and responding to ESHS, STI, GBV/SEA/STI, and VCE requirements. I understand that any action inconsistent with the Manager's Code of Conduct or failure to act in accordance with this Manager's Code of Conduct may result in disciplinary action.

Signature: \_\_\_\_\_

Name (all) letters: \_\_\_\_\_

Title: \_\_\_\_\_

Date : \_\_\_\_\_



**Contractor:** Any business, corporation, organization, or other institution that has been awarded a contract to provide construction services for the project and has hired managers and/or employees to perform this work. This includes subcontractors hired to perform activities on behalf of the contractor.

**Site environment:** The "project area of influence," which is any location, urban or rural, directly affected by the project, including human settlements.

**Sexual Exploitation:** This is defined as the abuse of a position of vulnerability, authority, or trust for sexual purposes, particularly for financial, social, or political gain.

**Manager (project manager):** Any person providing labor to a company or consultant, on or off-site, under a formal or informal employment contract and in exchange for a salary, with responsibility for controlling or directing the activities of a company's or consultant's team, unit, division, or similar entity, and with responsibility for supervising and managing a predefined number of employees.

**Occupational Health and Safety (OHS):** A set of measures designed to protect the safety, health, and well-being of those working or employed on the project. Compliance with these standards at the highest level is a fundamental human right that should be guaranteed to every worker.

**Complaints and Grievance Mechanism (CGM):** A process established by a project to receive and address complaints.

**Accountability and Confidentiality Measures:** Refers to the preservation of the privacy and confidentiality of the survivor at all stages of the intervention by ensuring that the identity of those involved is respected. The measures established hold contractors, consultants, and the client accountable for implementing a fair system for addressing GBV, SEA, and SH cases.

**Environmental, Social, Health, and Safety (ESHS) Standards:** A general term covering issues related to the project's impact on the environment, communities, and workers.

**Corporate Environmental and Social Management Plan (PGESE):** The plan prepared by the company that describes how it will carry out construction activities, in accordance with the project's Environmental and Social Management Plan (PGES).

**GBV/SEA/HS and VAC Allegations Procedure:** The prescribed procedure for reporting GBV/SEA/HS or VAC incidents.

**Child Protection:** An activity or initiative aimed at protecting children from all forms of harm, particularly those resulting from VAC.

**Intervention Protocol:** Mechanisms in place to respond to GBV/SEA/HS and VAC incidents.

**Sexual Solicitation of Children:** These behaviors allow an abuser to gain the trust of a child for sexual purposes. This allows an offender to establish a relationship of trust with the child and then seek to sexualize that relationship.

**Online child solicitation:** This is the sending of electronic messages with indecent content to a recipient believed by the sender to be a minor, with the intention of inducing the recipient to engage in or submit to sexual activity.

**Survivors:** Individual(s) negatively affected by GBV/SEA/SH or VAC. Women, men, and children can be survivors of GBV/SEA/SH; only children can be survivors of VAC.



exploitation, forced labor or services, slavery or practices similar to slavery, servitude, or the removal of organs.

## **PRINCIPLES, MORAL VALUES, ETHICS, AND ATTITUDES TO BE RESPECTED**

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2. Any act of sexual harassment, or inappropriate, harassing, threatening, abusive, sexually provocative, degrading, or culturally inappropriate language or behavior.
3. Any act of violence, including sexual and/or gender-based violence, that may cause physical, psychological, or sexual harm, the threat of such acts, coercion, and deprivation of liberty.
4. Any act of exploitation or abuse of power, including sexual exploitation and abuse, such as the exchange of money, employment, goods, or services for sex, which includes sexual favors or other forms of humiliating, degrading, or abusive behavior.
5. The employment and exploitation of children within the company, which includes sexual abuse or other inappropriate behavior towards children, including sexual intercourse and early marriage: In addition, the safety and protection of children in the project areas and also in the surroundings of the project must also be ensured.

The commission of the prohibited acts listed above will be immediately punished by dismissal upon first discovery of the misconduct, with the transmission of the characteristic elements of the misconduct for legal proceedings by the competent public authority if reported (with the informed consent of the survivor).

In addition, any repeated act of harassment whose purpose or effect is a deterioration of working conditions likely to violate rights and dignity, impair physical health, or compromise professional future will be subject to disciplinary action.

Finally, no employee may be disciplined, dismissed, or subjected to discriminatory measures for having undergone or refused to undergo the acts or behaviors defined above, or for having witnessed such acts or behaviors, reported them, or reported them to their superiors.



promise to actually provide a benefit (monetary or non-monetary) to community members in exchange for sexual activity – such sexual activity is deemed "non-consensual" under this Code;

- Report through the Complaints/Grievances Mechanism or to my manager/project manager any suspected or proven case of GBV/SEA/SM or VAC committed by a coworker, whether or not they are employed by my company or the project, or any violation of this Code of Conduct.

With respect to children under the age of 18:

- Where possible, ensure the presence of another adult when working near children.
- Do not invite unaccompanied, unrelated children into my home unless they are at immediate risk of injury or physical danger;
- Do not use computers, mobile phones, video devices, digital cameras, or any other media to exploit or harass children or to access child pornography (see also the section "Use of Images of Children for Employment" below);
- Refrain from corporal punishment or disciplinary measures against children;
- Refrain from hiring children under the age of 14 for domestic work or any other work, unless national law sets a higher age or exposes them to a significant risk of injury;
- Comply with all local laws, including labor laws related to child labor and the World Bank's child labor standards and Minimum age;
- Take the necessary precautions when photographing or filming children.

#### Use of Images of Children for Professional Purposes

When photographing or filming a child for professional purposes, I must:

- Before photographing or filming a child, assess and strive to respect local traditions or restrictions regarding the reproduction of personal images;
- Before photographing or filming a child, obtain the informed consent of the child and a parent or guardian; to do this, I must explain how the photograph or film will be used;
- Ensure that photographs, films, videos, and DVDs depict children in a dignified and respectful manner, and not in a vulnerable or submissive manner; children must be appropriately dressed and not pose in a manner that could be considered sexually suggestive;
- Ensure that images are honest representations of the context and facts;
- Ensure that file labels do not reveal information that could identify a child when sending images electronically.

#### Sanctions

I understand that if I violate this Individual Code of Conduct, my employer will take disciplinary action, which may include:

- Informal warning;
- Formal warning;
- Additional training;
- Loss of up to one week's pay;



## Appendix 6: Notification form and rapid incident report and action plan XXX

RAPID INCIDENT NOTIFICATION AND REPORT FORM AND ACTION PLAN (NOT APPLICABLE TO GENDER-BASED VIOLENCE)		
<b>IDENTIFICATION DE L'INCIDENT</b>		
Projet:		
Incident:	Provide the type	
<input type="checkbox"/> Environmental		
<input type="checkbox"/> Social		
<input type="checkbox"/> Health and safety at work		
Date and time of incident:		
Place of occurrence:		
Source of incident/accident information:		
Appendix: Documents relating to the event/incident:		
Attach all relevant documents to the report and name them here		
<b>DESCRIPTION OF THE INCIDENT</b>		
Incident severity level	Geographic scope of the incident	Relationship to the project
<input type="checkbox"/> Indicative	<input checked="" type="checkbox"/> Capital	<input checked="" type="checkbox"/> Related to the project
<input type="checkbox"/> Serious	<input type="checkbox"/> Region	<input checked="" type="checkbox"/> Not related to the project
<input checked="" type="checkbox"/> Grave		
<b>Detailed description of the incident</b> Don't repeat the information about what the incident was, when it occurred, and where it occurred, as this is already more detailed. Focus on providing information about how the incident occurred and its causes, including whether it could have been avoided (because measures were in place) or was a random event.		
<b>INCIDENT RESPONSE ACTIONS</b>		
Status of the resolution	Explain	
<input type="checkbox"/> Resolution		



<input type="checkbox"/> YES		In case of recurrence, indicate the period during which the incidents/accidents occurred again	
<b>OTHER CONSIDERATIONS</b>			
<b>CORRECTIVE ACTION PLAN FOR THE INCIDENT/ACCIDENT</b>			
Add the necessary lines			
<b>Description/ cause of the incident</b>	<b>Corrective measures</b>	<b>Implementation Manager(s)</b>	<b>Date limite</b>
<b>REPORT AND ACTION PLAN PREPARED BY:</b>			
<b>Name</b>			
<b>Signature</b>		<b>Date</b>	
<b>Name</b>			
<b>Signature</b>		<b>Date</b>	

**Schedules of unit prices for.....**  
 (Insert a here)



**SCHEDULE OF UNITE PRICE FOR THE CONSTRUCTION OF A BOREHOLE EQUIPPED WITH SOLAR PUMPING SYSTEM AT NJIFORWANG QUARTER IN BALIKUMBAT MUNICIPALITY**

N°	DESIGNATION	Unit	unit Price in figures	Unit Price in words
100	<b>HYDROLOGICAL STUDIES/SITE INSTALLATION/BOREHOLE INSTALLATION</b>			
101	Site Installation	FF		
101	Bringing in and removing equipment	FF		
102	Electrical surveying and hydrogeological studies	FF		
103	Execution project	FF		
105	Installation of structures	FF		
106	Execution program and As-build plan	FF		
200	<b>CONSTRUCTION OF BOREHOLE</b>			
A	<b>FORATION</b>			
201	Rotary drilling in sedimentary terrain in $\Phi$ 9" 7/8 or 12" 1/4	ml		
202	Installation an removal of temporary steel or solid PVC CASTING 175-195 mm195 mm	ml		
203	Drilling of the base with a down-the-hole hammer (DTH) in 6"1/2 à 6"3/4	ml		
B	<b>EQUIPEMENT-DEVELOPPEMENT-PUMPING</b>			
204	Supply and installation of solid PVC of $\Phi$ 112/125mm at 10 bars of pressure	u		
205	Supply and installation of $\Phi$ 112/ 125mm PVC screens at 10 bars of pressure	u		
206	Supply and installation of a 1-3 mm calibrated river gravel filter bed	ml		
207	Supply and installation of a clay plug	u		
208	Backfilling with all-run material	ml		
209	Cementing of the 5m deep borehole head	ml		
210	Cleaning and development with air lift	Hr		
211	Long term pumping test of the C.I.E.H type	Hr		
212	Treatment and Disinfection	FF		
213	Physicochemical and bacteriological analyses of the water	FF		
214	Fitting out the borehole head with 20x20x40 packed blocks measuring 1mx1mx1m, covered with a 6cm thick slab	FF		
300	<b>SUPPLY AND INSTALLATION OF DRILLING MEANS</b>			
301	Supply and installation of a GRUNDFOS SQF1.2-2 solar submersible pump and a GRUNDFOS control box, automated electrical control with CU200 float input, switch IO 100- IO-101, including probe and all installation requirements	u		
302	Supply and installation of pressure gauge	u		
303	Supply of a non-return valve at the borehole outlet	u		
304	Supply and installation of PEHD drainage pipe, diameter 32mm PN10 with connection accessories (safety rope, safety collar, sheaths, inter pipe connector) including all installation requirements.	ml		



608	Rendering of the exterior walls with a mortar dosed at 400kg/m <sup>3</sup> including all implementation requirements.	m <sup>2</sup>		
609	Application food-grade paint to the interior walls. Including all implementation requirements.	m <sup>2</sup>		
610	Elevations of the technical room in 15 cm block board	m <sup>2</sup>		
611	Supply of and putting in place 15 cm thick vibrated mortar screen for the technical room opening	m <sup>2</sup>		
612	Rendering of the interior and exterior walls and slab of the technical room with a mortar dosage of 400kg/m <sup>3</sup> , including all implementation requirements.	m <sup>2</sup>		
613	Supply and installation of a two-coat of PANTEX 1300 type ROSSIGNOL type paint on the interior and exterior walls of the technical room	m <sup>2</sup>		
614	Concrete slab dosed at 350kg/m <sup>3</sup> (thickness=8cm) for the floor of the technical room.	m <sup>2</sup>		
615	Supply and installation of a 4mm thick metal door measuring 80x220mm	u		
617	Supply of a removable stainless steel inspection ladder.	u		
700	<b>SECURING THE STRUCTURE OF 5,4 m x 4,6 m FENCE (HALF WALL 80cm HIGH MINIMUM, 1,5m HIGH WIRE MESH)</b>			
701	ESCAVATION in shafts and ditches including backfill	m <sup>3</sup>		
702	Clean concrete dosed at 150kg/m <sup>3</sup> for plots	m <sup>3</sup>		
703	Packed concrete blocks at 20x20x40 in the base (17 m long and 2 rows).	m <sup>2</sup>		
704	Reinforced concrete dosed at 350kg/m <sup>3</sup> for 80x80x20 footings.	m <sup>3</sup>		
705	Reinforced concrete dosed at 350kg/m <sup>3</sup> for 20x30 post bases (minimum height 1 m).	m <sup>3</sup>		
706	Reinforced concrete dosed at 350kg/m <sup>3</sup> for 20x20 stringer	m <sup>3</sup>		
707	Reinforced concrete dosed at 350kg/m <sup>3</sup> for 25x25 posts (minimum height 2,5 m).	m <sup>3</sup>		
708	Reinforced concrete dosed at 350kg/m <sup>3</sup> for 20x20 chaining	m <sup>3</sup>		
709	Supply of and putting in place 15mm concrete blocks raised to a height of 80 cm	m <sup>2</sup>		
710	Cement mortar coating on interior and exterior walls and under the slab of the technical room dosed at 400kg/m <sup>3</sup> including all implementation constraints.	m <sup>2</sup>		
711	Supply and installation of 60 mm fine diamond-shaped galvanized steel mesh with a minimum thickness of 2mm flexible wire welded above the blocks to a height of 1,5 m including all constraints.	ml		
712	Supply and installation of 2,5m high stainless steel tubes with a diameter of 63mm, a minimum thickness of 3mm type AISI 304, and a length of 6m.	u		
713	Supply of a 60x60mm mesh stainless steel door in an 80*220 diamond pattern, 4mm wire with angle iron frames for access to the castle, including all installation suggestions.	u		
	Application of anti-rust and acrylic paint coats on the metallic elements.	m <sup>2</sup>		
715	Supply of stainless steel locks, chain and card locks.	u		
716	Supply 02 waterproof lamps (projectors) for night time lighting and connected to the solar panels, including wiring and installation.	ls		



207	Supply and installation of a clay plug	u		
208	Backfilling with all-run material	ml		
209	Cementing of the 5m deep borehole head	ml		
210	Cleaning and development with air lift	Hr		
211	Long term pumping test of the C.I.E.H type	Hr		
212	Treatment and Disinfection	FF		
213	Physicochemical and bacteriological analyses of the water	FF		
214	Fitting out the borehole head with 20x20x40 packed blocks measuring 1mx1mx1m, covered with a 6cm thick slab	FF		
<b>300</b>	<b>SUPPLY AND INSTALLATION OF DRILLING MEANS</b>			
301	Supply and installation of a GRUNDFOS SQF1.2-2 solar submersible pump and a GRUNDFOS control box, automated electrical control with CU200 float input, switch IO 100- IO-101, including probe and all installation requirements	u		
302	Supply and installation of pressure gauge	u		
303	Supply of a non-return valve at the borehole outlet	u		
304	Supply and installation of PEHD drainage pipe, diameter 32mm PN10 with connection accessories (safety rope, safety collar, sheaths, inter pipe connector) including all installation requirements.	ml		
305	Supply and installation of a three-bottle water filter, including all installation requirements.	FF		
306	Supply of a connection and plumbing accessories (tees, elbows, sleeves, connection resin, etc.)	ls		
<b>400</b>	<b>CONSTRUCTION OF STAND TAPES</b>			
401	Construction of reinforced concrete stand tapes dosed 350kg/m <sup>3</sup> , including a 2x2,4m <sup>2</sup> draw-off area according to the architectural plan with views equipped with metes and valves.	u		
402	Installation of two head taps 1/2" 3/4", 20/27 pad lockable stainless steel draw-off taps with brass handles for the two stand tapes according to the technical data sheet attached to the tender document.	u		
403	Supply of a stainless steel volumetric meter 3/4"-SPWM-075-CF, pulse output + sets of connection accessories	u		
404	Construction of a covered manhole measuring 50x50x50 in reinforce dosed at 350 kg/m <sup>3</sup> , 10cm thick, for a flow meter.	FF		
405	Construction of a soak away pit made of packed concrete blocks to received runoff water, 1m in diameter and 2m deep, covered with a 5cm thick reinforced concrete slab containing 350kg/m <sup>3</sup> at 5cm.	FF		
406	Construction of an 8 cm thick runoff drainage channel made of reinforced concrete concerning 350kg/m <sup>3</sup>	ml		
407	Supply and installation of PN10 D40 HDPE pipes, including tank connection accessories.	ml		
407	Supply and installation of PN10 D32 HDPE pipes, including tank connection accessories.	ml		
408	Supply and installation of PN10 D25 HDPE pipes, including tank connection accessories.	ml		
<b>500</b>	<b>SOLAR POWER SUPPLY FOR PUMPS (GROUND PLATES PLACED ABOVE THE TANK)</b>			
501	Supply and installation of monocrytalline solar panels from TRINA SOLAR, CANADIAN SOLAR or LONGI SILICON (nominal voltage:	u		



710	Cement mortar coating on interior and exterior walls and under the slab of the technical room dosed at 400kg/m3 including all implementation constraints.	m <sup>2</sup>		
711	Supply and installation of 60 mm fine diamond-shaped galvanized steel mesh with a minimum thickness of 2mm flexible wire welded above the blocks to a height of 1,5 m including all constraints.	ml		
712	Supply and installation of 2,5m high stainless steel tubes with a diameter of 63mm, a minimum thickness of 3mm type AISI 304, and a length of 6m.	u		
713	Supply of a 60x60mm mesh stainless steel door in an 80*220 diamond pattern, 4mm wire with angle iron frames for access to the castle, including all installation suggestions.	u		
	Application of anti-rust and acrylic paint coats on the metallic elements.	m <sup>2</sup>		
715	Supply of stainless steel locks, chain and card locks.	u		
716	Supply 02 waterproof lamps (projectors) for night time lighting and connected to the solar panels, including wiring and installation.	ls		
717	Supply and application of a two-coat of Pantex 1300 Rossignol- type paint on the fence in gray and blue	m <sup>2</sup>		
718	Reinforced concrete paving (20cm spacing) dosed at 300kg/m3, 8cm thick, for the solar field enclosure and the surroundings of 1m wide technical room after compaction, with a slope of at least 1,5 % including all suggestions	m <sup>2</sup>		
800	<b>MISCELANEOUS SERVICES</b>			
801	Provision of a first aid toolbox (1 Tropic wheel barrow, a shovel, a machete, a rake, 4 pairs of knives, pump disassembly tools, spare parts, etc)	u		
802	Provision of the maintenance manual and training of two (02) repair technicians and the manager of water management committees in management and maintenance including all constraints,	Sé ance		
900	<b>ENVIRONMENTAL AND SOCIAL SAFEGUARD MEASURES</b>			
901	Production of code of conduct for workers	no		
902	Sensitization and training of communities and workers on Gender based violence and HIV/AIDS	no		
903	Water Analysis test	u		
904	Formation and training of water management committee	no		
905	Provision of complete tool box for repairs and maintenance	u		
906	Personal Protective equipment for workers	no		
907	Provision of first AID box	u		
908	Installation of Metallic funders information plate	no		



**BILL OF QUANTITY FOR THE CONSTRUCTION OF A BOREHOLE EQUIPPED WITH SOLAR PUMPING SYSTEM AT NJIFORWANG QUARTER IN BALIKUMBAT MUNICIPALITY**

N°	DESIGNATION	Unit	Quantity	unit Price	Total Price
100	<b>HYDROLOGICAL STUDIES/SITE INSTALLATION/BOREHOLE INSTALLATION</b>				
101	Site Installation	FF	1		
101	Bringing in and removing equipment	FF	1		
102	Electrical surveying and hydrogeological studies	FF	1		
103	Execution project	FF	1		
105	Installation of structures	FF	1		
106	Execution program and As-build plan	FF	1		
	<b>Sub Total Lot 100</b>				
200	<b>CONSTRUCTION OF BOREHOLE</b>				
A	<b>FORATION</b>				
201	Rotary drilling in sedimentary terrain in $\Phi$ 9" 7/8 or 12" 1/4	ml	40		
202	Installation an removal of temporary steel or solid PVC CASTING 175-195 mm195 mm	ml	80		
203	Drilling of the base with a down-the-hole hammer (DTH) in 6"1/2 à 6"3/4	ml	40		
	<b>Sub Total 201</b>				
B	<b>EQUIPEMENT-DEVELOPPEMENT-PUMPING</b>				
204	Supply and installation of solid PVC of $\Phi$ 112/125mm at 10 bars of pressure	u	20		
205	Supply and installation of $\Phi$ 112/ 125mm PVC screens at 10 bars of pressure	u	7		
206	Supply and installation of a 1-3 mm calibrated river gravel filter bed	ml	30		
207	Supply and installation of a clay plug	u	1		
208	Backfilling with all-run material	ml	45		
209	Cementing of the 5m deep borehole head	ml	5		
210	Cleaning and development with air lift	Hr	4		
211	Long term pumping test of the C.I.E.H type	Hr	8		
212	Treatment and Disinfection	FF	1		
213	Physicochemical and bacteriological analyses of the water	FF	1		
214	Fitting out the borehole head with 20x20x40 packed blocks measuring 1mx1mx1m, covered with a 6cm thick slab	FF	1		
	<b>Sub Total 202</b>				
	<b>Sub Total Lot 200</b>				
300	<b>SUPPLY AND INSTALLATION OF DRILLING MEANS</b>				
301	Supply and installation of a GRUNDFOS SQF1.2-2 solar submersible pump and a GRUNDFOS control box, automated electrical control with CU200 float input, switch IO 100- IO-101, including probe and all installation requirements	u	1		
302	Supply and installation of pressure gauge	u	1		
303	Supply of a non-return valve at the borehole outlet	u	1		



	<b>Sub Total Lot 500</b>			
<b>600</b>	<b>CONSTRUCTION OF A 7,5m3 CASTLE</b>			
601	Excavation in shafts an channels	m3	7.68	
602	Clean concrete dosed at 150kg/m3	m3	0.5	
603	20x20x40 packed blocks for the base.	m2	5.8	
604	Concrete dose at 350kg/m3 for the footings, (1,2x1,2x0,3), post starters (0,3x0,3x1) and stringers (0,2x0,3).	m3	2.57	
605	Concrete dose at 350kg/m3 for pillars (0,3x0,3x9m), beams (0,2*0,3).	m3	4.8	
606	Concrete dose at 350kg/m3 for the waterproofed tank, including thickness.	m3	3.2	
607	Concrete dose at 350kg/m3 for the solid slab on the technical room, including all implementation requirements.	m3	0.6	
608	Rendering of the exterior walls with a mortar dosed at 400km/m3 including all implementation requirements.	m2	64	
609	Application food-grade paint to the interior walls. Including all implementation requirements.	m2	24	
610	Elevations of the technical room in 15 cm block board	m2	20	
611	Supply of and putting in place 15 cm thick vibrated mortar screen for the technical room opening	m2	2	
612	Rendering of the interior and exterior walls and slab of the technical room with a mortar dosage of 400km/m3, including all implementation requirements.	m2	48	
613	Supply and installation of a two-coat of PANTEX 1300 type ROSSIGNOL type paint on the interior and exterior walls of the technical room	m2	48	
614	Concrete slab dosed at 350kg/m3 (thickness=8cm) for the floor of the technical room.	m2	4	
615	Supply and installation of a 4mm thick metal door measuring 80x220mm	u	1	
617	Supply of a removable stainless steel inspection ladder.	u	1	
	<b>Sub Total Lot 600</b>			
<b>700</b>	<b>SECURING THE STRUCTURE OF 5,4 m x 4,6 m FENCE (HALF WALL 80cm HIGH MINIMUM, 1,5m HIGH WIRE MESH)</b>			
701	ESCAVATION in shafts and ditches including backfill	m3	5.28	
702	Clean concrete dosed at 150kg/m3 for plots	m3	0.34	
703	Packed concrete blocks at 20x20x40 in the base (17 m long and 2 rows).	m2	6.8	
704	Reinforced concrete dosed at 350kg/m3 for 80x80x20 footings.	m3	0.51	
705	Reinforced concrete dosed at 350kg/m3 for 20x30 post bases (minimum height 1 m).	m3	0.25	
706	Reinforced concrete dosed at 350kg/m3 for 20x20 stringer	m3	0.68	
707	Reinforced concrete dosed at 350kg/m3 for 25x25 posts (minimum height 2 ,5 m ).	m3	0.63	
708	Reinforced concrete dosed at 350kg/m3 for 20x20 chaining	m3	0.68	
709	Supply of and putting in place 15mm concrete blocks raised to a height of 80 cm	m2	13.6	



B	TVA (19,25%xA)			
C	AIR (2.2 or 5.5) %			
D	MONTANT TTC (A+B)			

This present estimate is closed at the sum of-----F.C.F.A all taxes included

.....Signature

**NB:** Bidders can propose additional elements deemed necessary, these additions won't be compared in the initial evaluation, their relevance will be considered during contract negotiations.

BILL OF QUANTITY FOR THE CONSTRUCTION OF A BOREHOLE EQUIPPED WITH SOLAR PUMPING SYSTEM AT AKUMOM QUARTER IN BALIKUMBAT MUNICIPALITY					
N°	DESIGNATION	Unit	Quantity	unit Price	Total Price
100	<b>HYDROLOGICAL STUDIES/SITE INSTALLATION/BOREHOLE INSTALLATION</b>				
101	Site Installation	FF	1		
101	Bringing in and removing equipment	FF	1		
102	Electrical surveying and hydrogeological studies	FF	1		
103	Execution project	FF	1		
105	Installation of structures	FF	1		
106	Execution program and As-build plan	FF	1		
	<b>Sub Total Lot 100</b>				
200	<b>CONSTRUCTION OF BOREHOLE</b>				
A	<b>FORATION</b>				
201	Rotary drilling in sedimentary terrain in $\Phi$ 9" 7/8 or 12" 1/4	ml	40		
202	Installation an removal of temporary steel or solid PVC CASTING 175-195 mm195 mm	ml	80		
203	Drilling of the base with a down-the-hole hammer (DTH) in 6"1/2 à 6"3/4	ml	40		
	<b>Sub Total 201</b>				
B	<b>EQUIPEMENT-DEVELOPPEMENT-PUMPING</b>				
204	Supply and installation of solid PVC of $\Phi$ 112/125mm at 10 bars of pressure	u	20		
205	Supply and installation of $\Phi$ 112/ 125mm PVC screens at 10 bars of pressure	u	7		
206	Supply and installation of a 1-3 mm calibrated river gravel filter bed	ml	30		
207	Supply and installation of a clay plug	u	1		
208	Backfilling with all-run material	ml	45		
209	Cementing of the 5m deep borehole head	ml	5		
210	Cleaning and development with air lift	Hr	4		
211	Long term pumping test of the C.I.E.H type	Hr	8		
212	Treatment and Disinfection	FF	1		



502	Supply and installation of 25mm corrugated sheaths for the cables.	ml	30		
503	Supply and installation of ecoflex FG7 (O), NEXXAN or EUROCABLES of 4x4mm <sup>2</sup> for solar panels, including all installation requirements.	ml	100		
504	Supply and installation of ecoflex FG7 (O), NEXXAN or EUROCABLES 2x2,5mm <sup>2</sup> for float.	ml	30		
505	Supply and installation of an original frame of 40*40 tubes and 40 angles of 4cm thickness in stainless steel for installation and fixing of solar panels, including accessories	ls	1		
<b>Sub Total Lot 500</b>					
<b>600</b>	<b>CONSTRUCTION OF A 7,5m3 CASTLE</b>				
601	Excavation in shafts an channels	m3	7.68		
602	Clean concrete dosed at 150kg/m3	m3	0.5		
603	20x20x40 packed blocks for the base.	m2	5.8		
604	Concrete dose at 350kg/m3 for the footings, (1,2x1,2x0,3), post starters (0,3x0,3x1) and stringers (0,2x0,3).	m3	2.57		
605	Concrete dose at 350kg/m3 for pillars (0,3x0,3x9m), beams (0,2*0,3).	m3	4.8		
606	Concrete dose at 350kg/m3 for the waterproofed tank, including thickness.	m3	3.2		
607	Concrete dose at 350kg/m3 for the solid slab on the technical room, including all implementation requirements.	m3	0.6		
608	Rendering of the exterior walls with a mortar dosed at 400km/m3 including all implementation requirements.	m <sup>2</sup>	64		
609	Application food-grade paint to the interior walls. Including all implementation requirements.	m <sup>2</sup>	24		
610	Elevations of the technical room in 15 cm block board	m <sup>2</sup>	20		
611	Supply and putting in place 15 cm thick vibrated mortar screen for the technical room opening	m <sup>2</sup>	2		
612	Rendering of the interior and exterior walls and slab of the technical room with a mortar dosage of 400km/m3, including all implementation requirements.	m <sup>2</sup>	48		
613	Supply and installation of a two-coat of PANTEX 1300 type ROSSIGNOL type paint on the interior and exterior walls of the technical room	m <sup>2</sup>	48		
614	Concrete slab dosed at 350kg/m3 (thickness=8cm) for the floor of the technical room.	m <sup>2</sup>	4		
615	Supply and installation of a 4mm thick metal door measuring 80x220mm	u	1		
617	Supply of a removable stainless steel inspection ladder.	u	1		
<b>Sub Total Lot 600</b>					
<b>700</b>	<b>SECURING THE STRUCTURE OF 5,4 m x 4,6 m FENCE (HALF WALL 80cm HIGH MINIMUM, 1,5m HIGH WIRE MESH)</b>				
701	ESCAVATION in shafts and ditches including backfill	m3	5.28		
702	Clean concrete dosed at 150kg/m3 for plots	m3	0.34		
703	Packed concrete blocks at 20x20x40 in the base (17 m long and 2 rows).	m <sup>2</sup>	6.8		
704	Reinforced concrete dosed at 350kg/m3 for 80x80x20 footings.	m3	0.51		



908	Installation of Metallic funders information plate	no	01		
	Sub Total Lot 800				
A	MONTANT POUR UN FORAGE SOLAIRE				
B	TVA (19,25%xA)				
C	AIR (2.2 or 5.5) %				
D	MONTANT TTC (A+B)				

This present estimate is closed at the sum of-----F.C.F.A all taxes included

.....Signature

**NB:** Bidders can propose additional elements deemed necessary, these additions won't be compared in the initial evaluation, their relevance will be considered during contract negotiations.