

**CAMEROON DEVELOPMENT CORPORATION
GROUP BANANA**

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I - SCOPE OF WORK

The work comprises of rehabilitating an existing nematocide building.

II – TECHNICAL SPECIFICATION

A. Excavation

- The site of the works should be cleared off of vegetable soil and filled to the level given on the drawings or as should be decided by the Engineer.
- Excavation should be of the length, width and depth for the construction as shown on the working drawing.
- Any obstacle encountered during the excavation should be reported to the Engineer and dealt with as instructed.
- The contractor should by pumping or other means maintain the excavation free from water immediately before concreting and other work be constructed therein. The bottom should be cleaned and if in loose or disturbed ground should be well rammed and the whole be approved.

B. Fixing reinforcement

- Reinforcement should be accurately fixed in the position described on the drawing. Bars intended to be in contact at passing points be securely wired together at all such points by binding wires which should tightly embrace the bars with which they are intended to be in contact.
- Immediately before concreting, the reinforcement should be examined for accuracy of placing and cleanliness and corrected if wrongly done.

C. Cement

- The cement should be ordinary setting Portland cement: 50kg/bag. All cement must be fresh when delivered and consignments be used in order of delivery.

D. Aggregates

- Materials used as aggregates should be obtained from a source known to produce aggregates satisfactory for concrete and be chemically inert, strong, hard, and durable, of limited porosity and free from adhering coatings, clay lumps and organic or other impurities that may cause corrosion of the concrete.
- Fine aggregate should be clean natural sand free from coagulated lumps gotten from the river or recommended source.
- Coarse aggregate should be crushed hard stone in angular shape. After twenty four hours immersion in water, a previously dried sample of the coarse aggregate should not have gained in weight more than 10%. The grade size should be 15/25mm.
Foundation concrete proportion should be 350kg/m³.

E. Concreting

- Concrete should be placed continuously until completion of the part of work between construction joints hereinafter. At the completion of a specified or approved part a construction joint of the form and position hereinafter specified should be made. If topping of concrete placing be in-avoidable elsewhere, a construction joint should be made where the work has stopped.
- Before placing new concrete against the old one already hardened, the face of the old concrete should be roughened and scum and loose aggregate removed there from, and immediately before placing the new concrete the face should be thoroughly wetted and a coat of neat cement grout applied thereto. The new concrete should be well rammed against the prepared face before the grout sets.
- Newly placed concrete should be protected by approved means from rain, sun and drying winds. Concrete placed below the ground should be protected from falling earth during and after placing

E. Steel /Metal

- All steel and metal should be of renounce quality
- Steel bars should be new as described on the drawing and or bill of quantity twisted (ribbed) bars and of structural or intermediate grade edition.
- Steel bars should be free from rust, oil, defects, grease distortion.
- The space layout of the bars should be as shown on the drawings.

F. Roofing

- Roof truss should comprise of IPE 140 rafter and 50x50mm angle iron to receive the roof.
- Timber should be of good quality, free from all natural defects. It should be of the size specified in the bill of quantities. Timber should equally receive treatments with an approved wood preservative (Solignum or xylamon) and adequately seasoned before usage.
- Roofing sheets and accessories should be of the dimensions and quality stated in the bill of quantities

G. Finishing

- All steel and metal should be coated with double application of anti rust and aluminium paint respectively.
- Exposed block work out of the ground should be plastered with (1:2.5mix).
- Floor gradient should be 0%.
- Painting surface shall be well cleaned, dry and free from grease or any foreign coatin.
- Painting shall be accurately and evenly applied, covering all the surface and homogenously done.

III- WORK SCHEDULE

- Each lot should be completed within 12 weeks. If we find the Contractor failed to follow the specifications provided in carrying out the work, then the contractor will be advised to stop the work and may only resume when he will agree to rectify the work in accordance to the specifications.

IV - INTERPRETATION OF TECHNICAL SPECIFICATIONS

- Should any ambiguity or difficulty be encountered with specifications, the bidder is advised to contact the Engineer of the project for clarification as to the intent or works involved.

V. DISCREPANCIES

- the course of the work, should any ambiguities or discrepancies be found in the specifications and bill of quantities to which the Contractor has failed to call attention before submitting his tender, the Employer or his representative will interpret the intent of the specifications and the bill of quantities and the Contractor agrees to abide by the Employer's interpretation and agrees to carry out the work in accordance with the decision of the Employer. It is expressly stipulated that neither the bill of quantities nor the specification should take precedence over the other, and it is further stipulated that the employer may interpret or construe the bill of quantities and specifications so as to secure in all cases the most substantial and complete performance of the work as is most consistent with his needs and requirements, and for this the employer should assumed full responsibility.

VI. SITE VISIT

- The contractor should be held to have examined the site and to have compared it with the specifications and Bill of Quantities and to have satisfied himself of the conditions existing at the site, as relating to the actual condition at the site at the time of estimate of the work, the storage and handling of materials and all other matters as may be incidental to the work under the contract, before the submission of his proposal. No allowance will subsequently be made or conceded by reason of any error, due to the contractor's neglect to comply with the requirements of this clause.

VII - GENERAL

- Any extra works necessitated by site conditions or omission must first be discussed and approved by the supervising engineer in writing before execution. Such should be treated to the General Manager's approval for supplementary contract.
- The contractor must ensure his workers against all accidents, and subscribe to a third party liability insurance to cover him against any possible accident to third party in the course of executing this project.
- Each phase of work completed must be inspected and approved by the supervising Engineer before further works especially those that will bear upon the completed phase.
- The contractor should keep the surroundings clean of all equipments and debris at the end of works at no extra cost to the CDC (making good)
- Before the commencement of any works, material should be pre-inspected by the supervising Engineer before use.
- Failure to do so, all works done using such materials which are not pre-inspected should not be accepted.
- The contractor should also make provision for a site supervisory record.