

**DATE: 02/11/2020**

**RE-ADVERTISEMENT**

**REQUEST FOR PROPOSAL: RFP/010/ HCR/RWAKI/2020**

**CONSTRUCTION OF G+2 BLOCKS OF 24 CLASSROOMS**

**LOCATION: KIZIBA CAMP, KARONGI DISTRICT**

**CLOSING DATE AND TIME: 20/11/2020 – 17:00 HRS Kigali time**

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**INTRODUCTION TO UNHCR**

The Office of the United Nations High Commissioner for Refugees was established on December 14, 1950 by the United Nations General Assembly. The agency is mandated to lead and co-ordinate international action to protect refugees and resolve refugee problems worldwide. Its primary purpose is to safeguard the rights and well-being of refugees. It also has a mandate to help stateless people.

In more than five decades, the agency has helped tens of millions of people restart their lives. Today, a staff of some 6,600 people in more than 110 countries continues to help about 34 million persons. To help and protect some of the world's most vulnerable people in so many places and types of environment, UNHCR must purchase goods and services worldwide. For further information on UNHCR, its mandate and operations, please see <http://www.unhcr.org>.

**1. REQUIREMENTS**

The Office of the United Nations High Commissioner for Refugees (UNHCR), Rwanda Office, invites qualified construction contractors to make a firm offer for:

- **Lot A:** the construction of a G+2 school block composed of 12 classrooms; a laboratory; a computer room; an office; a toilet, as well as related electrical and installation works.
- **Lot B:** the construction of a G+2 school block composed of 12 classrooms; and related electrical and installation works.

These two (2) lots are independent and qualified contractors may apply for Lot A or Lot B or both - pending that separate teams are working in parallel on both lots.

**IMPORTANT:**

Bills of Quantities (BoQs) are detailed in Annex A of this document for each lot.

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Please note that **Lot A and Lot B** (corresponding to Block A and Block B) are stated in order to enable bidders to have an indication of the projected requirements. It does not represent a commitment that UNHCR will award contract for both lots. Contracting will depend on the funding availability and/or based on UNHCR's interests. The financial offers will be evaluated per lot to split the works to two different bidders with the most responsive offers per lot - or to the same bidder pending the availability of a whole and complete team for each lot.

It is strongly recommended that this Request for Proposal and its annexes be read thoroughly. Failure to observe the procedures laid out therein may result in disqualification from the evaluation process.

Sub-Contracting: Please take careful note of article 7 of the attached General Terms and Conditions (Annex E).

Note: this document is not construed in any way as an offer to contract with your firm.

## **2. BIDDING INFORMATION:**

### **2.1. RFP DOCUMENTS**

The following annexes form integral part of this Invitation to Bid:

- Annex A: Bills of Quantities (Lot A & B), Drawings and Designs
- Annex B: Technical Offer Form
- Annex C: Financial Offer Form
- Annex D: [UNHCR Vendor Registration Form](#)
- Annex E: [UNHCR General Conditions of Contracts for Civil Works](#)
- Annex F: [UN Supplier code of conduct Rev.06 – December 2017](#)

### **2.2 ACKNOWLEDGMENT**

We would appreciate you informing us of the receipt of this RFP by a return e-mail to [rwakisup@unhcr.org](mailto:rwakisup@unhcr.org)

- Your confirmation of receipt of this invitation to bid
- Whether or not you will be submitting a bid

### **2.3 REQUESTS FOR CLARIFICATION**

Bidders are required to submit any request for clarification or any question in respect of this RFP by e-mail to [rwakisup@unhcr.org](mailto:rwakisup@unhcr.org). **The deadline for receipt of questions is 17h30 on 16/11/2020 Bidders** are requested to keep all questions concise.

#### **IMPORTANT:**

Please note that Bid Submissions are **not** to be sent to the e-mail address above. Bid Submissions sent directly to the e-mail address above will result in disqualification of the offer.



UNHCR will reply to the questions received as soon as possible by means of publication of a Questions and Answers (Q&A) document on its website (<https://www.unhcr.org/rw/tenders>) or by email to all invited bidders.

**IMPORTANT:**

Site visit at Kiziba Refugee Camp, is confirmed on 12/Nov/2020, at 11:00AM. Bidders are advised to contact Mr. Boniface Uwitonze at 0788431405 to RSVP for the site visit.

***The visit is waived for bidders*** who already participated in the visit held at Kiziba Refugee Camp on 22/11/2020 in response to the initial RFP advertised in Oct. 2020.

Participation to the pre-tender site visit shall be at the bidders' own expenses. There will be no reimbursement from UNHCR.

Participation to the pre-tender site visit is **mandatory given the complexity of the requirements**. However, after the site visit, a Questions & Answers document will be prepared and posted on the UNHCR website (<https://www.unhcr.org/rw/tenders>) or distributed by email to all invited bidders

## 2.4 **YOUR OFFER**

**IMPORTANT:**

Cancellation of Solicitation: UNHCR reserves the right to cancel a Solicitation at any stage of the procurement process prior to final notice of award of a contract.

Your offer shall be prepared in English.

Please submit your offer using the Annexes provided. Offers not conforming to the requested formats may be not taken into consideration.

**IMPORTANT:** Inclusion of copies of your offer with any correspondence sent directly to the attention of the responsible buyer or any other UNHCR staff will result in disqualification of the offer. Please send your bid directly to the address provided in the "Submission of Bid" section 2.6) of this RFP.

Your offer shall comprise the following two sets of documents:

- Technical offer
- Financial offer

### 2.4.1 **Content of the TECHNICAL OFFER**

**IMPORTANT:**

No pricing information should be included in the Technical offer. Failure to comply may risk disqualification. The technical offer should contain all below information required.

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The Bills of Quantities (BoQs) of the services requested by UNHCR can be found in **Annex A**. Your technical offer should be concisely presented and structured in the following order to include, but not necessarily be limited to, the following information:

- **Company's profile and qualifications**

Description of your company with the following documents: Company profile, registration certificate and last audit reports:

- Year founded;
- If multi location company, specify headquarters location;
- Number of similar and successfully completed projects;
- Number of similar projects currently underway;
- Total number of clients;

Any information that will facilitate our evaluation of your company's substantive reliability, financial and managerial capacity to provide the services.

- **Proposed personnel to carry out the assignment**

The composition of the dedicated team you propose; their qualifications and experience. Curriculum Vitae of core staff/Engineers.

- **Understanding of the requirements for the project, proposed approach, solutions, methodology and outputs:**

Any comments or suggestions on the BOQs, drawings as well as your detailed description of the way your company would respond to the scope of works:

- A description of your organization's capacity to execute the tasks
- A description of your organization's experience in construction

- **Vendor Registration Form:** If your company is not already registered with UNHCR, you should complete, sign and submit with your technical proposal the Vendor Registration Form (**Annex C**).

- **UNHCR General Conditions of contracts for civil works:** Submission of your offer is deemed acceptance of the [UNHCR General Conditions of contract for Civil Works Annex E](#).

#### **2.4.2 Content of the FINANCIAL OFFER**

Your separate **Financial Offer** must contain an overall offer in a single currency, Rwanda francs (RWF).

The financial offer must cover all goods and services to be provided (price "all inclusive").

The Financial Offer is to be submitted as per the Financial Offer Form (Annex C). Bids that have a different price structure may not be accepted.

UNHCR is exempt from all direct taxes and customs duties. With this regard, price has to be given without VAT.

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You are requested to hold your offer valid for 120 days from the deadline for submission. UNHCR will make its best effort to select a company within this period. UNHCR's standard payment terms are within 30 days after satisfactory implementation and receipt of documents in order.

The cost of preparing a bid and of negotiating a contract, including any related travel, is not reimbursable nor can it be included as a direct cost of the assignment. Any activity undertaken or expenses incurred in preparation of a contract before an actual contract is signed shall be borne by the Bidder. An advance notice or information of award is not to be considered as a contract.

UNHCR will not provide any advance payments or payments by letter of credit. The standard payment terms are by bank transfer net thirty (30) days after acceptance of contractor's invoice and delivery of the goods to the and/or acceptance by UNHCR of the services.

## **2.5 BID EVALUATION**

Each proposal from a Bidder will be considered separately and independently. Bidders shall submit a complete proposal for each solicitation in which they wish to participate. References to previous or on-going proposals will be not considered. Award of a previous contract with UNHCR will not be considered as a preference or guarantee for the award of future solicitations on the same subject.

### **2.5.1 Supplier Registration**

The qualified supplier(s) will be added to the Vendor Database after investigation of suitability based on the submitted Vendor Registration Form and supporting documents. The investigation involves consideration of several factors such as:

- Financial standing;
- Core business;
- Track record;
- Contract capacity.

Failure to provide the abovementioned documentation, might lead to disqualification.

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## 2.5.2 Technical and Financial evaluation:

For the award of this project, UNHCR has established evaluation criteria which govern the selection of offers received. Evaluation is made on a technical and financial basis. The percentage assigned to each component is determined in advance as follows:

The **Technical offer** will be evaluated using inter alia the following criteria and percentage distribution: **60%** from the total score (60 points of 100 points).

| <b>Technical Evaluation Criteria - see details in Technical Evaluation Form (Annex B)</b> | <b>Percentage (%)</b> |
|---|-----------------------|
| Eligibility (mandatory requirements, that a company must meet for evaluation)             | Pass/Fail             |
| Company profile (capacity/qualifications)   | 5                     |
| Qualification of the proposed staff, equipment and reporting structure                    | 10                    |
| Experience on similar services  | 15                    |
| Work plan, site management and assessments  | 15                    |
| Technical requirements for the works  | 15                    |
| <b>Total:</b>   | <b>60%</b>            |

The cut-off points for submissions to be considered technically compliant will be **40% out of the 60%**.

### **Clarifications of Proposals**

To assist in the examination, evaluation and comparison of proposals UNHCR may at its discretion ask the Bidder for clarification about the content of the proposal. The request for clarification and the response shall be in writing and no change in price or substance of the proposal shall be sought, offered or accepted.

The **Financial offer** will use the following percentage distribution: **40%** (or 40 points) from the total score.

The financial component will be analyzed only for those suppliers that pass the technical evaluation criteria (total of 40/60%).

The maximum number of points will be allotted to the lowest price offer among the technically cleared bids (40% +) and compared among those invited firms. All other price offers will receive points in inverse proportion to the lowest price; e.g.,  $[\text{Total Price Component}] \times [\text{RWF Lowest}] / [\text{RWF Other}] = \text{Points for Other Supplier's Price Component}$ .

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## 2.6 SUBMISSION OF BID

The offers must bear your official letter head, clearly identifying your company.

Bids should be submitted by e-mail and all attachments should be in PDF format. (Copies of the PDF format documents may, as an addition, be included in Excel or other formats etc.). **The Technical and Financial offers shall be clearly separated.**

**Bid must be sent by e-mail ONLY to: [RWAKIBIDSR@unhcr.org](mailto:RWAKIBIDSR@unhcr.org)**

**IMPORTANT:**

The technical offer and financial offer are to be sent in separate email attachments. Failure to do so may result in disqualification.

**Deadline: 20/11/2020, 17:00 HRS Kigali Time.**

**IMPORTANT:**

Any bid received after this date or sent to another UNHCR email address may be rejected. UNHCR may, at its discretion, extend the deadline for the submission of bids, by notifying all prospective bidders simultaneously.

It is your responsibility to verify that all e-mails have been received properly before the deadline. Please know the e-mail policy employed by UNHCR limits the size of attachments to a maximum of **8 Mb** so it may be necessary to send more than one e-mail for the whole submission.

Please indicate in e-mail subject field:

- Bid RFP/010/HCR/RWAKI/2020
- Name of your firm with the title of the attachment
- Number of e-mails that are sent (example: 1/3, 2/3, 3/4).

**For example: RFP/010/HCR/RWAKI/2020, Company ABC (email 1 of 3)**

UNHCR will not be responsible for locating or securing any information that is not identified in the bid. Accordingly, to ensure that enough information is available, the bidder shall furnish, as part of the bid, any descriptive material such as extracts, descriptions, and other necessary information it deems would enhance the comprehension of its offer.

## 2.7 BID ACCEPTANCE

UNHCR reserves the right to accept the whole or part of your bid.

UNHCR may at its discretion increase or decrease the proposed content when awarding the contract and would not expect a significant variation of the rate submitted. Any such increase or decrease in the contract duration would be negotiated with the successful bidder as part of the finalization of the Purchase Orders for Services.

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UNHCR may, at its discretion, extend the deadline for the submission of bids, by notifying all prospective suppliers in writing. The extension of the deadline may accompany a modification of the solicitation documents prepared by UNHCR at its own initiative or in response to a clarification requested by a prospective supplier.

UNHCR at its own discretion reserve the rights to accept or cancel the whole tender at any stage.

Please note that UNHCR is not bound to select any of the firms submitting bids and does not bind itself in any way to select the firm offering the lowest price. Furthermore, the contract will be awarded to the bid considered most responsive to the needs, as well as conforming to UNHCR's general principles, including economy and efficiency and best value for money.

## **2.8 CURRENCY AND PAYMENT TERMS FOR PURCHASE ORDERS**

Any Purchase Order (PO) issued as a result of this RFP will be made in RWF. Payment will be made in accordance to the applicable general conditions of the contract and in the currency in which the PO is issued. Payments shall only be initiated after confirmation of successful completion by UNHCR business owner.

## **2.9 UNHCR GENERAL CONDITIONS OF CONTRACTS FOR CIVIL WORKS**

Please note that the [UNHCR General Conditions of contract for Civil Works \(Annex E\)](#) will be strictly adhered to for the purpose of any future contract. The Bidder must confirm the acceptance of these terms and conditions in writing.

**Aliou Haidara  
Supply Officer  
UNHCR Rwanda**



Digitally signed by Aliou Haidara,  
Supply Officer, UNHCR CO Kigali  
Date: 04.11.2020



**ANNEX A: BILLS OF QUANTITIES AND DRAWINGS  
RFP/010/HCR/RWAKI/2020**

**LOT A: CONSTRUCTION OF G+2 BLOCK COMPOSED OF 12 CLASSROOMS; 1 LABORATORY; 1 OFFICE; 1 TOILET, ELECTRICAL INSTALLATIONS AND EXTERNAL WORKS**

**LOCATION: KIZIBA CAMP, KARONGI DISTRICT**

| <b>LOT A: CONSTRUCTION OF CLASSROOMS BLOCK OF 12 CLASSROOMS, OFFICES, LABORATORY, COMPUTER ROOM &amp; LIBRARY</b> |   |             |                 |
|---|---|-------------|-----------------|
|   | <b>ITEMS DESCRIPTIONS</b>   | <b>Unit</b> | <b>Quantity</b> |
| <b>I</b>  | <b>PRELIMINARY WORKS</b>  |             |                 |
|   | Site installation includes construction of temporary site office, toilets, changing areas, material stores and fencing site area with corrugated iron sheets (site holdings) With electrical and water connection         | LS          | 1               |
|   | <b>S/TOTAL</b>  |             |                 |
| <b>II</b>   | <b>SITE PREPARATION</b>   |             |                 |
|   | <b>DEMOLITION OF EXISTING STRUCTURES</b>  |             |                 |
| 1   | Removal of the existing roof in corrugated iron sheets and timber truss and deposit the materials at the client provided location   | SQM         | 540             |
| 2   | removal of the class buildings doors and windows in timber and deposit the material at shown proper location  | SQM         | 45              |
| 3   | Demolition of the existing old building wall and displacement of debris to the dumping site ( <b>the price includes demolition, transport of debris, allocation of dumping site near the camp and deposit of debris</b> ) | SQM         | 880             |
| 4   | Demolition of an old pavement up to the thickness of 250mm and removal of debris in an allocated dumping site   | SQM         | 560             |
|   | <b>S/TOTAL 1</b>  |             |                 |
| <b>III</b>  | <b>CONSTRUCTION CLASSROOM BLOCK</b>   |             |                 |
|   | <b>GROUND FLOOR CONSTRUCTION</b>  |             |                 |
| 1   | <b><u>EARTHWORKS</u></b>  |             |                 |
| A   | Excavation works and site levelling prior to setting out and foundation works to include displacement of excavated soil from construction site to the dumping area (topsoil removal not exciding 150mm thick              | CM          | 85.80           |
| B   | Excavation work for columns bases (footings)  | CM          | 732.00          |
| C   | Excavation work for stone foundation trenches (600mm wide to 800 mm depth   | CM          | 127.68          |
| D   | Removal of the excavated material to the dumping site (the cost includes loading and transport to the hired dumping site by the contractor)   | CM          | 774.56          |

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|                |  |           |        |
|----------------|--|-----------|--------|
| <b>2</b>       | <b><u>SUB-STRUCTURE WORKS</u></b>  |           |        |
| A              | Apply anti-termite chemicals to foundation bottoms and sides of footings and stones foundation trenches  | SM        | 572.00 |
| B              | 50 mm thick blinding concrete under the column base in Plain concrete 1:4:8 mix (class C15 plain concrete)   | CM        | 12.20  |
| C              | Vibrated reinforced concrete 1:2:4 mix for column bases (Footings Reinforced in T16@150mm single layer)  | CM        | 79.06  |
| D              | Vibrated reinforced concrete 1:2:4 mix for sub columns (reinforced in 6T16main bars and T8&150mm links)  | CM        | 10.98  |
| E              | Construction of 400mm wide ,600mm deep stones masonry foundation to receives ground ring beams and brick walls   | CM        | 85.12  |
| F              | 50 mm thick concrete coping on top of stone masonry to receive the ground beam   | lm        | 266.00 |
| G              | 200*200mm vibrated reinforced concrete 1:2:4 mix ground beam reinforced with 4T12 main bars and T8 links spaced at 200mm                                     | CM        | 10.64  |
| H.             | Back filling and compaction of the footing and around the stone masonry foundation with the imported and approved Filling materials (lateritic soil, marram) | <b>CM</b> | 359.76 |
| I              | Filling and compaction the entire ground floor surface with imported marram (200mm thick)  | CM        | 114.40 |
| J              | Hardcore filling for the entire Ground floor 200mm thick   | SQM       | 614.80 |
| K              | BRC Mesh A142 at the entire ground floor   | SQM       | 614.80 |
| L              | pavement with smooth concrete 100mm thick  | SQM       | 614.80 |
| <b>S/TOTAL</b> |  |           |        |
| <b>3</b>       | <b><u>SUPERSTRUCTURE</u></b>   |           |        |
|                | <b><u>REINFORCED CONCRETE WORKS</u></b>  |           |        |
|                | <b><i>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</i></b>  |           |        |
| A              | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  | CM        | 10.98  |
| B              | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)                             | CM        | 38.40  |
| C              | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)  | CM        | 85.80  |
| D              | Stairs   | CM        | 14.83  |
| E              | Handicap ramps reinforced as per slab reinforcements   | CM        | 21.78  |
| <b>4</b>       | <b><u>WALLING</u></b>  |           |        |
|                | <b><i>Clay brick masonry walls with cement-sand mortar for:</i></b>  |           |        |
| A              | External and Internal walls  | CM        | 124.00 |

| <b>S/TOTAL</b> |  |            |              |
|----------------|--|------------|--------------|
| <b>5</b>       | <b>WALL FINISHES</b>   |            |              |
|                | <b>EXTERNAL WALL AND COLUMNS FINISH</b>  |            |              |
| A              | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | <b>SQM</b> | <b>354</b>   |
| B              | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | <b>SQM</b> | <b>354</b>   |
|                | <b>INTERNAL WALL FINISH</b>  |            |              |
| C              | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM        | <b>763.2</b> |
| D              | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM        | <b>763.2</b> |
| E              | Plinth construction (100mm high)   | SQM        | <b>384</b>   |
| F              | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords) | item       | <b>12</b>    |
| <b>S/TOTAL</b> |  |            |              |
| <b>6</b>       | <b>FLOOR FINISHING</b>   |            |              |
|                | <b>FLOOR SCREEDING</b>   |            |              |
| A              | 50mm Thick Floor well levelled and smooth screed   | SQM        | 572.00       |
| B              | Supply all materials and construct external apron pavement (600mm wide around the building including drainage works (open water 11 Legrand)  | SQM        | 72.00        |
| 7              | <b>FLOOR AND WALL TILLING</b>  |            |              |
|                | <i>Wall tiling with 300 mm x 200 mm tiles up to 1.50 m height in Toilets walls</i>   | SQM        | 50.40        |
|                | <i>Wall tiling with 300 mm x 300 mm tiles in Toilets Floors and in the corridor</i>  | SQM        | 40.00        |
| <b>S/TOTAL</b> |  |            |              |
| <b>8</b>       | <b>CEILING FINISHES</b>  |            |              |
|                | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs  | SM         | 624          |
|                | Prepare and apply three coats first grade emulsion paint to soffits of slab  | SM         | 624          |
| <b>S/TOTAL</b> |  |            |              |

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|---------------------------|---|------|--------|
| <b>9</b>                  | <b>BALLUSTRADES &amp; RAILS</b><br><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i>   |      |        |
| A                         | Staircase   | Lm   | 50.00  |
| B                         | Balcony And ramp  | Lm   | 200.00 |
| <b>S/TOTAL BALUSTRADE</b> |   |      |        |
| <b>10</b>                 | <b>WINDOWS</b><br><br>Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms  |      |        |
| A                         | window 2100mm x 1800 mm   | item | 10     |
| B                         | Window 3000*1800 mm   | item | 12     |
| C                         | window 900 mm x 600 mm on staff toilets   | item | 3      |
| <b>S/TOTAL</b>            |   |      |        |
| <b>11</b>                 | <b>DOORS</b><br><br>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 2500mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> |      |        |
|                           | 2150 mm x 800 mm  | Nr.  | 10     |
|                           | 2150 mm x 800 mm  | Nr.  | 3      |
|                           | 2150 mm x 800 mm  | Nr.  | 1      |
|                           | <b>PLUMBING AND DRAINAGE WORKS</b><br><b>Provision for plumbing and drainage installation and external water reticulation installation.</b>   |      |        |
|                           | Piping works to include water supply and drainage   | item | 1      |
|                           | Drainage works to include the provision of drainage facilities such as manholes, septic tanks, soakaway pits  | item | 1      |
|                           | Water reticulation to the existing network  | item | 1      |

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|---|---|-----|--------|
|   | <b>Sanitary appliances</b>  |     |        |
|   | Supply and installation of WC of good quality complete with all accessories and all requirements  | Nr. | 2      |
|   | supply and installation of WC for Handicaps and all accessories   | Nr. | 1      |
|   | Supply and installation of ceramic wash hands 13 Egra complete with accessories and all requirements.   | Nr. | 2      |
| <b>S/TOTAL</b>  |   |     |        |
| <b>TOTAL FOR GROUND FLOOR</b>   |   |     |        |
| <b>FIRST FLOOR CONSTRUCTION</b>                                       |   |     |        |
| <b>REINFORCED CONCRETE WORKS</b>                                      |   |     |        |
| <b><i>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</i></b> |   |     |        |
| A   | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details   | CM  | 10.98  |
| B   | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)                                | CM  | 38.40  |
| C   | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)   | CM  | 85.80  |
| D   | Stairs  | CM  | 14.83  |
| E   | Handicap ramp reinforced concrete   | CM  | 21.78  |
| <b>4</b>  | <b><u>WALLING</u></b>   |     |        |
| <b><i>Clay brick masonry walls with cement-sand mortar for:</i></b>   |   |     |        |
| A   | External and Internal walls   | CM  | 124.00 |
| <b>SUB-TOTAL: CONCRETE &amp; WALLING</b>                              |   |     |        |
| <b>5</b>  | <b>WALL FINISHES</b>  |     |        |
| <b>EXTERNAL WALL AND COLUMNS FINISH</b>                               |   |     |        |
| A   | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls  | SQM | 354    |
| B   | Prepare and apply three coats of "weather guard emulsion paint as 'Sadollin' or other equal and approved to plastered surfaces external sides of masonry walls. | SQM | 354    |
| <b>INTERNAL WALL FINISH</b>   |   |     |        |
| C   | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls                            | SQM | 763.2  |
| D   | Prepare and apply three coats first grade silk emulsion paint on plastered walls  | SQM | 763.2  |
| E   | Plinth construction (100mm high)  | SQM | 384    |

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|                                 |  |      |        |
|---------------------------------|--|------|--------|
| F                               | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)   | item | 12     |
| <b>SUB-TOTAL: WALL FINISHES</b> |  |      |        |
| <b>6</b>                        | <b>FLOOR FINISHING</b>   |      |        |
|                                 | <b>FLOOR SCREEDING</b>   |      |        |
| A                               | 50mm Thick Floor well levelled and smooth screed   | SQM  | 572.00 |
| <b>7</b>                        | <b>FLOOR AND WALL TILLING</b>  |      |        |
|                                 | <i>Wall tiling with 300 mm x 200 mm tiles up to 1.50 m height in Toilets walls</i>   | SQM  | 50.40  |
|                                 | <i>Wall tiling with 300 mm x 300 mm tiles in Toilets Floors and in the corridor</i>  | SQM  | 40.00  |
| <b>S/TOTAL</b>                  |  |      |        |
| <b>8</b>                        | <b>CEILING FINISHES</b>  |      |        |
|                                 | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs  | SM   | 624    |
|                                 | Prepare and apply three coats first grade emulsion paint to soffits of slab  | SM   | 624    |
| <b>S/TOTAL</b>                  |  |      |        |
| <b>9</b>                        | <b>BALLUSTRADES &amp; RAILS</b>  |      |        |
|                                 | <b><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i></b>                      |      |        |
| A                               | Staircase  | Lm   | 50.00  |
| B                               | Balcony And ramp   | Lm   | 200.00 |
| <b>S/TOTAL BALUSTRADE</b>       |  |      |        |
| <b>10</b>                       | <b>WINDOWS</b>   |      |        |
|                                 | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms |      |        |
| A                               | window 2100mm x 1800 mm  | item | 10     |
| B                               | Window 3000*1800 mm  | item | 12     |
| C                               | window 900 mm x 600 mm on staff toilets  | item | 3      |
| <b>S/TOTAL</b>                  |  |      |        |
| <b>11</b>                       | <b>DOORS</b>   |      |        |
|                                 | Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms            |      |        |

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|   |  |      |        |
|---|--|------|--------|
|   | Simple doors 2500mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> | Nr.  | 11     |
|   | 2150 mm x 800 mm   | Nr.  | 4      |
|   | 2150 mm x 800 mm   | Nr.  | 1      |
| <b>PLUMBING AND DRAINAGE WORKS</b>  |  |      |        |
| <b>Provision for plumbing and drainage installation and external water reticulation installation.</b> |  |      |        |
|   | Piping works to include water supply to the building   | item | 1      |
| <b>Sanitary appliances</b>  |  |      |        |
|   | Supply and installation of WC of good quality complete with all accessories and all requirements   | Nr.  | 2      |
|   | supply and installation of WC For Handicap and all accessories   | Nr.  | 1      |
|   | Supply and installation of ceramic handwash basin complete with accessories and all requirements.  | Nr.  | 2      |
| <b>S/TOTAL PLUMBING</b>   |  |      |        |
| <b>GRAND TOTAL FOR FIRST FLOOR</b>  |  |      |        |
| <b>SECOND FLOOR CONSTRUCTION</b>  |  |      |        |
| <b>REINFORCED CONCRETE WORKS</b>  |  |      |        |
| <b>Vibrated reinforced concrete 1:2:4 mix for:</b>  |  |      |        |
| A   | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  |      | 10.98  |
| B   | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)   |      | 19.95  |
| <b>4 WALLING</b>  |  |      |        |
| <b>Clay brick masonry walls with cement-sand mortar for:</b>  |  |      |        |
| A   | External and Internal walls  | CM   | 124.00 |
| <b>SUB-TOTAL: CONCRETE &amp; WALLING</b>  |  |      |        |
| <b>5 WALL FINISHES</b>  |  |      |        |
| <b>EXTERNAL WALL AND COLUMNS FINISH</b>   |  |      |        |
| A   | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 434    |
| B   | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 434    |
| <b>INTERNAL WALL FINISH</b>   |  |      |        |

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|---------------------------------|--|------|--------|
| C                               | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 843.2  |
| D                               | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 843.2  |
| E                               | Plinth construction (100mm high)   | SQM  | 384    |
| F                               | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)   | item | 12     |
| <b>SUB-TOTAL: WALL FINISHES</b> |  |      |        |
| <b>6</b>                        | <b>FLOOR FINISHING</b><br><b>FLOOR SCREEDING</b>   |      |        |
| A                               | 50mm Thick Floor well levelled and smooth screed   | SQM  | 572.00 |
| <b>7</b>                        | <b>FLOOR AND WALL TILLING</b>  |      |        |
|                                 | Wall tiling with 300 mm x 200 mm tiles up to 1.50 m height in Toilets walls  | SQM  | 50.40  |
|                                 | Wall tiling with 300 mm x 300 mm tiles in Toilets Floors and in the corridor   | SQM  | 40.00  |
| <b>S/TOTAL</b>                  |  |      |        |
| <b>8</b>                        | <b>CEILING FINISHES</b>  |      |        |
|                                 | 1.2*2.4m plywood (Triplex) ceiling with Timber “brandering” materials fixed on steel truss and pinned in the wall with nails at 600*600mm each way to make the ceiling stable  |      |        |
|                                 | ceiling in Plywood (Triplex)   | SM   | 572    |
| <b>S/TOTAL</b>                  |  |      |        |
| <b>9</b>                        | <b>BALLUSTRADES &amp; RAILS</b>  |      |        |
|                                 | <i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i>                             |      |        |
| A                               | Balcony  | Lm   | 200.00 |
| <b>S/TOTAL BALUSTRADE</b>       |  |      |        |
| <b>10</b>                       | <b>WINDOWS</b>   |      |        |
|                                 | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms |      |        |
| A                               | window 2100mm x 1800 mm  | item | 10     |
| B                               | Window 3000*1800 mm  | item | 12     |
| C                               | window 900 mm x 600 mm on staff toilets  | item | 3      |
| <b>S/TOTAL</b>                  |  |      |        |

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|  |   |   |  |
|--|---|---|--|
| 11   | <b>DOORS</b><br><br><b>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms</b><br>Simple doors 2500mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b><br><br>2150 mm x 800 mm<br>2150 mm x 1000 mm | Nr.<br><br><br><br><br><br><br><br><br>Nr.<br>Nr. | 11<br><br><br><br><br><br><br><br><br>4<br>1 |
| <b>PLUMBING AND DRAINAGE WORKS</b>   |   |   |  |
| <i><b>Provision for plumbing and drainage installation and external water reticulation installation.</b></i>   |   |   |  |
| Piping works to include water supply to the building   |   |   |  |
| <b>Sanitary appliances</b>   |   |   |  |
| Supply and installation of WC of good quality complete with all accessories and all requirements   |   |   |  |
| supply and installation of WC For Handicap and all accessories   |   |   |  |
| Supply and installation of ceramic wash hands basin complete with accessories and all requirements.  |   |   |  |
| <b>S/TOTAL PLUMBING</b>  |   |   |  |
| <b>ROOF WORKS</b>  |   |   |  |
| <i><b>Roof truss made with 80*40*3mm Rafters and Horizontal beams ,60*40*3mm (inclined members) struts and purlins including all necessary welds, red oxide paint and all requirements</b></i> |   |   |  |
| <b>A</b>   | Supply and fix 80*40*3mm Rafters and horizontal beams   | Lm  | 800  |
| <b>B</b>   | Supply and fix 60*40*3mm Truss members (struts)   | Lm  | 800  |
| <b>C</b>   | Supply and fix 60*40*3mm Roof purlins and ridge beams   | Lm  | 744  |
| <b>D</b>   | 28-gauge Iron heist including roofing screws, washers, Ridge covers, roof drain and caps at centres   | SQM   | 868  |
| <b>ROOF WORKS FOR RAMPS</b>  |   |   |  |
| Supply and fix 60*40*3mm Truss members rafters and horizontal members to Ramp roof   |   |   |  |
| Supply and fix 40*40*2mm Roof purlins  |   |   |  |

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|  |  |     |       |
|--|--|-----|-------|
|  | 28-gauge Iron heist including roofing screws, washers, roof drain  | Lm  | 125   |
|  | supply and fix 200*200mm rainwater gutter  | Lm  | 104   |
|  | <b>RAINWATER Drainage on the roof</b>  |     |       |
|  | <b>ROOF WORKS FOR RAMP</b>   |     |       |
|  | supply and fix 200*200mm rainwater gutter  | Lm  | 150   |
|  | Supply and fix fascia boards   | Lm  | 30    |
|  | supply and fix 110mm Dia PVC water pipe the cost includes all fitting and accessories  | Lm  | 120   |
|  | Supply and fix 10000L Pvc water tanks to Receive rainwater from the roof. The cost includes the support of the tank to the ground and provision of water tap at the tanks with the overflow pipe | PC  | 4     |
|  | <b>S/TOTAL ROOF WORK</b>   |     |       |
|  | <b>GRAND TOTAL SECOND FLOOR</b>  |     |       |
|  | <b>EXTERNAL WORKS</b>  |     |       |
|  | Construction of stones masonry retaining wall at back side of the classroom block <b>A</b> (the retaining wall to be 3m between the new classroom brock and the existing classrooms building)    | CM  | 102.9 |
|  | Pavement with non slip concrete at the entire non constructed area of the school the cost includes soil levelling and compaction, hardcore laying and top screeding                              | SQM | 1900  |
|  | Construction of storm water open channel to collect the surface water in the compound of school and drain it to the down hills of the site (in the public drain)                                 | Lm  | 300   |
|  | Supply and fix the steel grilles welded on 50*50mm L-angles on the top of 300mm wide ,400mm deep stone masonry water channel   | Lm  | 200   |
|  | <b>S/TOTAL EXTERNAL WORKS</b>  |     |       |
|  | <b>GRAND TOTAL LOT A</b>   |     |       |

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| <b>BOQ – ELECTRICAL WORKS</b> |   |                            |            |
|-------------------------------|---|----------------------------|------------|
| <b>Item</b>                   | <b>Description</b>  | <b>Unit</b>                | <b>Qty</b> |
|                               | <b>SECTION 1.1 -GROUND FLOOR</b>  |                            |            |
|                               | <b><u>LIGHTING INSTALLATION</u></b>   |                            |            |
|                               | a) 1 gang 1-way switch  | No                         | 1          |
|                               | b) 1-gang 2-way switch  | No                         | 24         |
|                               | g) 1 gang 2-way Intermediate Switch   | No                         | 1          |
|                               |   |                            |            |
| 1                             | LUMINAIRE TYPE A  |                            |            |
|                               | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen   | No                         | 64         |
|                               |   |                            |            |
| 2                             | LUMINAIRE TYPE B  |                            |            |
|                               | Pole SWH Eco LED street luminaire 150W 18750LM including poles  | No                         | 2          |
|                               |   |                            |            |
| 3                             | LUMINAIRE TYPE C  |                            |            |
|                               | 450W Equivalent Integrated Outdoor LED 6800 Lumens  | No                         | 2          |
| 3                             | LUMINAIRE TYPE D  |                            |            |
|                               | Wall mounted mirror light   | No                         | 4          |
|                               |   |                            |            |
| 4                             | LUMINAIRE TYPE E  |                            |            |
|                               | Wall mounted stairway light with backup battery 18W   | No                         | 1          |
|                               |   |                            |            |
| 5                             | Socket Outlet   | No                         | 64         |
|                               | <b><u>POWER RETICULATION</u></b>  |                            |            |
| 5                             | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics   | set                        | 1          |
| 6                             | consumer unit complete with all hager accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hager or 19egrand, or any equivalence as approved   | No                         | 1          |
| 7                             | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. Complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27         |

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| 8                                   | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. Complete with switch boxes, junction boxes, couplers, bends and any other necessary conducting accessories | roll, line, Neutral, Earth | 35  |
|-------------------------------------|---|----------------------------|-----|
| 9                                   | Misc.Item, 4cx35sqmm supply cable to be measured, ...OTHERS   | roll                       | 1   |
| <b><u>CABLE MANAGEMENT</u></b>      |   |                            |     |
| 9                                   | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |
| 10                                  | Lightning Arrestor, ingesco@PDC 5.3 Lightning Rod.30M Radius Coverage.and metal strip copper.   | No                         | 1   |
| 11                                  | Earthing and Bondings   | No                         | 1   |
| 1                                   | Manual call-point red protection class IP54 dimensions 87x87x56mm   | No                         | 3   |
| 2                                   | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3   |
| 3                                   | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11  |
| 4                                   | BOSCH heat detector, F220 series detectors  | No                         | 1   |
| 5                                   | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch   | No                         | 1   |
| 6                                   | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                         | 2   |
| 7                                   | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                         | 144 |
| <b><u>Fire FIGHTING SYSTEM</u></b>  |   |                            |     |
| 5                                   | C02 Fire extinguisher 12KG  | No                         | 6   |
| 6                                   | Foam fire extinguisher 12KG   | No                         | 6   |
| GRAND TOTAL 1                       |   |                            |     |
| <b>FIRST FLOOR</b>                  |   |                            |     |
| Item                                | Description   | Unit                       | Qty |
| <b>SECTION 1.2 -FIRST FLOOR</b>     |   |                            |     |
| <b><u>LIGHTING INSTALLATION</u></b> |   |                            |     |
|                                     | a) 1 gang 1-way switch  | No                         | 1   |
|                                     | b) 1 gang 2-way switch  | No                         | 24  |
|                                     | c) 2 gang 2-way switch  | No                         | 0   |
|                                     | d) 3 gang 2-way switch  | No                         | 0   |
|                                     | e) 4 gang 2-way switch  | No                         | 0   |

|   |   |                            |     |
|---|---|----------------------------|-----|
|   | f) 10-gang 2-way grid switch  | No                         | 0   |
|   | g) 1 gang 2-way Intermediate Switch   | No                         | 1   |
| 1 | LUMINAIRE TYPE A  |                            |     |
|   | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen   | No                         | 64  |
| 2 | LUMINAIRE TYPE B  |                            |     |
|   | Pole SWH Eco LED street luminaire 150W 18750LM including poles  | No                         | 0   |
| 3 | LUMINAIRE TYPE C  |                            |     |
|   | 450W Equivalent Integrated Outdoor LED 6800 Lumens  | No                         | 0   |
| 3 | LUMINAIRE TYPE D  |                            |     |
|   | Wall mounted mirror light   | No                         | 4   |
| 4 | LUMINAIRE TYPE E  |                            |     |
|   | Wall mounted stairway light with backup battery 18W   | No                         | 1   |
| 5 | Socket Outlet   | No                         | 64  |
|   | <b><u>POWER RETICULATION</u></b>  |                            |     |
| 5 | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics   | set                        | 1   |
| 6 | Consumer unit complete with all hanger accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hanger or 21 Egrand, or any equivalence as approved  | No                         | 1   |
| 7 | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. Complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27  |
| 8 | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. Complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35  |
| 9 | Misc. Item, 4cx35sqmm supply cable to be measured, ...OTHERS  | roll                       | 1   |
|   | <b><u>CABLE MANAGEMENT</u></b>  |                            |     |
| 9 | Cable basket for minimised current cable carrying/OR Flexible PVC Conduit   | No                         | 125 |

|                                     |  |             |            |
|-------------------------------------|--|-------------|------------|
| 10                                  | Lightning Arrestor, ingesco@PDC 5.3<br>Lightning Rod.30M Radius Coverage.and metal strip<br>cupper.                  | No          | 0          |
| 11                                  | Earthing and Bondings  | No          | 0          |
| 1                                   | Manual call points red protection class IP54 dimensions<br>87x87x56mm  | No          | 3          |
| 2                                   | Wall mounted loudspeakers with flush mounting box<br>(Bosch<br>security systems louder speakers) 6W/100V (Rectangle) | No          | 3          |
| 3                                   | FAS-420 series Aspirating smoke detectors (Security<br>systems) 200X292  | No          | 11         |
| 4                                   | BOSCH heat detector, F220 series detectors   | No          | 1          |
| 5                                   | 528X381mm D7024 FIRE ALARM CONTROL<br>PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc<br>Bosch                        | No          | 1          |
| 6                                   | Evacuate show sign Lamp (Exit LED light) with emergency<br>battery 3.8v AC 220v                                      | No          | 2          |
| 7                                   | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire<br>alarm cable RED/WHITE                                      | No          | 144        |
| <b><u>Fire FIGHTING SYSTEM</u></b>  |  |             |            |
| 5                                   | C02 Fire extinguisher 12KG   | No          | 6          |
| 6                                   | Foam fire extinguisher 12KG  | No          | 6          |
| <b>GRAND TOTAL 2</b>                |  |             |            |
| <b>SECOND FLOOR</b>                 |  |             |            |
| <b>Item</b>                         | <b>Description</b>   | <b>Unit</b> | <b>Qty</b> |
| -                                   |  |             |            |
| <b>SECTION 1.3 -FIRST FLOOR</b>     |  |             |            |
| <b><u>LIGHTING INSTALLATION</u></b> |  |             |            |
|                                     | a) 1 gang 1-way switch   | No          | 1          |
|                                     | b) 1-gang 2-way switch   | No          | 24         |
|                                     | c) 2 gang 2-way switch   | No          | 0          |
|                                     | d) 3 gang 2-way switch   | No          | 0          |
|                                     | e) 4 gang 2-way switch   | No          | 0          |
|                                     | f) 10-gang 2-way grid switch   | No          | 0          |
|                                     | g) 1 gang 2-way Intermediate Switch  | No          | 1          |
| 1                                   | LUMINAIRE TYPE A   |             |            |
|                                     | Phillips Fluorescent Lighting 36W T8 1200mm,6500k<br>3250Lumen   | No          | 64         |

|    |   |                            |     |
|----|---|----------------------------|-----|
| 2  | LUMINAIRE TYPE B  |                            |     |
|    | Pole SWH Eco LED street luminaire 150W 18750LM including poles  | No                         | 0   |
|    |   |                            |     |
| 3  | LUMINAIRE TYPE C  |                            |     |
|    | 450W Equivalent Integrated Outdoor LED 6800 Lumens  | No                         | 0   |
| 3  | LUMINAIRE TYPE D  |                            |     |
|    | Wall mounted mirror light   | No                         | 4   |
|    |   |                            |     |
| 4  | LUMINAIRE TYPE E  |                            |     |
|    | Wall mounted stairway light with backup battery 18W   | No                         | 1   |
|    |   |                            |     |
| 5  | Socket Outlet   | No                         | 64  |
|    | <b><u>POWER RETICULATION</u></b>  |                            |     |
| 5  | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics   | set                        | 1   |
| 6  | Consumer unit complete with all Hager accessories: 16 way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hager or 23 Legrand, or any equivalence as approved   | No                         | 1   |
| 7  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. Complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27  |
| 8  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. Complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35  |
| 9  | Misc. Item, 4cx35sqmm supply cable to be measured, ...OTHERS  | roll                       | 1   |
|    | <b><u>CABLE MANAGEMENT</u></b>  |                            |     |
| 9  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |
| 10 | Lightening Arrestor, ingesco@PDC 5.3 Lighting Rod.30M Radius Coverage. And metal strip copper.  | No                         | 0   |
| 11 | Earthing and Bondings   | No                         | 0   |
| 1  | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                         | 3   |

AA

|                                    |  |    |     |
|------------------------------------|--|----|-----|
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle) | No | 3   |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292   | No | 11  |
| 4                                  | BOSCH heat detector, F220 series detectors   | No | 1   |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch                        | No | 1   |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v                                   | No | 2   |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE                                   | No | 144 |
| <b><u>Fire FIGHTING SYSTEM</u></b> |  |    |     |
| 5                                  | C02 Fire extinguisher 12KG   | No | 6   |
| 6                                  | Foam fire extinguisher 12KG  | No | 6   |
| <b>GRAND TOTAL</b>                 |  |    |     |
| <b>TOTAL FOR ELECTRICAL</b>        |  |    |     |



**LOT B: CONSTRUCTION OF G+2 BLOCK COMPOSED OF 12 CLASSROOMS;  
ELECTRICAL INSTALLATIONS AND EXTERNAL WORKS**

**LOCATION: KIZIBA CAMP, KARONGI DISTRICT**

| <b>LOT B: CONSTRUCTION OF CLASSROOMS BLOCK, 12 CLASSROOMS</b> |   |             |                 |
|---|---|-------------|-----------------|
|   | <b>ITEMS DESCRIPTIONS</b>   | <b>Unit</b> | <b>Quantity</b> |
| <b>I</b>  | <b>PRELIMINARY WORKS</b>  |             |                 |
|   | Site installation includes construction of temporary site office, toilets, changing areas, material stores and fencing site area with corrugated iron sheets (site holdings) With electrical and water connection         | LS          | 1               |
|   | <b>S/TOTAL</b>  |             |                 |
| <b>II</b>   | <b>SITE PREPARATION</b>   |             |                 |
|   | <b>DEMOLITION OF EXISTING STRUCTURES</b>  |             |                 |
| 1   | Removal of the existing roof in corrugated iron sheets and timber truss and deposit the materials at the client provided location   | SQM         | 540             |
| 2   | removal of the class buildings doors and windows in timber and deposit the material at shown proper location  | SQM         | 45              |
| 3   | Demolition of the existing old building wall and displacement of debris to the dumping site ( <b>the price includes demolition, transport of debris, allocation of dumping site near the camp and deposit of debris</b> ) | SQM         | 880             |
| 4   | Demolition of an old pavement up to the thickness of 250mm and removal of debris in an allocated dumping site   | SQM         | 560             |
|   | <b>S/TOTAL 1</b>  |             |                 |
| <b>III</b>  | <b>CONSTRUCTION CLASSROOM BLOCK B</b>   |             |                 |
|   | <b>GROUND FLOOR CONSTRUCTION</b>  |             |                 |
| 1   | <b><u>EARTHWORKS</u></b>  |             |                 |
| A   | Excavation works and site levelling prior to setting out and foundation works to include displacement of excavated soil from construction site to the dumping area (top soil removal not exceeding 150mm thick            | CM          | 462.00          |
| B   | Excavation work for columns bases (footings)  | CM          | 672.00          |
| C   | Excavation work for stone foundation trenches (600mm wide to 800 mm depth   | CM          | 91.68           |
| D   | Removal of the excavated material to the dumping site (the cost includes loading and transport to the hired dumping site by the contractor)   | CM          | 763.68          |
| 2   | <b><u>SUB-STRUCTURE WORKS</u></b>   |             |                 |
| A   | Apply anti-termite chemicals to foundation bottoms and sides of footings and stones foundation trenches   | SM          | 462.00          |

|          |  |           |        |
|----------|--|-----------|--------|
| B        | 50 mm thick blinding concrete under the column base in Plain concrete 1:4:8 mix (class C15 plain concrete)   | CM        | 11.20  |
| C        | Vibrated reinforced concrete 1:2:4 mix for column bases (Footings Reinforced with single layer of T16@150mm ).   | CM        | 72.58  |
| D        | Vibrated reinforced concrete 1:2:4 mix for sub columns   | CM        | 5.38   |
| E        | Construction of 400mm wide ,600mm deep stones masonry foundation to receives ground ring beams and brick walls   | CM        | 61.12  |
| F        | 50 mm thick concrete coping on top of stone masonry to receive the ground beam   | lm        | 191.00 |
| G        | 200*200mm vibrated reinforced concrete 1:2:4 mix ground beam reinforced with 4T12 main bars and T8 links spaced at 200mm                                     | CM        | 7.64   |
| H.       | Back filling and compaction of the footing and around the stone masonry foundation with the imported and approved Filling materials (lateritic soil, marram) | <b>CM</b> | 478.56 |
| I        | Filling and compaction the entire ground floor surface with imported marram (200mm thick)  | CM        | 92.40  |
| J        | Hardcore filling for the entire Ground floor 200mm thick   | SQM       | 462.00 |
| K        | BRC Mesh A142 at the entire ground floor   | SQM       | 462.00 |
| L        | pavement with smooth concrete 100mm thick  | SQM       | 462.00 |
| <b>3</b> | <b><u>SUPERSTRUCTURE</u></b><br><b><u>REINFORCED CONCRETE WORKS</u></b><br><b><i>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</i></b>             |           |        |
| A        | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  | CM        | 12.60  |
| B        | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)                             | CM        | 17.63  |
| C        | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)  | CM        | 66.00  |
| D        | Stairs   | CM        | 14.83  |
| E        | Handicap ramps reinforced as per slab reinforcements   | CM        | 21.70  |
| <b>4</b> | <b><u>WALLING</u></b><br><b><i>Clay brick masonry walls with cement-sand mortar for:</i></b>   |           |        |
| A        | External and Internal walls  | CM        | 95.78  |

|                |  |      |        |
|----------------|--|------|--------|
|                |  |      |        |
| <b>5</b>       | <b>WALL FINISHES</b>   |      |        |
|                | <b>EXTERNAL WALL AND COLUMNS FINISH</b>  |      |        |
| A              | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 258.4  |
| B              | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 258.4  |
|                | <b>INTERNAL WALL FINISH</b>  |      |        |
| C              | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 779.2  |
| D              | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 779.2  |
| E              | Plinth construction (100mm high)   | LM   | 370    |
| F              | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black boards)                      | item | 4      |
| <b>6</b>       | <b>FLOOR FINISHING</b>   |      |        |
|                | <b>FLOOR SCREEDING</b>   |      |        |
| A              | 50mm Thick Floor well levelled and smooth screed   | SQM  | 462.00 |
| B              | Supply all materials and construct external apron pavement (600mm wide around the building including drainage works (open water channel)   | SQM  | 62.40  |
| <b>S/TOTAL</b> |  |      |        |
| <b>8</b>       | <b>CEILING FINISHES</b>  |      |        |
|                | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs  | SM   | 462    |
|                | Prepare and apply three coats first grade emulsion paint to soffits of slab  | SM   | 462    |
| <b>S/TOTAL</b> |  |      |        |
| <b>9</b>       | <b>BALLUSTRADES &amp; RAILS</b>  |      |        |
|                | <i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i> |      |        |
| A              | Staircase  | Lm   | 50.00  |
| B              | Balcony And ramp   | Lm   | 200.00 |

| <b>S/TOTAL BALUSTRADE</b>                                      |   |      |       |
|--|---|------|-------|
| <b>10</b>  | <b>WINDOWS</b>  |      |       |
|  | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms  |      |       |
| A  | window 2100mm x 1800 mm   | item | 8     |
| B  | Window 3000*1800 mm   | item | 8     |
| C  | window 900 mm x 600 mm on staff toilets   | item | -     |
| <b>S/TOTAL</b>   |   |      |       |
| <b>11</b>  | <b>DOORS</b>  |      |       |
|  | Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 2500mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> | Nr.  | 8     |
| <b>TOTAL FOR GROUND FLOOR</b>                                  |   |      |       |
| <b>FIRST FLOOR CONSTRUCTION</b>                                |   |      |       |
| <u>REINFORCED CONCRETE WORKS</u>                               |   |      |       |
| <b>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</b> |   |      |       |
| A  | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details   |      | 12.60 |
| B  | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)  |      | 17.63 |
| C  | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)   |      | 66.00 |
| D  | Stairs  |      | 14.83 |
| E  | Handicap ramp reinforced concrete   |      | 21.70 |
| <b>4</b>   | <b><u>WALLING</u></b>   |      |       |
| <b>Clay brick masonry walls with cement-sand mortar for:</b>   |   |      |       |
| A  | External and Internal walls   | CM   | 95.78 |

| <b>SUB-TOTAL: CONCRETE &amp; WALLING</b> |  |      |        |
|--|--|------|--------|
| <b>5</b>                                 | <b>WALL FINISHES</b>   |      |        |
|  | <b>EXTERNAL WALL AND COLUMNS FINISH</b>  |      |        |
| A  | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 258.4  |
| B  | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 258.4  |
|  | <b>INTERNAL WALL FINISH</b>  |      |        |
| C  | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 779.2  |
| D  | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 779.2  |
| E  | Plinth construction (100mm high)   | Lm   | 370    |
| F  | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)                       | item | 4      |
| <b>SUB-TOTAL: WALL FINISHES</b>          |  |      |        |
| <b>6</b>                                 | <b>FLOOR FINISHING</b>   |      |        |
|  | <b>FLOOR SCREEDING</b>   |      |        |
| A  | 50mm Thick Floor well levelled and smooth screed   | SQM  | 462.00 |
| <b>S/TOTAL</b>                           |  |      |        |
| <b>8</b>                                 | <b>CEILING FINISHES</b>  |      |        |
|  | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs  | SM   | 462    |
|  | Prepare and apply three coats first grade emulsion paint to soffits of slab  | SM   | 462    |
| <b>S/TOTAL</b>                           |  |      |        |
| <b>9</b>                                 | <b>BALLUSTRADES &amp; RAILS</b>  |      |        |
|  | <i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i> |      |        |
| A  | Staircase  | Lm   | 50.00  |
| B  | Balcony And ramp   | Lm   | 200.00 |
| <b>S/TOTAL BALUSTRADE</b>                |  |      |        |
| <b>10</b>                                | <b>WINDOWS</b>   |      |        |

*AA*

|  |   |      |       |
|--|---|------|-------|
| A  | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>window 2100mm x 1800 mm   | item | 8     |
| B  | Window 3000*1800 mm   | item | 8     |
| <b>S/TOTAL</b>                                     |   |      |       |
| <b>11</b>  | <b>DOORS</b><br><br>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 2500mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> | Nr.  | 8     |
| <b>GRAND TOTAL FOR FIRST FLOOR</b>                 |   |      |       |
| <b>SECOND FLOOR CONSTRUCTION</b>                   |   |      |       |
| <u>REINFORCED CONCRETE WORKS</u>                   |   |      |       |
| <b>Vibrated reinforced concrete 1:2:4 mix for:</b> |   |      |       |
| A  | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details   |      | 12.60 |
| B  | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)  |      | 17.63 |
| <b>4</b>   | <b><u>WALLING</u></b><br><b>Clay brick masonry walls with cement-sand mortar for:</b>   |      |       |
| A  | External and Internal walls   | CM   | 95.78 |
| <b>SUB-TOTAL: CONCRETE &amp; WALLING</b>           |   |      |       |
| <b>5</b>   | <b>WALL FINISHES</b><br><b>EXTERNAL WALL AND COLUMNS FINISH</b>   |      |       |
| A  | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls  | SQM  | 258.4 |
| B  | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.  | SQM  | 258.4 |
| <b>INTERNAL WALL FINISHES</b>                      |   |      |       |

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|                                 |   |      |        |
|---------------------------------|---|------|--------|
| C                               | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls  | SQM  | 779.2  |
| D                               | Prepare and apply three coats first grade silk emulsion paint on plastered walls  | SQM  | 779.2  |
| E                               | Plinth construction (100mm high)  | SQM  | 370    |
| F                               | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)  | item | 4      |
| <b>SUB-TOTAL: WALL FINISHES</b> |   |      |        |
| <b>6</b>                        | <b>FLOOR FINISHING</b><br><b>FLOOR SCREEDING</b>  |      |        |
| A                               | 50mm Thick Floor well levelled and smooth screed  | SQM  | 462.00 |
| <b>S/TOTAL</b>                  |   |      |        |
| <b>8</b>                        | <b>CEILING FINISHES</b><br><br>1.2*2.4m plywood (Triplex) ceiling with Timber brandering materials fixed on steel truss and pinned in the wall with nails at 600*600mm each way to make the ceiling stable<br><br>Ceiling in Plywood (Triplex)                                  | SM   | 462    |
| <b>S/TOTAL</b>                  |   |      |        |
| <b>9</b>                        | <b>BALLUSTRADES &amp; RAILS</b><br><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i>             |      |        |
| A                               | Balcony   | Lm   | 200.00 |
| <b>S/TOTAL BALUSTRADE</b>       |   |      |        |
| <b>10</b>                       | <b>WINDOWS</b><br>Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transomes |      |        |
| A                               | window 2100mm x 1800 mm   | item | 8      |
| B                               | Window 3000*1800 mm   | item | 8      |
| <b>S/TOTAL</b>                  |   |      |        |
| <b>11</b>                       | <b>DOORS</b>  |      |        |

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|                                       |  |     |     |
|---------------------------------------|--|-----|-----|
|                                       | <b>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms</b><br>Simple doors 25000mm x 1000mm, simple Door | Nr. | 8   |
| <b>ROOF WORKS</b>                     |  |     |     |
|                                       | <i>Roof truss made with 80*40*3mm Rafters and Horizontal beams ,60*40*3mm (inclined members) struts and purlins including all necessary welds, red oxide paint and all requirements</i>  |     |     |
| <b>A</b>                              | Supply and fix 80*40*3mm Rafters and horizontal beams  | Lm  | 600 |
| <b>B</b>                              | Supply and fix 60*40*3mm Truss members (struts)  | Lm  | 600 |
| <b>C</b>                              | Supply and fix 60*40*3mm Roof purlins and ridge beams  | Lm  | 528 |
| <b>D</b>                              | 28-gauge Iron sheets including roofing screws, washers, Ridge covers, roof drain and caps at centres   | SQM | 735 |
| <b>RAINWATER Drainage on the roof</b> |  |     |     |
|                                       | Supply and fix 200*200mm rainwater gutter  | Lm  | 104 |
|                                       | Supply and fix fascia boards   | Lm  | 30  |
|                                       | Supply and fix 110mm Dia PVC water pipe the cost includes all fitting and accessories  | Lm  | 120 |
|                                       | Supply and fix 10000L Pvc water tanks to Receive rainwater from the roof. The cost includes the support of the tank to the ground and provision of water tap at the tanks with the overflow pipe   | PC  | 4   |
| <b>ROOF WORKS FOR RAMPS</b>           |  |     |     |
|                                       | Supply and fix 60*40*3mm Truss members rafters and horizontal members to Ramp roof   | Lm  | 250 |
|                                       | Supply and fix 40*40*2mm Roof purlins  | Lm  | 115 |
|                                       | 28-gauge Iron sheets including roofing screws, washers, roof drain   | Lm  | 125 |
|                                       | Supply and fix 200*200mm rainwater gutter  | Lm  | 104 |
| <b>S/TOTAL ROOF WORK</b>              |  |     |     |
| <b>GRAND TOTAL SECOND FLOOR</b>       |  |     |     |
| <b>EXTERNAL WORKS</b>                 |  |     |     |

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|  |   |    |     |
|--|---|----|-----|
|  | Construction of stones masonry retaining wall at back side of the classroom block <b>B</b> (the retaining wall to be 3m between the new classroom block and the existing classrooms building) | CM | 105 |
|  | Construction of stones masonry retaining walls 1.5m height to create access ramps to the existing schools' blocks.  | CM | 75  |
|  | Construction of storm water open channel to collect the surface water in the compound of school and drain it to the down hills of the site (in the public drain)                              | Lm | 200 |
|  | Supply and fix the steel grilles welded on 50*50mm L-angles on the top of 300mm wide ,400mm deep stone masonry water channel  | Lm | 200 |
|  | <b>S/TOTAL EXTERNAL WORKS</b>   |    |     |
|  | <b>GRAND TOTAL LOT B</b>  |    |     |

| ELECTRICAL WORKS |  |      |     |
|------------------|--|------|-----|
| Item             | Description  | Unit | Qty |
|                  | <b>SECTION 1.1 -GROUND FLOOR</b>                               |      |     |
|                  | <b><u>LIGHTING INSTALLATION</u></b>                            |      |     |
|                  | a) 1 gang 1-way switch   | No   | 1   |
|                  | b) 1-gang 2-way switch   | No   | 24  |
|                  | c) 2 gang 2-way switch   | No   | 0   |
|                  | d) 3 gang 2-way switch   | No   | 0   |
|                  | e) 4 gang 2-way switch   | No   | 0   |
|                  | f) 10-gang 2-way grid switch                                   | No   | 0   |
|                  | g) 1 gang 2-way Intermediate Switch                            | No   | 1   |
|                  |  |      |     |
| 1                | LUMINAIRE TYPE A   |      |     |
|                  | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen    | No   | 64  |
|                  |  |      |     |
| 2                | LUMINAIRE TYPE B   |      |     |
|                  | Pole SWH Eco LED street luminaire 150W 18750LM including poles | No   | 2   |
|                  |  |      |     |
| 3                | LUMINAIRE TYPE C   |      |     |
|                  | 450W Equivalent Integrated Outdoor LED 6800 Lumens             | No   | 2   |

|    |   |                            |     |
|----|---|----------------------------|-----|
| 3  | LUMINAIRE TYPE D  |                            |     |
|    | Wall mounted mirror light   | No                         | 4   |
| 4  | LUMINAIRE TYPE E  |                            |     |
|    | Wall mounted stairway light with backup battery 18W   | No                         | 1   |
| 5  | Socket Outlet   | No                         | 64  |
|    | <b><u>POWER RETICULATION</u></b>  |                            |     |
| 5  | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics   | set                        | 1   |
| 6  | Consumer unit complete with all hager accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to Hager or Legrand, or any equivalence as approved  | No                         | 1   |
| 7  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27  |
| 8  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35  |
| 9  | Misc. Item, 4cx35sqmm supply cable to be measured, ...OTHERS  | roll                       | 1   |
|    | <b><u>CABLE MANAGEMENT</u></b>  |                            |     |
| 9  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |
| 10 | Lightening Arrestor, ingesco@PDC 5.3<br>Lightening Rod.30M Radius Coverage. And metal strip copper.   | No                         | 1   |
| 11 | Earthing and Bondings   | No                         | 1   |
| 1  | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                         | 3   |
| 2  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3   |
| 3  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11  |
| 4  | BOSCH heat detector, F220 series detectors  | No                         | 1   |

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|  |   |             |            |
|--|---|-------------|------------|
| 5                                      | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch | No          | 1          |
| 6                                      | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v            | No          | 2          |
| 7                                      | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE            | No          | 144        |
| <b><u>Fire FIGHTING SYSTEM</u></b>     |   |             |            |
| 5                                      | C02 Fire extinguisher 12KG  | No          | 6          |
| 6                                      | Foam fire extinguisher 12KG   | No          | 6          |
| GRAND TOTAL 1                          |   |             |            |
| <b>FIRST FLOOR</b>                     |   |             |            |
| <b>Item</b>                            | <b>Description</b>  | <b>Unit</b> | <b>Qty</b> |
| <b><u>SECTION 1.2 -FIRST FLOOR</u></b> |   |             |            |
| <b><u>LIGHTING INSTALLATION</u></b>    |   |             |            |
|  | a) 1 gang 1-way switch  | No          | 1          |
|  | b) 1-gang 2-way switch  | No          | 24         |
|  | c) 2 gang 2-way switch  | No          | 0          |
|  | d) 3 gang 2-way switch  | No          | 0          |
|  | e) 4 gang 2-way switch  | No          | 0          |
|  | f) 10-gang 2-way grid switch  | No          | 0          |
|  | g) 1 gang 2-way Intermediate Switch   | No          | 1          |
| 1                                      | LUMINAIRE TYPE A  |             |            |
|  | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen                             | No          | 64         |
| 2                                      | LUMINAIRE TYPE B  |             |            |
|  | Pole SWH Eco LED street luminaire 150W 18750LM including poles                          | No          | 0          |
| 3                                      | LUMINAIRE TYPE C  |             |            |
|  | 450W Equivalent Integrated Outdoor LED 6800 Lumens                                      | No          | 0          |
| 3                                      | LUMINAIRE TYPE D  |             |            |
|  | Wall mounted mirror light   | No          | 4          |
| 4                                      | LUMINAIRE TYPE E  |             |            |
|  | Wall mounted stairway light with backup battery 18W                                     | No          | 1          |
| 5                                      | Socket Outlet   | No          | 64         |
| <b><u>POWER RETICULATION</u></b>       |   |             |            |

|                                    |   |                                  |     |
|------------------------------------|---|----------------------------------|-----|
| 5                                  | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics   | set                              | 1   |
| 6                                  | consumer unit complete with all hager accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hager or legrand, or any equivalence as approved  | No                               | 1   |
| 7                                  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line,<br>Neutral,<br>Earth | 27  |
| 8                                  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line,<br>Neutral,<br>Earth | 35  |
| 9                                  | Misc. Item, 4x35sqmm supply cable to be measured, ...OTHERS   | roll                             | 1   |
| <b><u>CABLE MANAGEMENT</u></b>     |   |                                  |     |
| 9                                  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                               | 125 |
| 10                                 | Lightening Arrestor, ingesco@PDC 5.3<br>Lightening Rod.30M Radius Coverage. And metal strip copper.   | No                               | 0   |
| 11                                 | Earthing and Bondings   | No                               | 0   |
| 1                                  | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                               | 3   |
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                               | 3   |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                               | 11  |
| 4                                  | BOSCH heat detector, F220 series detectors  | No                               | 1   |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch   | No                               | 1   |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                               | 2   |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                               | 144 |
| <b><u>Fire FIGHTING SYSTEM</u></b> |   |                                  |     |
| 5                                  | C02 Fire extinguisher 12KG  | No                               | 6   |
| 6                                  | Foam fire extinguisher 12KG   | No                               | 6   |

| GRAND TOTAL 2                       |  |                                 |     |
|-------------------------------------|--|---------------------------------|-----|
| <b>SECOND FLOOR</b>                 |  |                                 |     |
| Item                                | Description  | Unit                            | Qty |
|                                     |  | <b>SECTION 1.3 -FIRST FLOOR</b> |     |
| <b><u>LIGHTING INSTALLATION</u></b> |  |                                 |     |
|                                     | a) 1 gang 1-way switch   | No                              | 1   |
|                                     | b) 1-gang 2-way switch   | No                              | 24  |
|                                     | c) 2 gang 2-way switch   | No                              | 0   |
|                                     | d) 3 gang 2-way switch   | No                              | 0   |
|                                     | e) 4 gang 2-way switch   | No                              | 0   |
|                                     | f) 10-gang 2-way grid switch   | No                              | 0   |
|                                     | g) 1 gang 2-way Intermediate Switch  | No                              | 1   |
| 1                                   | LUMINAIRE TYPE A   |                                 |     |
|                                     | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250 Lumen   | No                              | 64  |
| 2                                   | LUMINAIRE TYPE B   |                                 |     |
|                                     | Pole SWH Eco LED street luminaire 150W 18750LM including poles   | No                              | 0   |
| 3                                   | LUMINAIRE TYPE C   |                                 |     |
|                                     | 450W Equivalent Integrated Outdoor LED 6800 Lumens   | No                              | 0   |
| 3                                   | LUMINAIRE TYPE D   |                                 |     |
|                                     | Wall mounted mirror light  | No                              | 4   |
| 4                                   | LUMINAIRE TYPE E   |                                 |     |
|                                     | Wall mounted stairway light with backup battery 18W  | No                              | 1   |
| 5                                   | Socket Outlet  | No                              | 64  |
| <b><u>POWER RETICULATION</u></b>    |  |                                 |     |
| 5                                   | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics  | set                             | 1   |
| 6                                   | consumer unit complete with all hager accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hager or legrand, or any equivalence as approved | No                              | 1   |

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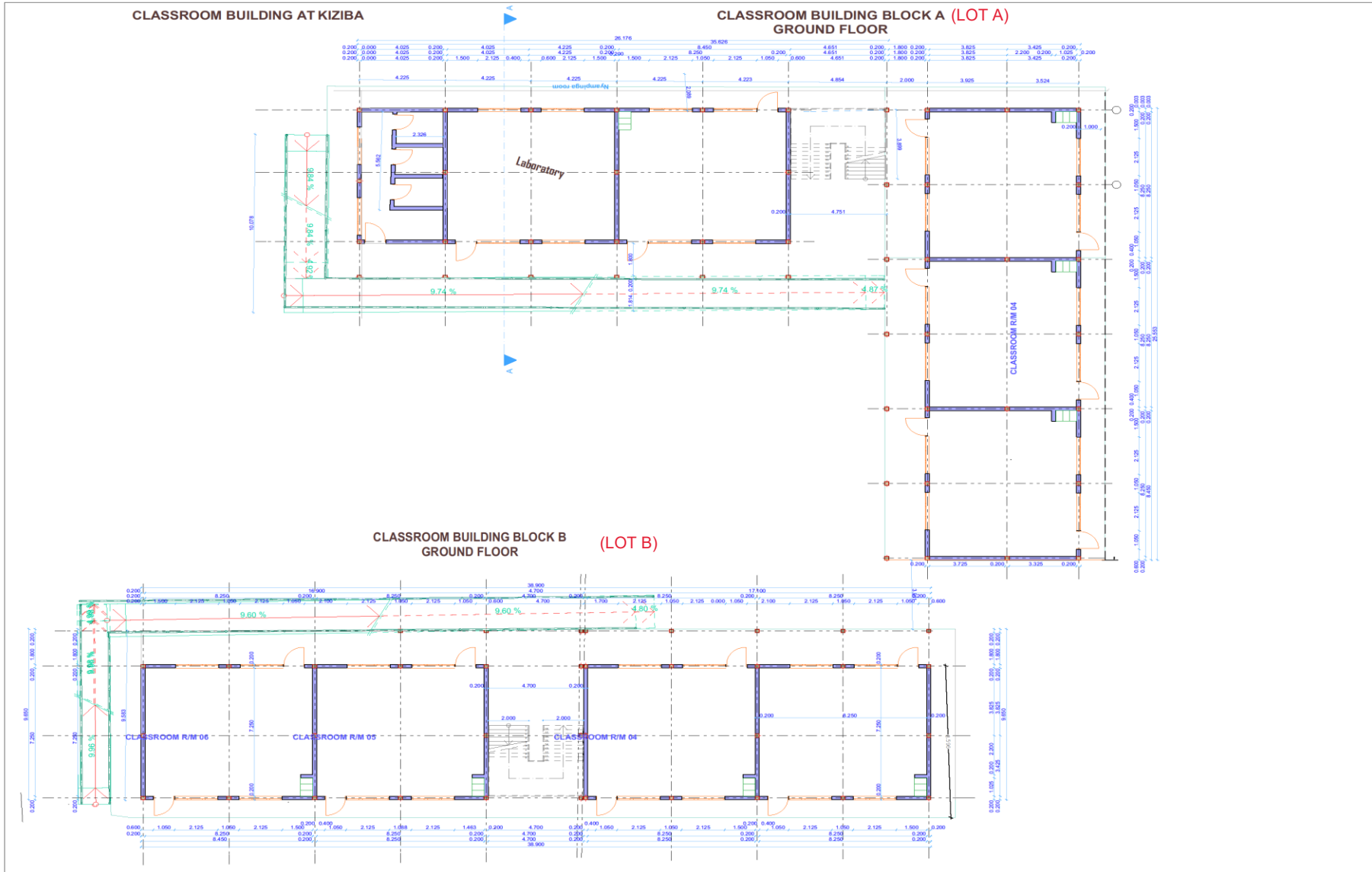
|                                    |   |                            |     |
|------------------------------------|---|----------------------------|-----|
| 7                                  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27  |
| 8                                  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35  |
| 9                                  | Misc. Item, 4cx35sqm supply cable to be measured, ...OTHERS   | roll                       | 1   |
| <b><u>CABLE MANAGEMENT</u></b>     |   |                            |     |
| 9                                  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |
| 10                                 | Lightning Arrestor, ingesco@PDC 5.3<br>Lighinig Rod.30M Radius Coverage.and metal strip copper.   | No                         | 0   |
| 11                                 | Earthing and Bondings   | No                         | 0   |
| 1                                  | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                         | 3   |
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3   |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11  |
| 4                                  | BOSCH heat detector, F220 series detectors  | No                         | 1   |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch   | No                         | 1   |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                         | 2   |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                         | 144 |
| <b><u>Fire FIGHTING SYSTEM</u></b> |   |                            |     |
| 5                                  | C02 Fire extinguisher 12KG  | No                         | 6   |
| 6                                  | Foam fire extinguisher 12KG   | No                         | 6   |
| <b>GRAND TOTAL</b>                 |   |                            |     |
| <b>TOTAL FOR ELECTRICAL</b>        |   |                            |     |

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Annex A / Drawings (1/6) Continued: Overall Site Plan (LOT A & B)

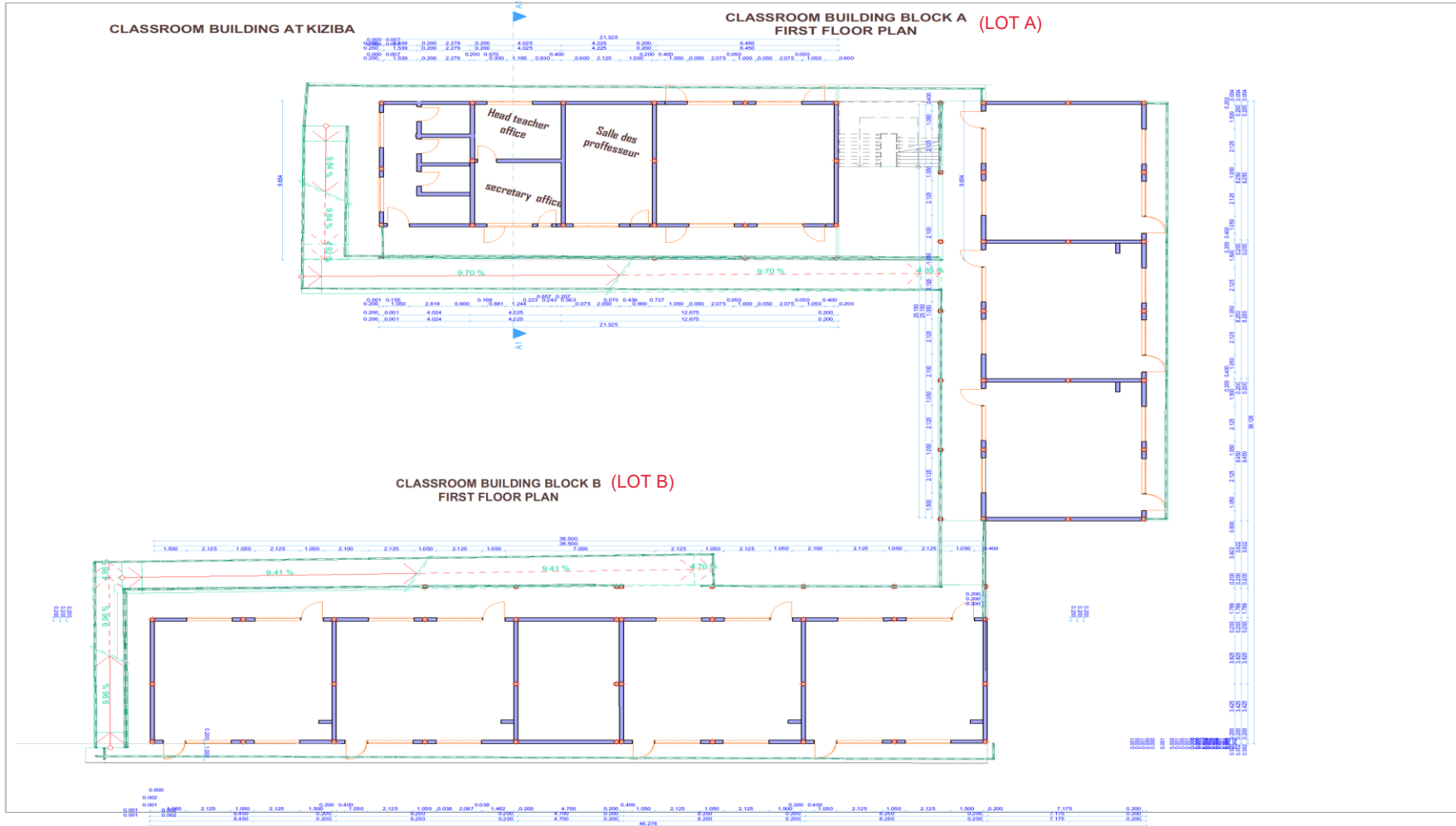


### Annex A / Drawings (2/6) Continued: G+2 BLOCK GROUND FLOOR (LOT A & B)

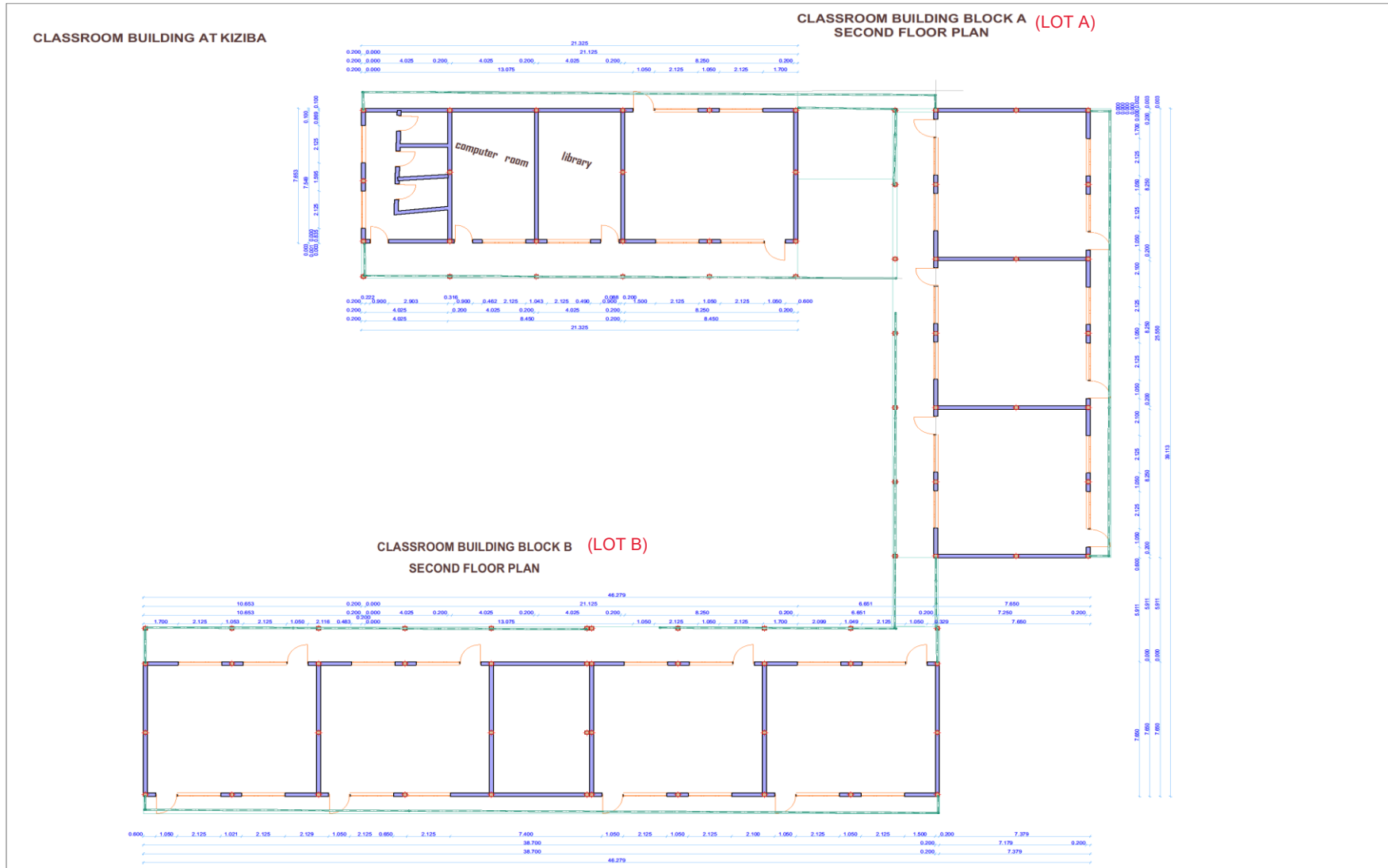




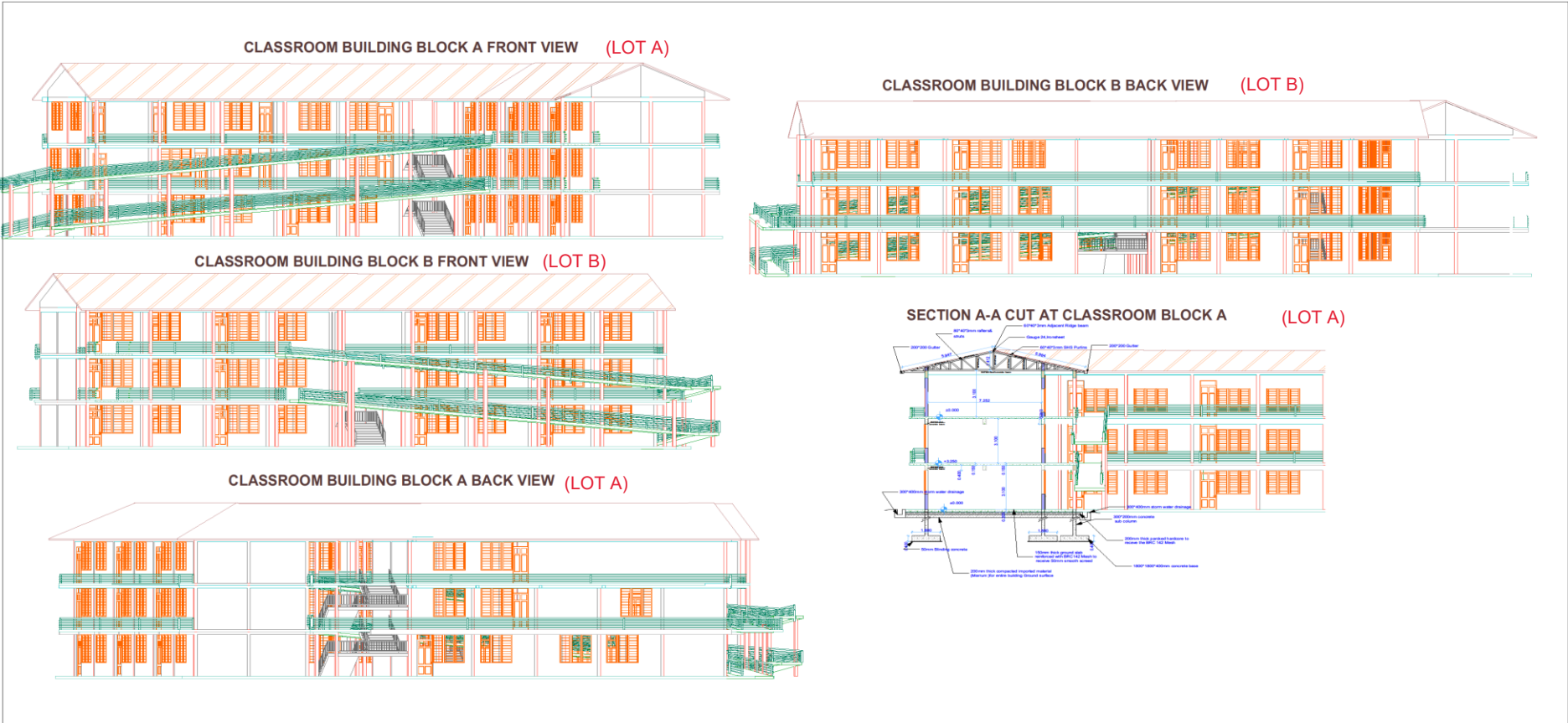
# Annex A / Drawings (3/6) Continued: G+2 BLOCK FIRST FLOOR (LOT A & B)



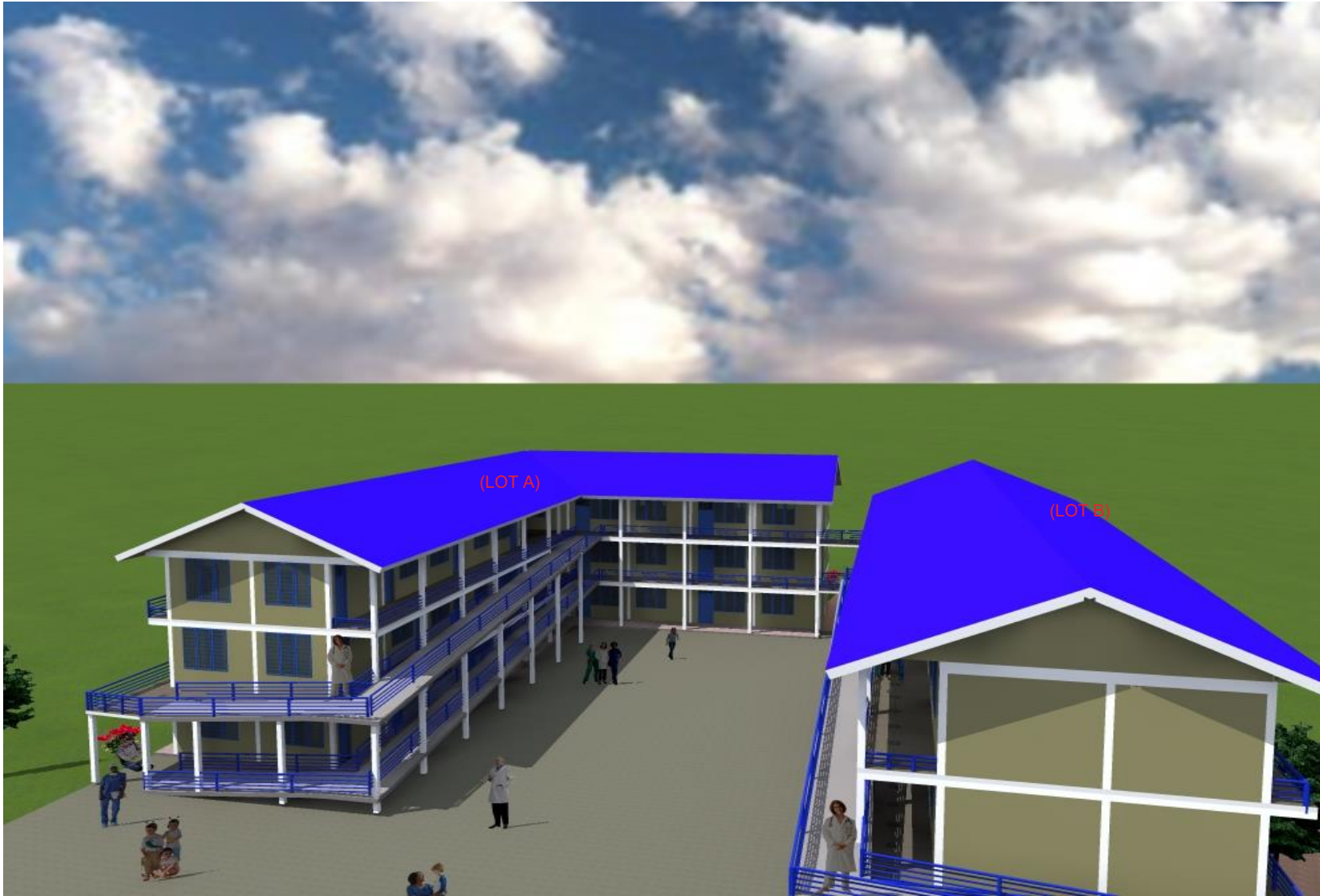
Annex A / Drawings (4/6) Continued: G+2 BLOCK SECOND FLOOR (LOT A & B)

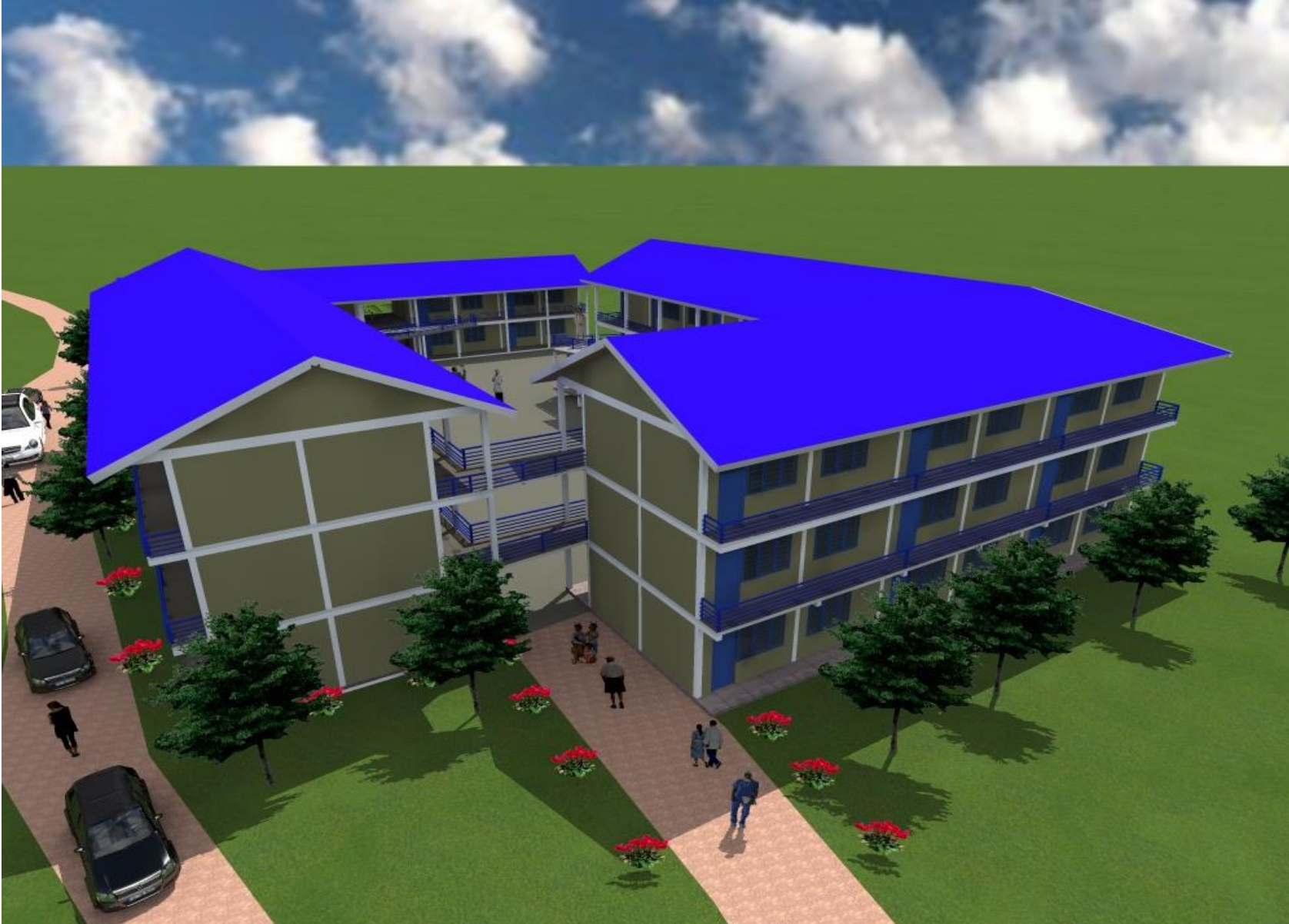


Annex A / Drawings (5/6) Continued: G+2 BLOCK ELEVATIONS (LOT A & B)



Annex A / Drawings (6/6) Continued:







**ANNEX B: TECHNICAL OFFER FORM  
RFP/010/ HCR-RWA/2020**

**CONSTRUCTION OF G+2 BLOCKS OF 24 CLASSROOMS**

**LOT A & LOT B**

**LOCATION: KIZIBA CAMP, KARONGI DISTRICT**

| # | TECHNICAL EVALUATION CRITERIA POINTS  | Max. Points obtainable   |                                 |             |
|---|---|--|---------------------------------|-------------|
| 0 | <b>Eligibility (minimum requirements, that a company must meet for evaluation)</b>  |  |                                 |             |
|   | The bidding company must show proof of existence for the last three years by submitting Certificate of Domestic Company Registration from the Rwanda Development Board (RDB)  | PASS/FAIL  |                                 |             |
|   | The bidding company should show tax compliance by providing a valid and current Tax clearance certificate issued by RRA.  | PASS/FAIL  |                                 |             |
|   | The bidding company shall provide audited financial statements for the last three years (2017; 2018; and 2019) duly signed and stamped by RRA   | PASS/FAIL  |                                 |             |
| 1 | <b>COMPANY PROFILE (CAPACITY/QUALIFICATIONS)</b>  | <b>5.00</b>  |                                 |             |
|   | Company Profile – Short description of the Company, details on the objectives, and experience in the construction sector.   | < 3 years:   | 2.00 points                     |             |
|   |   | 3-5 years:   | 3.00 points                     |             |
|   |   | >5 years:  | 5.00 points                     |             |
| 2 | <b>QUALIFICATION OF THE PROPOSED STAFF, EQUIPEMENT AND REPORTING STRUCTURE</b>  | <b>10.00</b>   |                                 |             |
|   | Number and Qualifications of dedicated staff, CV, diplomas, background of the:<br>- Project leader (engineer or architect with min. five (5) years of experience in the respective field)<br>- Dedicated field/technical staff (Electrical, Mechanical Engineers with min. five (5) years' experience in the respective field)<br>- Two (2) Site Managers (Civil Engineer, Architect or Construction Technician with min. five (5) years of experience in the respective field) | Project Manager to have at least a Higher National Diploma in Building construction/Engineering degree with min 5 years of experience as a Site Engineer and equally conversant with site safety. All to have experience in works of similar nature. | No proof of experience          | 0.00 point  |
|   |   |  | Between 1-4 years of experience | 0.50 point  |
|   |   |  | > 5 years of experience         | 1.00 point  |
|   |   | Electrical Engineer to have at least a Higher National Diploma in Electrical Engineering degree with min 5-year experience. All to have experience in works of similar nature  | No proof of experience          | 0.00 point  |
|   |   |  | Between 1-4 years of experience | 0.50 points |
|   |   |  | > 5 years of experience         | 1.00 point  |
|   |   | Mechanical Engineer to have at least a Higher National Diploma in Mechanical construction/Engineering degree with min 5-year experience. All to have experience in works of similar nature   | No proof of experience          | 00.points   |
|   |   |  | Between 1-4 years of experience | 0.50 point  |
|   |   |  | > 5 years of experience         | 1.00 point  |
|   |   | Site Manager to have at least Diploma in Building construction/Engineering with min 5-year experience as a Site Manager and equally conversant with site safety. All to have experience in works of similar nature                                   | No proof of experience          | 00.point    |
|   |   |  | Between 1-4 years of experience | 0.50 point  |
|   |   |  | > 5 years of experience         | 1.00 point  |
|   | Site Foreman to have at least Diploma in Building construction/Engineering with min 2-year experience as a Foreman and equally conversant with site safety. All to have   | No proof of experience or < 2 years  | 00.point                        |             |
|   |   | > 2 years of experience  | 1.00 points                     |             |

|   |  |  |              |
|---|--|--|--------------|
|   | experience in works of similar nature  |  |              |
| Detailed curriculum vitae of the above personnel certified by employee or the bidding company or representative shall be attached. CV certified means duly signed by the interested party. <b>Curriculum Vitae which are not certified will not be considered for evaluation and in any case will earn zero points.</b> |  |  |              |
|   | Ownership or lease of major equipment including, but not limited to the below listed items.<br>Proof of ownership e.g. copies of yellow cards, receipts, letters of insurance etc. and/or lease agreements to be provided or a company commitment for inspection at any time.<br>a) Concrete mixing & placing plant/equipment<br>b) Vehicle Transport<br>c) Steel cutting & Bending Tools<br>d) Power Tools/Equipment<br>e) Metal formwork capacity  | 1 point<br>1 point<br>1 point<br>1 point<br>1 point  |              |
| <b>3</b>  | <b>EXPERIENCE ON SIMILAR SERVICES</b>  | <b>15.00</b>   |              |
|   | <p><b>Track Records &amp; Current Projects:</b> Submission of evidence regarding executed similar sized, relevant contracts with minimum value of RWF 80 million project value signed with companies or organizations and or their outcome within last five (5) years supported with copies of purchase orders/contracts or letter of references or work completion certificates. Please note that, companies that are not providing reference letters or work completion certificates shall score 0.00.</p> <p><b>Work with Government, INGOs and UN-Agencies:</b> Submission of evidence that the vendor has conducted similar work with Government agencies, UN, INGO, diplomatic missions with a better understanding context of operations and all government regulations during the implementation of the projects</p> | 1 to 2 References or copy of work completion certificate or purchase orders / contracts-<br><b>Attached</b>  | 0.00 points  |
|   |  | 3 to 6 References or copy of work completion certificate or purchase orders / contracts-<br><b>Attached</b>  | 2.50 points  |
|   |  | 7 to 9 References or copy of work completion certificate or purchase orders / contracts-<br><b>Attached</b>  | 5.00 points  |
|   |  | 10 projects or above of 100 million or 5 projects of 200 million or 2 projects of RWF 500 million References or copy of work completion certificate or purchase orders / contracts-<br><b>Attached</b> | 10.00 points |
|   |  | References or copy of work completion certificate or purchase orders / contracts-<br><b>Attached</b>   | 5.00 points  |
| <b>4</b>  | <b>WORK PLAN, SITE MANAGEMENT AND ASSESSMENTS</b>  | <b>15.00</b>   |              |
|   | <p><b>Work Plan:</b> Level and quality of the proposed WORKPLAN chart prepared with MS Project, MS Excel or similar software (presenting / indicating activities that shall be performed on a weekly basis and broken down with percentage distribution for all main-tasks with their content table to be indicated by the participating companies)</p>  | Weekly basis   | 2.00 points  |
|   |  | Indicating Sub-Tasks   | 2.00 points  |
|   |  | % distribution (for main and sub-tasks)  | 2.00 points  |

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|   |   |   |                |
|---|---|---|----------------|
|   |   | Completion time<br>(proportionally distributed)   | 2.00<br>points |
|   | <b>Testing, Assessment, Site Visit:</b> The vendors are requested to conduct official field site visit during the as stipulated in the tender document, also show evidence of materials testing certificates of previous works implemented i.e. steel tensile test, concrete comprehensive test and any form of test required etc. and approved by Rwanda Standards Board   | Official field site visit   | 5.00<br>points |
|   |   | References or copy of proof of material test reports of previous construction works (UNHCR or other sites)<br><b>Attached</b> | 2.00<br>points |
| <b>5</b>  | <b>TECHNICAL REQUIREMENTS FOR THE WORKS</b>   | <b>15.00</b>  |                |
|   | <p>Availability of Methodology</p> <p>Provide a well detailed methodological statement describing how the contractor understands the project scope and how to execute the works following the minimum requirements as below listed:</p> <ul style="list-style-type: none"> <li>- Construction site preparation <ul style="list-style-type: none"> <li>- General construction process <ul style="list-style-type: none"> <li>· Substructure works</li> <li>· Main Structure frame construction</li> <li>· Reinforcement works</li> <li>· Concrete works</li> <li>· Formwork and scaffolding work</li> <li>· Walling</li> <li>· Roofing and Installation works.</li> <li>· Electrical works</li> </ul> </li> <li>- External Works <ul style="list-style-type: none"> <li>· Finishes works</li> <li>· Landscaping and drainage</li> <li>· Other civil works</li> </ul> </li> </ul> </li> </ul> <p><u>Scoring methodology:</u></p> <ul style="list-style-type: none"> <li>a) No proof or evidence or does not meet the minimum requirement 0.00points</li> <li>b) Partially meets the requirements with major gaps: 4.00 points</li> <li>c) Partially meets the requirements with minor gaps: 6.00 points</li> <li>d) Fully meets the requirements: 10.00 points</li> </ul> |   |                |
|   | <b>Health and Safety consideration:</b> (Ability to work in security condition in project location well as existence of applicant's organizational policies and procedures and practices related to security risk management of persons and material)   | Personal and material security management   | 1.50           |
|   |   | Site security measures to be undertaken during construction   | 1.50           |
|   | <b>Environmental Management:</b> Vendor is requested to submit detailed methodology, approach and implementation plan on management/mitigation of Environment during the implementation of the project  | Detailed environmental management during implementation of the project  | 2.00           |
| <b>OVERALL TOTAL (Available for Technical Component):</b>       |   | <b>60.00</b>  |                |
| <b>Minimum Score to be for further financial analysis (40%)</b> |   | <b>40.00</b>  |                |

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**ANNEX C: FINANCIAL OFFER FORMS  
RFP/010/ HCR-RWA/2020**

**LOT A: CONSTRUCTION OF G+2 BLOCK A COMPOSED OF 12 CLASSROOMS; 1 LABORATORY; OFFICE; TOILET, ELECTRICAL INSTALLATIONS AND EXTERNAL WORKS**

**LOCATION: KIZIBA CAMP, KARONGI DISTRICT**

| <b>CONSTRUCTION OF CLASSROOMS BLOCK A OF 12 CLASSROOMS, OFFICES, TOILET, LABORATORY, COMPUTER ROOM &amp; LIBRARY</b> |   |            |                 |                                      |                                       |
|--|---|------------|-----------------|--------------------------------------|---------------------------------------|
|  | <b>ITEMS DESCRIPTIONS</b>   | <b>UoM</b> | <b>Quantity</b> | <b>Unit Cost (RWF) VAT Exclusive</b> | <b>Total Cost (RWF) VAT Exclusive</b> |
| <b>I</b>   | <b>PRELIMINARY WORKS</b>  |            |                 |                                      |                                       |
|  | Site installation includes construction of temporary site office, toilets, changing areas, material stores and fencing site area with corrugated iron sheets (site holdings) With electrical and water connection         | LS         | 1               |                                      |                                       |
|  | <b>S/TOTAL</b>  |            |                 |                                      |                                       |
| <b>II</b>  | <b>SITE PREPARATION</b>   |            |                 |                                      |                                       |
|  | <b>DEMOLITION OF EXISTING STRUCTURES</b>  |            |                 |                                      |                                       |
| 1  | Removal of the existing roof in corrugated iron sheets and timber truss and deposit the materials at the client provided location   | SQM        | 540             |                                      |                                       |
| 2  | removal of the class buildings doors and windows in timber and deposit the material at shown proper location  | SQM        | 45              |                                      |                                       |
| 3  | Demolition of the existing old building wall and displacement of debris to the dumping site ( <b>the price includes demolition, transport of debris, allocation of dumping site near the camp and deposit of debris</b> ) | SQM        | 880             |                                      |                                       |
| 4  | Demolition of an old pavement up to the thickness of 250mm and removal of debris in an allocated dumping site   | SQM        | 560             |                                      |                                       |
|  | <b>S/TOTAL 1</b>  |            |                 |                                      |                                       |
| <b>III</b>   | <b>CONSTRUCTION CLASSROOM BLOCK</b>   |            |                 |                                      |                                       |
|  | <b>GROUND FLOOR CONSTRUCTION</b>  |            |                 |                                      |                                       |
| 1  | <b><u>EARTHWORKS</u></b>  |            |                 |                                      |                                       |
| A  | Excavation works and site levelling prior to setting out and foundation works to include displacement of excavated soil from construction site to the dumping area (topsoil removal not exceeding 150mm thick)            | CM         | 85.80           |                                      |                                       |
| B  | Excavation work for columns bases (footings)  | CM         | 732.00          |                                      |                                       |
| C  | Excavation work for stone foundation trenches (600mm wide to 800 mm depth)  | CM         | 127.68          |                                      |                                       |

|                |  |           |        |  |  |
|----------------|--|-----------|--------|--|--|
| D              | Removal of the excavated material to the dumping site (the cost includes loading and transport to the hired dumping site by the contractor)                  | CM        | 774.56 |  |  |
| <b>2</b>       | <b><u>SUB-STRUCTURE WORKS</u></b>  |           |        |  |  |
| A              | Apply anti-termite chemicals to foundation bottoms and sides of footings and stones foundation trenches  | SM        | 572.00 |  |  |
| B              | 50 mm thick blinding concrete under the column base in Plain concrete 1:4:8 mix (class C15 plain concrete)   | CM        | 12.20  |  |  |
| C              | Vibrated reinforced concrete 1:2:4 mix for column bases (Footings Reinforced in T16@150mm single layer)  | CM        | 79.06  |  |  |
| D              | Vibrated reinforced concrete 1:2:4 mix for sub columns (reinforced in 6T16main bars and T8&150mm links)  | CM        | 10.98  |  |  |
| E              | Construction of 400mm wide ,600mm deep stones masonry foundation to receives ground ring beams and brick walls   | CM        | 85.12  |  |  |
| F              | 50 mm thick concrete coping on top of stone masonry to receive the ground beam   | Im        | 266.00 |  |  |
| G              | 200*200mm vibrated reinforced concrete 1:2:4 mix ground beam reinforced with 4T12 main bars and T8 links spaced at 200mm                                     | CM        | 10.64  |  |  |
| H.             | Back filling and compaction of the footing and around the stone masonry foundation with the imported and approved Filling materials (lateritic soil, marram) | <b>CM</b> | 359.76 |  |  |
| I              | Filling and compaction the entire ground floor surface with imported marram (200mm thick)  | CM        | 114.40 |  |  |
| J              | Hardcore filling for the entire Ground floor 200mm thick   | SQM       | 614.80 |  |  |
| K              | BRC Mesh A142 at the entire ground floor   | SQM       | 614.80 |  |  |
| L              | pavement with smooth concrete 100mm thick  | SQM       | 614.80 |  |  |
| <b>S/TOTAL</b> |  |           |        |  |  |
| <b>3</b>       | <b><u>SUPERSTRUCTURE</u></b><br><b><u>REINFORCED CONCRETE WORKS</u></b><br><b><i>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</i></b>             |           |        |  |  |
| A              | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  | CM        | 10.98  |  |  |
| B              | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)                             | CM        | 38.40  |  |  |
| C              | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)  | CM        | 85.80  |  |  |

|                |  |      |        |  |  |
|----------------|--|------|--------|--|--|
| D              | Stairs   | CM   | 14.83  |  |  |
| E              | Handicap ramps reinforced as per slab reinforcements   | CM   | 21.78  |  |  |
| 4              | <b><u>WALLING</u></b><br><b>Clay brick masonry walls with cement-sand mortar for:</b>  |      |        |  |  |
| A              | External and Internal walls  | CM   | 124.00 |  |  |
| <b>S/TOTAL</b> |  |      |        |  |  |
| 5              | <b>WALL FINISHES</b><br><b>EXTERNAL WALL AND COLUMNS FINISH</b>  |      |        |  |  |
| A              | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 354    |  |  |
| B              | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 354    |  |  |
|                | <b>INTERNAL WALL FINISH</b>  |      |        |  |  |
| C              | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 763.2  |  |  |
| D              | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 763.2  |  |  |
| E              | Plinth construction (100mm high)   | SQM  | 384    |  |  |
| F              | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords) | item | 12     |  |  |
| <b>S/TOTAL</b> |  |      |        |  |  |
| 6              | <b>FLOOR FINISHING</b><br><b><u>FLOOR SCREEDING</u></b>  |      |        |  |  |
| A              | 50mm Thick Floor well levelled and smooth screed   | SQM  | 572.00 |  |  |
| B              | Supply all materials and construct external apron pavement (600mm wide around the building including drainage works (open water channell)  | SQM  | 72.00  |  |  |
| 7              | <b><u>FLOOR AND WALL TILLING</u></b>   |      |        |  |  |
|                | Wall tiling with 300 mm x 200 mm tiles up to 1.50 m height in Toilets walls  | SQM  | 50.40  |  |  |
|                | Wall tiling with 300 mm x 300 mm tiles in Toilets Floors and in the corridor   | SQM  | 40.00  |  |  |
| <b>S/TOTAL</b> |  |      |        |  |  |
| 8              | <b>CEILING FINISHES</b>  |      |        |  |  |

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|                                    |   |      |        |  |  |
|------------------------------------|---|------|--------|--|--|
|                                    | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs   | SM   | 624    |  |  |
|                                    | Prepare and apply three coats first grade emulsion paint to soffits of slab   | SM   | 624    |  |  |
| <b>S/TOTAL</b>                     |   |      |        |  |  |
| <b>9</b>                           | <b>BALLUSTRADES &amp; RAILS</b><br><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i>   |      |        |  |  |
| A                                  | Staircase   | Lm   | 50.00  |  |  |
| B                                  | Balcony And ramp  | Lm   | 200.00 |  |  |
| <b>S/TOTAL BALUSTRADE</b>          |   |      |        |  |  |
| <b>10</b>                          | <b>WINDOWS</b><br>Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms  |      |        |  |  |
| A                                  | window 2100mm x 1800 mm   | item | 10     |  |  |
| B                                  | Window 3000*1800 mm   | item | 12     |  |  |
| C                                  | window 900 mm x 600 mm on staff toilets   | item | 3      |  |  |
| <b>S/TOTAL</b>                     |   |      |        |  |  |
| <b>11</b>                          | <b>DOORS</b><br>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 2500mm x 1000mm, simple Door<br><i>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</i> |      |        |  |  |
|                                    | 2150 mm x 800 mm  | Nr.  | 3      |  |  |
|                                    | 2150 mm x 800 mm  | Nr.  | 1      |  |  |
| <b>S/TOTAL</b>                     |   |      |        |  |  |
| <b>PLUMBING AND DRAINAGE WORKS</b> |   |      |        |  |  |

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|   |  |      |        |  |  |
|---|--|------|--------|--|--|
| <b>Provision for plumbing and drainage installation and external water reticulation installation.</b> |  |      |        |  |  |
|   | Piping works to include water supply and drainage  | item | 1      |  |  |
|   | Drainage works to include the provision of drainage facilities such as manholes, septic tanks, soakaway pits                     | item | 1      |  |  |
|   | Water reticulation to the existing network   | item | 1      |  |  |
| <b>Sanitary appliances</b>  |  |      |        |  |  |
|   | Supply and installation of WC of good quality complete with all accessories and all requirements                                 | Nr.  | 2      |  |  |
|   | supply and installation of WC For Handicap and all accessories   | Nr.  | 1      |  |  |
|   | Supply and installation of ceramic handwash basin complete with accessories and all requirements.                                | Nr.  | 2      |  |  |
| <b>S/TOTAL</b>  |  |      |        |  |  |
| <b>TOTAL FOR GROUND FLOOR</b>   |  |      |        |  |  |
| <b>FIRST FLOOR CONSTRUCTION</b>   |  |      |        |  |  |
| <u>REINFORCED CONCRETE WORKS</u>  |  |      |        |  |  |
| <b>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</b>  |  |      |        |  |  |
| A   | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  | CM   | 10.98  |  |  |
| B   | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing) | CM   | 38.40  |  |  |
| C   | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)  | CM   | 85.80  |  |  |
| D   | Stairs   | CM   | 14.83  |  |  |
| E   | Handicap ramp reinforced concrete  | CM   | 21.78  |  |  |
| 4   | <b><u>WALLING</u></b>  |      |        |  |  |
| <b>Clay brick masonry walls with cement-sand mortar for:</b>  |  |      |        |  |  |
| A   | External and Internal walls  | CM   | 124.00 |  |  |
| <b>SUB-TOTAL: CONCRETE &amp;WALLING</b>   |  |      |        |  |  |
| 5   | <b>WALL FINISHES</b>   |      |        |  |  |
| <b>EXTERNAL WALL AND COLUMNS FINISH</b>   |  |      |        |  |  |
| A   | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 354    |  |  |

|                                 |  |      |        |  |  |
|---------------------------------|--|------|--------|--|--|
| B                               | Prepare and apply three coats of "weather guard emulsion paint as 'Sadollin' or other equal and approved to plastered surfaces external sides of masonry walls.<br><b>INTERNAL WALL FINISH</b>   | SQM  | 354    |  |  |
| C                               | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 763.2  |  |  |
| D                               | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 763.2  |  |  |
| E                               | Plinth construction (100mm high)   | SQM  | 384    |  |  |
| F                               | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black boards)  | item | 12     |  |  |
| <b>SUB-TOTAL: WALL FINISHES</b> |  |      |        |  |  |
| <b>6</b>                        | <b>FLOOR FINISHING</b><br><b>FLOOR SCREEDING</b>   |      |        |  |  |
| A                               | 50mm Thick Floor well levelled and smooth screed   | SQM  | 572.00 |  |  |
| <b>7</b>                        | <b>FLOOR AND WALL TILLING</b>  |      |        |  |  |
|                                 | <i>Wall tiling with 300 mm x 200 mm tiles up to 1.50 m height in Toilets walls</i>   | SQM  | 50.40  |  |  |
|                                 | <i>Wall tiling with 300 mm x 300 mm tiles in Toilets Floors and in the corridor</i>  | SQM  | 40.00  |  |  |
| <b>S/TOTAL</b>                  |  |      |        |  |  |
| <b>8</b>                        | <b>CEILING FINISHES</b>  |      |        |  |  |
|                                 | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs  | SM   | 624    |  |  |
|                                 | Prepare and apply three coats first grade emulsion paint to soffits of slab  | SM   | 624    |  |  |
| <b>S/TOTAL</b>                  |  |      |        |  |  |
| <b>9</b>                        | <b>BALLUSTRADES &amp; RAILS</b><br><b><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i></b> |      |        |  |  |
| A                               | Staircase  | Lm   | 50.00  |  |  |
| B                               | Balcony And ramp   | Lm   | 200.00 |  |  |
| <b>S/TOTAL BALUSTRADE</b>       |  |      |        |  |  |
| <b>10</b>                       | <b>WINDOWS</b>   |      |        |  |  |
|                                 | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms               |      |        |  |  |

|   |   |      |        |  |  |
|---|---|------|--------|--|--|
| A   | window 2100mm x 1800 mm   | item | 10     |  |  |
| B   | Window 3000*1800 mm   | item | 12     |  |  |
| C   | window 900 mm x 600 mm on staff toilets   | item | 3      |  |  |
| <b>S/TOTAL</b>  |   |      |        |  |  |
| <b>11</b>   | <b>DOORS</b>  |      |        |  |  |
|   | Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 2500mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> | Nr.  | 11     |  |  |
|   | 2150 mm x 800 mm  | Nr.  | 4      |  |  |
|   | 2150 mm x 800 mm  | Nr.  | 1      |  |  |
| <b>PLUMBING AND DRAINAGE WORKS</b>  |   |      |        |  |  |
| <b>Provision for plumbing and drainage installation and external water reticulation installation.</b> |   |      |        |  |  |
|   | Piping works to include water supply to the building  | item | 1      |  |  |
| <b>Sanitary appliances</b>  |   |      |        |  |  |
|   | Supply and installation of WC of good quality complete with all accessories and all requirements  | Nr.  | 2      |  |  |
|   | supply and installation of WC For Handicap and all accessories  | Nr.  | 1      |  |  |
|   | Supply and installation of ceramic handwash basin complete with accessories and all requirements.   | Nr.  | 2      |  |  |
| <b>S/TOTAL PLUMBING</b>   |   |      |        |  |  |
| <b>GRAND TOTAL FOR FIRST FLOOR</b>  |   |      |        |  |  |
| <b>SECOND FLOOR CONSTRUCTION</b>  |   |      |        |  |  |
| <b>REINFORCED CONCRETE WORKS</b>  |   |      |        |  |  |
| <b>Vibrated reinforced concrete 1:2:4 mix for:</b>  |   |      |        |  |  |
| A   | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details   |      | 10.98  |  |  |
| B   | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)  |      | 19.95  |  |  |
| <b>4</b>  | <b>WALLING</b>  |      |        |  |  |
| <b>Clay brick masonry walls with cement-sand mortar for:</b>  |   |      |        |  |  |
| A   | External and Internal walls   | CM   | 124.00 |  |  |

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| <b>SUB-TOTAL: CONCRETE &amp;WALLING</b> |  |      |        |  |  |
|---|--|------|--------|--|--|
| <b>5</b>                                | <b>WALL FINISHES</b>   |      |        |  |  |
|   | <b>EXTERNAL WALL AND COLUMNS FINISH</b>  |      |        |  |  |
| A                                       | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 434    |  |  |
| B                                       | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 434    |  |  |
|   | <b>INTERNAL WALL FINISH</b>  |      |        |  |  |
| C                                       | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 843.2  |  |  |
| D                                       | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 843.2  |  |  |
| E                                       | Plinth construction (100mm high)   | SQM  | 384    |  |  |
| F                                       | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)                       | item | 12     |  |  |
| <b>SUB-TOTAL: WALL FINISHES</b>         |  |      |        |  |  |
| <b>6</b>                                | <b>FLOOR FINISHING</b>   |      |        |  |  |
|   | <b>FLOOR SCREEDING</b>   |      |        |  |  |
| A                                       | 50mm Thick Floor well levelled and smooth screed   | SQM  | 572.00 |  |  |
| <b>7</b>                                | <b>FLOOR AND WALL TILLING</b>  |      |        |  |  |
|   | Wall tiling with 300 mm x 200 mm tiles up to 1.50 m height in Toilets walls  | SQM  | 50.40  |  |  |
|   | Wall tiling with 300 mm x 300 mm tiles in Toilets Floors and in the corridor   | SQM  | 40.00  |  |  |
| <b>S/TOTAL</b>                          |  |      |        |  |  |
| <b>8</b>                                | <b>CEILING FINISHES</b>  |      |        |  |  |
|   | <b>1.2*2.4m plywood (Triplex) ceiling with Timber brandering materials fixed on steel truss and pinned in the wall with nails at 600*600mm each way to make the ceiling stable</b>   |      |        |  |  |
|   | ceiling in Plywood (Triplex)   | SM   | 572    |  |  |
| <b>S/TOTAL</b>                          |  |      |        |  |  |
| <b>9</b>                                | <b>BALLUSTRADES &amp; RAILS</b>  |      |        |  |  |
|   | <b>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</b> |      |        |  |  |
| A                                       | Balcony  | Lm   | 200.00 |  |  |

| <b>S/TOTAL BALUSTRADE</b> |   |      |     |  |  |
|---------------------------|---|------|-----|--|--|
| <b>10</b>                 | <b>WINDOWS</b><br>Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms  |      |     |  |  |
| A                         | window 2100mm x 1800 mm   | item | 10  |  |  |
| B                         | Window 3000*1800 mm   | item | 12  |  |  |
| C                         | window 900 mm x 600 mm on staff toilets   | item | 3   |  |  |
| <b>S/TOTAL</b>            |   |      |     |  |  |
| <b>11</b>                 | <b>DOORS</b><br><b>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms</b><br>Simple doors 25000mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> |      |     |  |  |
|                           | 2150 mm x 800 mm  | Nr.  | 4   |  |  |
|                           | 2150 mm x 1000 mm   | Nr.  | 1   |  |  |
|                           | <b>PLUMBING AND DRAINAGE WORKS</b><br><b>Provision for plumbing and drainage installation and external water reticulation installation.</b><br>Piping works to include water supply to the building<br><b>Sanitary appliances</b><br>Supply and installation of WC of good quality complete with all accessories and all requirements<br>supply and installation of WC For Handicap and all accessories<br>Supply and installation of ceramic wash hands basin complete with accessories and all requirements.                    |      |     |  |  |
|                           |   | item | 1   |  |  |
|                           |   | Nr.  | 2   |  |  |
|                           |   | Nr.  | 1   |  |  |
|                           |   | Nr.  | 2   |  |  |
| <b>S/TOTAL PLUMBING</b>   |   |      |     |  |  |
| <b>ROOF WORKS</b>         |   |      |     |  |  |
|                           | <b>Roof truss made with 80*40*3mm Rafters and Horizontal beams ,60*40*3mm (inclined members) struts and purlins including all necessary welds, red oxide paint and all requirements</b>   |      |     |  |  |
| <b>A</b>                  | Supply and fix 80*40*3mm Rafters and horizontal beams   | Lm   | 800 |  |  |

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|                                       |  |     |       |  |  |
|---------------------------------------|--|-----|-------|--|--|
| <b>B</b>                              | Supply and fix 60*40*3mm Truss members (struts)  | Lm  | 800   |  |  |
| <b>C</b>                              | Supply and fix 60*40*3mm Roof purlins and ridge beams  | Lm  | 744   |  |  |
| <b>D</b>                              | 28-gauge Iron heist including roofing screws, washers, Ridge covers, roof drain and caps at centres  | SQM | 868   |  |  |
| <b>ROOF WORKS FOR RAMPS</b>           |  |     |       |  |  |
|                                       | Supply and fix 60*40*3mm Truss members rafters and horizontal members to Ramp roof   | Lm  | 250   |  |  |
|                                       | Supply and fix 40*40*2mm Roof purlins  | Lm  | 115   |  |  |
|                                       | 28-gauge Iron heist including roofing screws, washers, roof drain  | Lm  | 125   |  |  |
|                                       | supply and fix 200*200mm rainwater gutter  | Lm  | 104   |  |  |
| <b>RAINWATER Drainage on the roof</b> |  |     |       |  |  |
| <b>ROOF WORKS FOR RAMP</b>            |  |     |       |  |  |
|                                       | supply and fix 200*200mm rainwater gutter  | Lm  | 150   |  |  |
|                                       | Supply and fix fascia boards   | Lm  | 30    |  |  |
|                                       | supply and fix 110mm Dia PVC water pipe the cost includes all fitting and accessories  | Lm  | 120   |  |  |
|                                       | Supply and fix 10000L Pvc water tanks to Receive rainwater from the roof. The cost includes the support of the tank to the ground and provision of water tap at the tanks with the overflow pipe | PC  | 4     |  |  |
| <b>S/TOTAL ROOF WORK</b>              |  |     |       |  |  |
| <b>GRAND TOTAL SECOND FLOOR</b>       |  |     |       |  |  |
| <b>EXTERNAL WORKS</b>                 |  |     |       |  |  |
|                                       | Construction of stones masonry retaining wall at back side of the classroom block <b>A</b> (the retaining wall to be 3m between the new classroom brock and the existing classrooms building)    | CM  | 102.9 |  |  |
|                                       | Pavement with non slip concrete at the entire non constructed area of the school the cost includes soil levelling and compaction, hardcore laying and top screeding                              | SQM | 1900  |  |  |
|                                       | Construction of storm water open channel to collect the surface water in the compound of school and drain it to the down hills of the site (in the public drain)                                 | Lm  | 300   |  |  |

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|--|--|----|-----|--|--|
|  | Supply and fix the steel grilles welded on 50*50mm L-angles on the top of 300mm wide ,400mm deep stone masonry water channel | Lm | 200 |  |  |
|  | <b>S/TOTAL EXTERNAL WORKS</b>  |    |     |  |  |
|  | <b>GRAND TOTAL LOT A</b>   |    |     |  |  |

| <b>BOQ - ELECTRICAL WORKS</b> |  |            |            |                                      |                                       |
|-------------------------------|--|------------|------------|--------------------------------------|---------------------------------------|
| <b>Item</b>                   | <b>Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Unit Cost (RWF) VAT Exclusive</b> | <b>Total Cost (RWF) VAT Exclusive</b> |
|                               | <b>SECTION 1.1 -GROUND FLOOR</b>   |            |            |                                      |                                       |
|                               | <b><u>LIGHTING INSTALLATION</u></b>  |            |            |                                      |                                       |
|                               | a) 1 gang 1-way switch   | No         | 1          |                                      |                                       |
|                               | b) 1-gang 2-way switch   | No         | 24         |                                      |                                       |
|                               | g) 1 gang 2-way Intermediate Switch  | No         | 1          |                                      |                                       |
| 1                             | LUMINAIRE TYPE A   |            |            |                                      |                                       |
|                               | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen  | No         | 64         |                                      |                                       |
| 2                             | LUMINAIRE TYPE B   |            |            |                                      |                                       |
|                               | Pole SWH Eco LED street luminaire 150W 18750LM including poles   | No         | 2          |                                      |                                       |
| 3                             | LUMINAIRE TYPE C   |            |            |                                      |                                       |
|                               | 450W Equivalent Integrated Outdoor LED 6800 Lumens   | No         | 2          |                                      |                                       |
| 3                             | LUMINAIRE TYPE D   |            |            |                                      |                                       |
|                               | Wall mounted mirror light  | No         | 4          |                                      |                                       |
| 4                             | LUMINAIRE TYPE E   |            |            |                                      |                                       |
|                               | Wall mounted stairway light with backup battery 18W  | No         | 1          |                                      |                                       |
| 5                             | Socket Outlet  | No         | 64         |                                      |                                       |
|                               | <b><u>POWER RETICULATION</u></b>   |            |            |                                      |                                       |
| 5                             | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics  | Set        | 1          |                                      |                                       |
| 6                             | Consumer unit complete with all Hager accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to Hager or Legrand, or any equivalence as approved | No         | 1          |                                      |                                       |

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|                                     |   |                            |            |  |  |
|-------------------------------------|---|----------------------------|------------|--|--|
| 7                                   | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27         |  |  |
| 8                                   | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35         |  |  |
| 9                                   | Misc.Item, 4cx35sqmm supply cable to be measured, ...OTHERS   | roll                       | 1          |  |  |
| <b><u>CABLE MANAGEMENT</u></b>      |   |                            |            |  |  |
| 9                                   | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125        |  |  |
| 10                                  | Lightning Arrestor, ingesco@PDC 5.3<br>Lighinig Rod.30M Radius Coverage.and metal strip cupper.   | No                         | 1          |  |  |
| 11                                  | Earthing and Bondings   | No                         | 1          |  |  |
| 1                                   | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                         | 3          |  |  |
| 2                                   | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3          |  |  |
| 3                                   | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11         |  |  |
| 4                                   | BOSCH heat detector, F220 series detectors  | No                         | 1          |  |  |
| 5                                   | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc bosch   | No                         | 1          |  |  |
| 6                                   | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                         | 2          |  |  |
| 7                                   | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                         | 144        |  |  |
| <b><u>Fire FIGHTING SYSTEM</u></b>  |   |                            |            |  |  |
| 5                                   | C02 Fire extinguisher 12KG  | No                         | 6          |  |  |
| 6                                   | Foam fire extinguisher 12KG   | No                         | 6          |  |  |
| GRAND TOTAL 1                       |   |                            |            |  |  |
| <b>FIRST FLOOR</b>                  |   |                            |            |  |  |
| <b>Item</b>                         | <b>Description</b>  | <b>Unit</b>                | <b>Qty</b> |  |  |
| <b>SECTION 1.2 -FIRST FLOOR</b>     |   |                            |            |  |  |
| <b><u>LIGHTING INSTALLATION</u></b> |   |                            |            |  |  |

|   |   |   |    |  |  |
|---|---|---|----|--|--|
|   | a) 1 gang 1-way switch  | No                                      | 1  |  |  |
|   | b) 1-gang 2-way switch  | No                                      | 24 |  |  |
|   | c) 2 gang 2-way switch  | No                                      | 0  |  |  |
|   | d) 3 gang 2-way switch  | No                                      | 0  |  |  |
|   | e) 4 gang 2-way switch  | No                                      | 0  |  |  |
|   | f) 10-gang 2-way grid switch  | No                                      | 0  |  |  |
|   | g) 1 gang 2-way Intermediate Switch   | No                                      | 1  |  |  |
|   |   |   |    |  |  |
| 1 | LUMINAIRE TYPE A  |   |    |  |  |
|   | Phillips Fluorescent Lighting 36W T8 1200mm,6500k<br>3250Lumen  | No                                      | 64 |  |  |
|   |   |   |    |  |  |
| 2 | LUMINAIRE TYPE B  |   |    |  |  |
|   | Pole SWH Eco LED street luminaire 150W 18750LM<br>including poles   | No                                      | 0  |  |  |
|   |   |   |    |  |  |
| 3 | LUMINAIRE TYPE C  |   |    |  |  |
|   | 450W Equivalent Integrated<br>Outdoor LED 6800 Lumens   | No                                      | 0  |  |  |
| 3 | LUMINAIRE TYPE D  |   |    |  |  |
|   | Wall mounted mirror light   | No                                      | 4  |  |  |
|   |   |   |    |  |  |
| 4 | LUMINAIRE TYPE E  |   |    |  |  |
|   | Wall mounted stairway light<br>with backup battery 18W  | No                                      | 1  |  |  |
|   |   |   |    |  |  |
| 5 | Socket Outlet   | No                                      | 64 |  |  |
|   | <b><u>POWER RETICULATION</u></b>  |   |    |  |  |
| 5 | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with<br>accessories as provided in the schematics  | set                                     | 1  |  |  |
| 6 | consumer unit complete with all hager accessories: 16-way<br>consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb<br>equivalent to hager or legrand, or any equivalence as approved  | No                                      | 1  |  |  |
| 7 | Power points connected complete and ready from 32 A sp<br>miniature circuit breakers of distribution board using 2.5 mm sq<br>drawn in 20mm upvc conduits. complete with switch boxes,<br>junction boxes, couplers, bends and any other necessary<br>conducting accessories | roll,<br>line,N<br>eutral<br>,Eart<br>h | 27 |  |  |
| 8 | Wiring from 10A SP miniature circuit breakers on Consumer unit,<br>using 1.5 mm sq drawn in 20mm upvc conduits. complete with<br>switch boxes, junction boxes, couplers, bends and any other<br>necessary conducting accessories  | roll,<br>line,N<br>eutral<br>,Eart<br>h | 35 |  |  |

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|                                     |  |             |            |  |  |
|-------------------------------------|--|-------------|------------|--|--|
| 9                                   | Misc.Item, 4cx35sqm supply cable to be measured, ...OTHERS   | roll        | 1          |  |  |
| <b><u>CABLE MANAGEMENT</u></b>      |  |             |            |  |  |
| 9                                   | Cable basket for minimised current cable currying/OR Flexible PVC Conduit                                      | No          | 125        |  |  |
| 10                                  | Lightning Arrestor, ingesco@PDC 5.3<br>Lighinig Rod.30M Radius Coverage.and metal strip cupper.                | No          | 0          |  |  |
| 11                                  | Earthing and Bondings  | No          | 0          |  |  |
| 1                                   | Manual call points red protection class IP54 dimensions 87x87x56mm   | No          | 3          |  |  |
| 2                                   | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle) | No          | 3          |  |  |
| 3                                   | FAS-420 series Aspirating smoke detectors (Security systems) 200X292   | No          | 11         |  |  |
| 4                                   | BOSCH heat detector, F220 series detectors   | No          | 1          |  |  |
| 5                                   | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc bosch                        | No          | 1          |  |  |
| 6                                   | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v                                   | No          | 2          |  |  |
| 7                                   | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE                                   | No          | 144        |  |  |
| <b><u>Fire FIGHTING SYSTEM</u></b>  |  |             |            |  |  |
| 5                                   | C02 Fire extinguisher 12KG   | No          | 6          |  |  |
| 6                                   | Foam fire extinguisher 12KG  | No          | 6          |  |  |
| GRAND TOTAL 2                       |  |             |            |  |  |
| <b>SECOND FLOOR</b>                 |  |             |            |  |  |
| <b>Item</b>                         | <b>Description</b>   | <b>Unit</b> | <b>Qty</b> |  |  |
| -                                   |  |             |            |  |  |
| <b>SECTION 1.3 -FIRST FLOOR</b>     |  |             |            |  |  |
| <b><u>LIGHTING INSTALLATION</u></b> |  |             |            |  |  |
| a)                                  | 1 gang 1-way switch  | No          | 1          |  |  |
| b)                                  | 1-gang 2-way switch  | No          | 24         |  |  |
| c)                                  | 2 gang 2-way switch  | No          | 0          |  |  |
| d)                                  | 3 gang 2-way switch  | No          | 0          |  |  |
| e)                                  | 4 gang 2-way switch  | No          | 0          |  |  |
| f)                                  | 10-gang 2-way grid switch  | No          | 0          |  |  |
| g)                                  | 1 gang 2-way Intermediate Switch   | No          | 1          |  |  |

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|    |   |                            |     |  |  |
|----|---|----------------------------|-----|--|--|
| 1  | LUMINAIRE TYPE A  |                            |     |  |  |
|    | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen   | No                         | 64  |  |  |
| 2  | LUMINAIRE TYPE B  |                            |     |  |  |
|    | Pole SWH Eco LED street luminaire 150W 18750LM including poles  | No                         | 0   |  |  |
| 3  | LUMINAIRE TYPE C  |                            |     |  |  |
|    | 450W Equivalent Integrated Outdoor LED 6800 Lumens  | No                         | 0   |  |  |
| 3  | LUMINAIRE TYPE D  |                            |     |  |  |
|    | Wall mounted mirror light   | No                         | 4   |  |  |
| 4  | LUMINAIRE TYPE E  |                            |     |  |  |
|    | Wall mounted stairway light with backup battery 18W   | No                         | 1   |  |  |
| 5  | Socket Outlet   | No                         | 64  |  |  |
|    | <b><u>POWER RETICULATION</u></b>  |                            |     |  |  |
| 5  | DB typical Floor 63AMP; 230/400V; 4P; 4W. Complete with accessories as provided in the schematics   | set                        | 1   |  |  |
| 6  | consumer unit complete with all hager accessories: 16-way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hager or legrand, or any equivalence as approved  | No                         | 1   |  |  |
| 7  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27  |  |  |
| 8  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35  |  |  |
| 9  | Misc.Item, 4cx35sqmm supply cable to be measured, ...OTHERS   | roll                       | 1   |  |  |
|    | <b><u>CABLE MANAGEMENT</u></b>  |                            |     |  |  |
| 9  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |  |  |
| 10 | Lightening Arrestor, ingesco@PDC 5.3 Lighting Rod.30M Radius Coverage. And metal strip copper.  | No                         | 0   |  |  |



|                                    |  |    |     |  |  |
|------------------------------------|--|----|-----|--|--|
| 11                                 | Earthing and Bondings  | No | 0   |  |  |
| 1                                  | Manual call points red protection class IP54 dimensions 87x87x56mm   | No | 3   |  |  |
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle) | No | 3   |  |  |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292   | No | 11  |  |  |
| 4                                  | BOSCH heat detector, F220 series detectors   | No | 1   |  |  |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc bosch                        | No | 1   |  |  |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v                                   | No | 2   |  |  |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE                                   | No | 144 |  |  |
| <b><u>Fire FIGHTING SYSTEM</u></b> |  |    |     |  |  |
| 5                                  | C02 Fire extinguisher 12KG   | No | 6   |  |  |
| 6                                  | Foam fire extinguisher 12KG  | No | 6   |  |  |
| <b>GRAND TOTAL</b>                 |  |    |     |  |  |
| <b>TOTAL FOR ELECTRICAL (RWF)</b>  |  |    |     |  |  |

| <b>LOT A: SUMMARY OF THE BILLS OF QUANTITIES &amp; PROJECT COST ESTIMATION</b>      |                                |                                   |
|---|--------------------------------|-----------------------------------|
| <b>N</b>  | <b>ITEM</b>                    | <b>AMOUNT (Rwf) VAT Exclusive</b> |
| <b>LOT A: 12 CLASSROOM, OFFICES, TOILET LABORATORY, COMPUTER ROOM &amp; LIBRARY</b> |                                |                                   |
| 1   | DEMOLITION & REMOVAL OF DEBRIS |                                   |
| 2   | GROUND FLOOR                   |                                   |
| 3   | FIRST FLOOR                    |                                   |
| 4   | SECOND FLOOR                   |                                   |
| 5   | EXTERNAL WORKS                 |                                   |
| 6   | ELECTRICAL WORK                |                                   |
| <b>TOTAL FOR LOT A (Block A) in RWF</b>   |                                |                                   |

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**LOT B (Block B): CONSTRUCTION OF G+2 BLOCK COMPOSED OF 12 CLASSROOMS; ELECTRICAL INSTALLATIONS AND EXTERNAL WORKS**

**LOCATION: KIZIBA CAMP, KARONGI DISTRICT**

| <b>CONSTRUCTION OF CLASSROOMS BLOCK with 12 CLASSROOMS</b> |   |            |                 |                                      |                                       |
|--|---|------------|-----------------|--------------------------------------|---------------------------------------|
|  | <b>ITEMS DESCRIPTIONS</b>   | <b>UoM</b> | <b>Quantity</b> | <b>Unit Cost (RWF) VAT Exclusive</b> | <b>Total Cost (RWF) VAT Exclusive</b> |
| <b>I</b>   | <b>PRELIMINARY WORKS</b>  |            |                 |                                      |                                       |
|  | Site installation includes construction of temporary site office, toilets, changing areas, material stores and fencing site area with corrugated iron sheets (site holdings) With electrical and water connection         | LS         | 1               |                                      |                                       |
|  | <b>S/TOTAL</b>  |            |                 |                                      |                                       |
| <b>II</b>  | <b>SITE PREPARATION</b>   |            |                 |                                      |                                       |
|  | <b>DEMOLITION OF EXISTING STRUCTURES</b>  |            |                 |                                      |                                       |
| 1  | Removal of the existing roof in corrugated iron sheets and timber truss and deposit the materials at the client provided location   | SQM        | 540             |                                      |                                       |
| 2  | removal of the class buildings doors and windows in timber and deposit the material at shown proper location  | SQM        | 45              |                                      |                                       |
| 3  | Demolition of the existing old building wall and displacement of debris to the dumping site ( <b>the price includes demolition, transport of debris, allocation of dumping site near the camp and deposit of debris</b> ) | SQM        | 880             |                                      |                                       |
| 4  | Demolition of an old pavement up to the thickness of 250mm and removal of debris in an allocated dumping site   | SQM        | 560             |                                      |                                       |
|  | <b>S/TOTAL 1</b>  |            |                 |                                      |                                       |
| <b>III</b>   | <b>CONSTRUCTION CLASSROOM BLOCK B</b>   |            |                 |                                      |                                       |
|  | <b>GROUND FLOOR CONSTRUCTION</b>  |            |                 |                                      |                                       |
| 1  | <b><u>EARTHWORKS</u></b>  |            |                 |                                      |                                       |
| A  | Excavation works and site levelling prior to setting out and foundation works to include displacement of excavated soil from construction site to the dumping area (topsoil removal not exceeding 150mm thick             | CM         | 462.00          |                                      |                                       |
| B  | Excavation work for columns bases (footings)  | CM         | 672.00          |                                      |                                       |
| C  | Excavation work for stone foundation trenches (600mm wide to 800 mm depth   | CM         | 91.68           |                                      |                                       |
| D  | Removal of the excavated material to the dumping site (the cost includes loading and transport to the hired dumping site by the contractor)   | CM         | 763.68          |                                      |                                       |
| 2  | <b><u>SUB-STRUCTURE WORKS</u></b>   |            |                 |                                      |                                       |

|          |  |           |        |  |  |
|----------|--|-----------|--------|--|--|
| A        | Apply anti-termite chemicals to foundation bottoms and sides of footings and stones foundation trenches  | SM        | 462.00 |  |  |
| B        | 50 mm thick blinding concrete under the column base in Plain concrete 1:4:8 mix (class C15 plain concrete)   | CM        | 11.20  |  |  |
| C        | Vibrated reinforced concrete 1:2:4 mix for column bases (Footings Reinforced with single layer of T16@150mm ).   | CM        | 72.58  |  |  |
| D        | Vibrated reinforced concrete 1:2:4 mix for sub columns   | CM        | 5.38   |  |  |
| E        | Construction of 400mm wide ,600mm deep stones masonry foundation to receives ground ring beams and brick walls   | CM        | 61.12  |  |  |
| F        | 50 mm thick concrete coping on top of stone masonry to receive the ground beam   | lm        | 191.00 |  |  |
| G        | 200*200mm vibrated reinforced concrete 1:2:4 mix ground beam reinforced with 4T12 main bars and T8 links spaced at 200mm                                     | CM        | 7.64   |  |  |
| H.       | Back filling and compaction of the footing and around the stone masonry foundation with the imported and approved Filling materials (lateritic soil, marram) | <b>CM</b> | 478.56 |  |  |
| I        | Filling and compaction the entire ground floor surface with imported marram (200mm thick)  | CM        | 92.40  |  |  |
| J        | Hardcore filling for the entire Ground floor 200mm thick   | SQM       | 462.00 |  |  |
| K        | BRC Mesh A142 at the entire ground floor   | SQM       | 462.00 |  |  |
| L        | pavement with smooth concrete 100mm thick  | SQM       | 462.00 |  |  |
| <b>3</b> | <b>SUPERSTRUCTURE</b><br><b>REINFORCED CONCRETE WORKS</b><br><b>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</b>                                  |           |        |  |  |
| A        | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  | CM        | 12.60  |  |  |
| B        | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)                             | CM        | 17.63  |  |  |
| C        | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)  | CM        | 66.00  |  |  |
| D        | Stairs   | CM        | 14.83  |  |  |
| E        | Handicap ramps reinforced as per slab reinforcements   | CM        | 21.70  |  |  |
| <b>4</b> | <b>WALLING</b>   |           |        |  |  |
|          | <b>Clay brick masonry walls with cement-sand mortar for:</b>   |           |        |  |  |

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|                |  |      |        |  |  |
|----------------|--|------|--------|--|--|
| A              | External and Internal walls  | CM   | 95.78  |  |  |
| <b>5</b>       | <b>WALL FINISHES</b><br><b>EXTERNAL WALL AND COLUMNS FINISH</b>  |      |        |  |  |
| A              | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 258.4  |  |  |
| B              | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 258.4  |  |  |
|                | <b>INTERNAL WALL FINISH</b>  |      |        |  |  |
| C              | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 779.2  |  |  |
| D              | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 779.2  |  |  |
| E              | Plinth construction (100mm high)   | LM   | 370    |  |  |
| F              | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)                       | item | 4      |  |  |
| <b>6</b>       | <b>FLOOR FINISHING</b><br><b>FLOOR SCREEDING</b>   |      |        |  |  |
| A              | 50mm Thick Floor well levelled and smooth screed   | SQM  | 462.00 |  |  |
| B              | Supply all materials and construct external apron pavement (600mm wide around the building including drainage works (open water channel)   | SQM  | 62.40  |  |  |
| <b>S/TOTAL</b> |  |      |        |  |  |
| <b>8</b>       | <b>CEILING FINISHES</b>  |      |        |  |  |
|                | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs  | SM   | 462    |  |  |
|                | Prepare and apply three coats first grade emulsion paint to soffits of slab  | SM   | 462    |  |  |
| <b>S/TOTAL</b> |  |      |        |  |  |
| <b>9</b>       | <b>BALLUSTRADES &amp; RAILS</b>  |      |        |  |  |
|                | <b>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</b> |      |        |  |  |
| A              | Staircase  | Lm   | 50.00  |  |  |
| B              | Balcony And ramp   | Lm   | 200.00 |  |  |

| <b>S/TOTAL BALUSTRADE</b>                                      |  |      |       |  |  |
|--|--|------|-------|--|--|
| <b>10</b>  | <b>WINDOWS</b>   |      |       |  |  |
|  | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms   |      |       |  |  |
| A  | window 2100mm x 1800 mm  | item | 8     |  |  |
| B  | Window 3000*1800 mm  | item | 8     |  |  |
| C  | window 900 mm x 600 mm on staff toilets  | item | -     |  |  |
| <b>S/TOTAL</b>   |  |      |       |  |  |
| <b>11</b>  | <b>DOORS</b>   |      |       |  |  |
|  | Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 25000mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> | Nr.  | 8     |  |  |
| <b>TOTAL FOR GROUND FLOOR</b>                                  |  |      |       |  |  |
| <b>FIRST FLOOR CONSTRUCTION</b>                                |  |      |       |  |  |
| <b>REINFORCED CONCRETE WORKS</b>                               |  |      |       |  |  |
| <b>Vibrated reinforced concrete (Class C25) 1:2:4 mix for:</b> |  |      |       |  |  |
| A  | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  |      | 12.60 |  |  |
| B  | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)   |      | 17.63 |  |  |
| C  | Slab reinforced in T10@150 Both bottom and top (double layer of reinforcements)  |      | 66.00 |  |  |
| D  | Stairs   |      | 14.83 |  |  |
| E  | Handicap ramp reinforced concrete  |      | 21.70 |  |  |
| <b>4</b>   | <b>WALLING</b>   |      |       |  |  |
| <b>Clay brick masonry walls with cement-sand mortar for:</b>   |  |      |       |  |  |
| A  | External and Internal walls  | CM   | 95.78 |  |  |
| <b>SUB-TOTAL: CONCRETE &amp; WALLING</b>                       |  |      |       |  |  |
| <b>5</b>   | <b>WALL FINISHES</b>   |      |       |  |  |

|                                 |   |      |        |  |  |
|---------------------------------|---|------|--------|--|--|
|                                 | <b>EXTERNAL WALL AND COLUMNS FINISH</b>   |      |        |  |  |
| A                               | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls  | SQM  | 258.4  |  |  |
| B                               | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.  | SQM  | 258.4  |  |  |
|                                 | <b>INTERNAL WALL FINISH</b>   |      |        |  |  |
| C                               | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls  | SQM  | 779.2  |  |  |
| D                               | Prepare and apply three coats first grade silk emulsion paint on plastered walls  | SQM  | 779.2  |  |  |
| E                               | Plinth construction (100mm high)  | Lm   | 370    |  |  |
| F                               | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black bords)  | item | 4      |  |  |
| <b>SUB-TOTAL: WALL FINISHES</b> |   |      |        |  |  |
| <b>6</b>                        | <b>FLOOR FINISHING</b><br><b>FLOOR SCREEDING</b>  |      |        |  |  |
| A                               | 50mm Thick Floor well levelled and smooth screed  | SQM  | 462.00 |  |  |
| <b>S/TOTAL</b>                  |   |      |        |  |  |
| <b>8</b>                        | <b>CEILING FINISHES</b>   |      |        |  |  |
|                                 | 10mm, thick cement-sand lime (1:2:9) gauged plaster to soffits of slabs   | SM   | 462    |  |  |
|                                 | Prepare and apply three coats first grade emulsion paint to soffits of slab   | SM   | 462    |  |  |
| <b>S/TOTAL</b>                  |   |      |        |  |  |
| <b>9</b>                        | <b>BALLUSTRADES &amp; RAILS</b><br><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i> |      |        |  |  |
| A                               | Staircase   | Lm   | 50.00  |  |  |
| B                               | Balcony And ramp  | Lm   | 200.00 |  |  |
| <b>S/TOTAL BALUSTRADE</b>       |   |      |        |  |  |
| <b>10</b>                       | <b>WINDOWS</b>  |      |        |  |  |
|                                 | Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms        |      |        |  |  |
| A                               | window 2100mm x 1800 mm   | item | 8      |  |  |

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|--|--|------|-------|--|--|
| B  | Window 3000*1800 mm  | item | 8     |  |  |
| <b>S/TOTAL</b>   |  |      |       |  |  |
| <b>11</b>  | <b>DOORS</b>   |      |       |  |  |
|  | Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 25000mm x 1000mm, simple Door<br><b>Supply and fixation of 50 mm solid core flush doors with metallic frames faced both sides with 6mm quality plywood to include, locking devices and accessories, varnishing, and all requirements</b> | Nr.  | 8     |  |  |
| <b>GRAND TOTAL FOR FIRST FLOOR</b>                           |  |      |       |  |  |
| <b>SECOND FLOOR CONSTRUCTION</b>                             |  |      |       |  |  |
| <b>REINFORCED CONCRETE WORKS</b>                             |  |      |       |  |  |
| <b>Vibrated reinforced concrete 1:2:4 mix for:</b>           |  |      |       |  |  |
| A  | Columns (Reinforced in 6T16 main bars and T8@150mm C/c) as per structure design details  |      | 12.60 |  |  |
| B  | Floor beams (550*250 mm main beams reinforced in 8T16 main bars and 2T12 in the neutral axis, with T8 rinks at 150mm of spacing)   |      | 17.63 |  |  |
| <b>4</b>   | <b>WALLING</b>   |      |       |  |  |
| <b>Clay brick masonry walls with cement-sand mortar for:</b> |  |      |       |  |  |
| A  | External and Internal walls  | CM   | 95.78 |  |  |
| <b>SUB-TOTAL: CONCRETE &amp; WALLING</b>                     |  |      |       |  |  |
| <b>5</b>   | <b>WALL FINISHES</b>   |      |       |  |  |
| <b>EXTERNAL WALL AND COLUMNS FINISH</b>                      |  |      |       |  |  |
| A  | 12mm 1:4 cement-sand render applied with wood float trowel finish to masonry walls   | SQM  | 258.4 |  |  |
| B  | Prepare and apply three coats of "weather guard emulsion paint as 'Sadolin' or other equal and approved to plastered surfaces external sides of masonry walls.   | SQM  | 258.4 |  |  |
| <b>INTERNAL WALL FINISHES</b>                                |  |      |       |  |  |
| C  | 15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 cement-lime-sand second coat plaster with a steel trowel finish to walls   | SQM  | 779.2 |  |  |
| D  | Prepare and apply three coats first grade silk emulsion paint on plastered walls   | SQM  | 779.2 |  |  |
| E  | Plinth construction (100mm high)   | SQM  | 370   |  |  |

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|                                 |  |      |        |  |  |
|---------------------------------|--|------|--------|--|--|
| F                               | Provide lumpsum cost for construction of complete black boards and wardrobes/storage units per classrooms with all complete accessories (consider every classroom to have 2 wardrobes and two black boards)  | item | 4      |  |  |
| <b>SUB-TOTAL: WALL FINISHES</b> |  |      |        |  |  |
| 6                               | <b>FLOOR FINISHING</b><br><b>FLOOR SCREEDING</b>   |      |        |  |  |
| A                               | 50mm Thick Floor well levelled and smooth screed   | SQM  | 462.00 |  |  |
| <b>S/TOTAL</b>                  |  |      |        |  |  |
| 8                               | <b>CEILING FINISHES</b><br><br>1.2*2.4m plywood (Triplex) ceiling with Timber brandering materials fixed on steel truss and pinned in the wall with nails at 600*600mm each way to make the ceiling stable   |      |        |  |  |
|                                 | ceiling in Plywood (Triplex)   | SM   | 462    |  |  |
| <b>S/TOTAL</b>                  |  |      |        |  |  |
| 9                               | <b>BALLUSTRADES &amp; RAILS</b><br><i>Supply and fixation of metallic balustrades &amp; rails in 40mm dia round tube at 1000mm height and the cost include painting with application of coat of rust proof paint and high gloss paint and all requirements for:</i>  |      |        |  |  |
| A                               | Balcony  | Lm   | 200.00 |  |  |
| <b>S/TOTAL BALUSTRADE</b>       |  |      |        |  |  |
| 10                              | <b>WINDOWS</b><br>Supply and fix to concrete or blockwork: metallic windows and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms                                     |      |        |  |  |
| A                               | window 2100mm x 1800 mm  | item | 8      |  |  |
| B                               | Window 3000*1800 mm  | item | 8      |  |  |
| <b>S/TOTAL</b>                  |  |      |        |  |  |
| 11                              | <b>DOORS</b><br><br>Supply and fix to concrete or blockwork: Doors and frames: plugged and screwed: including all necessary accessories: pointing in mastic all round: with and including 6 mm Thick tinted toughened glass:150 x 50 mm frames, mullions and transoms<br>Simple doors 2500mm x 1000mm, simple Door |      |        |  |  |
|                                 |  | Nr.  | 8      |  |  |

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| <b>ROOF WORKS</b>                     |  |     |     |  |  |
|---------------------------------------|--|-----|-----|--|--|
|                                       | <b>Roof truss made with 80*40*3mm Rafters and Horizontal beams ,60*40*3mm (inclined members) struts and purlins including all necessary welds, red oxide paint and all requirements</b>          |     |     |  |  |
| <b>A</b>                              | Supply and fix 80*40*3mm Rafters and horizontal beams  | Lm  | 600 |  |  |
| <b>B</b>                              | Supply and fix 60*40*3mm Truss members (struts)  | Lm  | 600 |  |  |
| <b>C</b>                              | Supply and fix 60*40*3mm Roof purlins and ridge beams  | Lm  | 528 |  |  |
| <b>D</b>                              | 28-gauge Iron sheets including roofing screws, washers, Ridge covers, roof drain and caps at centres   | SQM | 735 |  |  |
| <b>RAINWATER Drainage on the roof</b> |  |     |     |  |  |
|                                       | supply and fix 200*200mm rainwater gutter  | Lm  | 104 |  |  |
|                                       | Supply and fix fascia boards   | Lm  | 30  |  |  |
|                                       | supply and fix 110mm Dia PVC water pipe the cost includes all fitting and accessories  | Lm  | 120 |  |  |
|                                       | Supply and fix 10000L Pvc water tanks to Receive rainwater from the roof. The cost includes the support of the tank to the ground and provision of water tap at the tanks with the overflow pipe | PC  | 4   |  |  |
| <b>ROOF WORKS FOR RAMPS</b>           |  |     |     |  |  |
|                                       | Supply and fix 60*40*3mm Truss members rafters and horizontal members to Ramp roof   | Lm  | 250 |  |  |
|                                       | Supply and fix 40*40*2mm Roof purlins  | Lm  | 115 |  |  |
|                                       | 28-gauge Iron sheets including roofing screws, washers, roof drain   | Lm  | 125 |  |  |
|                                       | supply and fix 200*200mm rainwater gutter  | Lm  | 104 |  |  |
| <b>S/TOTAL ROOF WORK</b>              |  |     |     |  |  |
| <b>GRAND TOTAL SECOND FLOOR</b>       |  |     |     |  |  |
| <b>EXTERNAL WORKS</b>                 |  |     |     |  |  |
|                                       | Construction of stones masonry retaining wall at back side of the classroom block <b>B</b> (the retaining wall to be 3m between the new classroom brock and the existing classrooms building)    | CM  | 105 |  |  |
|                                       | Construction of stones masonry retaining walls 1.5m height To create access ramps to the existing schools blocks.  | CM  | 75  |  |  |
|                                       | Construction of storm water open channel to collect the surface water in the compound of school and drain it to the down hills of the site (in the public drain)                                 | Lm  | 200 |  |  |

|  |  |    |     |  |  |
|--|--|----|-----|--|--|
|  | Supply and fix the steel grilles welded on 50*50mm L-angles on the top of 300mm wide ,400mm deep stone masonry water channel | Lm | 200 |  |  |
|  | <b>S/TOTAL EXTERNAL WORKS</b>  |    |     |  |  |
|  | <b>GRAND TOTAL LOT B</b>   |    |     |  |  |

| <b>ELECTRICAL WORKS</b> |  |             |            |                                      |                                       |
|-------------------------|--|-------------|------------|--------------------------------------|---------------------------------------|
| <b>Item</b>             | <b>Description</b>   | <b>Unit</b> | <b>Qty</b> | <b>Unit Cost (RWF) VAT Exclusive</b> | <b>Total Cost (RWF) VAT Exclusive</b> |
|                         | <b>SECTION 1.1 -GROUND FLOOR</b>   |             |            |                                      |                                       |
|                         | <b><u>LIGHTING INSTALLATION</u></b>  |             |            |                                      |                                       |
|                         | a) 1 gang 1-way switch   | No          | 1          |                                      |                                       |
|                         | b) 1-gang 2-way switch   | No          | 24         |                                      |                                       |
|                         | c) 2 gang 2-way switch   | No          | 0          |                                      |                                       |
|                         | d) 3 gang 2-way switch   | No          | 0          |                                      |                                       |
|                         | e) 4 gang 2-way switch   | No          | 0          |                                      |                                       |
|                         | f) 10-gang 2-way grid switch   | No          | 0          |                                      |                                       |
|                         | g) 1 gang 2-way Intermediate Switch  | No          | 1          |                                      |                                       |
|                         |  |             |            |                                      |                                       |
| 1                       | LUMINAIRE TYPE A   |             |            |                                      |                                       |
|                         | Phillips Fluorescent Lighting 36W T8 1200mm,6500k 3250Lumen  | No          | 64         |                                      |                                       |
|                         |  |             |            |                                      |                                       |
| 2                       | LUMINAIRE TYPE B   |             |            |                                      |                                       |
|                         | Pole SWH Eco LED street luminaire 150W 18750LM including poles                                     | No          | 2          |                                      |                                       |
|                         |  |             |            |                                      |                                       |
| 3                       | LUMINAIRE TYPE C   |             |            |                                      |                                       |
|                         | 450W Equivalent Integrated Outdoor LED 6800 Lumens   | No          | 2          |                                      |                                       |
| 3                       | LUMINAIRE TYPE D   |             |            |                                      |                                       |
|                         | Wall mounted mirror light  | No          | 4          |                                      |                                       |
|                         |  |             |            |                                      |                                       |
| 4                       | LUMINAIRE TYPE E   |             |            |                                      |                                       |
|                         | Wall mounted stairway light with backup battery 18W  | No          | 1          |                                      |                                       |
|                         |  |             |            |                                      |                                       |
| 5                       | Socket Outlet  | No          | 64         |                                      |                                       |
|                         | <b><u>POWER RETICULATION</u></b>   |             |            |                                      |                                       |
| 5                       | DB typical Floor 63AMP; 230/400V; 4P ; 4W. Complete with accessories as provided in the schematics | set         | 1          |                                      |                                       |

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|                                    |   |                            |     |  |  |
|------------------------------------|---|----------------------------|-----|--|--|
| 6                                  | consumer unit complete with all hager accessories:<br>16 way consumer unit complete with 1- 63A RCD, 4-16A mcb 4-10A mcb equivalent to hager or legrand, or any equivalence as approved   | No                         | 1   |  |  |
| 7                                  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27  |  |  |
| 8                                  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35  |  |  |
| 9                                  | Misc. Item, 4x35sqmm supply cable to be measured, ...OTHERS   | roll                       | 1   |  |  |
| <b><u>CABLE MANAGEMENT</u></b>     |   |                            |     |  |  |
| 9                                  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |  |  |
| 10                                 | Lightening Arrestor, ingesco@PDC 5.3<br>Lightening Rod.30M Radius Coverage. And metal strip copper.   | No                         | 1   |  |  |
| 11                                 | Earthing and Bondings   | No                         | 1   |  |  |
| 1                                  | Manual call points red protection class IP54 dimensions<br>87x87x56mm   | No                         | 3   |  |  |
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3   |  |  |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11  |  |  |
| 4                                  | BOSCH heat detector, F220 series detectors  | No                         | 1   |  |  |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch   | No                         | 1   |  |  |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                         | 2   |  |  |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                         | 144 |  |  |
| <b><u>Fire FIGHTING SYSTEM</u></b> |   |                            |     |  |  |
| 5                                  | C02 Fire extinguisher 12KG  | No                         | 6   |  |  |
| 6                                  | Foam fire extinguisher 12KG   | No                         | 6   |  |  |
| <b>GRAND TOTAL 1</b>               |   |                            |     |  |  |

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| <b>FIRST FLOOR</b>                  |   |      |     |  |  |
|-------------------------------------|---|------|-----|--|--|
| Item                                | Description   | Unit | Qty |  |  |
|                                     |   |      |     |  |  |
|                                     | -   |      |     |  |  |
| <b>SECTION 1.2 -FIRST FLOOR</b>     |   |      |     |  |  |
| <b><u>LIGHTING INSTALLATION</u></b> |   |      |     |  |  |
|                                     | a) 1 gang 1-way switch  | No   | 1   |  |  |
|                                     | b) 1-gang 2-way switch  | No   | 24  |  |  |
|                                     | c) 2 gang 2-way switch  | No   | 0   |  |  |
|                                     | d) 3 gang 2-way switch  | No   | 0   |  |  |
|                                     | e) 4 gang 2-way switch  | No   | 0   |  |  |
|                                     | f) 10-gang 2-way grid switch  | No   | 0   |  |  |
|                                     | g) 1 gang 2-way Intermediate Switch   | No   | 1   |  |  |
|                                     |   |      |     |  |  |
| 1                                   | LUMINAIRE TYPE A  |      |     |  |  |
|                                     | Phillips Fluorescent Lighting 36W T8<br>1200mm,6500k 3250Lumen  | No   | 64  |  |  |
|                                     |   |      |     |  |  |
| 2                                   | LUMINAIRE TYPE B  |      |     |  |  |
|                                     | Pole SWH Eco LED street luminaire 150W<br>18750LM including poles   | No   | 0   |  |  |
|                                     |   |      |     |  |  |
| 3                                   | LUMINAIRE TYPE C  |      |     |  |  |
|                                     | 450W Equivalent Integrated<br>Outdoor LED 6800 Lumens   | No   | 0   |  |  |
| 3                                   | LUMINAIRE TYPE D  |      |     |  |  |
|                                     | Wall mounted mirror light   | No   | 4   |  |  |
|                                     |   |      |     |  |  |
| 4                                   | LUMINAIRE TYPE E  |      |     |  |  |
|                                     | Wall mounted stairway light<br>with backup battery 18W  | No   | 1   |  |  |
|                                     |   |      |     |  |  |
| 5                                   | Socket Outlet   | No   | 64  |  |  |
| <b><u>POWER RETICULATION</u></b>    |   |      |     |  |  |
| 5                                   | DB typical Floor 63AMP; 230/400V; 4P; 4W.<br>Complete with accessories as provided in the<br>schematics   | set  | 1   |  |  |
| 6                                   | consumer unit complete with all hager accessories:<br>16 way consumer unit complete with1- 63A RCD, 4-<br>16A mcb 4-10A mcb equivalent to hager or legrand,<br>or any equivalence as approved | No   | 1   |  |  |

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|                                    |   |                            |            |  |  |
|------------------------------------|---|----------------------------|------------|--|--|
| 7                                  | Power points connected complete and ready from 32 A sp miniature circuit breakers of distribution board using 2.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 27         |  |  |
| 8                                  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories   | roll, line, Neutral, Earth | 35         |  |  |
| 9                                  | Misc. Item, 4cx35sqmm supply cable to be measured, ...OTHERS  | roll                       | 1          |  |  |
| <b><u>CABLE MANAGEMENT</u></b>     |   |                            |            |  |  |
| 9                                  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125        |  |  |
| 10                                 | Lightening Arrestor, ingesco@PDC 5.3 Lightening Rod.30M Radius Coverage. And metal strip copper.  | No                         | 0          |  |  |
| 11                                 | Earthing and Bondings   | No                         | 0          |  |  |
| 1                                  | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                         | 3          |  |  |
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3          |  |  |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11         |  |  |
| 4                                  | BOSCH heat detector, F220 series detectors  | No                         | 1          |  |  |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch   | No                         | 1          |  |  |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                         | 2          |  |  |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                         | 144        |  |  |
| <b><u>Fire FIGHTING SYSTEM</u></b> |   |                            |            |  |  |
| 5                                  | C02 Fire extinguisher 12KG  | No                         | 6          |  |  |
| 6                                  | Foam fire extinguisher 12KG   | No                         | 6          |  |  |
| <b>GRAND TOTAL 2</b>               |   |                            |            |  |  |
| <b>SECOND FLOOR</b>                |   |                            |            |  |  |
| <b>Item</b>                        | <b>Description</b>  | <b>Unit</b>                | <b>Qty</b> |  |  |
| <b>SECTION 1.3 -FIRST FLOOR</b>    |   |                            |            |  |  |
|                                    |   |                            |            |  |  |

| <b>LIGHTING INSTALLATION</b> |  |                                  |    |  |
|------------------------------|--|----------------------------------|----|--|
|                              | a) 1 gang 1-way switch   | No                               | 1  |  |
|                              | b) 1-gang 2-way switch   | No                               | 24 |  |
|                              | c) 2 gang 2-way switch   | No                               | 0  |  |
|                              | d) 3 gang 2-way switch   | No                               | 0  |  |
|                              | e) 4 gang 2-way switch   | No                               | 0  |  |
|                              | f) 10-gang 2-way grid switch   | No                               | 0  |  |
|                              | g) 1 gang 2-way Intermediate Switch  | No                               | 1  |  |
| 1                            | LUMINAIRE TYPE A   |                                  |    |  |
|                              | Phillips Fluorescent Lighting 36W T8<br>1200mm,6500k 3250Lumen   | No                               | 64 |  |
| 2                            | LUMINAIRE TYPE B   |                                  |    |  |
|                              | Pole SWH Eco LED street luminaire 150W<br>18750LM including poles  | No                               | 0  |  |
| 3                            | LUMINAIRE TYPE C   |                                  |    |  |
|                              | 450W Equivalent Integrated<br>Outdoor LED 6800 Lumens  | No                               | 0  |  |
| 3                            | LUMINAIRE TYPE D   |                                  |    |  |
|                              | Wall mounted mirror light  | No                               | 4  |  |
| 4                            | LUMINAIRE TYPE E   |                                  |    |  |
|                              | Wall mounted stairway light<br>with backup battery 18W   | No                               | 1  |  |
| 5                            | Socket Outlet  | No                               | 64 |  |
| <b>POWER RETICULATION</b>    |  |                                  |    |  |
| 5                            | DB typical Floor 63AMP; 230/400V; 4P; 4W.<br>Complete with accessories as provided in the<br>schematics  | set                              | 1  |  |
| 6                            | consumer unit complete with all hager accessories:<br>16-way consumer unit complete with 1- 63A RCD, 4-<br>16A mcb 4-10A mcb equivalent to hager or legrand,<br>or any equivalence as approved   | No                               | 1  |  |
| 7                            | Power points connected complete and ready from 32<br>A sp miniature circuit breakers of distribution board<br>using 2.5 mm sq drawn in 20mm upvc conduits.<br>complete with switch boxes, junction boxes,<br>couplers, bends and any other necessary conduiting<br>accessories | roll, line,<br>Neutral,<br>Earth | 27 |  |

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|                                    |   |                            |     |  |  |
|------------------------------------|---|----------------------------|-----|--|--|
| 8                                  | Wiring from 10A SP miniature circuit breakers on Consumer unit, using 1.5 mm sq drawn in 20mm upvc conduits. complete with switch boxes, junction boxes, couplers, bends and any other necessary conduiting accessories | roll, line, Neutral, Earth | 35  |  |  |
| 9                                  | Misc.Item, 4cx35sqmm supply cable to be measured, ...OTHERS   | roll                       | 1   |  |  |
| <b><u>CABLE MANAGEMENT</u></b>     |   |                            |     |  |  |
| 9                                  | Cable basket for minimised current cable currying/OR Flexible PVC Conduit   | No                         | 125 |  |  |
| 10                                 | Lightning Arrestor, ingesco@PDC 5.3 Lightning Rod.30M Radius Coverage.and metal strip copper.   | No                         | 0   |  |  |
| 11                                 | Earthing and Bondings   | No                         | 0   |  |  |
| 1                                  | Manual call points red protection class IP54 dimensions 87x87x56mm  | No                         | 3   |  |  |
| 2                                  | Wall mounted loudspeakers with flush mounting box (Bosch security systems louder speakers) 6W/100V (Rectangle)  | No                         | 3   |  |  |
| 3                                  | FAS-420 series Aspirating smoke detectors (Security systems) 200X292  | No                         | 11  |  |  |
| 4                                  | BOSCH heat detector, F220 series detectors  | No                         | 1   |  |  |
| 5                                  | 528X381mm D7024 FIRE ALARM CONTROL PANEL, 380mA alarm, 20mA standby, 150ohm 24vdc Bosch   | No                         | 1   |  |  |
| 6                                  | Evacuate show sign Lamp (Exit LED light) with emergency battery 3.8v AC 220v  | No                         | 2   |  |  |
| 7                                  | FP200 cable 2core-4core fireproof cable 1mm-2.5mm fire alarm cable RED/WHITE  | No                         | 144 |  |  |
| <b><u>Fire FIGHTING SYSTEM</u></b> |   |                            |     |  |  |
| 5                                  | C02 Fire extinguisher 12KG  | No                         | 6   |  |  |
| 6                                  | Foam fire extinguisher 12KG   | No                         | 6   |  |  |
| <b>GRAND TOTAL</b>                 |   |                            |     |  |  |
| <b>TOTAL FOR ELECTRICAL</b>        |   |                            |     |  |  |

| <b>LOT B: SUMMARY OF THE BILLS OF QUANTITIES &amp; PROJECT COST ESTIMATION</b> |                                |                                   |
|--|--------------------------------|-----------------------------------|
| <b>N</b>   | <b>ITEM</b>                    | <b>AMOUNT (RWF) VAT Exclusive</b> |
| <b>LOT B: 12 CLASSROOMS</b>  |                                |                                   |
| 1  | DEMOLITION & REMOVAL OF DEBRIS |                                   |
| 2  | GROUND FLOOR                   |                                   |
| 3  | FIRST FLOOR                    |                                   |
| 4  | SECOND FLOOR                   |                                   |
| 5  | EXTERNAL WORKS                 |                                   |
| 6  | ELECTRICAL WORK                |                                   |
| <b>TOTAL FOR LOT B (Block B) in RWF</b>  |                                |                                   |

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