

FC: 01504/2025/CAF/JC/CENW/DA

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OPEN NATIONAL INVITATION TO TENDER

TENDER FILE

**TENDER FILE N° 04/ONIT/MINEDUB/JC/JCITB/2025 of 31/2025 FOR THE  
CONSTRUCTION OF A NURSERY BLOCK AT GNS SHUKAI IN VEKOVI  
VILLAGE- IN JAKIRI MUNICIPALITY IN JAKIRI SUB DIVISION, BUI  
DIVISION, NORTH WEST REGION.  
BY EMMERGENCY PROCEDURE**

PROJECT OWNER: THE LORD MAYOR OF JAKIRI COUNCIL.

FINANCING: PIB MINEDUB - 2025

BUDGET HEAD: JA01319

59 15 191 02 641626 464211 426

FINANCIAL YEAR 2025

**DOCUMENT NO. 1**  
**TENDER NOTICE**

**10. Acquisition of tender file:**

The file may be obtained from Jakiri council, Mayor's private secretariat. Telephone N0237 650-612-472 as soon as this notice is published against payment of the sum of **50,000 FCFA francs (Fifty Thousand Francs CFA)**, payable only in the Jakiri Council Treasury, representing the cost of purchasing the tender file.

**11. Submission of bids:**

Each offer drafted in English or French in 07 (seven) copies including 01 (one) original and 06 (six) copies marked as such, should reach Jakiri council Service of Public Contracts not later than 13-3-2025 at **10:00 AM** local time and should carry the inscription:

**<<FOR THE CONSTRUCTION OF A NURSERY BLOCK AT GNS SHUKAI IN VEKOVI VILLAGE- IN JAKIRI MUNICIPALITY, JAKIRI SUB DIVISION, BUI DIVISION, NORTH WEST REGION. >>**

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

**12. Admissibility of bids**

Under penalty of being rejected, only originals or true copies certified by the issuing service or administrative authorities (Senior Divisional Officer, Divisional Officers) must imperatively be produced in accordance with the Special Regulations of the invitation to tender. They must obligatorily be not older than three (3) months preceding the date of submission of bids.

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

**13. Opening of bids:**

The bids shall be opened in a single phase. The opening of the administrative documents, the Technical and Financial offers will take place on the 13-3-2025 at **11:00 AM** local time, in the Jakiri Council conference hall. Only bidders may attend or be represented by duly mandated persons of their choice.

**14. Evaluation criteria**

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

**A. Eliminatory criteria**

1. - Absence of a document in the administrative file;
2. -Deadline for delivery higher than prescribed;
3. -False declaration or falsified documents;
4. -Absence or insufficient bid bond;
5. -Incomplete financial file;
6. -Omission of a unit price in the financial bid;
7. -score less than 80% of essential criteria

**B. Essential criteria**

- 1- General presentation of the tender files;
- 2- Financial capacity;
- 3- References of the company in similar achievements;
- 4- Quality of the personnel;
- 5- Technical organization of the works;
- 6- Safety measures on the site;
- 7- Logistics;
- 8- Attestation and report of site visit;
- 9- Special Technical Clauses initialed in all the pages;
- 10- Special Administrative Clauses completed and initialed in all the pages.

**15. Award**

This evaluation will be done in a purely positive way (**yes**) or negative (**no**) with an acceptable minimum of **80%** of the essential criteria taken in account.





## AVIS D'OFFRE

**APPEL D'OFFRES NATIONAL OUVERT DOSSIER N° 04/ONIT/MINEDUB/JC/JCITB/2025 du 31/2/2025 POUR LA CONSTRUCTION D'UN BLOC DE DEUX SALLES DE CLASSE A L'ECOLE MATERNELLE DE GNS SHUKAI AU VILLAGE DE VEKOVI- DANS LA MUNICIPALITÉ DE JAKIRI.**

Financement : PIB MINEDUB Budget – 2025

### 1. OBJET DE L'APPEL D'OFFRES :

Dans le cadre du Budget d'Investissement Public 2025, le Maire de la Commune de Jakiri, Maître d'Ouvrage lance un Appel d'Offres National Ouvert Pour la **CONSTRUCTION D'UN BLOC DE DEUX SALLES DE CLASSE A L'ECOLE MATERNELLE DE GNS SHUKAI AU VILLAGE DE VEKOVI- DANS LA MUNICIPALITÉ DE JAKIRI.**

### 2. NATURE DU TRAVAIL :

Les travaux à réaliser consistent à

- } Installation du site
- } Documentations
- } Travaux de terrassement
- } Fondation
- } Élévation
- } Finition
- } Réceptions

### 3. DELAI D'EXECUTION

Le délai prévu par le Maître d'Ouvrage pour l'exécution des travaux faisant l'objet du présent Appel d'offres est de QUATRE (04) mois.

**4. LOTS :** les travaux sont en un seul lot et consistent en la construction d'un bloc de pépinière à GNS Shukai dans le village de Vekovi, dans la commune de Jakiri, arrondissement de Jakiri, département de Bui, région du Nord-Ouest.

### 5. Coût estimé

Le coût estimé après études préliminaires est de 30 000 000 FCFA (Trente Millions de Francs CFA)

### 6. PARTICIPATION ET ORIGINE

La participation au présent Appel d'Offres est ouverte aux entreprises camerounaises qui respectent la législation nationalité.

### 7. FINANCEMENT

Les travaux faisant l'objet du présent Appel d'offres seront financés par le Budget d'Investissement Public (PIB) 2025 du MINEDUB.

### 8. CAUTIONNEMENT DE SOUMISSION

Chaque soumissionnaire devra joindre dans ses pièces administratives, une caution de soumission émise par un établissement bancaire ou d'assurance de premier ordre et une compagnie d'assurance agréée par le Ministère en charge des Finances et dont la liste figure dans le document N°12 du Dossier d'Appel d'Offres, d'un montant de 600 000 FCFA (Six Cent Mille Francs CFA) et valable quatre vingt dix (90) jours au-delà de la date de validité des offres

### 9. CONSULTATION DU DOSSIER D'APPEL D'OFFRES :



### 15. Récompense

Cette évaluation se fera de manière purement positive (oui) ou négative (non) avec un minimum acceptable de 80% des critères essentiels pris en compte.

Le marché sera attribué au soumissionnaire qui aura proposé l'offre avec le montant le plus bas, conformément aux prescriptions du Dossier d'Appel d'Offres et ayant satisfait à 100% des critères éliminatoires et au moins 80% des critères essentiels.

### 16. VALIDITE DES OFFRES

Les soumissionnaires resteront engagés par leurs offres pendant quatre vingt dix (90) jours à compter de la date limite fixée pour le dépôt des offres.

### 17. INFORMATIONS COMPLEMENTAIRES

Des informations techniques complémentaires peuvent être obtenues pendant les heures ouvrables auprès de la Commune de Jakiri, Secretariate particuliere du Maire, téléphone NO 650-612-472.

Fait à Jakiri, le 31/1/2025

Le Maire,  
(Autorité Contractant)

Copies :

- MINMAP
- ARMP;
- IBEJakiri
- S/D MINTP Jakiri
- Présidents CPM;
- Affichage.



**Hon. WIRNGO BUBA KIBO**

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- (b) A bidder (including all members of a group of enterprises and all sub-contractors to the bidder) must not be in a situation of conflict of interest, subject to disqualification. A bidder shall be judged to be in a situation of conflict of interest if he:
  - i) is or was associated in the past with an enterprise (or a subsidiary of this enterprise) which provided consultancy services for the conception, preparation of specifications and other documents used within the scope of contracts awarded for this invitation to tender; or
  - ii) Presents more than one bid within the context of invitation to tender, except authorised variants according to article 17, where need be; meanwhile, this does not prevent the participation of sub-contractors in more than one bid.
  - iii) The Contracting Authority or Project Owner has financial interests in the capital in a way as to compromise the transparency of the procedures of award of public contracts.
- (c) The bidder must not have been excluded from bidding for public contracts.
- (d) A Cameroonian public enterprise may participate in the consultation if it can demonstrate that it is (i) legally and financially autonomous, (ii) managed according to commercial laws and (iii) not under the direct supervisory authority of the Contracting Authority or Project Owner.

#### **Article 5: Building materials, materials, supplies, equipment and authorised services**

- 5.1 Building materials, the contractor's materials, supplies, equipment and services forming the subject of this contract must originate from countries meeting the criteria of origin defined in the Special Regulations of the invitation to tender and all expenditure done within the context of the contract shall be limited to the said building materials, materials, supplies, equipment and services.
- 5.2 Within the meaning of this 5.1 above, the term "originate" shall designate the place where the goods are extracted, cultivated, produced, manufactured and from where the services originate.

#### **Article 6: Qualification of bidder**

6.1 As an integral part of their bid, bidders must:

- (a) submit a power of attorney making the signatory of the bid bound by the bid in a situation where it is owned by a group of persons; and
- (b) Provide all information (complete or update information included in their request for pre-qualification which may have changed in the case where the candidates took part in pre-qualification) requested of bidders in the Special Regulations of the invitation to tender, in order to establish their qualification to execute the contract.

Where necessary, bidders should provide information relating to the following points:

- (i) The production of certified balance sheets and recent turnovers;
  - (ii) Access to a line of credit or availability of other financial resources;
  - (iii) Orders acquired and contracts awarded;
  - (iv) Pending litigations;
  - (v) Availability of indispensable equipment.

6.2 Bids presented by two or more associated undertakings (joint-contracting) must satisfy the following conditions:

- (a) The bid must include all the information listed in article 6(1) above. The Special Regulations must indicate the information to be furnished by the group and that to be furnished by each member of the group;
- (b) The bid and the contract must be signed in a way that is binding on all members of the group;
- (c) The nature of the group (joint or several) must be specified in the Special Regulations and justified with the production of a joint venture agreement in due form;
- (d) The member of the group designated as the representative will represent all the undertakings vis a vis the Project Owner and Contracting Authority with regard to the execution of the Contract;



## **Article 9: Clarifications on the Tender File and complaints**

9.1 Any bidder who wants to obtain clarifications on the Tender File may request them from the Contracting Authority in writing or by electronic mail (fax or e-mail) at the Contracting Authority's address indicated in the Special Regulations of the invitation to tender and send a copy to the Project Owner. The Contracting Authority replies in writing to any request for clarification received at least fourteen (14) days prior to the deadline for the submission of bids.

A copy of the Contracting Authority's response, indicating the question posed but not mentioning the author, is addressed to all bidders who bought the Tender File.

9.2 Between the publication of the tender notice including the pre-qualification phase of candidates and the opening of bids, any bidder who feels aggrieved in the public contracts award procedure may lodge a complaint to the Minister in charge of Public Contracts.

9.3 A copy of the complaint should be addressed to the Contracting Authority and to the body in charge of the regulation of public contracts and the chairperson of the Tenders Board.

9.4 The Contracting Authority has five (5) days to react. A copy of the reaction shall be forwarded to MINMAP and the body in charge of the regulation of public contracts.

## **Article 10: Amendment of the Tender File**

10.1 The Contracting Authority may at any moment, prior to the deadline for the submission of bids and for any reason, be it at his initiative or in reply to a request for clarification formulated by a bidder, amend the Tender File by publishing an addendum.

10.2 Any published addendum shall be an integral part of the Tender File, in accordance with article 8.1 of the General Regulations of the invitation to tender and must be communicated in writing or made known by a traceable means to all bidders who bought the Tender File.

10.3 In order to give bidders sufficient time to take account of the addendum in the preparation of their bids, the Contracting Authority may postpone as is necessary, the deadline for the submission of bids, in accordance with provisions of article 22 of the General Regulations of the invitation to tender.

## **C Preparation of bids**

### **Article 11: Tender costs**

The candidate shall bear the costs related to the preparation and presentation of his bid and the Contracting Authority and the Project Owner shall in no case be responsible for these costs nor pay for them whatever the evolution or outcome of the invitation to tender procedure.

### **Article 12: Language of bid**

The bid as well as any correspondence and any document exchanged between the bidder and the Contracting Authority shall be written in English or French. Complementary documents and the forms provided by the bidder may be written in another language on condition that a precise translation into either English or French of the passages concerning the bid is included; in which case for reasons of interpretation, the translation shall be considered to be authentic.

### **Article 13: Constituent documents of the bid**

13.1 The bid presented by the bidder shall include the documents detailed in the Special Regulations of the invitation to tender, duly filled and put together in three volumes:

#### **a. Volume 1: Administrative file**

It includes:

i) all documents attesting that the bidder:

- has subscribed to all declarations provided for by the laws and regulations in force;
- paid all taxes, duties, contributions, fees or deductions of whatever nature;



14.3 Subject to contrary provisions provided for in the Special Regulations and in the Special Administrative Conditions, all dues, taxes and fees payable by the bidder on grounds of the contract or on any other ground, thirty (30) days prior to the submission of the bids, shall be included in the prices and in the total amount of the bid presented by the bidder.

14.4 If a price revision/updating clause is provided for in the contract, the date of establishment of the initial price, as well as the price revision/updating conditions for the said price must be specified. This is with the understanding that any contract of duration less than one (1) year shall not be subject to price revision.

14.5 All unit prices must be justified by sub-details established in accordance with the structure proposed in document 8 of the Tender File.

#### **Article 15: Currency of bid and payment**

15.1 In case of international invitations to tender, the currencies of the bid shall follow the provisions of either Option A or Option B below, the applicable option being that retained in the Special Regulations of the invitation to tender.

**15.2 Option A:** The amount of the bid shall be entirely made in the national currency. The amount of the bid, unit prices of the price schedule and the prices of the bill of quantities and estimates are completely made in CFA francs in the following manner:

- a) Prices shall be entirely drawn in the national currency. The bidder who intends to commit expenditures in other currencies for the execution of the works shall indicate in the annex to the bid the percentage(s) of the amount of the bid necessary to cover the needs in foreign currencies, without exceeding the maximum of the three currencies of member countries of the funding institution of the contract.
- b) The exchange rates used by the bidder to convert his bid into the national currency shall be specified by the bidder in an annex to the bid in compliance with the specifications of the Special Regulations. These rates shall be applied for any payment within the framework of the contract so that the retained bidder does not bear any change in the exchange rate.

**15.3 Option B:** The amount of the bid shall be directly made in the national and foreign currency at the rates fixed in the Special Regulations.

The bidder shall draw the unit prices of the price schedule and the prices of the bill of quantities and estimates in the following manner:

- (a) The prices of inputs necessary for the works which the bidder intends to procure in the Contracting Authority's country shall be in currency of the Contracting Authority's country specified in the Special Regulations and called "national currency";
- (a) The prices of inputs necessary for works which bidder intends to procure out of the Contracting Authority's country shall be in the currency of the country of origin of the bidder or of the currency of an eligible member country widely used in international trade.

15.4 The Contracting Authority may request the bidders to explain the needs in national and foreign currencies and to justify that the amounts included in the unit and total prices and indicated in annex to the bids are reasonable; to this end, a detailed statement of their needs in foreign currencies shall be furnished by the bidder.

15.5 During the execution of the works, most of the foreign currency to be paid as part of contract may be revised by mutual agreement between the Contracting Authority and the entrepreneur in a way as take account of any modification in the foreign currency needs within the context of the contract.

#### **Article 16: Validity of bids**

16.1 Bids must remain valid during the period stated in the Special Regulations from the date of submission of the bids fixed by the Contracting Authority, in application of article 22 of the Special Regulations. A bid valid for a shorter period shall be rejected by the Contracting Authority or Delegated Contracting Authority as not being in compliance.

16.2 Under exceptional circumstances, the Contracting Authority may seek the approval of bidders to extend the validity time-limit. The request and the responses that will be given shall be in writing (or by fax). The validity of the bid bond



#### **Article 19: Preparatory meeting to the establishment of bids**

- 19.1 Except otherwise stipulated in the Special Regulations, a bidder may be invited to take part in a preparatory meeting which will hold at the date and place indicated in the Special Regulations.
- 19.2 The subject of the preparatory meeting shall be to furnish clarifications and answer any questions which may be raised at this stage.
- 19.3 As much as possible, the bidder is requested to submit any question in a way as to reach the Contracting Authority at least one week before the meeting. The Contracting Authority may not reply to questions received too late. In this case, the questions and answers shall be transmitted according to the methods set in article 19(4) below.
- 19.4 The minutes of the meeting, including the text of the questions asked and the replies given, including questions prepared after the meeting, shall be forwarded immediately to everyone who bought the Tender File. Any modification of documents of the Tender File listed in article 8 of the General Regulations which may prove to be necessary at the end of the preparatory meeting shall be done by the Contracting Authority by publishing an addendum in accordance with the provisions of article 10 of the General Regulations and not through the minutes of the preparatory meeting.
- 19.5 The fact that a bidder does not attend a preparatory meeting for the establishment of bids shall not be a reason for disqualification.

#### **Article 20: Form and signature of bid**

- 20.1 The bidder shall prepare an original of the constituent documents described in article 13 of the General Regulations in a volume clearly indicated **"ORIGINAL"**. In addition, the bidder shall submit the number required in the General Regulations, bearing **"COPY"**. In case of discrepancy, the original shall be considered as authentic.
- 20.2 The original and copies of the bid must be typed or written in indelible ink (photocopies shall be accepted in the case of copies) and shall be signed by the person(s) duly empowered to sign on behalf of the bidder, in accordance with article 6(1a) or 6(2c) of the General Regulations, as the case may be. All the pages of the bid containing alterations or changes must be initialled by the signatory (ies) of the bid.
- 20.3 The bid shall bear no modification, suppression or alteration unless such corrections are initialled by the signatory (ie) of the bid.

### **D. SUBMISSION OF BIDS**

#### **Article 21: Sealing and marking of bids**

- 21.1 The bidder shall seal the original and each copy of the bid in separate envelopes (internal envelopes) by marking on these envelopes **"ORIGINAL"** and **"COPY"**, as the case may be. The envelopes shall then be placed in another envelope which will equally be sealed but which will not give any indication regarding the identity of the bidder.
- 21.2 The external and internal envelopes:
- a) Should be addressed to the Contracting Authority at the address indicated in the Special Regulations;
  - b) Should bear the name and identification number of the project as indicated in the Special Regulations and bear the inscription **"TO BE OPENED ONLY DURING THE BID-OPENING SESSION"** as specified in the Special Regulations.
- 21.3 The internal envelopes should equally carry the name and address of the bidder in a way as to enable the Contracting Authority return the sealed bid if it is late in accordance with article 23 and 24 of the General Regulations.
- 21.4 If the external envelope is not sealed and marked as indicated in paragraphs 21(1) and 21(2) above, the Contracting Authority shall not be responsible if the bid is misplaced or opened prematurely.

#### **Article 22: Date and time-limit for submission of bids**



Authority deems useful to be mentioned. Only rebates and variants of bids announced to the hearing of everyone during the opening of bids shall be submitted for evaluation.

25.4 Bids (and modifications received in accordance with the provisions of article 24 of the General Regulations) which were not opened and read to the hearing of everyone during the bid-opening session for whatever reason, shall not be submitted for evaluation.

25.5 Bid-opening minutes are recorded on the spot mentioning the admissibility of bids, their administrative regularity, prices, rebates and time-limits as well as the composition of the Evaluation sub-committee. A copy of the said minutes to which is attached the attendance sheet is handed over to all the participants at the end of the session.

25.6 At the end of each bid-opening session, the chairperson of the Tenders Board immediately hands over to the focal point designated by the body in charge of regulation of public contract an initialled copy of the bids presented by bidders.

25.7 In case of petition as provided for by the Public Contracts Code, it should be addressed to the Minister Delegate in charge of Public Contracts with a copy to the body in charge of the regulation of public contracts, the head of structure to which is attached the Tenders Board concerned.

It must reach within a maximum deadline of three (3) working days after the opening of bids in the form of a letter to which is obligatorily attached a sheet of the petition form duly signed by the petitioner and possibly by the chairperson of the Tenders Board.

The Independent Observer attaches to his report the sheet that was handed to him, including any related commentaries or observations.

#### **Article 26: Confidential nature of the procedure**

26.1 No information relating to the examination, clarification, evaluation and comparison of bids and verification of the qualification of the bidders and the recommendation for the award shall be given to bidders or to any person not concerned with the said procedure as long as the preferred bidder has not been made public, subject to the disqualification of the bid of the bidder and suspension of the authors from all activities in the domain of public contracts.

26.2 Any attempt by a bidder to influence the Tenders Board or the Evaluation sub-committee of bids or the Contracting Authority in its award decision may lead to the rejection of his bid.

26.3 Notwithstanding the provisions of paragraph 26.2 above, between the opening of bids and the award of the contract, if a bidder wishes to enter into contact with the Contracting Authority for reasons having to do with his bid may do so in writing.

#### **Article 27: Clarifications on the bids and contact with the Contracting Authority**

27.1 To ease the examination, evaluation and comparison of bids, the Tenders Board may, if it so desires, request any bidder to give clarifications on his bid. This request for clarification and the response thereto are formulated in writing but no change on the amount or content of the bid is sought, offered or authorised, except it is necessary to confirm the correction of calculation errors discovered by the Evaluation Sub-committee during the evaluation in accordance with the provisions of article 30 of the General Regulations.

27.2 Subject to the provisions of paragraph 1 above, bidders shall not contact members of the Tenders Board and the Evaluation Sub-committee for questions related to their bids, between the opening of envelopes and the award of the contract.

#### **Article 28: Determination of compliance of bids**

28.1 The Evaluation sub-committee shall carry out a detailed examination of bids to determine if they are complete, if the required guarantees are furnished, if the documents were correctly signed and if generally the bids are in proper order.



### **Article 32: Evaluation and comparison of financial bids**

32.1 Only bids considered as being in compliance, as per the provisions of article 28 of the General Regulations, shall be evaluated and compared by the Evaluation sub-committee.

32.2 By evaluating the bids, the Evaluation Sub-committee shall determine for each bid the evaluated amount of the bid by rectifying the amount as follows:

- a) By correcting any possible error in accordance with the provisions of article 30.2 of the General Regulations;
- b) By excluding projected sums and where necessary provisions for unforeseen occurrences featuring in the bill of quantities and estimates but by adding the amount of works done under State supervision where they are coasted in a competitive manner as specified in the Special Regulations.
- c) By converting into a single currency the amount resulting from the rectifications (a) and (b) above, in accordance with the provisions of article 31(2) of the General Regulations;
- d) By appropriately adjusting any other modification, divergence or quantifiable reservation on technical or financial basis.
- e) By taking into consideration the various execution time-limits proposed by the bidders, if they are authorised by the Special Regulations;
- f) If need be, in accordance with the provisions of article 13(2) of the General Regulations and the Special Regulations by applying the rebates offered by the bidder for the award of more than one lot, if this invitation to tender is launched simultaneously for several lots.
- g) If need be, in accordance with the provisions of article 18(3) of the Special Regulations and the Technical Specifications, the proposed technical variants, if they are permitted, shall be evaluated on their own merit and independently of the fact that the bidder offered or not a price for the technical solution specified by the Contracting Authority in the Special Regulations.

32.3 The estimated effect of price revision formulae featuring in the GAC and SAC applied during the period of execution of the contract shall not be considered during the evaluation of bids.

32.4 If the bid judged the lowest bid is considered abnormally low or strongly unbalanced in relation to the estimates of the Project Owner for the works to be executed in this contract, the Tenders Board may, from the sub-details of prices furnished by the bidder for any element or all the elements of the bill of quantities and estimates, verify if these prices are compatible with the construction methods and proposed calendar. In the case where the justifications presented by the bidder are not satisfactory, the Contracting Authority may reject the bid after the technical opinion of the Public Contracts Regulatory Agency.

### **Article 33: Preference granted national bidders**

National contractors shall benefit from a margin of national preference during the evaluation of bids as provided for in the Public Contracts Code.

### **Article 34: Award**

34.1 The Contracting Authority shall award the contract to the bidder whose bid was judged essentially in compliance with the Tender File and who has the required technical and financial capacities to execute the contract satisfactorily and whose bid was evaluated as the lowest by including, where necessary, proposed rebates

34.2 If, according to article 13(2) of the General Regulations, the invitation to tender comprises several lots, the lowest bid shall be determined by evaluating this contract with other lots to be awarded concurrently, by taking into account the rebates offered by the bidders in the case of more than one lot.

34.3 Any award of contract shall be made to the bidder fulfilling the technical and financial capacities required resulting from the evaluation criteria and presenting the bid evaluated as the lowest.

### **Article 35: The right by the Contracting Authority to declare an invitation to tender unsuccessful or cancel a procedure**

The Contracting Authority reserves the right to cancel a procedure of invitation to tender after the authorisation of the Minister Delegate at the Presidency in charge of Public Contracts where the bids have been opened or to declare an invitation to tender unsuccessful after the advice of the competent Tenders Board, without any claims being entertained.

**DOCUMENT No. 3: SPECIAL ADMINISTRATIVE  
CONDITIONS (SAC)**



provided by the Bidder can be written in another language in condition of being accompanied by a precise translation in French or English; in which case and for purposes of interpretation of the offer, the translation will be taken.

## PRESENTATION OF THE TENDER.

The bids prepared in English or French and in seven (07) copies with one (06) original and six (06) copies marked thus, shall be presented in three (03) volumes as follows:

- A) Administrative Documents
- B) Technical Documents
- C) Financial Documents
- 5.1 External envelope.

Each bidder shall seal these three (03) envelopes (A, B and C) in one common envelope on which shall be written.

**<< OPEN NATIONAL INVITATION TO TENDER FILEN° 04/ONIT/MINEDUB/JC/JCITB/2025 of \_\_\_\_\_ 2025 FOR THE CONSTRUCTION OF A NURSERY BLOCK AT GNS SHUKAI IN VEKOVI VILLAGE- IN JAKIRI MUNICIPALITY COUNCIL AREA, JAKIRI SUB DIVISION, BUI DIVISION, NORTH WEST REGION. >>**

**"TO BE OPENED ONLY DURING THE BID-OPENING SESSION"**

N.B: The external envelope should not carry any mark or sign that can lead to the identification of the bidder.

### 8.2 Internal envelopes

Three (03) internal envelopes must be sealed in an external envelope.

The first internal envelope shall be labeled;

**<<ENVELOPE A: ADMINISTRATIVE DOCUMENTS>>** and shall contain the administrative documents of the enterprise. These documents shall be original or copies certified by competent authorities not more than three months.

#### ADMINISTRATIVE DOCUMENTS.

DOCUMENT N°	DESCRIPTION
A.1	Certified Copy of the Business Registration, not more than three months old.
A.2	Declaration of intention to tender stamped with the tariff in force (written by the bidder).
A.3	Certificate of non-bankruptcy established by the Court of 1st instance or the Chamber Commerce, Industry and Trade of the place of residence of the bidder, not more than three (03) months.
A.4	Attestation of bank account of the bidder, issued by a first rate-bank approved by the Ministry in charge of Finance or by a foreign bank the first order not more than three months.
A.5	Purchase receipt of tender file issued by Jakiri Council treasury
A.6	A bid bond of 600,000 CFA (Six Hundred Thousand Francs CFA) issued by a first rate-bank or Insurance company approved by the Ministry in charge of Finance in conformity with COBAC conditions
A.7	An attestation of non-exclusion from Public Contracts issued by the Public contract Regulatory Board (ARMP)
A.8	An Attestation of the National Social Insurance Fund stating that the bidder has met all his obligations vis a vis the Fund; the attestation should be less than three months old.
A.9	A valid Certificate of imposition certified by the chief of center for taxation
A.10	Certified Copy of a valid taxpayers card, delivered by the chief of center of Taxes.

**The absence or the nonconformity of the one of these documents will result to the elimination of the offer**

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

B.1	<b>General presentation of the tender files</b>		
B.1.1	-Document spirally bound or clouted		
B.1.1	-Table of content page		
B.1.2	-Colour sheets separation		
B.1.2	- Presentation of documents in the order given in this tender		
B.2	<b>LIST OF REFERENCES OF THE ENTERPRISE IN THE SIMILAR JOBS</b>		
B.2.1	List of references of the enterprise in similar jobs justified by signed contracts (first and last pages) and minutes of reception or attestation of clearances of works executed. (minutes of final reception for up to 2023 projects) Minimum acceptable: 02 Contracts realized in the domain of public works over the past 06 years		
	1st Reference		
	2nd reference		
B.3	<b>QUALIFICATION AND EXPERIENCE OF SUPERVISORY STAFF</b>		



## Supply price

### **ARTICLE 8: Currency of payment**

This National Invitation to tender is awarded on total and contractual price, inclusive of all taxes, firm and non-revisable for the whole of the works and the equipment defined in the present Invitation to tender.

The corresponding amount will be calculated inclusive of all taxes and the prices will be obligatorily expressed in francs CFA.

The unit Schedule price expressed out in figures and letters and in seven (07) copies will be joined to the offer. In the event of error between the prices in figures and letters, the latter will precede and be used as a basis of calculation of the amount of the offer.

The establishment of the prices will be done on the basis of economic condition into force in Republic of Cameroon at the handover date of the offers.

### **ARTICLE 9: Transport and delivery**

The materials for work must be protected during transportation through packaging whether by air, railway or road according as the case may be. The conditions of storage must be of tropical type.

### **ARTICLE 10: Guarantee and retention guarantee**

#### **10.1 Provisional guarantee**

The amount of the provisional guarantee or guarantee of tender is fixed at **240,000 CFA (Two Hundred and Forty Thousand Francs CFA)**

The time of validity of this guarantee is sixty (60) days as from the date of depositing of the offers.

#### **10.2 Final Bond**

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

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

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

#### **10.3 Guarantee Retention**

Guarantee Retention of ten percent (10%) will be operated on amount including all taxes of the contract. The corresponding sum will be paid or the released guarantee, with the final reception of work.

### **ARTICLE 11: Period of validity of the offers**

The bidder will remain committed to his offer for ninety (90) days as from the handover date of the offers.

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

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

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

**<<OPEN NATIONAL INVITATION TO TENDER FILE N° 04/ONIT/MINEDUB/JC/JCITB/2025 of \_\_\_\_\_ 2025 FOR THE CONSTRUCTION OF A NURSERY BLOCK AT GNS SHUKAI IN VEKOVI VILLAGE- IN JAKIRI MUNICIPALITY IN JAKIRI SUB DIVISION, BUI DIVISION, NORTH WEST REGION>>**

**TO BE OPENED ONLY DURING THE OPENING SESSION»**

### **ARTICLE 13: Date and latest time of deposit of offers**

The offers will have to arrive under closed fold and seal latest .....2025 at 10: AM, by mail registered with acknowledgement of delivery or by deposit against receipt to the following address: Beyond this time no offer will be received nor accepted.

### **ARTICLE 14: Opening of the tenders**

The opening of the folds will be carried out in the Jakiri Council conference room on..... 2020as from 11:00 AM, by the Jakiri council Internal Tenders Board sitting in the presence of the duly elected bidders or their representatives and having a good knowledge of the file.

**DOCUMENT No. 5: SPECIAL ADMINISTRATIVE  
CONDITIONS (SAC)**



## Chapter I: General

### Article 1: Subject of contract

The Subject of this Contract shall For the Construction of a Nursery block at GNS Shukai in Vekovi village- in Jakiri Municipality, Jakiri Sub Division, Bui Division, North West Region.

### Article 2: Contract award procedure

This contract shall be awarded by TENDER N° 04/ONIT/JC/JCITB/2025 of \_\_\_\_\_2025

### Article 3: Definitions and duties (article 2 of GAC supplemented)

#### 3.1 General definitions (cf. Code)

- The Contracting Authority shall be the **Mayor Jakiri Council**  
He awards the contract, ensures the preservation of originals of said contract documents and the transmission of copies to Ministry in charge of Public Contracts and to the body in charge of regulation.
- The Contract Engineer shall be the **Sub Delegate MINTP Jakiri** hereinafter referred to as the Engineer and shall Visa the "Attachment"
- The Project owner **the Mayor of Jakiri council**. He represents the beneficiary administration of the works.  
He ensures respect of the administrative, technical and financial conditions and contractual deadlines.
- The Project Manager shall be: the **Council Development officer(CDO)**  
He ensures the interest of the project owner at the definition, preparation, execution and acceptance stages
- The contractor shall be *[to be specified]*.

#### 3.2 Security

This contract may be used security subject to any form of transfer of the debt.

In this case:

- The authority in charge of ordering payment shall be *the Lord Mayor JAKIRI Council*.
- The authority in charge of the clearance of expenditures shall be *the Divisional financial controller*.
- The body or official in charge of payment shall be *the Municipal Treasury JAKIRI*.
- The official competent to furnish information within the context of execution of this contract shall be *the Sub delegate of Public Works Jakiri*.

#### 3.3 Duties of the Control Mission, Project Manager

3.3.1 Missions *[to be completed, where need be]*

3.3.2 Means put at the disposal of the Control Mission *[to be completed where need be]*.

### Article 4: Language, applicable law and regulation

1.2 The language to be used shall be *[English and/or French]*.

1.3 The contractor shall be bound to observe the law, regulations and ordinances in force in Cameroon both within his own organization and in the execution of the contract.

If the laws and regulations in force at the date of signature of this contract are amended after the signature of the contract, the possible direct resulting costs shall be taken into account without gain or loss for either party.

### Article 5: Constituent documents of the contract (Article 4 of GAC)

The constituent contractual documents of this contract are in order of priority : *( to be adapted to the nature of the works)*.

1) The tender or commitment letter;



#### **Article 8: Administrative Orders (Article 8 of GAC)**

- 8.1 The Administrative Order to start execution of works shall be signed by the **Contracting Authority** and notified to the contractor by the **Project Owner** with a copy to the Contracting Authority, the Contract Manager, Contract Engineer, the Paying Body and the Project Manager, where applicable.
- 8.2 Upon proposal by the **Project Owner** and based on the minutes of a site meeting jointly signed by **MINMAP, Project Owner and Project Engineer**, Administrative Orders with an incidence on the objective, the amount and execution deadline shall be signed by **Contracting Authority** and notified by the **Project Owner** to the Contractor with a copy to the **Contracting Authority**, the **Contract Engineer**, the **Project Manager** and the Paying Body. The prior endorsement of the Paying Body shall possibly be required before the signature of those that have an incidence on the amount.
- 8.3 Administrative Orders of a technical nature linked to the normal progress of the work and without financial incidence shall be signed directly by **the Project owner based on the report of a joint site visit done by MINMAP, Project Owner and project Engineer** and notified to the contractor by the **Contract Engineer** or Project Manager (where applicable) with a copy to the **Contracting Authority**.
- 8.4 Administrative Orders serving as warnings shall be signed by the **Project Owner** and notified to the contractor by the **Contract Engineer** with a copy to the **Contracting Authority** and **Project Manager**. The **contracting authority** will proceed with the warning if the project owners fails in his responsibility within a time limit of (ten) 10 Days
- 8.5 Administrative Orders for suspension or resumption of work as a result of the weather or any other case of force majeure shall be signed by the **Contracting Authority** and notified by **his services** to the contractor with a copy to the **Project Owner, Contract Engineer and Project Manager**.
- 8.6 Administrative Orders prescribing works necessary to remedy disorders which could appear on structures during the guarantee period and not related to normal usage shall be signed by the **Project owner** upon the proposal of the **Contract Engineer** and notified to the contractor by the **Contract Engineer**.
- 8.7 The contractor has a time-limit of **fifteen (15) days** to issue reservations on any Administrative Order received. Having reservations shall not free the enterprise of executing the Administrative Orders received.
- 8.8 Concerning Administrative Order signed by the Contracting Authority and notified by the **Project Owner**, the notification must be done within a **maximum of 30 days** from the date of transmission by the Contracting Authority to the **Project Manager**. **Beyond this deadline, the Contracting Authority shall establish the default of the Project Owner, take over from him and carry out the said notification.**

#### **Article 9: Contracts with conditional phases (Article 9 of GAC)**

- 9.1 *[Specify if the contract has one or several phases]*

At the end of a phase, the Project Owner shall carry out the acceptance of the works and issue an attestation of proper execution to the contractor. This attestation shall condition the start of the following conditional phase.

- 9.2 The time-limit granted for notification of the Administrative Order to start execution of a conditional phase shall be five (5) days.

#### **Article 10: Contractor's equipment and personnel (Article 15 of GAC supplemented)**

- 10.1 Any modification, even partial, made to the technical bid shall only occur after the written approval of the Contract Manager. In case of modification, the contractor shall have himself replaced by a member of staff of equal competence (qualifications and experiences).
- 10.2 In any case, the lists of supervisory staff to be used shall be subject to the approval of the Project Owner in the days following notification of the Administrative Order to start execution. The Project Manager has **5 (five) days**



**Article 15: Price revision formulae (article 21 of GAC)**  
(Not applicable)

**Article 16: Price updating formulae (article 21 of the GAC)**  
(Not applicable)

**Article 17: Works under State supervision (Article 22 of GAC supplemented)**

- 17.1 The percentage of works under State supervision shall be *[must not exceed 2 %]* of the amount of the contract and its additional clauses, where applicable.
- 17.2 In the case where the contractor were invited to execute works under State supervision, the submitted and duly justified expenditures shall be reimbursed to him under the following conditions:
- The quantities considered shall be the hours used or the quantities of building materials and materials used that was the subject of joint job cost sheets;
  - The remunerations and salaries effectively paid to local labour shall be increased by forty percent (40 %) to take account of social benefits;
  - The hours put in by the heavy equipment shall be counted at the rate featuring in the sub-detail of prices;
  - Building materials and materials shall be reimbursed at cost price duly justified at the place of use, marked up by ten percent for loss, stocking and handling;
  - The amount for services thus calculated, including the hours put by heavy equipment shall be marked up by 25 % to take into account the overheads, profits and the contractor's unforeseen.

**Article 18: Evaluation of works (article 23 of the GAC)**

This contract is at *[unit price, all-in price or unit and all-in price]*.

**Article 19: Evaluation of supplies (article 24 of the GAC supplemented)**

- 19.1 *[Indicate, where applicable, the modalities for payment of supplies]*.
- 19.2 No security shall be requested for payments on account on supplies.

**Article 20: Advances (article 28 of the GAC)**

- 20.1 The Contracting Authority *may* grant a start-off advance *equal to 20% of the amount of the contract*.
- 20.2 This advance whose value cannot exceed twenty (20) percent of the initial amount inclusive of all taxes shall be guaranteed at one hundred (100) percent by a banking establishment governed by Cameroon law or a first-rate financial institution in accordance with the instruments in force and reimbursed by deduction of the payments on accounts to be paid to the contractor during the execution of the contract according to the modalities laid down in the Special Administrative Conditions.
- 20.3 The total amount of the advance must be reimbursed not later than when the value in basic price of the works reaches eighty (80) percent of the amount of the contract.
- 20.4 As the reimbursement advances, the Project Owner shall issue the release of the corresponding part of the guarantee upon the express request by the contractor.
- 20.5 The possibility of granting start-off advance or advance for supplies must be expressly stipulated in the Tender File.

**Article 21: Payment for works (articles 26, 27 and 30 of the GAC supplemented)**

**Article 24: Payment in case of a group of enterprises (article 33 of the GAC)**

Not applicable

**Article 25: Final detailed account (article 34 of the GAC)**

25.1 After completion of the works and within a maximum time-limit of fourteen (14) days after the date of Provisional acceptance, the contractor shall establish, based on joint reports, the draft final detailed Account of works executed to the contract Engineer. This final detailed account of works executed Summarises the total sums to which the contractor may be entitled as a result of the execution of the whole Jobbing Order.

25.1 *The Contract Manager has up to thirty (30) days to notify the corrected and approved draft to the Project Manager.*

25.2 *The contractor as up to thirty (30) days to return the signed final detailed account.*

**Article 26: General and final detailed account (article 35 of the GAC)**

26.1 The Contract Manager or the Project Manager has up to thirty (30) days to *establish the general detailed account and forward to the contractor after final acceptance.*

At the end of the guarantee period which results in the final acceptance of the works, the Contract Manager draws up the general and final detailed accounts of the contract which he has had signed jointly by the contractor and the Contracting Authority. This detailed account includes:

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

The signing of the general and final detailed account without reservation by the contractor definitely binds the two parties, puts an end to the contract, except with regard to interest on overdue payments.

26.2 The contractor has up to thirty (30) days to return the signed final detailed account.

**Article 27: Tax and customs regulations (article 36 of the GAC)**

Decree No. 2003/651/PM of 16 April 2003 lays down the terms and conditions for implementing the tax regulations and customs procedures applicable to public contracts. The taxes applicable to this contract include notably:

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

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

All taxes inclusive prices means VAT included.

**Article 28: Stamp duty and registration of contracts (article 37 of GAC)**

Seven (7) original copies of the contract shall be stamped by and at the cost of the contractor, in accordance with the applicable regulations.



- Either the indication "GOOD FOR EXECUTION";
- Or the indication of their rejection including the reasons for the said rejection.

The contractor has eight (8) days to present a new draft. The Contract Manager or the Project Manager then has a deadline of five (5) days to give his approval or possibly make comments. Delay in approving the draft execution schedule shall stay the execution deadline.

The approval given by the Project owner does not in any way release the contractor of his responsibilities. Meanwhile, works executed before the approval of the programme shall neither be ascertained nor paid for. The updated and approved schedule will become the contractual schedule.

The contractor shall constantly update on site, a schedule that will take account of real progress of the site. Significant modifications may only be made on the contractual programme upon receiving the approval of the Project owner. After approval of the execution schedule by the project owner, the latter shall transmit it within five (5) days to the Contracting Authority without staying its execution. However, if important modifications alter the objective of the contract or the nature of the works, the Contracting Authority shall return the execution schedule accompanied by reservations to be lifted within fifteen (15) days of the date of reception.

- b) The Environment Management Plan should bring out notably the choice technical conditions of the site and basic life, conditions of the backfill of the extraction sites and conditions for reinstating the works and installation sites.
- c) The contractor shall indicate in this schedule the equipment and methods which he intends to use as well as the personnel he intends to employ.
- d) The approval granted by the Project owner shall in no way diminish the responsibility of the contractor with regard to the harmful consequences which their implementation may cause both towards third parties and the respect of clauses of the contract

### 35.2 Execution draft

- a) The execution plan documents (*calculations and drawings*) necessary for the realisation of all the parts of the structure must be submitted for the endorsement of the [Contract Manager or Project Manager] at most fifteen (15) days prior to the date provided for the commencement of execution of the corresponding part of the structure.
- b) The [Contract Engineer or Project owner] has a deadline of *[five (06) days]* to examine and make known his observations. The contractor then has a deadline of *[04] four days* to present a new file including the said observations.

35.3 In case of the non-observance of the approval deadlines of the above documents by the Administration, these documents shall be deemed to have been approved.

### Article 36: Organisation and safety of sites (article 50 of the GAC)

- 36.1 Signboards at the beginning and end of each section must be placed within a maximum deadline of fifteen days after the notification of the Administrative Order to commence work.
- 36.2 The services to inform in case of interruption of traffic or along the deviated itinerary: *[To be specified in accordance with article 50(2) of the GAC]*.
- 36.3 Indicate the special measures demanded of the contractor, other than those provided for in the GAC, for rules of hygiene and safety and for circulation around or in the site.

### Article 37: Implantation of structures

The Project Manager shall notify within *[five]* days following the date of notification of the Administrative Order to commence work, the basic points and levels of the project.

### Article 38: Sub-contracting (article 54 of the GAC)

The commission shall examine the report of the pre-acceptance and shall proceed to the acceptance. An acceptance report (process - verbal) of the works shall be prepared by the Engineer and sign by all the commission members.

**Article 43: GUARANTEE PERIOD.**

The guarantee period is one (06) year from the date of the provisional reception for the section of new civil Engineering works.

**Article 44: Article 45: Final acceptance (article 72 of the GAC)**

44.1 Final acceptance shall take place within a maximum deadline of [fifteen (15) days] from the date of expiry of the guarantee.

The procedure for final acceptance shall be the same as for provisional acceptance

**Chapter V: Sundry provisions**

**Article 45: Termination of the contract (article 74 of the GAC)**

The contract may be terminated as provided for in Part III Paragraph IV of Decree No. 2018/366 of 20 June 2018 and equally under the conditions laid down in articles 74, 75 and 76 of the GAC especially in one of the following cases:

- Delay of more than fifteen (15) calendar days in the execution of an Administrative Order or unjustified stoppage of more than seven (7) calendar days;
- Delay in work resulting in penalties of more than 10 % of the amount of the works;
- Refusal to repeat poorly executed works;
- Default by the contractor;
- Persistent non-payment for services.

**Article 46: Case of force majeure (article 75 of the GAC)**

If the contractor were to raise the issue of force majeure, the thresholds below which claims shall not be admitted are:

- *Rainfall: 200 millimetres in 24 hours;*
- *Wind: 40 metres per second;*
- *Flood: decennial flood frequency.*

**Article 47: Disagreements and disputes (article 79 of the GAC)**

Disagreements and disputes resulting from the execution of this contract may be settled amicably. Where no amicable solution can be found for a disagreement, it is brought before the competent Cameroonian jurisdiction, subject to the following provisions: *[to be filled, where need be]*.

**Article 48: Production and dissemination of this contract**

Seven copies of this contract shall be produced at the cost of the contractor and furnished to the Contract Manager.

**Article 49 and last: Entry into force of the contract**

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



## THE SPECIAL TECHNICAL CONDITIONS (STC)

### GENERALITIES

The contractor in charge of this execution must make careful studies of the working drawings. Visit the site and bring up points not understood to the site supervisor for a clarification before making shop drawings and before setting out is carried out.

He will proceed to a careful study of the project and make observations and furnished modifications to the Architect before commencement of work. All supplementary tasks must be verified and signed by the supervisor. Careful studies must be done before commencement of foundation.

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competent and capable of maintaining proper supervision and care of the works and acceptable to the Employer, who in the absence of the Contractor, irrespective of any Engineer or foreman employed by any sub-contractor, shall see that the instructions of the Employer are carried out.

**0.7 Contractor's Scope of responsibility**

The Contractor will be held responsible for all approved work and materials which conform to all plans and specifications until the work is completed and accepted. He shall keep reliable watchmen from the beginning until the completion of the works. The Contractor will be held responsible for any and all damages which may arise or occur to any party whosoever, or injury to persons by reason of the works. In this regard he must ensure that the site personnel and site Supervisors, third parties and the works are adequately protected in accordance with the norms and the regulations in force.

**0.8 Scaffold, Ladders and Temporary Stairs & Shed**

The Contractor shall furnish and securely set scaffolding required for his work. All Scaffolding shall be of good sound materials, of adequate dimensions for its intended use and substantially braced and tied to ensure absolute safety for those required to use it. The Contractor shall provide all ladders required for his work. Ladders shall comply with all labour Law requirements.

**0.9 Removal of Rubbish.**

The Contractor shall at all times keep the building premises and surrounding sidewalks clean and free from rubbish and discarded or surplus materials; he shall identify handy locations about the premises to receive all rubbish and discarded or surplus materials, and shall direct his workers to deposit their rubbish and surplus materials in the receptacles provided for this purpose or in orderly piles in locations as he may designate.

**1.10 Method of Construction and Work Plan**

The Contractor shall submit to the Engineer not later than 28 days from the date of award of the Contract a general description of his proposed arrangements and methods for the execution of the Works, including temporary offices, buildings, access roads, deviations, Contractor's Equipment and its intended production output, working shift arrangements, strengths of work force of skilled and unskilled labour, supervision arrangements, power supply arrangements, supply of materials, stone crushing, aggregate production and storage, cement handling, concrete mixing and handling, methods of excavation, dealing with water, testing methods and facilities.

During the execution of the Works, the Contractor shall also submit to the Engineer full and detailed particulars of any proposed amendments to the arrangements and methods submitted in accordance with the foregoing.

The Engineer's normal working hours shall be defined as 7.30 am to 5.30 pm on weekdays with Saturdays and Sundays set aside for rest. If the Contractor wishes to execute Permanent Works outside these hours, or, public holidays he shall obtain the written permission of the Administration as required, and the Engineer at least one full working day in advance to enable the Engineer to make provision for supervision of such work.

**0.11 Other Contractors**

The Contractor is advised that other Contractors employed by the Employer and employees of the Employer may be working in connection with the Project on and around the Site.

Pursuant to the Conditions of Contract the Contractor shall not interfere in any way with any works, or property belonging to the Employer or a third party, irrespective of whether the position of such works is indicated to the Contractor by the engineer or not. The Contractor shall respect any works executed by others and articles supplied or installed by others and shall be held responsible for any loss or damage thereto if caused by him, his employees or his Subcontractors.

**0.12 Displacement of Existing Networks**

The Contractor shall request the services concerned to reroute any services network (water, electricity, telephone, ...) crossing the project site. The Contractor shall also take all necessary measures to channel off any natural water flowing through the project site.

**0.13 Construction Photographs and Videos**

The Contractor shall be responsible for the production of Construction Photographs and Videos as provided herein.

Photographs and Videos of the entire Site, or pertinent features thereof, shall be taken before the commencement of Works and promptly submitted to the Engineer. The same views shall be re-photographed upon completion of all the construction activities and a complete edited video shall be submitted with the Contractor's application for final payment. Additional photographs and videos shall be made each month throughout the progress of the Works at such times as requested by the Engineer, and submitted with the Contractor's application for progress payment.



- b) The execution of suitable arrangements for ensuring safety and absence of risks to health in connection with the use, handling, storage, transport and disposal of articles and substances,
- c) The provision of protective sectioning and equipment, with such personnel and equipment and such information, instruction, training and supervision as are necessary to ensure the health and safety at work of all persons employed on the Works all in accordance with the laws of Cameroon,
- d) The provision and maintenance of suitably equipped and staffed first aid stations throughout the extent of the Works to the satisfaction of the Engineer. The Contractor shall allow in his prices and be responsible for the cost of all such site welfare arrangements and requirements,
- e) Designation as Safety Officer of one of his senior staff who shall have specific knowledge of safety regulations, and experience of safety precautions on similar works and who shall advise on all matters affecting the safety of workmen and on measures to be taken to promote such safety,
- f) The provision and maintenance of access to all places on the Site in a condition that is safe and without risk of injury,
- g) The provision of adequate waterborne sanitation, refuse collection and disposal, complying with the Laws of Cameroon and all local Bye-laws and to the satisfaction of the engineer, for all houses, offices, workshops and laboratories erected on the Site,
- h) The provision of an adequate number of suitable latrines and other sanitary arrangements at sites where work is in progress to the satisfaction of the health Authorities and the Engineers.

## **1.10 DRAWINGS AND DOCUMENTS**

### **1.10.1 Standard Size of Drawings and Documents**

- (1) Drawings, whether to be supplied by the Engineer or the Contractor shall only be prepared according to Standard sizes A4 (210 x 297mm),
- (2) Documents, whether to be supplied by the Engineer or the Contractor shall be prepared on Standard size DIN A4 (210 x 297mm), except where particularly agreed otherwise with the Engineer.

### **1.10.2 Exhibited Drawings**

The Exhibited Drawings show the work to be done under the Contract, subject to the provisions for variations in the Conditions of the Contract, but they shall not be used for construction purposes unless specific instructions for such use are given by the Engineer as the work proceeds. In general, the Exhibited Drawings are intended to indicate the scope and complexity of the Work.

### **1.10.3 Working Drawings**

Working drawings are the drawings to be prepared by the Contractor and shall show sufficient dimensions, specific and typical details to define the various features of the Works, thus enabling the Contractor to perform the relevant works or to prepare the shop drawings.

### **1.10.4 Documents to be supplied by Contractor**

- (1) The Contractor is obliged to supply drawings and documents for the Permanent and Temporary works as stated in the present specifications or as may otherwise be requested by the supervising Engineer.
- (2) The drawings and documents to be provided by the Contractor include, but are not limited to, the following,
  - a) Site layout and installation drawings.
  - b) Work and construction programmes inclusive of revisions, if required;
  - c) Drawings and calculations for all Temporary Works and construction stages planned by the Contractor.
  - d) Bar bending schedules for reinforced concrete structures.
  - e) Reports and records of all tests and material tests to be carried out by the Contractor or his suppliers.
  - f) Drawings, records and reports on specific construction measures to be supplied by the Contractor in accordance with other provisions of the contract.
  - g) As-built drawings, incorporating all changes or amendments made in the course of the construction works, for all Permanent Works, including those for which the Engineer has prepared the working drawings.
  - h) As-built drawings shall be supplied to the Engineer immediately after completion of the particular part of the Works.
  - i) Brochures and technical literature of all equipment items and fixtures, which are to be permanently installed in the Works.
  - j) All instructions (in the form of lists, manuals and the like), which are required by the Employer for proper operation, as well as for expert maintenance and repairs of the structures and facilities.



All aggregate for concrete and mortar shall consist of naturally occurring sand and crushed rock. All sand shall be perfectly clean, uncoated grains free from injurious amounts of dusts, lumps, soft or flaky particles, shale, alkali, organic matter, loam or other deleterious substances, and the source shall be approved by the Employer. Sand and aggregate shall meet the following grading requirements:

Sieve Number	Total percentage of weight	
	Retained	Passing
4	0 - 5	95 - 100
8	10 - 20	80 - 90
16	20 - 40	60 - 80
30	40 - 70	30 - 60
50	70 - 88	12 - 30
100	92 - 98	2 - 30

Sand for mortar shall meet the following grading requirements:

Sieve Number	Total % by weight
4	0
8	0 - 5
16	0 - 5
30	25 - 50
50	65 - 80
100	85 - 95

The coarse aggregate shall be clean and angular in shape and shall have granular, crystalline or smooth (but not glossy) non-powder surfaces. As far as possible, only crushed stone shall be used as the coarse aggregate for the reinforced concrete part of the work. Crushed stones and gravel shall meet the following grading requirements:

Sieve Number	Total % by weight retained
25 mm	0
20 mm	0 - 10
10 mm	45 - 80
4 mm	90 - 100

The maximum nominal size of stones for reinforced concrete shall be 2.5 cm and for mass concrete 4 cm.

The sources of aggregates shall be approved by the Employer and approval for change of the source of supply of an aggregate shall only be granted if it can be shown that the new material is sufficiently similar in all respects to the one previously approved to produce concrete of the required finish, colour, and strength.

The grading, once approved, shall be adhered to throughout the works and may not be varied without the approval of the Employer.

### 2.3.1 Storage of aggregate

The aggregate shall be stored on site separated in its various types and grading, on a hard, dry, clean surface.

### 2.3.2 Water.

The water to be used for making concrete and cement mortar shall be clean fresh water, free from all impurities.

### 2.3.3 Cement.

Cement, both grey and white or non-staining unless otherwise specified, shall be true Portland of standard brand and manufacture. Grey Portland cement shall be used throughout, except where white or non-staining Portland cement is specified.

All cement packages must be properly stacked off the ground, completely covered and protected from the weather and dampness. Only one brand of cement will be permitted to be used for each phase of the work. Cement, which has become caked, partially set, or otherwise deteriorated, or any material, which has become damaged or contaminated, shall be rejected.

### 2.3.5 Proportion of Concrete Aggregates

Concrete mixes shall be of the class shown on the drawings and described in the Bill of Quantities or Engineer's Specifications or details. The proportions of dry aggregates and cement in different classes of concrete are as follows:

#### a) Class A - Concrete: for foundations, columns, beams and all other reinforced concrete structural elements.

Cement	=	350 kg/m <sup>3</sup>
Fine aggregate	=	400 litres
Coarse aggregate	=	800 litres

#### b) Class B - Concrete: for all grade slabs and all non-reinforced concrete elements.

Cement	=	300 kg/m <sup>3</sup>
Fine aggregate	=	400 litres



### **2.3.10 Protection.**

All exposed fresh concrete surfaces shall be protected to prevent damage. Sufficient covering shall be provided and kept on hand for this purpose. All concrete shall be adequately protected from injurious action of the sun in a manner satisfactory to the Employer.

### **2.3.11 Embedded Items.**

Before pouring any concrete, care should be taken to determine that all embedded items indicated on the drawings or otherwise specified are firmly secured and fastened in place.

### **2.3.14 Approval before concreting**

Whenever so required by the Employer, concrete shall not be placed in any part of the works until the preparations (reinforcement, formwork, embedded items, etc.) have been inspected and approved by the Employer and his authorisation to concrete that specific part has been obtained.

### **2.3.15 Steel Reinforcement**

Steel for normal reinforced concrete shall be deformed bars EF 40.

### **2.3.16 Bending and Fixing of Steel Reinforcement**

Steel reinforcement shall be bent cold accurately to the shapes and dimensions shown on the drawings.

Reinforcement shall be fixed rigidly and accurately in the forms in accordance with the details shown on the drawings so that the specified amount of cover to the bars is everywhere maintained. For concrete members in contact with wet earth or moisture, minimum cover is 3cm. Minimum cover for beams and columns above ground level 2.5cm and for slab above same is 1.5cm

Approved spacers and chairs may be used. Reinforcement temporarily left projecting from the concrete at construction or other joints, shall not be bent out of position during the period in which concreting is suspended, except with the approval of the Employer.

The steel shall be free from oil, grease, dirt, paint and rust. Bars, generally shall be of the required lengths; welding of main bars will not be permitted.

### **2.3.17 Form work**

Timber forms shall be constructed of sound, well-seasoned timber of such quality and strength as will ensure rigidity throughout the placing, ramming, vibration and setting of the concrete without visible deflection. They shall be so constructed that they can be removed without shock or vibration to the concrete. All joints shall be tongued and grooved, unless otherwise required, and shall be made sufficiently tight to prevent any leakage of grout. All form work shall be inspected and approved by the Employer before concrete is placed within it.

The use of steel forms or forms made of other materials may be permitted provided the requirements for strength, joint, etc., are met and they are to the satisfaction of the Employer.

Forms for all permanently visible concrete surfaces shall be planed smooth so that the internal faces are perfectly true and free from irregularities. Where the finished surfaces of the concrete are not to be permanently exposed, the forms may be constructed of plain butt-jointed sawn timber.

### **2.3.18 Preparation of Forms before Concreting**

Before the concrete is deposited, the forms shall be thoroughly cleared and freed from saw-dust, shavings, dust, mud or other debris by flushing with water. The inside surfaces of the form shall be coated with lime wash or an approved mould oil, care being taken to keep the reinforcement free from any such coating material.

### **2.3.19 Formwork for Vibrated Concrete**

When concrete is to be vibrated, special care shall be taken by the Contractor to maintain rigidity of the formwork and supports against the action of the vibration of the concrete.

### **2.3.20 Removal of Forms**

Forms shall be removed in such a manner as will not injure the concrete, and no formwork shall be removed before the concrete has sufficiently set and hardened. The table below gives minimum periods before striking formworks.

<u>Type of formwork</u>	<u>Minimum period before striking</u>
1. Vertical formwork to columns	12 hours
2. Soffit formwork to beams and slabs	14 days
3. Props to beams	21 days

The provision of suitable curing methods should immediately follow the removal of the formwork.

### **2.3.21 Tolerances**

The maximum tolerance within which concrete work shall be constructed are as follows;

- All setting out dimensions  $\pm 5\text{mm}$
- 1 Section of concrete members  $\pm 3\text{mm}$



- 1.5.14 Corner stones shall be well-dressed and chiseled. These shall be laid header and stretcher alternate. They shall not be smaller than 0.025 cu m and 300 mm in length. Further it must be noted that 25% of the above shall not be shorter than 500 mm in length.
- 1.5.15 Jambs shall be made from dressed corner stones.
- 1.5.16 Work of the day shall be raked to a depth of 20 mm while the mortar is green and cleaned with a coired string brush or wire brush. Stone surfaces shall be free of mortar or cement coats.
- 1.5.17 Vertical joints shall be staggered.
- 1.5.18 At angular junctions, stones at each alternate course shall be wellbonded into the respective courses of the adjacent wall.
- 1.5.19 Masonry construction with very thin faces, tied up with occasional through stones or filled up with dry packing or small-size aggregates shall be strictly prohibited.

### SECTION 3: ROOF SUPPORT STRUCTURE AND ROOF COVERING

#### 3.1 General description

The works described here involve the construction of a nursery block at GNS Skukai, roof trusses and purlins in hardwood, for the roof of some toilets in Jakiri Council area.

All construction details pertaining to jointing and sizes of members of trusses and other structural units as shown on drawings or as laid down in this or any other particular specification must be strictly respected.

#### 3.2 Nature of wood.

The wood to be used for the works may be Doussie, Iroko, Mowingui or Landa or any other locally available hardwood of similar quality and characteristics. It must be air-dried with a moisture content between 14-17%. Wood for timber beams and roof trusses must be of good quality and free from all defects, wavy edge, shakes, splits, and loose or dead knots. It must be well aligned and no traces of decay or charring would be accepted. Adequate information must be provided concerning the source and handling of the wood, to facilitate the verification of quality by the controlling Engineer.

#### 3.3 Preservation

All wood intended for the above-defined structural works shall be preserved with a good fungicide-insecticide such as Xylamon. Preservation shall be achieved by immersing the various members of the trusses and other structures in preservative for a period of 30 seconds to 3 minutes, before assembling. New surfaces exposed by cutting after preservation would be further preserved by coating with preservative to a spread of 250 g/m<sup>2</sup>. It is therefore advisable to prepare completely and cut the timber into pieces of appropriate dimensions prior to treatment.

#### 3.4 Painting

Where painting of the timber is desired, all relevant parts of assemblies or individual pieces should be protected with a priming paint and one undercoat before leaving the factory. Steel components other than bolts, connectors and washers should in all cases be painted before dispatch to the site. All surfaces should be thoroughly cleaned to remove all loose scale and rust before being painted with one coat of genuine red lead paint.

#### 3.5 Workmanship

##### 3.5.1 Moisture Content.

In order to minimise the effects of shrinkage or warping, the moisture content of the timber at the time of fabrication should be within 3% of the moisture content likely to be attained by the timber in service.

##### 3.5.2 Machining of Timber

###### a) General

All timber should be sawn, planed, drilled or otherwise machined to the correct shape and size in accordance with the detailed drawings and specifications. Dimensions and spacing should not be scaled from drawings. Pieces damaged by splitting or bruising would be rejected if the dimensions allowed for similar defects in grading are exceeded.

###### b) Surfaces:

The quality of the surface, as finished, should be appropriate to the position and use of the timber. Surfaces at any joint in an assembly should be such that the parts may be brought into contact over the whole area of the joint before connectors are inserted or any pressure or restraints from the fastening is applied. These surfaces should have a good sawn or planed finish. Bearing surfaces of cuttings should be smooth.

###### c) End Sealing

Where splitting is likely to have a deleterious effect, end sealing is recommended.

##### 3.5.3 Jointing

###### a) General

Details of the joints at nodes of the trusses are as shown on the drawings. Joints at nodes of the trusses are to be realised in nails.



- 3.9 Purlins:**  
Purlins shall be in well-seasoned timber of dimensions 5 x 10 cm fixed to the trusses with the help of angular wooden wedges which also serve to keep the purlins on edge at right angles to the rafters. The purlins must, prior to use, be treated with wood preservative as described above.
- 3.10 Roof Covering:**  
The roof covering shall be of 5/10 aluzinc (Tôle bac) sheets of maximum possible length laid to fall as shown on the roof plan.

#### **SECTION 4: ELECTRICITY**

#### **4.1 Preamble**

##### **4.1.1 The Works.**

This section specifies the requirements to be met in the execution of the various operations involved in the installation of electrical energy and equipment to the building. The Contractor shall be required to execute the works in strict compliance with the drawings and diagrams provided. However, if necessary, he may propose any modifications that he may deem fit and obtain the approval of the Supervising Engineer prior to implementing such modifications. Where the Contractor proposes a modification, he shall be required to undertake a detailed study and produce all necessary electrical circuit diagrams and other relevant electrical drawings, and obtain approval thereof from the Employer prior to execution of the works.

##### **4.1.2 Definition of works.**

The contractor shall be expected to realise all the works and deliver the installations to the Employer in working order and according to existing regulations and standards.

##### **4.1.3 Composition of works**

The works shall generally comprise:

- Low voltage wiring of the building (i.e. installation of various circuits as required - lighting, sockets, etc.)
- Installation of various control and protection units as necessary
- Low voltage horizontal distribution boards.
- Normal lighting of all spaces in accordance with electrical layout plan and standard lighting requirements
- Earthing of the building and installations.

##### **4.2 Documents to be supplied by the Contractor.**

- Various circuit diagrams and other detailed electrical drawings
- Plans showing passages and reservation in civil works for electrical works.
- As built drawings showing location of all electrical circuits, panel boards, circuit breakers, equipment, etc.

##### **4.3 Technical Prescription – Conditions for Execution of the works.**

##### **4.3.1 Presentation of Materials.**

The Contractor shall present for approval samples of the materials, equipment and appliances he intends to install. Installation can only be started when the Employer has given his approval.

##### **4.3.2 Functioning Voltage.**

Materials supplied and installed should be rated to function on the standardised voltages of 220V single phase neutral and 380 V three phases or as instructed by the Employer.

##### **4.3.3 Current Breaking Capacity, Short Circuit Current Resistance.**

Protection equipment of the various circuits should ensure the breaking of fault current of the point under consideration. Other equipment associated with the process of protection should be able to resist maximum short circuit current during the period that the fault is supplied.

##### **4.4 Workmanship.**

The crossing of walls or floor/ceilings will be by means of pipes adequately protected against fires. In addition, tubes for cable work should be plugged during construction to prevent any water (which may come from regular cleaning of the site) from entering the tube.

Cable work for sub circuits shall be run in appropriate PVC or other conduits installed surface or buried as per the Employer's instructions. The derivation of circuits will be done in encased junction boxes, and all junction boxes must be accessible and have removable covers.

##### **4.5 Test and Receptions.**

On completion of the works, a pre-reception will be carried out consisting of:

- General verification of the installations of the buildings to ensure that they are functioning well.
- No-load and on-load tests of the networks and equipment.
- Control/detection of over-heating and voltage drop.
- Test to verify the insulation of currents connected between phases and between phase and neutral.
- Control/verification of earth resistance.
- Control/verification of conformity to the project.



Exit valves would be judiciously located in the pipe network to allow for purging of the network of water or air when need be. A stop valve shall be installed on the supplying line of each sanitary fitting. Connections between main supply PVC pipe and sanitary fitting shall be realised with copper pipes.

### 5.3 **General Conditions for Installations Works.**

Before starting any operation, the contractor shall submit his working drawings to the Employer for approval. He shall indicate in advance where his pipe work would pass through beams, columns, walls, etc ...

The contractor shall ensure that the installations do not produce noise when turned on. The installations should be capable of functioning free of vibrations, and where vibrations cannot be avoided, enough precautions should be taken to reduce the noise to the barest minimum.

The Employer shall, if he deems it necessary, verify the quality of material to be used or equipment to be installed. This verification, however, shall not relieve the Contractor of his responsibility over the works until after the expiration of the guarantee period.

Tests shall be carried out on the installations prior to reception of the works. These tests shall aim at appraising, *inter alia*:

- Ease and efficiency in manipulation of taps, valves, etc.
- Supply flow rates for each equipment
- Efficacy of evacuation mechanisms
- Evacuation flow rate of each fitting
- Efficacy of trappings.
- Noise level in operation

Provisional reception of the installations shall be done only if the test results are satisfactory.

Final reception shall be done one year after provisional reception, and the Contractor shall be required to make good at his own expense all defects observed during the guarantee period before final reception is done.

### 5.4 **As-Built Plans.**

At the end of the works, the Contractor shall produce and submit to the Employer, detailed as-built plans showing the executed works. Such details would include precise locations of pipes and their joints, stop valves, etc.

## **SECTION 6: JOINERY WORKS**

### 6.1 **Composition of Works**

The works described in this section shall include all wood/metal/aluminium joinery and iron-mongery works as follows:

- The supply and fitting of all security locking and handling devices for doors and windows as described in this section.
- The supply and installation of all metal and/or aluminium profiles for metal joinery works.
- Supply and fitting of timber frames, door shutters, glazing and finishes in accordance with the plans.
- Suspended ceiling in plywood including insulation and all finishes
- All other accessory works necessary for the completion of metal, or timber joinery works.

### 6.2 **Materials**

#### 6.2.1 **Iron-Mongery:**

Surfaces of all castings shall be true, smooth and free from burrs, and all portions of lock mechanism, etc., which come in contact with or bear upon other parts shall be dressed to a true, smooth surface.

All door closers (exterior and interior) shall be guaranteed for a period of one (01) year.

#### 6.2.3 **Latch Bolts: -**

Latch bolts shall be constructed so that they can in no way work loose, and if washer is rivet head must be full and machine set. All latch and lock bolts not otherwise specified shall be cast bronze.

#### 6.2.4 **Screws:**

All hardware shall be secured with suitable screws and bolts of same material and finish. Screws for strike and face plates, hinges, sash fasts, transom hardware, windows pole plate, half-mortise brass locks, overhead door holders, and all door check sand brackets for same shall be flat-headed counter sunk screws. Screws for all other exposed hardware oval headed. All shall be countersunk, unless distinctly specified otherwise. Screws for butts for exterior aluminium doors shall be stainless steel.

Hardware for metal frames, doors and windows, shall be secured with suitable tap-screws, mill screws and bolts. All wood screws for securing door butts shall be long enough to secure butts through jamb and into wood stud behind jamb and blocking.

#### 6.2.5 **Hubs: -**

Even Hubs for knob spindles shall be of cast bronze, finishing flush on each side of case.

#### 6.2.6 **Cylinders:-**

Cylinders of locks shall be of proper length to fit the doors or drawers for which they are intended. Cylinders for all locks shall be cast bronze using a common standard diameter cast bronze rotating plug. The key way shall be a paracentric type of single section with seven pins or multiple (four or more) section with six pins multiple



- 6.6.5 Dimensions**  
All dimensions are to be taken from the drawings and scheduled data and verified on the buildings, and not from the Bill of Quantities (here provided).
- 6.6.6 Framing.**  
Joiner's work is to be executed in the best possible manner properly screwed, temoned, shouldered, wedged, pinned and glued with all exposed faces wrot and sand-papared as required.  
All glued joints are to be cross-tongued and all edges, where not moulded, are to be slightly rounded.  
All machine-made work is to be finished off by hand where required and wrot in the best manner for painting, where applicable.
- 6.7 Wood Preservative**  
All structural timber, door and window frames are to be brushed with a wood preservative complying with B.S. 1282 type B. Timbers shall be treated after cutting and before assembly and any timber which is cut after treatment shall have the cut surfaces treated with two brushed coats of the preservative.  
The preservative used shall be that which will allow satisfactory painting after drying out.
- 6.8 Insulated Ceilings: -**
- 6.8.1 Ceiling Boarding**  
Ceiling boarding to be of 5mm plywood.
- 6.8.2 Skirting**  
Where shown on the drawings or quantities provide and fix 3cm x 10cm mahogany chamfered skirting plugged to walls and mitred at junctions. Provide all necessary fixings and grounds.
- 6.9 Flush Doors: -**  
All doors shall be as described in the particular specification or as indicated on drawings and door schedules.
- 6.10 Door Frames: -**  
Unless otherwise specified in the detail drawings, provide 18cm x 5cm rebated frames to all doors and fix to walls with four mild steel holdfasts screwed to back of frame and built into joints of hollow block work with concrete mortar.  
Fix feet of all door frames with 1cm x 15cm mild steel rod doweled into frame and floor.  
All door frames are to be fixed with faces flushed with the finished plastered surface of the walls.  
Doors are supplied complete with frames, security locks, architraves, and all finishes.
- 6.11 Shelving:**  
Provide 2.5cm shelving to cupboards etc., as shown on the drawing fixed on 5cm x 2.5cm framed gallsions brackets. All shelving shall be fitted 2.5cm clear of wall face, as shown in detail drawings.
- 6.12 Material for Interior Finish: -**  
All interior wood finish shall be made up of thoroughly seasoned, kiln dried woods of the kinds specified.
- 6.12.1** First quality, clear, plain saw Iroko, Mahogany, Bete, Makoré, etc. flat grain shall be used for all interior wood finish throughout, except as otherwise specified hereinafter or shown on drawings. All this material shall be clear on all exposed faces and edges, free from checks, cracks, or other blemishes that would mark the appearance of the finished wood.
- 6.12.2** In assembling interior wood work, arrange pieces so that variations in grain pattern are kept to a minimum at all areas. The Contractor shall submit two samples for the use of the painters in making colour samples. He shall also submit three sets or more samples of Iroko, Mahogany and any other hardwood available in Cameroon for approval before starting on any of the millwork. Dimensions of samples shall be 15cm x 13cm and shall be sand-papared smooth.  
First quality red or white Iroko or Mahogany shall be used for all interior window frames, trims, and for all wood finish.
- 5.13.3** All finished wood work except that which is specified to be stained and varnished shall be primed on both sides and all edges with white lead and linseed oil before leaving the shop.  
The Contractor shall assume full responsibility that all the finished woodwork is completely primed, stained, filled and shellacked as required before applying finishing coats of paint or varnish.  
Stain and filler may be applied in one operation, provided that the material to be used is factory mixed and is approved by the Employer before application.
- 6.13 Plywood:**  
Where ever plywood construction or veneer panels are required by drawings or specifications, it shall conform with the following requirements: -  
Graphic Indication for plywood: Where plies are required by drawings, disregard the measured thickness of the individual plies unless dimensions in figures are given thereon.
- 6.13.1 Thickness:**



sandpaper. When delivered at the building the doors shall be at once fitted to the openings and the top and bottom edges sealed with a heavy coating of approved paint. The Employer reserves the right to take apart one or more doors for the purpose of examining materials and method of construction. If the doors selected at random are found after examination to be not in compliance with the specification, then the Employer may take apart other doors.

- 6.16.1** Jambs shall be solidly blocked out especially where hardware is to be applied, blocking behind door butts shall be set so as to receive the butt screws.

Interior flush wood doors may be assembled with highly water-resistant glue and 2cm hardwood spiral dowel, five inches long, or with mortise and tenons with blind wedges.

Provide opening in wood doors, where required, for the glass light specified in the door schedule.

**6.17 Window Trim**

Wood windows shall be trimmed with stools, aprons, casings, mouldings, etc., in accordance with details, unless otherwise indicated.

**SECTION 7: FLOOR & WALL FINISHES**

**7.1 Scope:**

The work under this heading includes all floors and wall tiles as indicated on drawings or specified. All rooms to be tiled will have a 10cm skirting in the same material as floor finish except where P.V.C. tiles are specified. The Contractor shall submit two samples of each type and pattern of floor and wall tiles for approval.

**7.2 Vitreous Tiles:**

Unless otherwise specified in amendments, tiled floors may be paved with vitreous ceramic tile or mosaic type consisting of a combination of 2.0 cm or 5cm units in patterns and of colours (not more than two) to be selected by the Employer. Tiles shall be laid on a bed of stiff type mortar and shall be tamped down to the proper level. Joints shall be grouted with neat Portland cement. The surface of the tiles shall be cleaned of cement.

**7.3 Glazed Tile:**

Where tile wainscoting is indicated on drawings, it shall be to heights indicated on the drawings. Wainscots shall be made up of 10cm tiles.

**7.4 General:**

All tile work shall be cleaned upon completion of the tile laying operation, care being taken of all adjoining material and all work shall be left in a satisfactory condition.

The surfaces to receive the tile shall be well wetted, and the tile well soaked with clean water before application, no more tiles shall be removed from the soaking tubs to drain board than can be applied within the hour.

- All wall tiles shall be laid up with vertical joints (not over 2mm thick), continuous and unbroken in perfect alignment.
- The tile shall be buttered or floated to suit conditions.
- All joints shall be filled solidly with white cement.
- Tiles shall be set, with Type B mortar, to the required levels and planes with true lines and angles.
- Cut edges of tile shall be carefully ground and jointed. Do all cutting and drilling required for setting and as may be required by other contractors in a neat manner without marring the surface.

**7.5 Option for Setting Glazed Tile:**

The Contractor has the option of using the thin bed (Miracle Adhesive) setting method as hereinafter specified in lieu of the customary method of setting glazed tile in cement. If the Contractor chooses to use this option, he shall install a smooth white finishing plaster coat immediately behind all glazed tiles.

If the Contractor chooses to exercise the option of the thin bed setting method for tile, he shall make all required adjustments in room sizes, door and window trims, etc. that may be necessary to suit conditions. This option of the thin bed setting method applies only to glazed tiles.

**7.5.1 Adhesive**

The adhesive shall have been used for setting tiles successfully for at least five years within the National territory under similar conditions. The adhesive shall have a rubber and resin base, and it shall not contain any asphalt or vegetable oils. The adhesive shall be supplied in containers bearing labels with instructions for application, methods of cleaning tools and work, and warning of any conditions where its use is not recommended.

**7.5.2 Prepared Grout**

Miracle tile grout of proper type, or approved equal, shall be used and installed in accordance with the manufacturer's directions.

**7.5.3 Surfaces to Receive Tiles**

All surfaces to receive tiles shall be firm, smooth, clean level, plumb and square. Inspect all surfaces prepared by others before starting tile work and report all unsatisfactory conditions. Starting tile work shall be considered an acceptance of work of others.

**7.6 Installation of Wall Tiles**



- Samples of colour and finish shall be prepared under natural lighting conditions and in the places to which the various finishes are to be applied. Triplicate samples if finish on wood specified to be stained and varnished shall be prepared and furnished for approval; additional samples shall be furnished when required.
- No work shall be done prior to the approval of such samples and the finished work of each kind shall be of uniform character throughout and equal in all respects to the approved samples. Unsatisfactory finishes shall be removed and the work refinished as directed.

#### **8.4 Exterior Woodwork & Metalwork**

- 8.4.1** Sash and doors including frames shall be painted two coats of the specified oil paint (see quantities) in addition to the shop coat. Exposed surfaces of steel lintels shall be painted with the windows.
- All other exterior woodwork not otherwise specified, shall be primed with a heavy coat of lead and oil paint on all sides and edges before erection, and painted with two coats of the specified finish paint.
- A third coat of paint shall be applied to all windowsills at completion of job, when directed.

#### **8.4.2 Exterior Metal Work**

Touch up all damaged surfaces of exterior metal (except on-ferrous metals) work with read lead. All steel lintels in exterior walls (not connected by hangers, bolts or otherwise to the structural steel work) shall be painted a field coat of read oxide before erection.

In addition to the shop coat for miscellaneous and ornamental iron work all exposed exterior miscellaneous ornamental iron work shall be given two coats of the specified finish paints. This shall also apply to all exterior lintels furnished under structural steel.

Galvanised iron railings and wirework shall be given one coat of approved galvanised iron primer and one coat of lead, zinc and titanium paint or aluminium as will be directed.

All exterior steel and hollow metal windows and frames after being erected and before glazing shall receive one coat of the specified finish paint (see quantities) and a second coat of same paint after putty has dried and set, not sooner than three weeks after glazing.

#### **8.5 Interior Woodwork**

All woodwork (except wood flooring), in addition to the staining and filling, lacquering or shellacking, specified to be done under other sections of work shall be finished with one coat of flat or spare varnish as will be directed.

#### **8.5.1 Plaster, Concrete and Masonry**

All plaster, concrete or masonry wall and ceiling surfaces throughout the building (except the walls and ceilings of the pipe and duct spaces) shall be painted as hereinafter specified.

The plastered walls and ceilings, including ceiling surfaces shall be given a priming or first coat, and then finished with a final coat of interior or gloss paint as selected, except laboratories, changing rooms and the like where the final or finishing coat shall be of enamel and composed of equal parts of enamel and flat finishing coat.

No painting is required on finished plastering that is permanently concealed back of fixed cabinets, etc.

#### **8.6 Paints**

All materials shall be delivered on the premises in the original sealed containers with the seals unbroken and with the name and trade brand of the manufacturer on each container. The manufacturer shall also place on each container a label on which he recommends the thinner to be used with the particular paint if thinner is necessary.

All paints, varnishes and painting materials shall be factory mixed and shall in all instances conform to these specifications.

Where paints or painting materials are specified by formula the label on the container shall also bear the formula of the composition of the contents of the containers. All material must be approved before it is used. Varnishes shall be in containers of not over 10 litres capacity.

### **SECTION 9: EXTERNAL WORKS AND LANDSCAPING.**

#### **9.1 Lateritic gravel recharging**

These Materials have to respond to the following specification:

- The CBR after 4 days of imbibing to a dry density corresponding to 95% of the OPM should be higher or equal to 50 in fill-in and 60 in the basic layer
- The indice of the plasticity should be lower than 14%.
- The OPM density should be higher or equal to 2.00
- The grains of the materials should have diameter less than 60mm for (fill-in) and 50mm (basic layer) and more to that the sizes should be continuous. The materials to be used for fill-in and the basic layer will come from:
- Cuts, quarries and laterite pits for fill-in
- Quarries or laterite pits for the basic layer.

#### **9.2 Quarries or laterite pits**

In a situation where the contractor is obliged to depend on a laterite pit for materials because of the lack of re-utilizable cuts for fill-in or for the basic layer, using quarries will only commence after a written authorization from the project owner. This authorization may be withdrawn at any time if the project owner thinks that the materials are not of a good quality. The contractor cannot by this ask for any claims.



### 10.1.1 Materials

Material for constructing the stone surface consists of coarse sand, stone and gravel. The minimum required characteristic of the material are described below: Stones The stone to be used for the pavement must be clean, hard, durable, solid and free from soft material or loose pieces. Cracked and hollow stones must not be used. Stones should be cubic or rectangular in shape. The stone should not be able to be cracked under the impact of compaction equipment. Round shape stone or river stones are not recommended for this purpose. The size of the stones may vary depending on the functions of the stones or as otherwise specified in the drawings. Recommended size and shape of the stones to use for the stone surface are:

Stone for surface should be 15 cm x 25 cm, with the smallest acceptable size 10 cm x 15 cm. Stones should be cubic or rectangular shaped. Stone from a quarry should be dressed or shaped to the required shape when delivered to site. Stones for edge kerbs should ideally be 20 cm x 30 cm with the smallest acceptable size 15 cm x 25 cm. The kerbstones should be cubic or rectangular shaped. Kerbstones from a quarry should be dressed to shape when delivered. The kerb stone is crucial for holding the other stones in place.

Sand Sand for the stone surface is used to accommodate any irregularities in the shape of the stones allowing the stones to be assembled with a smooth and level riding surface. The sand is also used as a drainage medium for any water entering between the stones. The sand should be coarse sand either from river or mountain sand and must be clean, free of leaves, grass, compost, clay lumps, or dust etc. Drainage outlets from the stone bedding must be provided at regular 5 to 10 m intervals. Gravel Gravel is used to fill gaps between stones to restrain the stones' movement when under traffic load. The gravel also acts to provide a smooth running surface in the final layer. The gravel is laid over the stone surface and will fill the gaps. The gravel for this purpose can be mountain gravel or river gravel and should be well graded. The maximum size of the gravel however should not be greater than 50 mm and must be clean, free of leaves, grass, compost, clay lumps etc.

## 10.2 Construction methods

### 10.2.1 Work Method Step 1.

Setting Out Set out the road cross section by setting center line peg and pegs at edge of the carriageway. The cross section should be set for every 5 m interval. Mark the finished level of the stone surface at the center line and transfer with the design cross-fall to edge pegs. The cross-fall from the center line to the edge pegs should be 4-5%.

Excavate foundation for Kerbstones. The foundation should be excavated along all surface edges. The width of the foundation should be 25-30 cm and depth should be 15-20 cm. Bed level of the foundation of both edges should be checked using a line level to ensure they are at the same level. Position Kerbstones in the excavated foundation in vertical position by keeping top level of the stone as set in the peg. The kerbstones should then be placed as tightly as possible. Back fill the kerbstones with gravel and provide compaction by hand rammer. Repeat the same process of placing kerbstones along the other edge of the yard.

### 10.2.2 Work Method Step 2;

Blinding Course Prepare the road sub-base by shaping the sub-base to level and ensuring 4-5% camber. Compact the prepared sub-base then place and spread the blinding course layer of coarse sand of 5 cm thickness.

### 10.2.3 Work Method Step 3;

Placing of Stones Ensure the string line is tightened at the marked levels and connected from edge pegs to centre line pegs. Place the stones on the spread sand as close together as possible. Where some stones are slightly wedge-shape it is necessary to place the wider end down onto the sand layer. The stones should be placed starting from the outside edge and then working towards the centre line of the road. Ensure the top level of the stones is at the level set by the string line. Where-ever the top level of the stone is higher than the set string line; such stones should be hammered down into the sand to level. After the large stones are placed it is important to use small stones to tighten the larger stones by inserting the small stones into gaps between the large stones. The laying of the stone surface requires skilled labour to achieve good workmanship.

### 10.2.4 Work Method Step 4;

Surface Gravelling and Compaction to avoid movement of the stone, a thin layer of sand is spread over the stone surface and washed into the voids by water.

In order to make the stone surface water-tight and to provide a smoother surface for vehicles, the stone paving should then be covered by a thin layer (5 cm) of selected gravel. The selected gravel should contain mixture sand and coarse aggregate of grading not larger than 50 mm with a small portion of clay. The selected gravel is spread on the stone surface. Some portions of the gravel will then be filled the stones gaps to further strengthen the stability of the stones and other gravel will remain on the surface. After spreading the selected gravel, final compaction will be carried out, by 2-3 passes using a 3-5 tonnes roller. Vibration during the compaction should



	<p>possible.</p> <ul style="list-style-type: none"> <li>✓ Check gaps are filled by smaller stones</li> <li>✓ Check top levels are on an even plane</li> <li>✓ Check all the gaps between the stones are fully filled with gravel or sand.</li> </ul>		
Spread gravel	<ul style="list-style-type: none"> <li>✓ Check thickness of gravel laid on the surface</li> <li>✓ Randomly count the number of passes carried out for compaction.</li> </ul>	After placing stone surface	Measuring tape
Construction shoulders and filter drain	<ul style="list-style-type: none"> <li>✓ Check material for filter drain is in accordance with the Specification</li> <li>✓ Check the dimension and locations of the filter drains</li> <li>✓ Check quality of material used for shoulder is as per Specification</li> <li>✓ Check level of the shoulder is the same as the top level of kerbstones and slopes toward the side drain</li> <li>✓ Check the degree of compaction of the shoulder by randomly counting the number of passes during compaction.</li> </ul>	During construction of shoulders	Measuring tape, DCP
Final check for finishing work	<ul style="list-style-type: none"> <li>✓ Visual check on overall appearance :</li> <li>✓ Check all remaining material has been cleared from site</li> <li>✓ Check that all holes or side borrow are filled and levelled</li> <li>✓ Check slope protection works are completed and the surface slopes are stabilized.</li> </ul>	After completion of the work	File report

#### 10.4 Occupational Safety and Health (OSH) in the Construction of Rigid Pavement Roads and surfaces.

This section addresses the essential provision of general safety and health measures for all workers on construction and quarrying sites for the construction of rigid pavement of stone and concrete.

##### 10.4.1 Safety Measures Carry out a safety briefing for all workers before works begin.

Make sure work is organized so that each worker has enough space to carry out his or her task without endangering other workers. Make sure that all workers are aware of the need for protective clothing including footwear, eye-protection and gloves for certain construction and quarrying activities. Place warning signs or cones at each end of the work area. The warning signs should be placed 50-100 m away from the working areas. The worksite shall either be clear and safe or have warning lights on at night and protection around the site works. All equipment operators must be trained in the use of their equipment (trucks, rollers, concrete mixers, quarrying and construction hand-tools). Equipment must be maintained in good condition and workers must be aware of that safety covers should be used over moving parts on machinery. Other than authorised workers, No persons, especially children, are allowed to enter in the work area. The contractor shall not allow the use of alcohol or drugs on the works site or in the site camp.

The Contractor shall maintain a diary recording the details of any worker accidents on site and shall report these to the supervising engineer on the day of any accident.

##### 10.4.2 Drinking Water

Clean drinking water must be available within 50 metres of all work sites and at least 2 litres should be available per worker per day. Consideration should also be given to flexible working hours to avoid working in the hottest time of the day.



These Works shall consist of temporary control measures as shown on the Drawings or required by the Engineer during the process of the Works, to control soil erosion and water pollution, by use of berms, dykes, silt fences, brush barriers, dams, sediment basins, filter mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods. Appropriate control measures will be required to avoid emission of high concentration of sediments into wetlands, swampy areas and other particular sensitive areas. The temporary erosion control provisions shall be coordinated with permanent erosion control features to assure economical, effective and continuous erosion control throughout the period of the Works.

#### **11.4.1 Construction**

A schedule of proposed temporary (and permanent) soil erosion control Works shall be developed by the Contractor at the commencement of the Contract, in consultation with the Engineer and to his satisfaction. The Contractor shall carry out (and maintain) temporary erosion control to prevent soil erosion that will adversely affect construction operations, damage adjacent properties, or cause contamination of adjacent streams or other watercourses, lakes, ponds, swamps or other areas of water impoundment. The Contractor shall incorporate all permanent erosion control features as shown on the Drawings into the Works at the earliest practicable time as outlined in his schedule, to minimise the need for temporary erosion control measures.

#### **11.5 Abatement of air pollution**

The Contractor shall comply with applicable Cameroonian laws and regulations concerning the prevention and control of air pollution. Notwithstanding the above in conduct of construction activities and operation of equipment, the Contractor shall utilise such practicable methods and devices as are reasonably available to control, prevent, and otherwise minimise atmospheric emissions or discharges of air contaminants.

#### **11.6 Noise abatement**

The Contractor shall comply with applicable Tanzanian laws, orders, and regulations concerning the prevention, control, and abatement of excessive noise. Workers shall be sufficiently supplied with ear protection as required in the opinion of the Engineer and instructed in using them. Blasting, the use of jackhammers, pile driving, rock crushing, or other operations producing high-intensity impact noise may be performed at night only upon approval of the Engineer.

#### **11.7 Light abatement**

The Contractor shall exercise special care to direct all stationary floodlights to shine downward at an angle less than horizontal. These floodlights shall also be shielded so as not to be a nuisance to surrounding areas. No lighting shall include a residence in its direct beam. The Contractor shall be responsible for correcting lighting problems when they occur as directed by the Engineer.

#### **11.8 Preservation of historical and archeological data**

The Contractor agrees that should he or any of his employees in the performance of this contract discover evidence of possible scientific, historical, prehistorical, or archaeological data he will notify the Engineer immediately giving the location and nature of the findings. Written confirmation shall be forwarded within 2 days. The Contractor shall exercise care so as not to damage artifacts or fossils uncovered during excavation operations and shall provide such cooperation and assistance as may be necessary to preserve the findings for removal or other disposition by the Employer. Where appropriate by reason of a discovery, the Engineer may order delays in the time of performance, or changes in the work, or both. If such delays, or changes, or both, are ordered, the time of performance and contract price shall be adjusted in accordance with the applicable clauses in the Conditions of this Contract. The Contractor agrees to insert this Clause in all subcontracts which involve the performance of work on the terrain of the site.

#### **11.9 Cleanup and disposal of waste materials**

##### **11.9.1 Cleanup**

The Contractor shall, at all times, keep the construction area, including storage areas used, free from accumulations of waste materials or rubbish. All waste water and sewage from office, residential and mobile camps shall be piped to soak pits or other disposal areas constructed in accordance with local government regulations, and where and when such regulations require it the Contractor shall obtain a permit or other appropriate documentation approving the disposal methods being used. All used fuels, oils, other plant or vehicle fluids, and old tyres and tubes shall be collected to a central disposal point, on a regular basis and disposed of as specified below. All household, office, workshop and other solid waste shall be collected to a central disposal area, on a daily basis and disposed of in a manner approved by the Engineer. Servicing of plant, equipment and vehicles shall whenever possible be carried out at a workshop area. Prior to completion of the work, the Contractor shall remove from the vicinity of the work all plant facilities, buildings, rubbish, unused materials,



### **V.2 Rate of involvement of local labor**

In order to ensure the spill over of the project in the community, it is expected that all the artisan staff and general labour shall be recruited locally during the realisation of the microproject.

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### **EQUIPMENT AND TOOLS NEEDED TO REALIZE THE PROJECT**

The following state the type of equipment needs for the wworks

TRANSPORTATION	SITE HEAVY EQUIPMENT	SITE TOOLS	TOOLS FOR OPERATIVES
At least a 7ton tipper	Concrete mixer	Dig axes	Trowel
(01) 4x4wd vehicle	Concrete needle vibrator	Spades	Measuring tape
20 T Truck	Wheel barrows	Shovels	Protective clothing and shoes
	compactor	Cutlass, bucket,	
		Measuringtoolsetc	

## **DOCUMENT NO. 7: SCHEDULE OF UNIT PRICES**



803	Sink	u	2		
804	Towel and soap rack	u	2		
805	Septic tank	u	1		
806	sump	u	1		
807	Manhole	u	2		
808	Toilet-paper holder	u	4		
<b>SUBTOTAL SECTION 800</b>					
<b>SECTION 900: ELECTRICITY</b>					
901	Orang flexible tube	roll	3		
902	V.G.V 1.5 mm2 celing cables	roll	2		
903	H.H. wire 2.5 mm2	roll	3		
904	Reglette of 120	u	20		
905	Hubs round	u	3		
906	Recessed switch and socket	U	16		
907	Fasteners, dominoes, boxes, all security dependencies, connection with existing network in the establishment	all	1.000		
<b>SUBTOTAL SECTION 900</b>					
<b>SECTION 1000: PAINTING</b>					
1001	Ceiling	m2	249		
1002	Exterior walls	m2	190		
1003	Interior walls	m2	390		
1004	Wood joinery				
<b>Flooring</b>					
1005	Faience tiles (supply and installation)	m2	30		
1006	Stoneware tiles (supply and installation)	m2	31		
<b>SUBTOTAL SECTION 1000</b>					
<b>SECTION 1100: SANITATION - ROADS AND VARIOUS NETWORKS</b>					
1101	Gutter all around the building	m2	75		
1102	Paving around the building	m2	52		
<b>subtotal of section 1100</b>					
<b>SECTION 1200 : ENVIRONMENTAL IMPACT NOTICE</b>					
1201	Planting of water friendly trees	Flat rate	1		
1202	Provision of trash cans	Flat rate	5		
1203	Provision of potable water	Flat rate	1		
<b>SUBTOTAL OF SECTION 1200</b>					



**BILL OF QUANTITIES AND COST ESTIMATE FOR THE CONSTRUCTION OF A NURSERY SCHOOL BLOCK AT G.N.S SHUKAI VEKOFI VILLAGE, JAKIRI MUNICIPALITY, BUI DIVISION, NORTH-WEST-REGION**

N°	DESIGNATION	U	QTY	PU	TP
<b>Section 100: SITE INSTALLATION</b>					
101	Site installation and construction site	Ff	1.00		
102	Site clearing	m <sup>2</sup>	1251.00		
<b>SUB TOTAL OF SECTION 100</b>					
<b>Section 200: EARTHWORKS</b>					
201	Leveling of the Platform	m <sup>2</sup>	637.00		
201	Mass Excavations of foundation trenches	m <sup>3</sup>	30.00		
203	Filling of rooms with compacted soil	m <sup>3</sup>	88.00		
<b>SUBTOTAL OF SECTION 200</b>					
<b>Section 300: FOUNDATIONS</b>					
301	Blinding concrete	m <sup>3</sup>	2.90005		
302	Cement blockof 20X20X40 stuffed	m <sup>2</sup>	75.00		
303	Reinforced concrete for soles, poles and chainings	m <sup>3</sup>	5.75		
304	Paving (8 cm thick)	m <sup>2</sup>	195.00		
<b>SUBTOTAL OF SECTION 300</b>					
<b>Section 400: MASONRY - WALLS ELEVATION</b>					
401	Cement blockof 15X20X40	m2	240.00		
402	Cement blockof 10X20X40	m2	31.00		
403	Coated with cement mortar	m2	580.00		
404	Reinforced concrete for poles; lintels, chains and beams dosed at 350kg/m3	m3	6.30		
405	Smoothed mortar screed	m2	223.00		
406	Clausters	m2	39.00		
<b>SUBTOTAL OF SECTION 400</b>					
<b>Section 500: Carpentry and roofing</b>					
501	Farmhouse	m3	3.50		
502	Pinch edges and laths	m3	3.500		
503	Ceiling 5mm including joist	m2	249.000		
504	Shore boards	ml	65.00		
505	Sheet aluminium tray 6/10 including all subject	m2	265.00		
506	Sheet metal 50 cm wide	ml	47.00		
507	Rive pinion aluminium	ml	39.00		
<b>SUBTOTAL OF SECTION 500</b>					
<b>Section 600: METTAL JOINERY</b>					
601	Double entrance iron door (1.5X2.2m)	u	2.00		
602	External iron door with one leaf (1X2.2m)	u	2.00		
603	Thresholds	ml	33.00		
604	Window protector inside the wooden frame	m2	4.00		
<b>SUBTOTAL OF SECTION 600</b>					
<b>Section 700: WOOD WORKS</b>					
701	Internal wooden door (0.9X2.20)	U	4.00		
702	Wooden door for toilet (0.7X2.2)	U	4.00		
703	Wooden window(1.5X1.2)	U	1.00		
704	Wooden Window(1.2X1.2)	U	1.00		
<b>SUBTOTAL OF SECTION 700</b>					
<b>800 SANITARY FITTINGS AND PLUMBING</b>					
801	Distribution piping system and accessories	all	1		
802	English WC with an elevated flushing system	u	4		
803	Sink	u	2		
804	Towel and soap rack	u	2		
805	Septic tank	u	1		
806	sump	u	1		