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# INVITATION TO BID

## Construction of NIEC Data Centre in Mogadishu- Somalia

ITB No.: UNDP/SOM/ITB/2019/008/IP- REVISION 2

Project: Inclusive Politics- Elections Project

Country: Somalia

Issued on: September 5, 2019

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## Section 1. Letter of Invitation

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The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents and the General Terms and Conditions of Contract which is inserted in the Bid Data Sheet:

- Section 1: This Letter of Invitation
- Section 2: Instruction to Bidders
- Section 3: Bid Data Sheet (BDS)
- Section 4: Evaluation Criteria
- Section 5: Scope of Services
- Section 6: Returnable Bidding Forms
  - Form A: Bid Submission Form
  - Form B: Bidder Information Form
  - Form C: Joint Venture/Consortium/Association Information Form
  - Form D: Qualification Form
  - Form E: Format of Technical Bid
  - Form F: Price Schedule
  - Form G: Bid Security
- Annex I – Technical Drawings
- Annex II – Excel format for Priced Bill of Quantities

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by the Deadline for Submission of Bids set out in Bid Data Sheet.

Should you require further clarifications, kindly communicate with the contact person/s identified in the attached Data Sheet as the focal point for queries on this ITB.

UNDP looks forward to receiving your Bid and thank you in advance for your interest in UNDP procurement Opportunities.

Issued by

Approved by:

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Name: Mary Okello

Title: Procurement Associate

Date: **September 5, 2019**

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Name: Iryna Malykh

Title: Head of Procurement

Date: **September 5, 2019**

## Section 2. Instruction to Bidders

### GENERAL PROVISIONS

<b>1. Introduction</b>	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at <a href="https://poppp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d">https://poppp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</a></p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (<a href="http://www.ungm.org">www.ungm.org</a>). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
<b>2. Fraud &amp; Corruption, Gifts and Hospitality</b>	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at <a href="http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti">http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</a></p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged</p>

	<p>in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at <a href="http://www.un.org/depts/ptd/pdf/conduct_english.pdf">http://www.un.org/depts/ptd/pdf/conduct_english.pdf</a></p>
<b>3. Eligibility</b>	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p>
<b>4. Conflict of Interests</b>	<p>4.1 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they:</p> <ul style="list-style-type: none"> <li>a) Are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNDP to provide services for the preparation of the design, specifications, Terms of Reference, cost analysis/estimation, and other documents to be used for the procurement of the goods and services in this selection process;</li> <li>b) Were involved in the preparation and/or design of the programme/project related to the goods and/or services requested under this ITB; or</li> <li>c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP.</li> </ul> <p>4.2 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.</p> <p>4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <ul style="list-style-type: none"> <li>a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and</li> <li>b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices.</li> </ul> <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p>

	4.4	The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.
<b>B. PREPARATION OF BIDS</b>		
<b>5. General Considerations</b>	5.1	In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid.
	5.2	The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify the UNDP accordingly.
<b>6. Cost of Preparation of Bid</b>	6.1	The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. UNDP shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.
<b>7. Language</b>	7.1	The Bid, as well as any and all related correspondence exchanged by the Bidder and UNDP, shall be written in the language (s) specified in the BDS.
<b>8. Documents Comprising the Bid</b>	8.1	The Bid shall comprise of the following documents and related forms which details are provided in the BDS: <ul style="list-style-type: none"> <li>a) Documents Establishing the Eligibility and Qualifications of the Bidder;</li> <li>b) Technical Bid;</li> <li>c) Price Schedule;</li> <li>d) Bid Security, if required by BDS;</li> <li>e) Any attachments and/or appendices to the Bid.</li> </ul>
<b>9. Documents Establishing the Eligibility and Qualifications of the Bidder</b>	9.1	The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.
<b>10. Technical Bid Format and Content</b>	10.1	The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB.
	10.2	Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the UNDP. If not destroyed by testing, samples will be returned at Bidder's



	<p>request and expense, unless otherwise specified.</p> <p>10.3 When applicable and required as per Section 5, the Bidder shall describe the necessary training programme available for the maintenance and operation of the equipment offered as well as the cost to the UNDP. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS.</p> <p>10.4 When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least five (5) years from date of delivery, or as otherwise specified in this ITB.</p>
<b>11. Price Schedule</b>	<p>11.1 The Price Schedule shall be prepared using the Form provided in Section 6 of the ITB and taking into consideration the requirements in the ITB.</p> <p>11.2 Any requirement described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of other activities or items, as well as in the final total price.</p>
<b>12. Bid Security</b>	<p>12.1 A Bid Security, if required by BDS, shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for a minimum of thirty (30) days after the final date of validity of the Bid.</p> <p>12.2 The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.</p> <p>12.3 If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.</p> <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> <li>a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or;</li> <li>b) In the event the successful Bidder fails: <ul style="list-style-type: none"> <li>i. to sign the Contract after UNDP has issued an award; or</li> <li>ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.</li> </ul> </li> </ul>
<b>13. Currencies</b>	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p>

	<p>a) UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bids; and</p> <p>b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.</p>
<b>14. Joint Venture, Consortium or Association</b>	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 9 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience should clearly differentiate between:</p> <ol style="list-style-type: none"> <li>1. Those that were undertaken together by the JV, Consortium or Association; and</li> <li>2. Those that were undertaken by the individual entities of the JV, Consortium or Association.</li> </ol> <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p>

	<p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
<b>15. Only One Bid</b>	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> <li>a) they have at least one controlling partner, director or shareholder in common; or</li> <li>b) any one of them receive or have received any direct or indirect subsidy from the other/s; or</li> <li>c) they have the same legal representative for purposes of this ITB; or</li> <li>d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of another Bidder regarding this ITB process;</li> <li>e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.</li> </ul>
<b>16. Bid Validity Period</b>	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
<b>17. Extension of Bid Validity Period</b>	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>
<b>18. Clarification of Bid (from the Bidders)</b>	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no</p>

	<p>obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bids, unless UNDP deems that such an extension is justified and necessary.</p>
<b>19. Amendment of Bids</b>	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
<b>20. Alternative Bids</b>	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
<b>21. Pre-Bid Conference</b>	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Non-attendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>

## C. SUBMISSION AND OPENING OF BIDS

<b>22. Submission</b>	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>
<b>Hard copy (manual) submission</b>	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked “Original”, and its copies marked “Copy” as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which shall:</p> <ul style="list-style-type: none"> <li>i. Bear the name of the Bidder;</li> <li>ii. Be addressed to UNDP as specified in the BDS; and</li> <li>iii. Bear a warning not to open before the time and date for Bid opening as specified in the BDS.</li> </ul> <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
<b>Email and eTendering submissions</b>	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <p>a) Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS;</p> <p>b) Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions in BDS.</p> <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide and Instructional videos available on this link:</p>

	<a href="http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/">http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/</a>
<b>23. Deadline for Submission of Bids and Late Bids</b>	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p> <p>23.2 UNDP shall not consider any Bid that is received after the deadline for the submission of Bids.</p>
<b>24. Withdrawal, Substitution, and Modification of Bids</b>	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
<b>25. Bid Opening</b>	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>
<b>D. EVALUATION OF BIDS</b>	
<b>26. Confidentiality</b>	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after</p>

	<p>publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
<b>27. Evaluation of Bids</b>	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p> <ul style="list-style-type: none"> <li>a) Preliminary Examination including Eligibility</li> <li>b) Arithmetical check and ranking of bidders who passed preliminary examination by price.</li> <li>c) Qualification assessment (if pre-qualification was not done)</li> <li>a) Evaluation of Technical Bids</li> <li>b) Evaluation of prices</li> </ul> <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
<b>28. Preliminary Examination</b>	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
<b>29. Evaluation of Eligibility and Qualification</b>	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> <li>a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list;</li> <li>b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments,</li> <li>c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required;</li> <li>d) They are able to comply fully with the UNDP General Terms and Conditions of Contract;</li> <li>e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and</li> <li>f) They have a record of timely and satisfactory performance with their clients.</li> </ul>

<b>30. Evaluation of Technical Bid and prices</b>	<p>30.1 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
<b>31. Due diligence</b>	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> <li>a) Verification of accuracy, correctness and authenticity of information provided by the Bidder;</li> <li>b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team;</li> <li>c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder;</li> <li>d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous works, as deemed necessary;</li> <li>e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;</li> <li>f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.</li> </ul>
<b>32. Clarification of Bids</b>	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bids.</p>
<b>33. Responsiveness of Bid</b>	<p>33.1 UNDP's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p>



	33.2 If a bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.
<b>34. Nonconformities, Reparable Errors and Omissions</b>	<p>34.1 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <ul style="list-style-type: none"> <li>a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of UNDP there is an obvious misplacement of the decimal point in the unit price; in which case, the line item total as quoted shall govern and the unit price shall be corrected;</li> <li>b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</li> <li>c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail.</li> </ul> <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall be rejected.</p>
<b>E. AWARD OF CONTRACT</b>	
<b>35. Right to Accept, Reject, Any or All Bids</b>	35.1 UNDP reserves the right to accept or reject any bid, to render any or all of the bids as non-responsive, and to reject all Bids at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Bidder(s) of the grounds for UNDP's action. UNDP shall not be obliged to award the contract to the lowest priced offer.
<b>36. Award Criteria</b>	36.1 Prior to expiration of the period of Bid validity, UNDP shall award the contract to the qualified and eligible Bidder that is found to be responsive to the requirements of the Schedule of Requirements and Technical Specification, and has offered the lowest price.

<b>37. Debriefing</b>	37.1 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from UNDP. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for UNDP procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.
<b>38. Right to Vary Requirements at the Time of Award</b>	38.1 At the time of award of Contract, UNDP reserves the right to vary the quantity of goods and/or services, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.
<b>39. Contract Signature</b>	39.1 Within fifteen (15) days from the date of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to UNDP. Failure to do so may constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security, if any, and on which event, UNDP may award the Contract to the Second highest rated or call for new Bids.
<b>40. Contract Type and General Terms and Conditions</b>	40.1 The types of Contract to be signed and the applicable UNDP Contract General Terms and Conditions, as specified in BDS, can be accessed at <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
<b>41. Performance Security</b>	41.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS and form available at <a href="https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&amp;action=default">https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&amp;action=default</a> within a maximum of fifteen (15) days of the contract signature by both parties. Where a performance security is required, the receipt of the performance security by UNDP shall be a condition for rendering the contract effective.
<b>42. Bank Guarantee for Advanced Payment</b>	42.1 Except when the interests of UNDP so require, it is UNDP's standard practice to not make advance payment(s) (i.e., payments without having received any outputs). If an advance payment is allowed as per the BDS, and exceeds 20% of the total contract price, or USD 30,000, whichever is less, the Bidder shall submit a Bank Guarantee in the full amount of the advance payment in the form available at <a href="https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&amp;action=default">https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&amp;action=default</a>
<b>43. Liquidated Damages</b>	43.1 If specified in the BDS, UNDP shall apply Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract.
<b>44. Payment Provisions</b>	44.1 Payment will be made only upon UNDP's acceptance of the goods and/or services performed. The terms of payment shall be within thirty (30) days, after

	<p>receipt of invoice and certification of acceptance of goods and/or services issued by the proper authority in UNDP with direct supervision of the Contractor. Payment will be effected by bank transfer in the currency of the contract.</p>
<b>45. Vendor Protest</b>	<p>45.1 UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the following link provides further details regarding UNDP vendor protest procedures:  <a href="http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html">http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html</a></p>
<b>46. Other Provisions</b>	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15  <a href="http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&amp;referrer">http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&amp;referrer</a></p>

## Section 3. Bid Data Sheet

The following data for the goods and/or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail.

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	Not allowed
3	20	Alternative Bids	Shall not be considered
4	21	Pre-Bid conference	<p>Will be conducted</p> <p>Bidders are encouraged to attend the pre-bid physical site visit to get a complete understanding of Scope of Works prior to submitting the formal bid to UNDP.</p> <p><b>The pre-bid site visit was conducted on:</b>  <b>Date: August 19, 2019</b>  <b>Time: 10:00</b></p> <p>Venue: New NIEC compound at Adan Adde International Airport (AAIA) gravel road attached to the West side of the dry port, <b>Mogadishu, Somalia.</b></p> <p>The UNDP focal point for this arrangement is:  Focal Person: <b>Engineer Aydarus</b>  Email address: <a href="mailto:procurement.so@undp.org">procurement.so@undp.org</a></p> <p>Interested bidders are requested to confirm attendance of the site visit via email to <a href="mailto:procurement.so@undp.org">procurement.so@undp.org</a> with a subject line <b>Confirmation of Attendance of Pre-Bid Site Visit for ITB No. UNDP/SOM/ITB/2019/008/IP</b> preferably by <b>15<sup>th</sup> August 2019.</b></p>
5	16	Bid Validity Period	120 Days
6	13	Bid Security	<p>Required in the amount of <b>USD 10,000</b></p> <p>Acceptable Form of Bid Security: Bank Guarantee (See Section 8 for template)</p> <p>- A copy of the Bid security will be uploaded in the eTendering submission. The UNDP will verify the Bid security with the respective banks.</p>

7	41	Advanced Payment upon signing of contract	Not Allowed
8	42	Liquidated Damages	Will be imposed as follows: <ul style="list-style-type: none"> <li>Percentage of contract price per day of delay: <b>0.5%</b></li> <li>Maximum number of days of delay: <b>30 calendar days</b> after which UNDP may terminate the contract.</li> </ul>
9	40	Performance Security	Required in the amount: 10% of of the contract value within 10 days after the contract award and will be valid up to twenty-eight days after certificate of of Final Completion. The Performance Security will be returned to the contractor within twenty-eight days after the Issuance by the Engineer of Final Certificate of Completion (12 months plus 28 days period); if not otherwise extended on mutual understanding.
10	12	Currency of Bid	United States Dollar
11	31	Deadline for submitting requests for clarifications/ questions	7 days before the submission deadline  <b>Bidders are required to submit their queries in writing. Telephone enquiries will not be accepted.</b>
12	31	Contact Details for submitting clarifications/questions	E-mail: <a href="mailto:procurement.so@undp.org">procurement.so@undp.org</a>  <i><b>Note:</b> This email address is officially designated by UNDP. If inquiries are sent to other person/s or address/es, even if they are UNDP staff, UNDP shall have no obligation to respond nor can UNDP confirm that the query was officially received.</i>  <b>Only requests for clarifications should be sent to this email address. Bids submitted to this email address will be disqualified. Bids must be submitted through e-Tendering only as provided in BDS No.15 below.</b>  Any delay in UNDPs response shall not be used as a reason for extending the submission deadline, unless UNDP determines that such an extension is necessary and communicates a new submission deadline in writing to Bidder.
13	18, 19 and 21	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	Posted directly to e-Tendering <a href="https://etendering.partneragencies.org">https://etendering.partneragencies.org</a>  Proposers are advised to frequently check the above-mentioned website for any addenda/clarifications that may be posted.
14	23	Deadline for Submission	Date and Time: <b>September 15, 2019, 07:00H EST/EDT (New York) time zone; (14 .00H Somali time)</b>

			<b>For e-tendering submission: As indicated in e-Tendering system. Note that system time Zone is in EST/EDT (New York) time Zone.</b>
15	22	Allowable Manner of Submitting Bids	<ul style="list-style-type: none"> <li>e-Tendering only</li> </ul>
16	22	Bid Submission Address	<b>Submission for bids:</b> <a href="https://etendering.partneragencies.org">https://etendering.partneragencies.org</a> <b>Event ID: SOM10 - ITB/2019/008</b>
17	22	Electronic submission (email or eTendering requirements)	<ul style="list-style-type: none"> <li>Not applicable- only electronic tendering in the e-tendering module.</li> <li>Bid security should be uploaded in the etendering system.</li> <li>Digital certification/signature: Signed and stamped copy.</li> <li>Time zone to be recognized: EST/EDT (New York) time zone</li> </ul> <p><b>Bidders are solely responsible for ensuring that any file uploaded is readable, that it is uncorrupted and free from viruses and malware. Failure to submit readable files will result in rejection of the Bid</b></p>
18	25	Date, time and venue for the opening of bid	<b>This is an eTendering submission only. Bidders will receive an automatic notification once their bids are opened</b>
19	27, 36	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible and qualified bid.
20		Expected date for commencement of Contract	
21		Maximum expected duration of contract	16 weeks
22	35	UNDP will award the contract to:	One Bidder only based on technical qualification and offering the lowest price.
23	39	Type of Contract	<b>Contract for Civil Works which can be found at</b> <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
24	39	UNDP Contract Terms and Conditions that will apply	<b>UNDP General Terms and Conditions for Works which can be found at</b> <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
25		Other Information Related to the ITB	<b>Joint Venture Submissions</b> <ul style="list-style-type: none"> <li>Bidders applying as a Joint Venture (JV) must indicate in the bid that it is a JV undertaking and submit a Letter of Intent to form a JV if selected, signed by all parties with the bid</li> </ul>

			<p>submission and if selected, the legally registered JV certificate before contract signature in accordance with Clause 14 of Instructions to Bidders.</p> <p><b>Post Qualification Actions;</b>  The UNDP may at its discretion conduct post qualification actions using one or more, or all the actions indicated below:</p> <ul style="list-style-type: none"> <li>• Verification of accuracy, correctness and authenticity of the information provided by the Bidder on the legal, technical and financial documents submitted including but not limited to Bid Security</li> <li>• Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or any other entity that might have done business with the Bidder,</li> <li>• Inquiry and reference checking with other previous clients on the quality of performance on ongoing or past contracts completed.</li> <li>• Physical inspections/visits to previously completed projects for other clients</li> <li>• Physical inspection of Bidder's offices, branches or other places where business takes place.</li> <li>• Verification of availability of equipment and on-going construction sites handled by the Company.</li> </ul> <p><b>Conditions for Determining Contract Effectivity;</b></p> <ul style="list-style-type: none"> <li>• Countersigned Contract by both Parties</li> <li>• Submission of Performance Security</li> <li>• Handover of construction site to the Contractor by UNDP.</li> </ul>
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## Section 4. Evaluation Criteria

### Preliminary Examination Criteria

Bids will first be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a yes/no basis:

No.	Basic Criteria (Pass/Fail)	Provided	
		Y	N
1	Bid sent via e-tendering to: <a href="https://etendering.partneragencies.org">https://etendering.partneragencies.org</a> ; <b>Event ID: SOM10 - ITB/2019/008</b> as stipulated in the ITB	✓	X
2	Appropriate signatures; All returnable bidding forms signed and stamped by Bidder's authorised representative.	✓	X
3	Power of Attorney (Bidder's authorized representative information)	✓	X
4	Minimum bid documents provided (Submission of all returnable forms A to F completed, signed and stamped together with all supporting documents/information requested therein)	✓	X
5	Form G: Bid Security	✓	X
6	Acceptance of Bid Validity (120 days) from date of close of ITB	✓	X
7	Acceptance of UNDP General Terms and Conditions of Works	✓	X
8	Language of Bid is English	✓	X
<b>Passed for Eligibility and Qualification Check?</b>		✓	X

Only complete Bids will be passed for eligibility and qualification check.

### Minimum Eligibility and Qualification Criteria

**Eligibility and Qualification will be evaluated on a Pass/Fail basis.**

If the Bid is submitted as a Joint Venture/Consortium/Association, each member should meet the minimum criteria, unless otherwise specified.

Subject	Criteria	Document Submission requirement
<b>ELIGIBILITY</b>		
<b>Legal Status</b>	Vendor is a legally registered entity; ▪ Valid Certificate of Registration of the business including Articles of incorporation or equivalent document if Bidder is not a corporation.	<b>Form B: Bidder Information Form</b> and all documents indicated in the Form. attached
<b>Eligibility</b>	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	<b>Form A: Bid Submission Form.</b>
<b>Conflict of Interest</b>	No conflicts of interest in accordance with ITB clause 4.	<b>Form A: Bid Submission Form.</b>



Subject	Criteria	Document Submission requirement
<b>Bankruptcy</b>	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future.	Form A: Bid Submission Form.
<b>Certificates and Licenses</b>	<ul style="list-style-type: none"> <li>Valid Certificate of Registration of the Business including Articles of Incorporation, or equivalent document if Bidder is not a corporation.</li> <li>Tax Registration/payment certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations in accordance with National Law or Certificate of Tax Exemption if any such privilege is enjoyed by the Bidder.</li> <li>Licence(s) to perform the required construction works under the ITB issued by the relevant government authority</li> </ul>	<b>Form B: Bidder Information Form</b> and all documents indicated in the form attached.
<b>QUALIFICATION</b>		
<b>History of Non-Performing Contracts<sup>1</sup></b>	Non-performance of a contract did not occur as a result of contractor default <b>for the last 3 years.</b>	<b>Form D: Qualification Form</b> and all documents indicated in the Form attached.
<b>Litigation History</b>	No consistent history of court/arbitral award decisions against the Bidder <b>for the last three (3) years.</b>	<b>Form D: Qualification Form</b> and all documents indicated in the Form attached.
<b>Previous Experience</b>	<ul style="list-style-type: none"> <li>Minimum <b>five (5) years of relevant</b> experience in construction works</li> </ul>	<b>Form D: Qualification Form</b> and all documents indicated in the Form attached.
	<ul style="list-style-type: none"> <li>Minimum of <b>three (3) contracts</b> for construction works of similar scope implemented over the last <b>five (5) years (please submit copies of past contracts).</b></li> </ul> <p><b><i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i></b></p>	<b>Form D: Qualification Form;</b> Copies of a minimum of three (3) contracts for construction works of similar scope implemented over the past five (5) years.
	<ul style="list-style-type: none"> <li>List and value of completed projects performed and completed over the past five years, plus clients' contact details (details (name, email and telephone number) who may be contacted for further information on those contracts in table format</li> </ul>	<b>Form D: Qualification Form</b> and all documents indicated in the Form attached.
	<ul style="list-style-type: none"> <li>List and value of on-going projects with contact details (name, email and telephone number) of clients and current percentage completion of each on-going contract</li> </ul>	As separate table.
	<ul style="list-style-type: none"> <li>Statement of satisfactory performance from <b>the top three (3)</b></li> </ul>	<b>Form D: Qualification Form</b>

<sup>1</sup> Non-performance, as decided by UNDP, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

Subject	Criteria	Document Submission requirement										
	<b>client's or more</b> in terms of contract value <b>for the past five (5) years.</b>	and all documents indicated in the Form attached.										
Financial Standing	<ul style="list-style-type: none"> <li>Minimum average annual turnover of USD 500,000 <b>for the Financial Years 2016, 2017 and 2018.</b></li> <li>Current Ratio of not less than <b>1.0 for each</b> of the above financial years, i.e., 2016, 2017 and 2018.</li> </ul> <p><b>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</b></p>	<b>Form D: Qualification Form</b> and all documents indicated in the Form attached.										
	<p>Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability.</p> <p><b>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</b></p>	<b>Form D: Qualification Form</b> and all documents indicated in the Form attached.										
Technical Evaluation	<p>The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document;</p> <ul style="list-style-type: none"> <li>✓ Full compliance of Bid to the technical requirements and BoQ</li> <li>✓ Minimum of <b>five years</b> of experience in Construction Works</li> <li>✓ Minimum of <b>three (3) contracts</b> for construction works of similar scope implemented over the last <b>five (5) years).</b></li> <li>✓ Minimum average turnover of <b>not less than USD 500,000 for the Financial Years 2016, 2017 and 2018.</b></li> <li>✓ Minimum Current Ratio of <b>not less than 1.0 for each of the above financial years, i.e., 2016, 2017 and 2018.</b></li> <li>✓ <b>Suitability and technical qualification of Proposed Staff in relation to their qualification and years of experience.</b></li> </ul> <p>The Bidder shall submit CVs of the following key proposed personnel in the format for CV of proposed key personnel provided in form E of the ITB document:</p>	<p><b>Form E: Technical Bid Form</b> and all documents indicated in the Form attached.</p> <p>CVs of key personnel in the format provided in Form E.</p>										
	<table border="1"> <thead> <tr> <th>Staff Title</th><th>Minimum Education Qualifications</th><th>Minimum years of experience in similar construction project</th></tr> </thead> <tbody> <tr> <td>Project manager to directly coordinate with UNDP</td><td>Bachelor's degree in civil or mechanical engineering</td><td>At least five (5) years' experience</td></tr> <tr> <td>Mechanical Engineer</td><td>Bachelor's degree in mechanical engineering or certificate from technical institute</td><td>At least three (3) years' experience or 5 years experience if presenting a certificate from technical institute.</td></tr> <tr> <td>Electrical Engineer</td><td>Bachelor's degree in electrical engineering or certificate from technical institute</td><td>At least three (3) years' experience or 5 years experience if presenting a certificate from</td></tr> </tbody> </table>		Staff Title	Minimum Education Qualifications	Minimum years of experience in similar construction project	Project manager to directly coordinate with UNDP	Bachelor's degree in civil or mechanical engineering	At least five (5) years' experience	Mechanical Engineer	Bachelor's degree in mechanical engineering or certificate from technical institute	At least three (3) years' experience or 5 years experience if presenting a certificate from technical institute.	Electrical Engineer
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Subject	Criteria			Document Submission requirement
			technical institute.	Bidder must submit the Project implementation schedule (Gantt chart)
	Qualified Forman	Deploma in Civil Engineering	At least five (5) years' experience	
	✓ <b>Suitability of implementation time table:</b> Maximum of 16 weeks completion timeframe			
	✓ <b>Equipment:</b> Relevance and efficiency of construction equipment and machinery (in accordance with UNDP requirements in the following format)			Bidder should have workshop for preparation   

## Section 5a: Schedule of Requirements and Technical Specifications/Bill Of Quantities

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### UNDP/SOM/ITB/2019/008/IP

#### Construction of NIEC Data Centre in Mogadishu, Somalia- REVISION 2

##### 1. Project Description

The United Nations Development Programme (UNDP) in Somalia and the UN Assistance Mission in Somalia (UNSOM) jointly form the UN Integrated Electoral Support Group (IESG), which supports and advises the National Independent Electoral Commission (NIEC) to plan and prepare for universal suffrage elections by the end of 2020, including the country's first ever voter registration. In line with the Government's RoadMap for Inclusive Politics and the NIEC's Strategic Plan (2017-2021), voter registration is planned to start in March 2020 and federal elections are envisaged prior to the expiry of the Parliament's term in December 2020.

IESG provides capacity development assistance to the NIEC's HQ and its field offices. This includes technical, logistical and budgetary support. With the Electoral Law currently in discussion in Parliament, the NIEC and IESG are preparing the technical aspects to implement the voter registration next year. In the upcoming months, NIEC and IESG, together with UNDP's global Procurement Support Office (PSO) (Copenhagen), are to conduct the procurement process for the VR kits; which includes as part of the technical qualification an on-site testing of the prototypes in Mogadishu. In addition, the NIEC and IESG are working on an overall budget for voter registration exercise, with specific details of the required financial resources in 2019 to initiate the purchase order for the VR kits to arrive in early 2020. With IESG support, NIEC is doing a field assessment to identify potential voter registration sites in secure and populated areas in the country. Other operational support components include plans to construct NIEC Centre, procurement of equipment for the NIEC's regular operations, etc.

The UN Integrated Electoral Support Group (IESG)/ UNDP Elections Project is assisting the NIEC with the construction of the NIEC data centre for voter registration, mainly to assist with the project's operational support preparations for the NIEC's voter registration in early 2020.

##### 2. Scope of Works

The proposed civil works will be at the NIEC Data Centre in Mogadishu, Somalia. The main facilities proposed for construction are the Data Centre, septic tank, toilets, open spaces, power house, retaining wall, stair case, tent basement and protection hoarding wall. The construction works includes civil, sanitary, electrical and mechanical works as specified in the Bill of Quantities (BoQ).

Under the supervision of the UNDP Engineer, the Contractor shall:

- Perform works in conformity to quality/quantity and accuracy as stipulated in the detailed specification
- Implement the project based on a detailed Construction Work Schedule which shall be approved by the UNDP engineer;
- Institute a quality control system to ensure adequate monitoring of the works progress at all times;
- Maintain all the required licences during the contract period.
- Technical qualifications shall comply without any deviation to those specified in the Bill of Quantities without deviations. **Any alterations to be BoQ will be implemented in accordance with Article 48 (Alterations, Additions and Omissions) of the UNDP General Conditions for Civil Works.**

## 2.1. Bill of Quantities

The selected Bidder shall perform the construction works in strict compliance with the Bill of Quantities detailed in the table below and technical drawings attached hereto as Annexes I of this ITB.

S.n.	Description	Unit	QTY	Rate in \$	Amount in \$
	<b>Site cleaning preparation activities</b>				
<b>1</b>	<b>Site cleaning for small trees and sharps</b>				
1.1	Removing of existing old guard shelters made with wooden frame and CGI sheets. Ditto, the temporary toilets at North-West cornice of the compound. The GI sheets and wooden should be handed over to the security staff of the building. The broken materials should be dumped beyond 1.0km from site with approval of district municipality.	Lumpsum	1.00		-
1.2	Cleaning of existing wild trees and sharps inside of the compound. The rest of broken truck, quarry stones and broken of construction materials from former demolished residences, guard shelters and toilet should be dumped at least 1 km from the site with the permission of Municipality of the district. <b>N.B. Note that the leaves and trunks of removed trees should be cleared properly, otherwise this material can be affected the compaction and lifespan of the building.</b>	Lumpsum	1.00		-
1.3	Soil movement which consist cutting the top hill and filling the soil removed in to the depressed area in order to have steps as mentioned in the attached "Soil movement for the ground adjustment". This activity must be used by bulldozer, front loader or other equivalent machine to move the soil. Cutting of the existing the hill at the East side of the road by using bulldozer or another excavator machine.	m <sup>3</sup>	716.19		-
1.4	Spreading of removed soil from the mountain area by bulldozer or grader machine. The amount of each layer shall not exceed than 150mm thick.	m <sup>3</sup>	716.19		-
1.5	Leveling of spreading of material by grader or equivalent machine. The amount of each layer shall not exceed than 150mm thick.	m <sup>3</sup>	716.19		-
1.6	Pouring with water on top of the upper layers of the speeded excavated material by showering slowly with water truck. Note that the watering should be covered the entire area (100mx45m) including the places where removed the hills.	m <sup>2</sup>	10800.00		-
1.7	Compaction with watering of the spread soil with layers in which not exceed than 150mm thick each time. The degree of compaction shall be not less than 95% Maximum Dry Density (MDD). Note that the compacting should be used the entire area (100mx45m) including area where removed hills. <b>N.B. This compaction should be use by adequate compactor tractor</b>	m <sup>2</sup>	10800.00		-
	<b>Sub total - 1</b>				-
	<b>Total for Site cleaning for small trees and sharps</b>				-
S.n.	Description	Unit	QTY	Rate in \$	Amount in \$
<b>B.</b>	<b>Construction of retaining wall at north side of the building</b>				
<b>2</b>	<b>Substructure works</b>				

2.1	Excavation of trench of required of 9,100cm length, width 60cm x 110cm deep foundation wall including excavation for sockets and dressing of sides, ramming of the bottoms including getting out the excavated soil and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming watering etc. and disposing of surplus excavated soil as direction by UNDP site engineer within lead of approximately 90m from excavated point.	m <sup>3</sup>	60.06		-
2.2	Construction of 5cm thick Plain cement concrete of 1:3:6 mixing of 60cm wide	m <sup>3</sup>	2.73		-
2.3	Construction of trapezoid stone wall of 60cm top width, 110cm at bottom width and 250cm height (60cm underground and 190cm above ground). The foundation walls should be made by rubble stone jointed and connected by cement sand mortar of mixing ratio 1:6	m <sup>3</sup>	193.38		-
2.4	Provide and fixing three lines of PVC pipes of diameter Ø 8cm @ 200cm c/c inside of the retaining stone wall during the construction.	Rods	42.00		-
2.5	Construct 60cm wide, 20cm thick of reinforced concrete beam of 1:2:4 mixing ratio with # 6 Y16 and staffs of 8mm@ 250mm/cc over the retaining wall	m <sup>3</sup>	10.92		-
2.6	Apply 20mm thick and 30mm width pointing plastering with cement sand mortar on 1:5 for external wall surfaces of stone walling. Walls should be cured at least for one week after 24 hours of plastering.	m <sup>2</sup>	178.36		-
<b>Sub-total - 2</b>					-
<b>Total for sitting up and construction of protection hoarding wall</b>					-
<b>S.n.</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Rate in \$</b>	<b>Amount in \$</b>
<b>C.</b>	<b>Sitting up and construction of protection hoarding wall</b>				
<b>3</b>	<b>Setting up and hoarding wall</b>				
3.1	Providing and fixing of wooden of cross section 20cmx2.5cm at surrounding area of construction site with skeleton poles made by timber of cross section 40cmx80cm and 150cm height (50cm underground and 100cm above ground level) at 200cm c/c	Item	1.00		-
3.2	Construction of 17,800cm length and approximately 700cm height hoarding protection at surrounding area of the construction site. This consists wooden structure mounted around the building area covered on it by corrugated iron sheets at the bottom and double layer of PVC nets above the iron sheets, in order to protect the damage causing if any construction materials fall or get broken. This hording is a temporary shelter in which the contractor should include budget of mounting, dismantling and transporting after when the implementation if finished	Item	1		-
<b>Sub-total - 3</b>					-
<b>Total for Sitting up and construction of protection hoarding wall</b>					-
<b>S.n.</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Rate in \$</b>	<b>Amount in \$</b>
<b>D.</b>	<b>Construction of Data center hall with screening room and toilets</b>				
<b>4</b>	<b>Substructure works</b>				
	<b><i>Excavation and Earthwork (Provisional)</i></b>				
4.1	Excavation of soft soil for foundation trenches of 60cm wide and 173cm depth starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be dumped at least 2km away from the site as per directed by UNDP engineers.	m <sup>3</sup>	106.40		-

4.2	Ditto for internal subdivision wall of the toilets and screening room of 40cm wide and 50cm depth.	m <sup>3</sup>	4.24		-
4.3	Ditto for column footings of 120cmx120cmx218cm depth.	m <sup>3</sup>	65.92		-
	<b>Selected filling</b>				-
4.4	Provide and compact 28cm height hardcore layer with approved materials over the existing floor of whole building including the staircase and ramp of the building	m <sup>3</sup>	70.76		-
	<b>Anti-termite treatment</b>				-
4.5	Provide and apply on the upper surfaces of hardcore layer a chemical spray or powder anti-termite treatment as "Premise 200 SC" or other equal and approved anti insecticide materials.	m <sup>2</sup>	252.72		-
	<b>Damp proof membrane</b>				-
4.6	Provide and lay 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	252.72		-
	<b>Concrete work in substructure</b>				-
4.4	Construction of 5cm thick and 60cm wide Plain cement concrete of class 15 (1:3:6 mixing) under the foundation walls of the building.	m <sup>3</sup>	3.08		-
4.5	Ditto for internal subdivision wall of the toilets and screening room of 40cm wide and 5cm thick.	m <sup>3</sup>	0.42		-
4.6	Ditto for column footing of 120cmx120cmx5cm depth.	m <sup>3</sup>	1.51		-
	<b>Foundation Walling</b>				-
4.7	Construction of 40cm wide and 188cm height (168cm under-ground and 20cm above ground) foundation wall made by rubble stone jointed and connected by cement sand mortar of mixing ratio 1:6	m <sup>3</sup>	92.72		-
4.8	Ditto for internal subdivision wall of the toilets and screening room of 40cm wide and 65cm thick.	m <sup>3</sup>	5.43		-
	<b>Subtotal - 4</b>				-
<b>5</b>	<b>Super structure works</b>				
	<b>Plain and reinforced concrete works</b>				
5.1	Construct 120cmx120cmx40cm reinforced concrete of 1:2:4 mixing ratio for footing of the columns with 9 numbers of Y16 both ways.	m <sup>3</sup>	12.10		-
5.2	Ditto columns neck of 40cm x40cm with 10 numbers of Y 16mm	m <sup>3</sup>	7.09		-
5.3	Construct 40cm wide, 20cm thick of reinforced concrete beam of 1:2:4 mixing ratio with # 8 Y16 and staffs of 8mm@ 250mm/cc over foundation wall including staircase	m <sup>3</sup>	9.86		-
5.4	Laying 7cm thick plain cement concrete of 1:3:6 mixing ratio over newly constructed hardcore layer with proper finish.	m <sup>3</sup>	17.69		-
<b>5.5</b>	Construct 17 pieces of 40cm x 40cm reinforced concrete columns of 400cm height of the building. The concrete must be 1:2:4 mixing ratio and reinforced with No. 8 Y16 and staffs of Ø 8mm @250mm c/c. <b>N.B. Note that the columns should be protected from sun and kept moist for at least 10 days.</b>	m <sup>3</sup>	10.88		-

5.6	Construct 4 numbers of 400cm height reinforced concrete octagonal shape columns of external diameter not exceed than Ø 48cm decorated on top with Roman architectural and profiled on the sides by 8 longitudinal lines of approximately 3cm deep and 5cm. The concrete must be 1:2:4 mixing ratio and reinforced with No. 8 Y16 and with spiral of diameter Ø 16mm @ 80mm c/c. <b>N.B.</b> Note that the columns should be protected from sun and kept moist for at least 10 days.	m³	2.89		-
5.7	Construct 20cm wide, 15cm thick of reinforced concrete 2.2m level beam of 1:2:4 mixing ratio with # 6 Y14 and staffs of 6mm@ 250mm/cc. This is for all constructed walls including toilets and screening room.	m³	3.38		-
5.8	Construction of reinforced concrete corbel on external top edges of windows. The corbel must be constructed in three steps of 5cm height each with the top layer of 250cmx 70cm, where the second layer is 240cm x 65cm and the last layer at the bottom is 226cmx60cm, with two supporting braces (see detail drawings). The concrete should be mixed by 1:2:4 and reinforced with iron bars of diameter Ø12mm and Ø 10mm	m³	2.22		-
5.9	Ditto windows for toilets of 175cm x 70cm, where second layer is 165cm 65cm and third layer of 162cm x 60cm.	m³	0.71		-
5.10	Construct of 180 cm x 30 cm x 5cm reinforced concrete window sills at bottom edge windows for offices and toilets. The concrete should be mixed by 1:2:4 with # 3 Y12 and staffs of 8 mm @ 200mm/cc	m³	0.30		-
5.11	Construction of reinforced concrete 1:2:4 mixing ratio loaded beam of 30cm width and 70cm height (20cm inside of the slab and 50cm outside). The concrete should be reinforced with 6 pieces of straight bars diameter Ø 16mm (2 on top and 4 at the bottom), 2 pieces of bended bars diameter Ø 16mm and 2 reinforcement bars of diameter Ø 16mm of 300cm length on top of the columns. All these bars should be united by staffs of 8mm@ 250mm/cc. <b>N.B.</b> Note that the calculated quantities volume is only the lowest part of the beams (50cmx30cm) as the top part is inside of the slab and will considered part of the slab structure.	m³	17.50		-
5.12	Construction of reinforced concrete 1:2:4 mixing ratio final beam (Not loaded) of 20cm width and 35cm height (15cm inside of the slab and 20cm outside). The concrete should be reinforced with 6 pieces of bars diameter Ø 16mm with staffs of iron bars of 8mm@ 250mm/cc	m³	2.25		-
<b>Sub-total - 5</b>					-
<b>6</b>	<b>Construction of steps access</b>				
6.1	For the front access ramp with steps in the middle: Construction of 360cm wide and 600cm length made stone laid and jointed with cement sand mortar of 1:6 mixing. After it poured on top by 10cm thick plain cement concrete of 1:2:4 mixing ratio. Note that this ramp should be kept moist and protect from the sun for at least 10 days.	Item	1.00		-
6.2	Construction of front staircase of 30cm trade and 15cm rise made by rubble stone jointed and connected with cement sand mortar of 1:6, with 10cm plain cement concrete of 1:2:4 on top of stone base	Item	1.00		-
<b>Sub-total - 6</b>					-
<b>7</b>	<b>Construction of concrete blocks</b>				



7.1	Construction 355cm height for East and West walls and 335cm for North and South walls of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	198.35		-
7.2	Ditto for the front wall of toilets and screening room walls of 370cm height	m <sup>2</sup>	51.84		-
7.3	Ditto internal subdivision walls of toilets of 245cm height Note this dimension is not included the two beams	m <sup>2</sup>	30.03		-
<b>Sub-total - 7</b>					-
<b>8</b>	<b>R.C roofing</b>				
8.1	R.C (1:2:4 Mixing ratio) slab cover of 20cm thick with Ø 12mm main bars and 10mm distribution bars both ways at top and bottom and distanced 15cm c/c .Formwork must be accurately set out, this means when remove the formwork all surfaces should be smooth and NO NEED TO BE PLASTERED, so that the resulting concrete product is in a right place and is of correct shape and size, as per standard and specifications. <b>N.B.</b> The structure should be kept moist and protect from the sun for at least 10 days.	m <sup>3</sup>	64.43		-
8.2	Construction of 15 numbers of trapezoid shape reinforced concrete braces under the projection of the slab of 25cm thick with top width of 73cm and bottom width of 40cm and 30cm height reinforced with iron bars of diameter Ø16 and staffs of diameter 8mm.	m <sup>3</sup>	0.64		-
<b>Sub-total - 8</b>					-
<b>9</b>	<b>Flooring</b>				
9.1	Construction of 60cm x 60cm non slippery ceramic floor tiles for all pavement of the building laid and jointed with cement sand mortar of 1:2 mixing. Note that the price is included the floor hall, toilets and screening room	m <sup>2</sup>	283.03		-
9.2	Construction of 60cm x 10cm ceramic skirting tiles for all bottom edge of the walls of the building laid and jointed with cement sand mortar of 1:2 mixing. Note that the price is included the skirting tiles of the corridor.	m	84.10		-
9.3	Construction of 60cm x 60cm non slippery local made terrazzo floor on the top surfaces of ramps and step access of the building. The terrazzo should be divided by PVC or steel boundary edges with light green color. Note that the proportion of cement sand must be 1:2 mixing.	Item	1.00		-
9.4	Construction of ceramic floor marble tiles on the trade and rise of the steps South side of the building. The marble must be laid and jointed with cement sand mortar of 1:2 mixing. The sample of the marble has to be got approved from site engineer before fixing. <b>N.B.</b> Note that the given area is only the trades of staircase of 30cmx120cm, but the bidder should include his/her prices the budget of the rises of 15cmx120cm	m <sup>2</sup>	4.32		-
9.5	Construction of 140cm width along external edges of the building with floor paving made by cement sand interlocking with all required fitting and fixer such as retaining wall of cement blocks to external edges, aggregate powder to lay the floor before fixing the paving etc. Also, the price should be added construction of retaining wall made by cement blocks laid and jointed with cement sand mortar of 1:6 mixing with adequate foundation wall of at least 40cm underground.	m <sup>2</sup>	87.92		-
<b>Sub-total - 9</b>					-

<b>10</b>	<b>Plastering and other decoration works</b>				
10.1	Apply of first coat on 30mm thick plastering of cement sand mortar of 1:6 mixing ratio for all external new constructed stone wall surfaces	m <sup>2</sup>	35.09		-
10.2	Apply 20mm thick on internal external plastering with cement sand mortar of 1:5 mixing ratio for all new constructed wall surfaces including stone walls.	m <sup>2</sup>	674.46		-
10.3	Apply on 10mm thick rough cast plastering of cement sand mortar of 1:2 mixing ratio on external 1,200mm bottom part of the windows sills of wall surfaces including the first floor. Note that the wall should be market by blocks of 52cmx26cm with lines approximately 1cm wide.	m <sup>2</sup>	70.19		-
10.4	Construction of 270cm height ceramic wall tiles for all walls of the toilets laid and jointed with cement sand mortar of 1:2 mixing	m <sup>2</sup>	110.16		-
10.5	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the under ceiling with external projection of under ceiling of the slab.	m <sup>2</sup>	831.98		-
10.6	Apply two coats of light-yellow distemper inside and outside of building walls and white distemper on under ceiling	m <sup>2</sup>	831.98		-
10.7	Apply two coats of light grey distemper paint on the rough casted surfaces at external walls of building.	m <sup>2</sup>	70.19		-
	<b>Sub-total - 10</b>				-
<b>11</b>	<b>Electricity</b>				
	<b>INTERIOR ELECTRICAL SERVICES</b>				
	<b>Lighting</b>				
11.1	<b>Type F1:</b> 1200mm 1x18w Surface Mounted LED light fitting with CAT 2 Louvered with maximum unified glare of 19 and with LED lamp as "Thomson" LED (1x1750LM MIN) The lamp shall have a minimum of 30,000 hours lifetime; and with 50000 times switching cycles. The color temperature shall be 3000 - 7000K and luminous flux of 1500 - 1700 lumens.	Item	44.00		-
11.2	<b>Type F1E:</b> Ditto as Type F1 above but emergency version of 3hour duration	Item	24.00		-
11.3	<b>Type E-</b> 21w IP44 die-cast aluminum light fitting with clear diffuser and complete with lamp as massive Sussex CAT 81657/01/30	Item	4.00		-
11.4	<b>Type 4</b> - 8.5w IP54 LED spherical ball light fitting complete with LED lamps for toilets	Item	6.00		-
11.5	<b>Type EXIT:</b> 8W, Non-maintained illuminated emergency exits light sign luminaire with white steel body. Emergency lighting of 3-hour duration	Item	6.00		-
	<b>Sub-total - 11</b>				-
<b>12</b>	<b>Light Switches</b>				
12.1	Supply, install and connect following 10A lighting switches on recessed switchboxes wired in 1.5 sq.mm PVC single core copper cables enclosed in concealed HG PVC conduits complete with all necessary accessories:				
12.2	1 gang 1 way	Item	8.00		-
12.3	1 gang 2 ways	Item	5.00		-
12.4	2 gangs 2 ways	Item	5.00		-
12.5	3 gangs 1 way	Item	1.00		-
12.6	Intermediate switch	Item	1.00		-
	<b>Sub-total - 12</b>				-

<b>13</b>	<b><u>Power sockets, Isolators and DP Switches</u></b>				
13.1	<u>Supply, install, test and commission the following power sockets as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
13.2	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved (5numbers for each room of 6.2mx3.68m). Note that the sockets must be fixed at least 60cm from the pavement level.	Item	42.00		-
13.3	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved for the Wi-Fi at the corridor of the building. Note that the sockets must be fixed at least 60cm from the bottom level of concrete slab.	Item	4.00		-
13.4	Supply, install and connect 15A un-switched DP outlet plate with fuse connector and neon indicator for Fire Alarm Panel power supply and marked "FACP"	Item	2.00		-
13.5	Supply, install and connect 30A switched TPN industrial isolator outlet plate with connector Split Air Conditioning Units power supply and marked "AIR CONDITIONER" respectively	Item	24.00		-
	<b>Sub-total - 13</b>				-
<b>14</b>	<b><u>Cables, Cable pathways and Conduits</u></b>				
14.1	<u>Supply, install, test and commission 450/750 volts 6491X cables with all required accessories for proper installation and operation including conduits, pipes (each cable in separate conduit or pipe), cable lugs, ties... etc. as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
14.2	Supply, install and connect complete 3x1.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	80.00		-
14.3	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	4.00		-
14.4	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to socket power points drawn in ring and within Concealed /surface 25mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	42.00		-
14.5	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to Fire Alarm Panel power points drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	2.00		-
14.6	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables for Split Air Conditioning Units power supply drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	24.00		-
14.7	Supply and install 4C, 50sq.mm XLPE/SWA /PVC Copper Cable from generator at West side of main entrance gate DB to new building DB' complete with cable lugs and cable glands	m	200.00		-
14.8	Excavate trench for XLPE/SWA /PVC Copper Cable not exceeding 300 mm and average 500 mm deep, part return, fill in, ram the ground (Final ground finish with direction of site engineer)	m	170.00		-
14.9	<b>Electrical ducts and manholes</b>				-

14.10	Supply and install the following uPVC ducts at 600mm below ground level. Rate to be inclusive of trenching at 600mm below ground level, back filling of trenches, and laying of "DANGER" cable tiling, reinstatement and making of good of ground as per directed by the site engineer:				-
14.11	a) 2x100mm uPVC duct	m	170.00		-
14.12	Construct 600mm x 600mm x 600mm deep [internal dimensions] reinforced concrete power manhole complete with heavy duty cast iron cover	Item	8.00		-
<b>Sub-total - 14</b>					-
<b>15</b>	<b><u>Distribution Boards</u></b>				
15.1	<u>Supply, install, connect, testing and commission the following final distribution boards, distribution terminal blocks according to drawings, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				
15.2	Supply, install, connect-up complete 250 Amp 4-way TP/N main Distribution Board as Merlin Gerin or equal and approved for normal power supply, for main DB (UNSOM main switch board at back side of the building) complete with integral isolator, and 3 No 63 Amps MCCBs as specified	Item	1.00		-
15.3	Supply, install, connect-up complete 100 Amp 6way TP/N MCB Distribution Board as Merlin Gerin or equal and approved for normal power supply, for ground floor complete with integral isolator as specified	Item	1.00		-
15.4	Supply, install, and connect 100Amp, 4-way SP/N Consumer unit, as Merlin Gerin or approved equivalent, as shown on schematic wiring drawing for lightings load only	Item	1.00		-
15.5	<u>Supply, install, test and commission miniature circuit breakers (MCBs) rated at 500Vac for above items with 10KA short circuit current according to schematics, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				-
15.6	10A (TP)- 30mA	Item	1.00		-
15.7	30A (TP)- 30mA	Item	25.00		-
15.8	10A (SPN)- 30mA	Item	1.00		-
15.9	Blanking plates for items above (TP)	Item	1.00		-
15.10	Blanking plates for items above (SP)	Item	1.00		-
<b>Sub-total - 15</b>					-
<b>16</b>	<b><u>Earthling</u></b>				
16.1	Supply, install, test and commission Copper earthling mat for electrical system of 1200mmx1200mm dimensions constructed of 25mm x 3mm copper tape laid 1000mm deep in ground and complete with 10sq.mm earth lead cable for earthling in Masonry earth pit and with concrete removable cover marked "EARTH"	Lumpsum	1.00		-
16.2	Allow for testing and commissioning Electrical Installations	Lumpsum	1.00		-
16.3	<b>FIRE DETECTION AND ALARM SYSTEM</b>				-
16.4	Supply and install 1.5mm sq. fire rated copper cable for Smoke detector outlet as per layouts	Item	12.00		-
16.5	Supply and install 1.5mm sq. fire rated copper cable for Sounder outlet per layouts	Item	5.00		-
16.6	Supply and install 1.5mm sq. fire rated copper cable for Call point fire break glass unit outlet per layouts	Item	4.00		-

16.7	Supply and install complete 4-zone conventional fire alarm panel as Menvier MF9304 or equivalent by HF Fire but approved by engineer as per the specifications	Item	1.00		-
16.8	Supply and install conventional surface mounted Call point fire break glass unit as Menvier MBG914 or similar but approved complete with conduit and wiring as shown on the drawings	Item	4.00		-
16.9	Supply and install conventional optical Smoke Detector / Sensors unit as Menvier MID810 or similar but approved complete with conduit and wiring as shown on the drawings	Item	12.00		-
16.10	Supply and install 93 mm diameter conventional electronic sounder as Menvier MWS424SB or similar but approved complete with wiring	Item	5.00		-
16.11	Allow for programming by THE SPECIALIST SUPPLIER of the Fire Detection and Alarm System	Lumpsum	1.00		-
16.12	Allow for TRAINING of Client personnel on the fire detection and alarm system operations	Lumpsum	1.00		-
16.13	Allow for testing and commissioning of the fire detection and alarm system	Lumpsum	1.00		-
	<b>Sub-total - 16</b>				-
<b>17</b>	<b>Air-conditions</b>				
17.1	Provide and connection of 18,000BTU split air conditions with all required fitting and fixer	Item	26.00		-
17.2	Provide and connection of 12,000BTU split air conditions with all required fitting and fixer	Item	1.00		-
	<b>Sub-total - 17</b>				-
<b>18</b>	<b>Doors, windows, protection bars and grab rails</b>				
18.1	Provide and fix 215cm height and 180cm width steel of Singapore model design complete with all necessary fittings, fixtures, handles and locks. The rate shall include all fittings, fixtures, painting and varnishing complete. The sample of the door has to be got approved from site engineer.	Item	1		-
18.2	Provide and fix 350cm height and 280cm width steel of Singapore model design complete with all necessary fittings, fixtures, handles and locks. The rate shall include all fittings, fixtures, painting and varnishing complete. The sample of the door has to be got approved from site engineer.	Item	1		-
18.3	For second main gate: Supply and fix 350cm height, 280cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery including self-closure device. The sample of the door has to be got approved from site engineer.	Item	1		-
18.4	For screening and hall: Supply and fix 215cm height, 90cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery including self-closure device. The sample of the door has to be got approved from site engineer.	Item	6		-
18.5	For toilets: Supply and fix 210cm height, 80cm width exported hardwood timber of Singapore model complete with all fitting and fixer. The sample of the door has to be got approved from site engineer.	Item	4		-

18.6	For safe room: Provide and fix 220cm height, 90cm width and with 6.5mm thick ballistic steel panel door framed with UPN-80mm x 40mm x 3mm thick and external door frame of angle iron of 100mm x 100mm x 5mm thick. The door should have very strong hinges made with GI pipes of diameter Ø 40mm and iron bars of diameter Ø 20mm welded nicely to the edge of angle iron of external frame and the UPN. The price will be included fabrication of the door with all required fittings such as lock, hinges, handle etc. as well as three coats of anti-rust paint on internal and external door surfaces including the frame.	Item	1		-
18.7	Provide and fix new double wings PVC framed windows of 150cm width and 120cm height with 6mm thick ordinary glasses and good quality nylon netting including all fittings, fixtures like hinges, handle, lock with very strong fisher and screws for fixing to the walls etc. The sample of the windows must be got approved from site engineer. <b>N.B.</b> Note that the ordinary glasses should be covered by not less than 6µ thick blast resistant films (BRF) with all required fitting and fixer such as adhesive sealing rubber etc.	m²	16.2		-
18.8	Ditto for toilets of 80cm height and 60cm width	m²	1.92		-
18.9	Provide and fix 150cm x 120cm new protection steel flowered decorated model windows bars made by angle iron frame of 20x20x3mm with another frame made by flat iron @ 200mm both ways. Finally provide and fix inside of every square by flowers of flat iron 10mmx2mm with all required fitting, fixer and two coats of antirust paint (See attached detail drawings).	m²	16.2		-
18.10	Ditto for toilets of 80cm height and 60cm width	m²	1.92		-
18.11	Provide and fix at least 100cm height stain less steel handrail made with pipes of external diameter not less than 5cm fixed one side and landing of external steps of the screening room door and standing poles mounting at distance of approximately not less than 65cm c/c. <b>N.B.</b> The grab rail shall be capable of carrying a static load of 150 kg.	m	3.15		-
18.12	Provide and fix one grab rail fixed on each of both the inner and outer surfaces of the cubicle door; which shall not be less than 32 mm and not more than 40 mm in external diameter. The grab rail shall have a grip space of not less than 30 mm clear of each door surface.	Item	2		-
18.13	Provide and fix one folding grab rail on the wide side of the cubicle adjacent to the water-closet (W.C) at a height between 725mm to 750mm above the finished floor level when lowered from the wall. <b>N.B.</b> The folding grab rail shall be capable of carrying a static load of 150 kg.	Item	1		-
18.14	Provide and fix at least two grab rails which shall not be less than 32 mm and not more than 40 mm in external diameter and shall be fixed on the wall leaving a grip space of not less than 30 mm clear of the mounting wall. The two grab rails constructed in one continuous piece is acceptable. The length of grab rail shall not be less than 600 mm. <b>N.B.</b> The grab rail shall be capable of carrying a static load of 150 kg.	Item	2		-
<b>Sub-total - 18</b>					-
<b>19</b>	<b>Sanitary system</b>				
19.1	Supply and fix one set of European flash complete (WC, hand wash, shower with plate etc.) with all required accessory such as mirror, toilet paper holder, towel holder, soap holder etc.	Item	4		-
<b>Sub-total - 19</b>					-
<b>20</b>	<b>Connection and manhole construction &amp; misc. items</b>				

20.1	Construction of 1.0mx1.0 masonry cement blocks manholes laid by cement sand mortar of 1:4 with connection PVC pipes of Ø150mm diameter. The item includes all necessary excavation, cement block masonry, cover slab (1:2:4) with nominal reinforcement, plastering and finishing etc. complete as per UNDP engineer's satisfaction.	Item	10		-
20.2	Provide and fix all required plumbing material such as height pressure PVC of diameter Ø 1½" feeder pipes from nearest available water source near of the compound, with all required fittings (Elbows, T-joints, regulator valves etc.). The price should include excavation of trench and fixing	Item	1		-
	<b>Sub-total - 20</b>				-
<b>21</b>	<b>Over roof</b>				
21.1	Construction of medium 6cm (10cm and 2cm to the two edges) thick 1:4 cement sand mortar with adequate slope to the direction of points where is PVC for rain water collections	m³	19.75		-
21.2	Provide and cover with tarmac paper for 1m². This activity consists: a. Cleaning the surfaces; b. applying two coats of primer Emulsion (MW) paint; c. Providing of first quality green colored tarmac paper with fine aggregate on top; d. burning of tarmac paper by special equipment designed to burn.	m²	329.09		-
21.3	Provide and fix PVC of diameter Ø 11cm to 4 points where is recommended the site Engineer probably attached to reinforced concrete columns for surrounding walls of the building	Item	8		-
21.4	Construction of masonry cement blocks of 90cm height top crown parapet wall. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio	m²	68.90		-
21.5	Construction of 10cm thick and 20cm wide RC coping beam on top of crown parapet wall. The beam should be 1:2:4 mixing ratio with # 4 Y10 and staffs of 6mm@ 250mm/cc	m²	1.53		-
21.6	Construction of masonry cement blocks wall of 90cm height 40cm x 40cm wide to cover the iron bars on top of slab roof. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that the price should be included supplying of fixing to the iron bars by 6 pieces PVC pipes of diameter 3cm and 10cm height.	Item	21.00		-
21.7	Apply on 20mm thick internal external plastering of cement sand mortar of 1:5 mixing ratio for all new constructed surfaces crown parapet walls.	m²	168.43		-
21.8	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the protection iron bars of columns over the slab roof.	m²	198.67		-
21.9	Apply two coats of light-yellow distemper inside and outside of building wall surfaces including the protection iron bars of columns over the slab roof and with white light grey on external edges of coping beam.	m²	198.67		-
	<b>Subtotal - 21</b>				-
	<b>Total for Data collection block of new NIEC building near of MIA</b>				-
<b>S.n.</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Rate in \$</b>	<b>Amount in \$</b>
<b>E.</b>	<b>Construction of one open space server room and safe haven</b>				
<b>22</b>	<b>Substructure works</b>				
	<b>Excavation and Earthwork (Provisional)</b>				

20.1	Excavation of soft soil for foundation trenches of 60cm wide and 130cm depth starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be dumped at least 2km away from the site as per directed by UNDP engineers.	m <sup>3</sup>	83.83		-
20.2	Ditto for foundation wall at the staircase side of 60cm wide and 221cm depth.	m <sup>3</sup>	14.85		-
20.3	Ditto for 20 columns footings of 120cmx120cmx175cm depth.	m <sup>3</sup>	50.40		-
20.4	Ditto for 4 columns footings of 120cmx120cmx266cm depth.	m <sup>3</sup>	15.32		-
	<b><i>Selected filling</i></b>				-
21.1	Provide and compact 34cm height first layer with approved marram or other approved backfilling materials over the existing floor of whole building including the toilets inside the safe haven and server room of the building.	m <sup>3</sup>	81.71		-
21.2	Provide and compact 30cm height hardcore layer with approved materials over the existing floor of whole building including the toilets of safe haven and server room of the building	m <sup>3</sup>	72.09		-
	<b><i>Anti-termite treatment</i></b>				-
21.3	Provide and apply on the upper surfaces of hardcore layer a chemical spry or powder anti-termite treatment as "Premise 200 SC" or other equal and approved anti insecticide materials.	m <sup>2</sup>	240.31		-
	<b><i>Damp proof membrane</i></b>				-
21.4	Provide and lay 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	240.31		-
	<b><i>Concrete work in substructure</i></b>				-
20.5	Construction of 5cm thick and 60cm wide Plain cement concrete of class 15 (1:3:6 mixing) under the foundation walls of the building.	m <sup>3</sup>	3.56		-
20.6	Ditto for internal subdivision wall of the toilets of safe haven and server room of 40cm wide and 5cm thick.	m <sup>3</sup>	0.14		-
20.7	Ditto for 24 columns footing of 120cmx120cmx5cm depth.	m <sup>3</sup>	1.73		-
	<b><i>Foundation Walling</i></b>				-
20.8	Construction of 40cm wide and 179cm height (125cm underground and 54cm above ground) foundation wall made by rubble stone jointed and connected by cement sand mortar of mixing ratio 1:6	m <sup>3</sup>	99.29		-
20.9	Ditto for foundation wall at the staircase side of 40cm wide and 211cm depth.	m <sup>3</sup>	11.48		-
20.10	Ditto for internal subdivision wall of the toilets of safe haven and server rooms of 40cm wide and 54cm height.	m <sup>3</sup>	1.51		-
	<b>Subtotal - 22</b>				-
<b>23</b>	<b>Super structure works</b>				
	<b><i>Plain and reinforced concrete works</i></b>				
23.1	Construct 120cmx120cmx40cm reinforced concrete of 1:2:4 mixing ratio for footing of the columns with 9 numbers of Y16 both ways.	m <sup>3</sup>	13.82		-
23.2	Ditto for 20 columns neck of 40cm x40cm and 204cm height with 10 numbers of Y 16mm	m <sup>3</sup>	6.53		-
23.3	Ditto for 4 columns neck of 40cm x40cm and 236cm height with 10 numbers of Y 16mm	m <sup>3</sup>	1.51		-



23.4	Construct 40cm wide, 20cm thick of reinforced concrete beam of 1:2:4 mixing ratio with # 8 Y16 and staffs of 8mm@ 250mm/cc over foundation wall including the toilets	m <sup>3</sup>	12.74		-
23.5	Provide and fix 8cm ventilations inside sefe room, using 10cm dia of PVC pipe inside walls and roof, including fixing fo small funs at top of pipe outside. As per UNDP instructions	No. s	6		
23.6	Laying 7cm thick plain cement concrete of 1:3:6 mixing ratio over newly constructed hardcore layer with proper finish.	m <sup>3</sup>	16.82		-
23.7	Construction of 1:2:4 reinforced concrete wall of 20cm thick for the safe-haven (Banker). The wall must be reinforced with two line of nets made by iron bars of diameter Ø 12 for main at horizontal direction and vertical for 10mm reinforcement bars @ 15cm c/c both ways. Note that wall should be protected from the sun and kept moist for at least 10 days.	m <sup>3</sup>	127.47		-
23.8	Construct 24 pieces of 40cm x 40cm reinforced concrete columns of 315cm height of the building. The concrete must be 1:2:4 mixing ratio and reinforced with No. 8 Y16 and staffs of Ø 8mm @250mm c/c. <b>N.B.</b> Note that the columns should be protected from sun and kept moist for at least 10 days.	m <sup>3</sup>	12.10		-
23.9	Construct 20cm wide, 15cm thick of reinforced concrete 2.2m level beam of 1:2:4 mixing ratio with # 6 Y14 and staffs of 6mm@ 250mm/cc. This is for all constructed walls including toilet of safe haven and server rooms.	m <sup>3</sup>	3.90		-
23.10	Construction of reinforced concrete corbel on external top edges of windows. The corbel must be constructed in three steps of 5cm height each with the top layer of 250cmx 70cm, where the second layer is 240cm x 65cm and the last layer at the bottom is 226cmx60cm, with two supporting braces (see detail drawings). The concrete should be mixed by 1:2:4 and reinforced with iron bars of diameter Ø12mm and Ø 10mm	m <sup>3</sup>	1.48		-
23.11	Construct of 180 cm x 30 cm x 5cm reinforced concrete window sills at bottom edge windows for offices and toilets. The concrete should be mixed by 1:2:4 with # 3 Y12 and staffs of 8 mm @ 200mm/cc	m <sup>3</sup>	0.16		-
23.12	Construction of reinforced concrete 1:2:4 mixing ratio loaded beam of 30cm width and 70cm height (20cm inside of the slab and 50cm outside). The concrete should be reinforced with 6 pieces of straight bars diameter Ø 16mm (2 on top and 4 at the bottom), 2 pieces of bended bars diameter Ø 16mm and 2 reinforcement bars of diameter Ø 16mm of 300cm length on top of the columns. All these bars should be united by staffs of 8mm@ 250mm/cc. <b>N.B.</b> Note that the calculated quantities volume is only the lowest part of the beams (50cmx30cm) as the top part is inside of the slab and will considered part of the slab structure.	m <sup>3</sup>	18.24		-
23.13	Construction of reinforced concrete 1:2:4 mixing ratio final beam (Not loaded) of 20cm width and 35cm height (15cm inside of the slab and 20cm outside). The concrete should be reinforced with 6 pieces of bars diameter Ø 16mm with staffs of iron bars of 8mm@ 250mm/cc	m <sup>3</sup>	3.21		-
<b>Subtotal - 23</b>					-
<b>24</b>	<b>Construction of steps access</b>				
24.1	Construction of internal external steps of 30cm trade and 15cm rise made by rubble stone jointed and connected with cement sand mortar of 1:6, with 10cm plain cement concrete of 1:2:4 on top of stone base	Item	4.00		-

	<b>Subtotal - 24</b>				-
<b>25</b>	<b>Construction of concrete blocks</b>				
25.1	Construction 280cm height walls of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	164.57		-
25.2	Ditto for the subdivision wall of toilets of the two safe haven and server room walls of 285cm height. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	17.73		-
	<b>Subtotal - 25</b>				-
<b>26</b>	<b>R.C roofing</b>				
26.1	R.C (1:2:4 Mixing ratio) slab cover of 20cm thick with Ø 12mm main bars and 10mm distribution bars both ways at top and bottom and distanced 15cm c/c .Formwork must be accurately set out, this means when remove the formwork all surfaces should be smooth and NO NEED TO BE PLASTERED, so that the resulting concrete product is in a right place and is of correct shape and size. <b>N.B.</b> The structure should be kept moist and protect from the sun for at least 10 days.	m <sup>3</sup>	65.50		-
26.2	Construction of 12 numbers of trapezoid shape reinforced concrete braces under the projection of the slab of 25cm thick with top width of 73cm and bottom width of 40cm and 30cm height reinforced with iron bars of diameter Ø16 and staffs of diameter 8mm.	m <sup>3</sup>	0.51		-
	<b>Subtotal - 26</b>				-
<b>27</b>	<b>Flooring</b>				
27.1	Construction of 60cm x 60cm non slippery ceramic floor tiles for all pavement of the building laid and jointed with cement sand mortar of 1:2 mixing. Note that the price is included the floor hall, toilets, safe haven and server room	m <sup>2</sup>	277.67		-
27.2	Construction of 60cm x 10cm ceramic skirting tiles for all bottom edge of the walls of the building laid and jointed with cement sand mortar of 1:2 mixing. Note that the price is included the skirting of safe haven, server room and the corridor.	m	161.42		-
27.3	Construction of 60cm x 60cm non slippery local made terrazzo floor on the top surfaces of two step access outside of the building. The terrazzo should be divided by PVC or steel boundary edges with light green color. Note that the proportion of cement sand must be 1:2 mixing.	Item	1.00		-
27.4	Construction of ceramic floor marble tiles on the trade and rise of the two steps inside of the building corridor. The marble must be laid and jointed with cement sand mortar of 1:2 mixing. The sample of the marble has to be got approved from site engineer before fixing. <b>N.B.</b> Note that the given area is only the trades of staircase of 30cmx120cm, but the bidder should include his/her prices the budget of the rises of 15cmx120cm	m <sup>2</sup>	4.5		-

27.5	Construction of 140cm width along external edges of the building with floor paving made by cement sand interlocking with all required fitting and fixer such as retaining wall of cement blocks to external edges, aggregate powder to lay the floor before fixing the paving etc. Also, the price should be added construction of retaining wall made by cement blocks laid and jointed with cement sand mortar of 1:6 mixing with adequate foundation wall of at least 40cm underground.	m <sup>2</sup>	56.196		-
	<b>Subtotal - 27</b>				-
<b>28</b>	<b>Plastering and other decoration works</b>				
28.1	Apply of first coat on 30mm thick plastering of cement sand mortar of 1:6 mixing ratio for all external new constructed stone wall surfaces	m <sup>2</sup>	24.08		-
28.2	Apply 20mm thick on internal external plastering with cement sand mortar of 1:5 mixing ratio for all new constructed wall surfaces including stone walls.	m <sup>2</sup>	686.50		-
28.3	Apply on 10mm thick rough cast plastering of cement sand mortar of 1:2 mixing ratio on external 1,200mm bottom part of the windows sills of wall surfaces including the first floor. Note that the wall should be market by blocks of 52cmx26cm with lines approximately 1cm wide.	m <sup>2</sup>	48.17		-
28.4	Construction of 270cm height ceramic wall tiles for all walls of the toilets laid and jointed with cement sand mortar of 1:2 mixing	m <sup>2</sup>	34.44		-
28.5	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the under ceiling with external projection of under ceiling of the slab.	m <sup>2</sup>	931.37		-
28.6	Apply two coats of light-yellow distemper inside and outside of building walls and white distemper on under ceiling	m <sup>2</sup>	931.37		-
28.7	Apply two coats of light grey distemper paint on the rough casted surfaces at external walls of building.	m <sup>2</sup>	48.17		-
	<b>Subtotal - 28</b>				-
<b>29</b>	<b>Electricity</b>				
	<b>INTERIOR ELECTRICAL SERVICES</b>				
	<b>Lighting</b>				
29.1	<b>Type F1:</b> 1200mm 1x18w Surface Mounted LED light fitting with CAT 2 Louvered with maximum unified glare of 19 and with LED lamp as "Thomson" LED (1x1750LM MIN) The lamp shall have a minimum of 30,000 hours lifetime; and with 50000 times switching cycles. The color temperature shall be 3000 - 7000K and luminous flux of 1500 - 1700 lumens.	Item	40.00		-
29.2	<b>Type F1E:</b> Ditto as Type F1 above but emergency version of 3hour duration	Item	20.00		-
29.3	<b>Type E-</b> 21w IP44 die-cast aluminum light fitting with clear diffuser and complete with lamp as massive Sussex CAT 81657/01/30	Item	4.00		-
29.4	<b>Type 4</b> - 8.5w IP54 LED spherical ball light fitting complete with LED lamps for toilets	Item	2.00		-
29.5	<b>Type EXIT:</b> 8W, Non-maintained illuminated emergency exit light sign luminaire with white steel body. Emergency lighting of 3-hour duration	Item	2.00		-
	<b>Subtotal - 29</b>				-
<b>30</b>	<b>Light Switches</b>				

30.1	Supply, install and connect following 10A lighting switches on recessed switchboxes wired in 1.5 sq.mm PVC single core copper cables enclosed in concealed HG PVC conduits complete with all necessary accessories:				
30.2	1 gang 1 way	Item	8.00		-
30.3	1 gang 2 ways	Item	3.00		-
30.4	2 gangs 2 ways	Item	2.00		-
30.5	3 gangs 1 way	Item	1.00		-
30.6	Intermediate switch	Item	1.00		-
	<b>Subtotal - 30</b>				-
<b>31</b>	<b><u>Power sockets, Isolators and DP Switches</u></b>				
31.1	<u>Supply, install, test and commission the following power sockets as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
31.2	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved (5numbers for each room of 6.2mx3.68m). Note that the sockets must be fixed at least 60cm from the pavement level.	Item	42.00		-
31.3	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved for the Wi-Fi at the corridor of the building. Note that the sockets must be fixed at least 60cm from the bottom level of concrete slab.	Item	6.00		-
31.4	Supply, install and connect 15A un-switched DP outlet plate with fuse connector and neon indicator for Fire Alarm Panel power supply and marked "FACP"	Item	2.00		-
31.5	Supply, install and connect 30A switched TPN industrial isolator outlet plate with connector Split Air Conditioning Units power supply and marked "AIR CONDITIONER" respectively	Item	10.00		-
	<b>Subtotal - 31</b>				-
<b>32</b>	<b><u>Cables, Cable pathways and Conduits</u></b>				
32.1	<u>Supply, install, test and commission 450/750 volts 6491X cables with all required accessories for proper installation and operation including conduits, pipes (each cable in separate conduit or pipe), cable lugs, ties... etc. as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
32.2	Supply, install and connect complete 3x1.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	64.00		-
32.3	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	4.00		-
32.4	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to socket power points drawn in ring and within Concealed /surface 25mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	42.00		-

32.5	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to Fire Alarm Panel power points drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	2.00		-
32.6	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables for Split Air Conditioning Units power supply drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	10.00		-
32.7	Supply and install 4C, 50sq.mm XLPE/SWA /PVC Copper Cable from generator at West side of main entrance gate DB to new building DB' complete with cable lugs and cable glands	m	200.00		-
32.8	Excavate trench for XLPE/SWA /PVC Copper Cable not exceeding 300 mm and average 500 mm deep, part return, fill in, ram the ground (Final ground finish with direction of site engineer)	m	170.00		-
32.9	<b>Electrical ducts and manholes</b>				-
32.10	Supply and install the following uPVC ducts at 600mm below ground level. Rate to be inclusive of trenching at 600mm below ground level, back filling of trenches, and laying of "DANGER" cable tiling, reinstatement and making of good of ground as per directed by the site engineer:				-
32.11	a) 2x100mm uPVC duct	m	170.00		-
32.12	Construct 600mm x 600mm x 600mm deep [internal dimensions] reinforced concrete power manhole completes with heavy duty cast iron cover	Item	8.00		-
<b>Subtotal - 32</b>					-
<b>33</b>	<b><u>Distribution Boards</u></b>				
33.1	<u>Supply, install, connect, testing and commission the following final distribution boards, distribution terminal blocks according to drawings, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				
33.2	Supply, install, connect-up complete 250 Amp 4-way TP/N main Distribution Board as Merlin Gerin or equal and approved for normal power supply, for main DB (UNSOM main switch board at back side of the building) complete with integral isolator, and 3. No 63 Amps MCCBs as specified	Item	1.00		-
33.3	Supply, install, connect-up complete 100 Amp 6way TP/N MCB Distribution Board as Merlin Gerin or equal and approved for normal power supply, for ground floor complete with integral isolator as specified	Item	1.00		-
33.4	Supply, install, and connect 100Amp, 4 way SP/N Consumer unit, as Merlin Gerin or approved equivalent, as shown on schematic wiring drawing for lightings load only	Item	1.00		-
33.5	<u>Supply, install, test and commission miniature circuit breakers (MCBs) rated at 500Vac for above items with 10KA short circuit current according to schematics, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				-
33.6	10A (TP)- 30mA	Item	1.00		-
33.7	30A (TP)- 30mA	Item	12.00		-
33.8	10A (SPN)- 30mA	Item	1.00		-

33.9	Blanking plates for items above (TP)	Item	1.00		-
33.10	Blanking plates for items above (SP)	Item	1.00		-
	<b>Subtotal - 33</b>				-
<b>34</b>	<b><u>Earthling</u></b>				
34.1	Supply, install, test and commission Copper earthling mat for electrical system of 1200mmx1200mm dimensions constructed of 25mm x 3mm copper tape laid 1000mm deep in ground and complete with 10sq.mm earth lead cable for earthling in Masonry earth pit and with concrete removable cover marked "EARTH"	Lump Sump	1.00		-
34.2	Allow for testing and commissioning Electrical Installations	Lump Sump	1.00		-
34.3	<b>FIRE DETECTION AND ALARM SYSTEM</b>				-
34.4	Supply and install 1.5mm sq. fire rated copper cable for Smoke detector outlet as per layouts	Item	12.00		-
34.5	Supply and install 1.5mm sq. fire rated copper cable for Sounder outlet per layouts	Item	3.00		-
34.6	Supply and install 1.5mm sq. fire rated copper cable for Call point fire break glass unit outlet per layouts	Item	4.00		-
34.7	Supply and install complete 4-zone conventional fire alarm panel as Menvier MF9304 or equivalent by HF Fire but approved by engineer as per the specifications	Item	1.00		-
34.8	Supply and install conventional surface mounted Call point fire break glass unit as menvier MBG914 or similar but approved complete with conduit and wiring as shown on the drawings	Item	4.00		-
34.9	Supply and install conventional optical Smoke Detector / Sensors unit as Menvier MID810 or similar but approved complete with conduit and wiring a shown on the drawings	Item	12.00		-
34.10	Supply and install 93 mm diameter conventional electronic sounder as Menvier MWS424SB or similar but approved complete with wiring	Item	3.00		-
34.11	Allow for programming by THE SPECIALIST SUPPLIER of the Fire Detection and Alarm System	Lumpsum	1.00		-
34.12	Allow for TRAINING of Client personnel on the fire detection and alarm system operations	Lumpsum	1.00		-
34.13	Allow for testing and commissioning of the fire detection and alarm system	Lumpsum	1.00		-
	<b>Subtotal - 34</b>				-
<b>35</b>	<b>Air-conditions</b>				
35.1	Provide and connection of 18,000BTU split air conditions with all required fitting and fixer	Item	12.00		-
	<b>Subtotal - 35</b>				-
<b>36</b>	<b>Doors, windows, protection bars and grab rails</b>				
36.1	For server room and hall: Supply and fix 215cm height, 90cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery including self-closure device. The sample of the door has to be got approved from site engineer.	Item	4		-

36.2	For toilets: Supply and fix 210cm height, 80cm width exported hardwood timber of Singapore model complete with all fitting and fixer. The sample of the door has to be got approved from site engineer.	Item	2		-
36.3	For safe room: Provide and fix 220cm height, 90cm width and with <b>6.5mm thick ballistic double steel panel plain door</b> framed with UPN-80mm x 40mm x 3mm thick and external door frame of angle iron of 100mm x 100mm x 5mm thick. The door should have very strong hinges made with GI pipes of diameter Ø 40mm and iron bars of diameter Ø 20mm welded nicely to the edge of angle iron of external frame and the UPN. The price will be included fabrication of the door with all required fittings such as lock, hinges, handle etc. as well as three coats of anti-rust paint on internal and external door surfaces including the frame.	Item	4		-
36.4	Provide and fix new double wings PVC framed windows of 150cm width and 120cm height with 6mm thick ordinary glasses and good quality nylon netting including all fittings, fixtures like hinges, handle, lock with very strong fisher and screws for fixing to the walls etc. The sample of the windows must be got approved from site engineer. <b>N.B.</b> Note that the ordinary glasses should be covered by not less than 6µ thick blast resistant films (BRF) with all required fitting and fixer such as adhesive sealing rubber etc.	m²	10.8		-
36.5	Provide and fix 150cm x 120cm new protection steel flowered decorated model windows bars made by angle iron frame of 20x20x3mm with another frame made by flat iron @ 200mm both ways. Finally provide and fix inside of every square by flowers of flat iron 10mmx2mm with all required fitting, fixer and two coats of antirust paint (See attached detail drawings).	m²	10.8		-
36.6	Provide and fix one grab rail fixed on each of both the inner and outer surfaces of the cubicle door; which shall not be less than 32 mm and not more than 40 mm in external diameter. The grab rail shall have a grip space of not less than 30 mm clear of each door surface.	Item	4		-
36.7	Provide and fix one folding grab rail on the wide side of the cubicle adjacent to the water-closet (W.C) at a height between 725mm to 750mm above the finished floor level when lowered from the wall. <b>N.B.</b> The folding grab rail shall be capable of carrying a static load of 150 kg.	Item	2		-
36.8	Provide and fix at least two grab rails which shall not be less than 32 mm and not more than 40 mm in external diameter and shall be fixed on the wall leaving a grip space of not less than 30 mm clear of the mounting wall. The two grab rails constructed in one continuous piece is acceptable. The length of grab rail shall not be less than 600 mm. <b>N.B.</b> The grab rail shall be capable of carrying a static load of 150 kg.	Item	4		-
<b>Subtotal - 36</b>					-
<b>37</b>	<b>Sanitary system</b>				
37.1	Supply and fix one set of European flash complete (WC, hand wash, shower with plate etc.) with all required accessory such as mirror, toilet paper holder, towel holder, soap holder etc.	Item	2		-
<b>Subtotal - 37</b>					
<b>38</b>	<b>Connection and manhole construction &amp; misc. items</b>				

38.1	Construction of 1.0mx1.0 masonry cement blocks manholes laid by cement sand mortar of 1:4 with connection PVC pipes of Ø150mm diameter. The item includes all necessary excavation, cement block masonry, cover slab (1:2:4) with nominal reinforcement, plastering and finishing etc. complete as per UNDP engineer's satisfaction.	Item	10		-
38.2	Provide and fix all required plumbing material such as height pressure PVC of diameter Ø 1½" feeder pipes from nearest available water source near of the compound, with all required fittings (Elbows, T-joints, regulator valves etc.). The price should include excavation of trench and fixing	Item	1		-
38.3	For safe room corridor: Provide and fix 220cm height, 180cm width and with 6.5mm thick ballistic double steel shutter plain sliding door framed with UPN-100mm x 60mm x 5mm thick and external door frame of angle iron of 100mm x 100mm x 6mm thick. The door should have very strong hinges made with GI pipes of diameter Ø 50mm and iron bars of diameter Ø 20mm welded nicely to the edge of angle iron of external frame and the UPN. The price will be included fabrication of the door with all required fittings such as lock, hinges, handle etc. as well as three coats of anti-rust paint on internal and external door surfaces including the frame.	Item	2		-
<b>Subtotal - 38</b>					-
<b>39</b>	<b>Over roof</b>				
39.1	Construction of medium 6cm (10cm and 2cm to the two edges) thick 1:4 cement sand mortar with adequate slope to the direction of points where is PVC for rain water collections	m³	19.65		-
39.2	Provide and cover with tarmac paper for 1m². This activity consists: a. Cleaning the surfaces; b. applying two coats of primer Emulsion (MW) paint; c. Providing of first quality green colored tarmac paper with fine aggregate on top; d. burning of tarmac paper by special equipment designed to burn.	m²	327.48		-
39.3	Provide and fix PVC of diameter Ø 11cm to 4 points where is recommended the site Engineer probably attached to reinforced concrete columns for surrounding walls of the building	Item	6		-
39.4	Construction of masonry cement blocks of 90cm height top crown parapet wall. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio	m²	65.52		-
39.5	Construction of 10cm thick and 20cm wide RC coping beam on top of crown parapet wall. The beam should be 1:2:4 mixing ratio with # 4 Y10 and staffs of 6mm@ 250mm/cc	m²	1.46		-
39.6	Construction of masonry cement blocks wall of 90cm height 40cm x 40cm wide to cover the iron bars on top of slab roof. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that the price should be included supplying of fixing to the iron bars by 6 pieces PVC pipes of diameter 3cm and 10cm height.	Item	24.00		-
39.7	Apply on 20mm thick internal external plastering of cement sand mortar of 1:5 mixing ratio for all new constructed surfaces crown parapet walls.	m²	160.16		-
39.8	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the protection iron bars of columns over the slab roof.	m²	194.72		-



39.9	Apply two coats of light-yellow distemper inside and outside of building wall surfaces including the protection iron bars of columns over the slab roof and with white light grey on external edges of coping beam.	m <sup>2</sup>	194.72		-
<b>Subtotal - 39</b>					-
<b>Total for one open space server room and safe haven of new NIEC building near of MIA</b>					-
S.n.	Description	Unit	QTY	Rate in \$	Amount in \$
<b>F.</b>	<b>Construction of staircase access of the building</b>				
<b>40</b>	<b>Substructure works</b>				
	<i>Excavation and Earthwork (Provisional)</i>				
40.1	Excavation of soft soil for foundation trenches of 60cm wide and 129cm depth starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be dumped at least 2km away from the site as per directed by UNDP engineers.	m <sup>3</sup>	22.07		-
40.2	Ditto for 8 columns footings of 120cmx120cmx174cm depth.	m <sup>3</sup>	20.04		-
	<i>Selected filling</i>				-
40.3	Provide and compact 37cm height first layer with approved marram or other approved backfilling materials over the existing floor of whole building including the toilets inside the safe haven and server room of the building.	m <sup>3</sup>	16.76		-
40.4	Provide and compact 30cm height hardcore layer with approved materials over the existing floor of whole building including the toilets of safe haven and server room of the building	m <sup>3</sup>	13.59		-
	<i>Anti-termite treatment</i>				-
40.5	Provide and apply on the upper surfaces of hardcore layer a chemical spry or powder anti-termite treatment as "Premise 200 SC" or other equal and approved anti insecticide materials.	m <sup>2</sup>	45.29		-
	<i>Damp proof membrane</i>				-
40.6	Provide and lay 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	45.29		-
	<i>Concrete work in substructure</i>				-
40.7	Construction of 5cm thick and 60cm wide Plain cement concrete of class 15 (1:3:6 mixing) under the foundation walls of the building.	m <sup>3</sup>	0.86		-
40.8	Ditto for 8 columns footing of 120cmx120cmx5cm depth.	m <sup>3</sup>	0.58		-
	<i>Foundation Walling</i>				-
40.9	Construction of 40cm wide and 181cm height (124cm underground and 57cm above ground) foundation wall made by rubble stone jointed and connected by cement sand mortar of mixing ratio 1:6	m <sup>3</sup>	19.42		-
<b>Subtotal - 40</b>					-
<b>41</b>	<b>Super structure works</b>				
	<i>Plain and reinforced concrete works</i>				
41.1	Construct 120cmx120cmx40cm reinforced concrete of 1:2:4 mixing ratio for footing of the columns with 9 numbers of Y16 both ways.	m <sup>3</sup>	4.61		-

41.2	Ditto for 8 columns neck of 40cm x40cm and 186cm height with 10 numbers of Y 16mm	m <sup>3</sup>	2.38		-
41.3	Construct 40cm wide, 20cm thick of reinforced concrete beam of 1:2:4 mixing ratio with # 8 Y16 and staffs of 8mm@ 250mm/cc over foundation wall including the toilets	m <sup>3</sup>	3.50		-
41.4	Laying 7cm thick plain cement concrete of 1:3:6 mixing ratio over newly constructed hardcore layer with proper finish.	m <sup>3</sup>	3.17		-
41.5	Construct 8 pieces of 30cm x 40cm reinforced concrete columns of 345cm height of the building. The concrete must be 1:2:4 mixing ratio and reinforced with No. 8 Y16 and staffs of Ø 8mm @250mm c/c. <b>N.B.</b> Note that the columns should be protected from sun and kept moist for at least 10 days.	m <sup>3</sup>	3.31		-
41.6	Construct 20cm wide, 15cm thick of reinforced concrete 2.2m level beam of 1:2:4 mixing ratio with # 6 Y14 and staffs of 6mm@ 250mm/cc. This is for all constructed walls including toilet of safe haven and server rooms.	m <sup>3</sup>	1.31		-
41.7	Construct of 330 cm x 30 cm x 5cm reinforced concrete window sills at bottom edge window of the staircase. The concrete should be mixed by 1:2:4 with # 3 Y12 and staffs of 8 mm @ 200mm/cc	m <sup>3</sup>	0.05		-
41.8	Construction of reinforced concrete 1:2:4 mixing ratio loaded beam of 30cm width and 70cm height (20cm inside of the slab and 50cm outside). The concrete should be reinforced with 6 pieces of straight bars diameter Ø 16mm (2 on top and 4 at the bottom), 2 pieces of bended bars diameter Ø 16mm and 2 reinforcement bars of diameter Ø 16mm of 300cm length on top of the columns. All these bars should be united by staffs of 8mm@ 250mm/cc. <b>N.B.</b> Note that the calculated quantities volume is only the lowest part of the beams (50cmx30cm) as the top part is inside of the slab and will considered part of the slab structure.	m <sup>3</sup>	4.77		-
41.9	Construction of reinforced concrete 1:2:4 mixing ratio final beam (Not loaded) of 20cm width and 35cm height (15cm inside of the slab and 20cm outside). The concrete should be reinforced with 6 pieces of bars diameter Ø 16mm with staffs of iron bars of 8mm@ 250mm/cc	m <sup>3</sup>	0.53		-
<b>Subtotal - 41</b>					-
<b>42</b>	<b>Construction of internal steps access inside of the building</b>				
42.1	Construction of internal external step of 30cm trade and 15cm rise made by rubble stone jointed and connected with cement sand mortar of 1:6, with 10cm plain cement concrete of 1:2:4 on top of stone base				
42.2	Construction of 30cm length, 15cm thick and 200cm length of plain cement concrete of 1:2:4 mixing ratio over the existing ring beam	m <sup>3</sup>	0.09		-
42.3	Construction of exported marble on the steps and rise of the staircase	m <sup>2</sup>	0.90		-
42.4	For the front access steps in the middle of the two ramps: Construction of 206cm wide and 700cm length made by stone laid and jointed with cement sand mortar of 1:6 mixing. After it pour on top with 10cm thick plain cement concrete of 1:2:4 mixing ratio. Note that these steps should be kept moist and protect from the sun for at least 10 days. See the detail drawings for the rise and trades dimensions				-
42.5	<b>External access steps in the middle:</b>				-

42.6	For the front access steps in the middle of the ramp: Construction of 80cm wide and 940cm length made stone laid and jointed with cement sand mortar of 1:6 mixing. After it poured on top by 10cm thick plain cement concrete of 1:2:4 mixing ratio. Note that this ramp should be kept moist and protect from the sun for at least 10 days.				-
42.7	Excavation of soft soil for foundation trenches of the two wing walls of 940cm length, 60cm wide and 60cm depth starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be du	m <sup>3</sup>	6.77		-
42.8	Construction of 5cm thick and 60cm wide PCC of 1:3:6 mixing ratio over the two foundation walls.	m <sup>3</sup>	0.56		-
42.9	Construction of 40cm wide and 55 cm height foundation walling over the PCC	m <sup>3</sup>	4.14		-
42.10	Construction of multi-trapezoid shape of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	10.62		-
42.11	Backfilling materials with marram or other approved materials.	m <sup>3</sup>	4.25		-
42.12	Construction of 940cm length, 80cm wide and 15cm height stone basement made with rubble stone jointed and connected with cement sand mortar of 1:6 ratio.	m <sup>3</sup>	1.128		-
42.13	Construction of 10cm thick of plain cement concrete of 1:2:4 mixing ratio over the trade and rise of steps and landing area	m <sup>3</sup>	0.66		-
42.14	<b><i>For the two access ramps at the front</i></b>				-
42.15	For the two front access ramps: Construction of 164cm wide and 940cm length made stone laid and jointed with cement sand mortar of 1:6 mixing. After it poured on top by 10cm thick plain cement concrete of 1:2:4 mixing ratio. Note that this ramp should be kept moist and protect from the sun for at least 10 days.				-
42.16	Excavation of soft soil for foundation trenches of the two retaining walls of 1200cm length, 60cm wide and 60cm depth each starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be du	m <sup>3</sup>	6.77		-
42.17	Construction of 5cm thick and 60cm wide PCC of 1:3:6 mixing ratio over the two foundation walls.	m <sup>3</sup>	0.56		-
42.18	Construction of multi-trapezoid shape of masonry cement blocks (0.40mx0.20mx0.20m) wall of width is 225cm while the bottom width is 60cm laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	26.79		-

42.19	30cm wide and 10cm height reinforced concrete coping beam on top of the retaining wall. The concrete must be reinforced with 4 number of iron bars of diameter Y 10 and staffed with iron bars of diameter y 8 @ 250cm c/c.	m <sup>3</sup>	0.56		-
42.20	Backfilling materials with marram or other approved materials.	m <sup>3</sup>	19.16		-
42.21	Provide and compacting of hardcore layer of 779cm length, 164cm wide and 30cm height.	m <sup>3</sup>	7.67		-
42.22	Construction of 10cm thick of plain cement concrete of 1:2:4 mixing ratio over the trade and rise of steps and landing area	m <sup>3</sup>	2.56		-
<b>Subtotal - 42</b>					-
<b>43</b>	<b>Construction of concrete blocks</b>				
43.1	Construction 310cm height walls of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	98.67		-
<b>Subtotal - 43</b>					-
<b>44</b>	<b>R.C roofing</b>				
44.1	R.C (1:2:4 Mixing ratio) slab cover of 20cm thick with Ø 12mm main bars and 10mm distribution bars both ways at top and bottom and distanced 15cm c/c .Formwork must be accurately set out, this means when remove the formwork all surfaces should be smooth and NO NEED TO BE PLASTERED, so that the resulting concrete product is in a right place and is of correct shape and size. <b>N.B.</b> The structure should be kept moist and protect from the sun for at least 10 days.	m <sup>3</sup>	7.49		-
44.2	Construction of 2 numbers of trapezoid shape reinforced concrete braces under the projection of the slab of 25cm thick with top width of 73cm and bottom width of 40cm and 30cm height reinforced with iron bars of diameter Ø16 and staffs of diameter 8mm.	m <sup>3</sup>	0.08		-
<b>Subtotal - 44</b>					-
<b>45</b>	<b>Staircase access steps and others finishing activities</b>				
45.1	Construction of 20cm wide 35cm thick (15cm inside of the structure and 20cm outside) of reinforced concrete supporting knee beam of the staircase of 1:2:4 mixing ratio with # 8 Y16 (4 bended and 4 straight) and staffs of 8mm@ 250mm/cc <b>N.B.</b> Note that the calculated quantities volume is only the lowest part of the beams (20cmx20cm) as the top part is inside of the staircase and will considered part of the staircase structure.	m <sup>3</sup>	0.30		-
45.2	Construct 20cm wide 35cm thick (15cm inside of the landing slab and 20cm outside) of reinforced concrete supporting beam of 1:2:4 mixing ratio with # 6 Y16 and staffs of 6mm@ 250mm/cc. <b>N.B.</b> Note that the calculated quantities volume is only the lowest part of the beams (20cmx20cm) as the top part is inside of the staircase and will considered part of the staircase structure.	m <sup>3</sup>	0.47		-

45.3	Construction of reinforced concrete 1:2:4 mixing ratio staircase of 172cm width with 36 steps of 30cm trade and 15cm rise with two landing of 150cmx353cm and 15cm thick. The concrete should be reinforced with 5 pieces of straight and 5 folded iron bars diameter Ø 16mm each ramp. Note the price will be include also the third staircase on the ground floor <b>N.B.</b> Note that the staircase should be protected from sun and kept moist for at least 10 days	m <sup>3</sup>	4.41		-
45.4	For ramp: Provide and fixing of handrail made by stainless steel pipes of approximately diameter Ø 50mm at the two sides of front ramps access including. The sample of the handrail has to be got approved from site engineer before fixing.	m	19.40		-
45.5	For the staircases: Provide and fixing of handrail made by stainless steel pipes of approximately diameter Ø 50mm for staircase including landing. The sample of the handrail has to be got approved from site engineer before fixing.	m	14.25		-
<b>Subtotal - 45</b>					-
<b>46</b>	<b>Flooring</b>				
46.1	Construction of 60cm x 60cm non slippery ceramic floor tiles for the landing of the staircase of the building laid and jointed with cement sand mortar of 1:2 mixing. Note the price will be include also the third staircase on the ground floor	m <sup>2</sup>	17.69		-
46.2	Construction of 60cm x 10cm ceramic skirting tiles for all bottom edge of the walls of the building laid and jointed with cement sand mortar of 1:2 mixing.	m	31.09		-
46.3	Construction of 60cm x 60cm non slippery local made terrazzo floor on the top surfaces of two step access outside of the building. The terrazzo should be divided by PVC or steel boundary edges with light green color. Note that the proportion of cement sand must be 1:2 mixing.	Item	1.00		-
46.4	Construction of ceramic floor marble tiles on the trade and rise of the two steps inside of the building corridor. The marble must be laid and jointed with cement sand mortar of 1:2 mixing. The sample of the marble has to be got approved from site engineer before fixing. <b>N.B.</b> Note that the given area is only the trades of staircase of 30cmx120cm, but the bidder should include his/her prices the budget of the rises of 15cmx120cm	m <sup>2</sup>	17.028		-
46.5	Construction of 140cm width along external edges of the building with floor paving made by cement sand interlocking with all required fitting and fixer such as retaining wall of cement blocks to external edges, aggregate powder to lay the floor before fixing the paving etc. Also, the price should be added construction of retaining wall made by cement blocks laid and jointed with cement sand mortar of 1:6 mixing with adequate foundation wall of at least 40cm underground.	m <sup>2</sup>	11.004		-
<b>Subtotal - 46</b>					-
<b>47</b>	<b>Plastering and other decoration works</b>				
47.1	Apply of first coat on 30mm thick plastering of cement sand mortar of 1:6 mixing ratio for all external new constructed stone wall surfaces	m <sup>2</sup>	4.72		-
47.2	Apply 20mm thick on internal external plastering with cement sand mortar of 1:5 mixing ratio for all new constructed wall surfaces including stone walls.	m <sup>2</sup>	136.41		-

47.3	Apply on 10mm thick rough cast plastering of cement sand mortar of 1:2 mixing ratio on external 1,200mm bottom part of the windows sills of wall surfaces including the first floor. Note that the wall should be market by blocks of 52cmx26cm with lines approximately 1cm wide.	m <sup>2</sup>	10.15		-
47.4	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the under ceiling with external projection of under ceiling of the slab.	m <sup>2</sup>	173.64		-
47.5	Apply two coats of light-yellow distemper inside and outside of building walls and white distemper on under ceiling	m <sup>2</sup>	173.64		-
47.6	Apply two coats of light grey distemper paint on the rough casted surfaces at external walls of building.	m <sup>2</sup>	10.15		-
<b>Subtotal - 47</b>					-
<b>48</b>	<b>Electricity</b>				
	<b>INTERIOR ELECTRICAL SERVICES</b>				
	<b>Lighting</b>				
48.1	<b>Type F1:</b> 1200mm 1x18w Surface Mounted LED light fitting with CAT 2 Louvered with maximum unified glare of 19 and with LED lamp as "Thomson" LED (1x1750LM MIN) The lamp shall have a minimum of 30,000 hours lifetime; and with 50000 times switching cycles. The color temperature shall be 3000 - 7000K and luminous flux of 1500 - 1700 lumens.	Item	2.00		-
48.2	<b>Type F1E:</b> Ditto as Type F1 above but emergency version of 3hour duration	Item	1.00		-
48.3	<b>Type E-</b> 21w IP44 die-cast aluminum light fitting with clear diffuser and complete with lamp as massive Sussex CAT 81657/01/30	Item	2.00		-
48.4	<b>Type EXIT:</b> 8W, Non-maintained illuminated emergency exits light sign luminaire with white steel body. Emergency lighting of 3-hour duration	Item	3.00		-
<b>Subtotal - 48</b>					-
<b>49</b>	<b>Light Switches</b>				
49.1	Supply, install and connect following 10A lighting switches on recessed switchboxes wired in 1.5 sq.mm PVC single core copper cables enclosed in concealed HG PVC conduits complete with all necessary accessories:				
49.2	1 gang 1 way	Item	1.00		-
49.3	1 gang 2 ways	Item	2.00		-
49.4	2 gangs 2 ways	Item	1.00		-
49.5	3 gangs 1 way	Item	1.00		-
49.6	Intermediate switch	Item	1.00		-
<b>Subtotal - 49</b>					-
<b>50</b>	<b>Power sockets, Isolators and DP Switches</b>				
50.1	<u>Supply, install, test and commission the following power sockets as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
50.2	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved (5numbers for each room of 6.2mx3.68m). Note that the sockets must be fixed at least 60cm from the pavement level.	Item	2.00		-

50.3	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved for the Wi-Fi at the corridor of the building. Note that the sockets must be fixed at least 60cm from the bottom level of concrete slab.	Item	1.00		-
50.4	Supply, install and connect 15A un-switched DP outlet plate with fuse connector and neon indicator for Fire Alarm Panel power supply and marked "FACP"	Item	3.00		-
50.5	Supply, install and connect 30A switched TPN industrial isolator outlet plate with connector Split Air Conditioning Units power supply and marked "AIR CONDITIONER" respectively	Item	1.00		-
<b>Subtotal - 50</b>					-
<b>51</b>	<b><u>Cables, Cable pathways and Conduits</u></b>				
51.1	<u>Supply, install, test and commission 450/750 volts 6491X cables with all required accessories for proper installation and operation including conduits, pipes (each cable in separate conduit or pipe), cable lugs, ties... etc. as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
51.2	Supply, install and connect complete 3x1.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	6.00		-
51.3	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	2.00		-
51.4	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to socket power points drawn in ring and within Concealed /surface 25mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	2.00		-
51.5	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to Fire Alarm Panel power points drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	3.00		-
51.6	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables for Split Air Conditioning Units power supply drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	1.00		-
51.7	Supply and install 4C, 50sq.mm XLPE/SWA /PVC Copper Cable from generator at West side of main entrance gate DB to new building DB' complete with cable lugs and cable glands	m	18.00		-
51.8	Excavate trench for XLPE/SWA /PVC Copper Cable not exceeding 300 mm and average 500 mm deep, part return, fill in, ram the ground (Final ground finish with direction of site engineer)	m	10.00		-
51.9	<b>Electrical ducts and manholes</b>				-
51.10	Supply and install the following uPVC ducts at 600mm below ground level. Rate to be inclusive of trenching at 600mm below ground level, back filling of trenches, and laying of "DANGER" cable tiling, reinstatement and making of good of ground as per directed by the site engineer:				-
51.11	a) 2x100mm uPVC duct	m	10.00		-

51.12	Construct 600mm x 600mm x 600mm deep [internal dimensions] reinforced concrete power manhole completes with heavy duty cast iron cover	Item	8.00		-
	<b>Subtotal - 51</b>				-
<b>52</b>	<b><u>Distribution Boards</u></b>				
52.1	<u>Supply, install, connect, testing and commission the following final distribution boards, distribution terminal blocks according to drawings, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				
52.2	Supply, install, connect-up complete 100 Amp 6way TP/N MCB Distribution Board as Merlin Gerin or equal and approved for normal power supply, for ground floor complete with integral isolator as specified	Item	1.00		-
52.3	Supply, install, and connect 100Amp, 4-way SP/N Consumer unit, as Merlin Gerin or approved equivalent, as shown on schematic wiring drawing for lightings load only	Item	1.00		-
52.4	<u>Supply, install, test and commission miniature circuit breakers (MCBs) rated at 500Vac for above items with 10KA short circuit current according to schematics, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				-
52.5	10A (TP)- 30mA	Item	1.00		-
52.6	30A (TP)- 30mA	Item	1.00		-
52.7	10A (SPN)- 30mA	Item	1.00		-
52.8	Blanking plates for items above (TP)	Item	1.00		-
52.9	Blanking plates for items above (SP)	Item	1.00		-
	<b>Subtotal - 52</b>				-
<b>53</b>	<b><u>Earthling</u></b>				
53.1	Supply, install, test and commission Copper earthling mat for electrical system of 1200mmx1200mm dimensions constructed of 25mm x 3mm copper tape laid 1000mm deep in ground and complete with 10sq.mm earth lead cable for earthling in Masonry earth pit and with concrete removable cover marked "EARTH"	Lump Sump	1.00		-
53.2	Allow for testing and commissioning Electrical Installations	Lumpsum	1.00		-
53.3	<b>FIRE DETECTION AND ALARM SYSTEM</b>				-
53.4	Supply and install 1.5mm sq. fire rated copper cable for Smoke detector outlet as per layouts	Item	3.00		-
53.5	Supply and install 1.5mm sq. fire rated copper cable for Sounder outlet per layouts	Item	1.00		-
53.6	Supply and install 1.5mm sq. fire rated copper cable for Call point fire break glass unit outlet per layouts	Item	2.00		-
53.7	Supply and install complete 4-zone conventional fire alarm panel as Menvier MF9304 or equivalent by HF Fire but approved by engineer as per the specifications	Item	1.00		-
53.8	Supply and install conventional surface mounted Call point fire break glass unit as menvier MBG914 or similar but approved complete with conduit and wiring as shown on the drawings	Item	1.00		-



53.9	Supply and install conventional optical Smoke Detector / Sensors unit as Menvier MID810 or similar but approved complete with conduit and wiring as shown on the drawings	Item	3.00		-
53.10	Supply and install 93 mm diameter conventional electronic sounder as Menvier MWS424SB or similar but approved complete with wiring	Item	1.00		-
53.11	Allow for programming by THE SPECIALIST SUPPLIER of the Fire Detection and Alarm System	Lump Sump	1.00		-
53.12	Allow for TRAINING of Client personnel on the fire detection and alarm system operations	Lump Sump	1.00		-
53.13	Allow for testing and commissioning of the fire detection and alarm system	Lump Sump	1.00		-
<b>Subtotal - 53</b>					-
<b>54</b>	<b>Air-conditions</b>				
54.1	Provide and connection of 12,000BTU split air conditions with all required fitting and fixer	Item	1.00		-
<b>Subtotal - 54</b>					-
<b>55</b>	<b>Doors, windows, protection bars and grab rails</b>				
55.1	Supply and fix 220cm height, 330cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery. The sample of the door has to be got approved from site engineer.	Item	1		-
55.20	Provide and fix at least 100cm height stain less steel handrail made with pipes of external diameter not less than 5cm fixed at side and landing of steps of the staircase by mounting of holding poles at distance of approximately not less than 65cm c/c. <b>N.B.</b> The grab rail shall be capable of carrying a static load of 150 kg.	m	14.38		-
<b>Subtotal - 55</b>					-
<b>56</b>	<b>Over roof</b>				
56.1	Construct 4 pieces of 30cm x 30cm reinforced concrete columns of 280cm height Not included beams. The concrete must be 1:2:4 mixing ratio and reinforced with No. 8 Y16 and staffs of Ø 8mm @250mm c/c. <b>N.B.</b> Note that the columns should be protected from sun and kept moist for at least 10 days.	m³	1.01		-
56.2	Construction 280cm height for staircase cabin walling of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio	m²	44.71		-
56.3	Construction of masonry cement blocks of 90cm height on the parapet wall at the front and two sides of staircase building. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio	m²	20.69		-
56.4	Construction of masonry cement blocks of approximately 58cm (20cm at the front side and 95cm at the backside) height top crown parapet wall on top of the staircase cabin. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio	m²	9.94		-
56.5	Construction of 15cm thick and 20cm wide RC tie beam on top of final level of staircase cabin wall. The beam should be 1:2:4 mixing ratio with # 4 Y10 and staffs of 6mm@ 250mm/cc	m³	0.59		-

56.6	Ditto 10cm thick and 25cm width coping beam on top of the parapet wall of front and two sides of staircase building.	m <sup>3</sup>	0.57		-
56.7	Ditto 10cm thick and 25cm width coping beam on top of the parapet wall of staircase cabin.	m <sup>3</sup>	0.43		-
56.8	Construction of masonry cement blocks wall of 90cm height 40cm x 40cm wide to cover the iron bars on top of slab roof. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that the price should be included supplying of fixing to the iron bars by 6 pieces PVC pipes of diameter 3cm and 10cm height.	Item	4.00		-
56.9	Apply on 20mm thick internal external plastering of cement sand mortar of 1:5 mixing ratio for all new constructed surfaces crown parapet walls.	m <sup>2</sup>	150.68		-
56.10	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the protection iron bars of columns over the slab roof.	m <sup>2</sup>	150.68		-
56.11	Apply two coats of light-yellow distemper inside and outside of building wall surfaces including the protecting iron bars of columns over the slab roof and with white light grey on external edges of coping beam.	m <sup>2</sup>	150.68		-
<b>Subtotal - 56</b>					-
<b>57</b>	<b>Roofing</b>				
57.1	Construction of mono pitch roof made with bottom chord tie beam of wooden of cross section 15cm x 2.5cm and with top chord beam by wooden of cross section 10cm x 5cm connected with rafters of cross section 10cm x 5cm. Covered on it by battens of wooden of cross section 5cmx5cm and GI sheets of 300cmx100cm	m <sup>2</sup>	25.938		-
57.2	Supply and fix approved suspended t & g ceiling to eaves from an approved UPVC ceiling including all necessary battens, cornices, beadings and accessories framed by steel of cross section 2"x2" distanced 600mmx600mm both sides. Include also all 50cm under external roof of the building. <b>N.B.</b> The external projection under the roof should be sealed with same type	m <sup>2</sup>	25.938		-
57.3	Supply and fix 200mm x 20mm fascia board, including two coats enamel paint	m	4		-
<b>Subtotal - 57</b>					-
<b>Total for Construction of staircase access of the building</b>					-
S.n.	Description	Unit	QTY	Rate in \$	Amount in \$
<b>G.</b>	<b>Construction of two open spaces and toilets</b>				
<b>58</b>	<b>Substructure works</b>				
	<b><i>Excavation and Earthwork (Provisional)</i></b>				
58.1	Excavation of soft soil for foundation trenches of 60cm wide and 130cm depth starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be dumped at least 2km away from the site as per directed by UNDP engineers.	m <sup>3</sup>	94.13		-
58.2	Ditto for 24 columns footings of 120cmx120cmx186cm depth.	m <sup>3</sup>	64.28		-
	<b><i>Selected filling</i></b>				-

58.3	Provide and compact 65cm height first layer with approved marram or other approved backfilling materials over the existing floor of whole building including the toilets inside the safe haven and server room of the building. Note that this should be filled and compacted by layers which not exceed than 15cm by layer.	m <sup>3</sup>	155.00		-
58.4	Provide and compact 30cm height hardcore layer with approved materials over the existing floor of whole building including the toilets of safe haven and server room of the building	m <sup>3</sup>	71.54		-
	<b>Anti-termite treatment</b>				-
58.5	Provide and apply on the upper surfaces of hardcore layer a chemical spry or powder anti-termite treatment as "Premise 200 SC" or other equal and approved anti insecticide materials.	m <sup>2</sup>	238.46		-
	<b>Damp proof membrane</b>				-
58.6	Provide and lay 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	238.46		-
	<b>Concrete work in substructure</b>				-
58.7	Construction of 5cm thick and 60cm wide Plain cement concrete of class 15 (1:3:6 mixing) under the foundation walls of the building.	m <sup>3</sup>	3.62		-
58.8	Ditto for internal subdivision wall of the toilets of 40cm wide and 5cm thick.	m <sup>3</sup>	0.45		-
58.9	Ditto for 24 columns footing of 120cmx120cmx5cm depth.	m <sup>3</sup>	1.73		-
	<b>Foundation Walling</b>				-
58.10	Construction of 40cm wide and 221cm height (136cm underground and 85cm above ground) foundation wall made by rubble stone jointed and connected by cement sand mortar of mixing ratio 1:6	m <sup>3</sup>	136.91		-
58.11	Ditto for internal subdivision wall of the toilets of 40cm wide and 85cm height.	m <sup>3</sup>	7.58		-
	<b>Subtotal - 58</b>				-
<b>59</b>	<b>Super structure works</b>				
	<b>Plain and reinforced concrete works</b>				
59.1	Construct 120cmx120cmx40cm reinforced concrete of 1:2:4 mixing ratio for footing of the columns with 9 numbers of Y16 both ways.	m <sup>3</sup>	13.82		-
59.2	Ditto for 24 columns neck of 40cm x40cm and 226cm height with 10 numbers of Y 16mm	m <sup>3</sup>	8.68		-
59.3	Construct 40cm wide, 20cm thick of reinforced concrete beam of 1:2:4 mixing ratio with # 8 Y16 and staffs of 8mm@ 250mm/cc over foundation wall including the toilets	m <sup>3</sup>	14.17		-
59.4	Laying 7cm thick plain cement concrete of 1:3:6 mixing ratio over newly constructed hardcore layer with proper finish.	m <sup>3</sup>	16.69		-
59.5	Construct 24 pieces of 30cm x 40cm reinforced concrete columns of 305cm height of the building. The concrete must be 1:2:4 mixing ratio and reinforced with No. 8 Y16 and staffs of Ø 8mm @250mm c/c. Note that the given height is not included the beams. <b>N.B. Note that the columns should be protected from sun and kept moist for at least 10 days.</b>	m <sup>3</sup>	8.78		-
59.6	Construct 20cm wide, 15cm thick of reinforced concrete 2.2m level beam of 1:2:4 mixing ratio with # 6 Y14 and staffs of 6mm@ 250mm/cc. This is for all constructed walls including toilet.	m <sup>3</sup>	4.57		-

59.7	Construction of reinforced concrete corbel on external top edges of windows. The corbel must be constructed in three steps of 5cm height each with the top layer of 250cmx 70cm, where the second layer is 240cm x 65cm and the last layer at the bottom is 226cmx60cm, with two supporting braces (see detail drawings). The concrete should be mixed by 1:2:4 and reinforced with iron bars of diameter Ø12mm and Ø 10mm	m <sup>3</sup>	2.46		-
59.8	Construct of 180 cm x 30 cm x 5cm reinforced concrete window sills at bottom edge windows for offices and toilets. The concrete should be mixed by 1:2:4 with # 3 Y12 and staffs of 8 mm @ 200mm/cc	m <sup>3</sup>	0.27		-
59.9	Construction of reinforced concrete 1:2:4 mixing ratio loaded beam of 30cm width and 70cm height (20cm inside of the slab and 50cm outside). The concrete should be reinforced with 6 pieces of straight bars diameter Ø 16mm (2 on top and 4 at the bottom), 2 pieces of bended bars diameter Ø 16mm and 2 reinforcement bars of diameter Ø 16mm of 300cm length on top of the columns. All these bars should be united by staffs of 8mm@ 250mm/cc. <b>N.B.</b> Note that the calculated quantities volume is only the lowest part of the beams (50cmx30cm) as the top part is inside of the slab and will be considered part of the slab structure.	m <sup>3</sup>	13.68		-
59.10	Construction of reinforced concrete 1:2:4 mixing ratio final beam (Not loaded) of 20cm width and 35cm height (15cm inside of the slab and 20cm outside). The concrete should be reinforced with 6 pieces of bars diameter Ø 16mm with staffs of iron bars of 8mm@ 250mm/cc	m <sup>3</sup>	3.22		-
<b>Subtotal - 59</b>					-
<b>60</b>	<b>Construction of internal steps access</b>				
60.1	Construction of internal external steps of 30cm trade and 15cm rise made by rubble stone jointed and connected with cement sand mortar of 1:6, with 10cm plain cement concrete of 1:2:4 on top of stone base				
60.2	Stone wall basement made with ruble stone jointed and connected with cement sand mortar of 1:6 ratio.	m <sup>3</sup>	0.78		-
60.3	Construction of 10cm thick of plain cement concrete of 1:2:4 mixing ratio over the stone wall	m <sup>3</sup>	0.30		-
60.4	Construction of exported marble on the steps and rise of the staircase	m <sup>2</sup>	3.90		-
<b>External access steps in the middle:</b>					-
60.5	For the front access steps in the middle of the two ramps: Construction of 206cm wide and 700cm length made by stone laid and jointed with cement sand mortar of 1:6 mixing. After it pour on top with 10cm thick plain cement concrete of 1:2:4 mixing ratio. Note that these steps should be kept moist and protect from the sun for at least 10 days. See the detail drawings for the rise and trades dimensions				-
60.6	Excavation of soft soil for foundation trenches of 60cm wide and 60cm depth starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be du	m <sup>3</sup>	5.02		-
60.7	Construction of 5cm thick and 60cm wide PCC of 1:3:6 mixing ratio over the two foundation walls.	m <sup>3</sup>	0.42		-
60.8	Construction of 40cm wide and 55 cm height foundation walling over the PCC	m <sup>3</sup>	3.07		-

60.9	Construction of multi-trapezoid shape of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	8.57		-
60.10	Backfilling materials with marram or other approved materials. Note there will be 5.02 m <sup>3</sup> left from excavation soil.	m <sup>3</sup>	4.40		-
60.11	Construction of 697cm length, 260cm wide and 15cm height stone basement made with rubble stone jointed and connected with cement sand mortar of 1:6 ratio.	m <sup>3</sup>	2.7183		-
60.12	Construction of 10cm thick of plain cement concrete of 1:2:4 mixing ratio over the trade and rise of steps and landing area	m <sup>3</sup>	2.11		-
	<b>For access the two ramps at the front</b>				
60.12	For the two front access ramps: Construction of 316cm wide and 800cm length made stone laid and jointed with cement sand mortar of 1:6 mixing. After it poured on top by 10cm thick plain cement concrete of 1:2:4 mixing ratio. Note that this ramp should be kept moist and protect from the sun for at least 10 days.				-
60.13	Excavation of soft soil for foundation trenches of the two retaining walls of 1200cm length, 78cm wide and 60cm depth each starting from stripped level. When construction of foundation finishes, these materials should be returning and filled around foundation, where extra surplus materials must be du	m <sup>3</sup>	11.23		-
60.14	Construction of 5cm thick and 60cm wide PCC of 1:3:6 mixing ratio over the two foundation walls.	m <sup>3</sup>	0.72		-
60.15	Construction of trapezoid retaining stone wall of approximately 174cm height, 78cm bottom width and approximately 43cm top width over the PCC	m <sup>3</sup>	26.73		-
60.16	43cm wide and 10cm height reinforced concrete coping beam on top of the retaining wall. The concrete must be reinforced with 4 number of iron bars of diameter Y 10 and staffed with iron bars of diameter y 8 @ 250cm c/c.	m <sup>3</sup>	1.03		-
60.17	Backfilling materials with marram or other approved materials. Note there will be 11.23 m <sup>3</sup> left from excavation soil.	m <sup>3</sup>	19.24		-
60.18	Provide and compacting of hardcore layer of 777cm length, 316cm wide and 30cm height.	m <sup>3</sup>	14.73		-
60.19	Construction of 10cm thick of plain cement concrete of 1:2:4 mixing ratio over the trade and rise of steps and landing area	m <sup>3</sup>	4.91		-
	<b>Subtotal - 60</b>				-
<b>61</b>	<b>Construction of concrete blocks</b>				
61.1	Construction 305cm height walls of masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	330.75		-

61.20	Ditto for the subdivision wall of two set toilets of 285cm height. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	55.53		-
	<b>Subtotal - 61</b>				-
<b>62</b>	<b>R.C roofing</b>				
62.1	R.C (1:2:4 Mixing ratio) slab cover of 20cm thick with Ø 12mm main bars and 10mm distribution bars both ways at top and bottom and distanced 15cm c/c .Formwork must be accurately set out, this means when remove the formwork all surfaces should be smooth and NO NEED TO BE PLASTERED, so that the resulting concrete product is in a right place and is of correct shape and size. <b>N.B.</b> The structure should be kept moist and protect from the sun for at least 10 days.	m <sup>3</sup>	69.64		
62.2	Construction of 16 numbers of trapezoid shape reinforced concrete braces under the projection of the slab of 25cm thick with top width of 73cm and bottom width of 40cm and 30cm height reinforced with iron bars of diameter Ø16 and staffs of diameter 8mm.	m <sup>3</sup>	0.68		-
	<b>Subtotal - 62</b>				-
<b>63</b>	<b>Flooring</b>				
63.1	Construction of 60cm x 60cm non slippery ceramic floor tiles for all pavement of the building laid and jointed with cement sand mortar of 1:2 mixing. Note that the price is included the floor hall, toilets and corridor.	m <sup>2</sup>	287.18		-
63.2	Construction of 60cm x 10cm ceramic skirting tiles for all bottom edge of the walls of the building laid and jointed with cement sand mortar of 1:2 mixing. Note that the price is included the skirting of the corridor.	m	118.28		-
63.3	Construction of 60cm x 60cm non slippery local made terrazzo floor on the top surfaces of the step access outside of the building. The terrazzo should be divided by PVC or steel boundary edges with light green color. Note that the proportion of cement sand must be 1:2 mixing.	Item	1.00		-
63.4	Ditto the two ramps	Item	2.00		-
63.5	Construction of ceramic floor marble tiles on the trade and rise of the main entrance gate and steps at the staircase side inside of the building corridor. The marble must be laid and jointed with cement sand mortar of 1:2 mixing. The sample of the marble has to be got approved from site engineer before fixing. <b>N.B.</b> Note that the given area is only the trades of staircase of 30cmx120cm, but the bidder should include his/her prices the budget of the rises of 15cmx120cm	m <sup>2</sup>	6.38		-
63.6	Construction of 140cm width along external edges of the building with floor paving made by cement sand interlocking with all required fitting and fixer such as retaining wall of cement blocks to external edges, aggregate powder to lay the floor before fixing the paving etc. Also, the price should be added construction of retaining wall made by cement blocks laid and jointed with cement sand mortar of 1:6 mixing with adequate foundation wall of at least 40cm underground.	m <sup>2</sup>	56.196		-
	<b>Subtotal - 63</b>				-
<b>64</b>	<b>Plastering and other decoration works</b>				
64.1	Apply of first coat on 30mm thick plastering of cement sand mortar of 1:6 mixing ratio for all external new constructed stone wall surfaces	m <sup>2</sup>	24.08		-

64.2	Apply 20mm thick on internal external plastering with cement sand mortar of 1:5 mixing ratio for all new constructed wall surfaces including stone walls.	m <sup>2</sup>	835.00		-
64.3	Apply on 10mm thick rough cast plastering of cement sand mortar of 1:2 mixing ratio on external 1,200mm bottom part of the windows sills of wall surfaces including the first floor. Note that the wall should be market by blocks of 52cmx26cm with lines approximately 1cm wide.	m <sup>2</sup>	48.17		-
64.4	Construction of 270cm height ceramic wall tiles for all walls of the toilets laid and jointed with cement sand mortar of 1:2 mixing	m <sup>2</sup>	182.21		-
64.5	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the under ceiling with external projection of under ceiling of the slab.	m <sup>2</sup>	952.81		-
64.6	Apply two coats of light-yellow distemper inside and outside of building walls and white distemper on under ceiling	m <sup>2</sup>	952.81		-
64.7	Apply two coats of light grey distemper paint on the rough casted surfaces at external walls of building.	m <sup>2</sup>	48.17		-
<b>Subtotal - 64</b>					-
<b>65</b>	<b>Electricity</b>				
	<b>INTERIOR ELECTRICAL SERVICES</b>				
	<b>Lighting</b>				
65.1	<b>Type F1:</b> 1200mm 1x18w Surface Mounted LED light fitting with CAT 2 Louvered with maximum unified glare of 19 and with LED lamp as "Thomson" LED (1x1750LM MIN) The lamp shall have a minimum of 30,000 hours lifetime; and with 50000 times switching cycles. The color temperature shall be 3000 - 7000K and luminous flux of 1500 - 1700 lumens.	Item	40.00		-
65.2	<b>Type F1E:</b> Ditto as Type F1 above but emergency version of 3hour duration	Item	20.00		-
65.3	<b>Type E-</b> 21w IP44 die-cast aluminum light fitting with clear diffuser and complete with lamp as massive Sussex CAT 81657/01/30	Item	4.00		-
65.4	<b>Type 4</b> - 8.5w IP54 LED spherical ball light fitting complete with LED lamps for toilets	Item	12.00		-
65.5	<b>Type EXIT:</b> 8W, Non-maintained illuminated emergency exits light sign luminaire with white steel body. Emergency lighting of 3-hour duration	Item	4.00		-
<b>Subtotal - 65</b>					-
<b>66</b>	<b>Light Switches</b>				
66.1	Supply, install and connect following 10A lighting switches on recessed switchboxes wired in 1.5 sq.mm PVC single core copper cables enclosed in concealed HG PVC conduits complete with all necessary accessories:				
66.2	1 gang 1 way	Item	14.00		-
66.3	1 gang 2 ways	Item	4.00		-
66.4	2 gangs 2 ways	Item	2.00		-
66.5	3 gangs 1 way	Item	1.00		-
66.6	Intermediate switch	Item	1.00		-
<b>Subtotal - 66</b>					-
<b>67</b>	<b>Power sockets, Isolators and DP Switches</b>				

67.1	<u>Supply, install, test and commission the following power sockets as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
67.2	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved (5numbers for each room of 6.2mx3.68m). Note that the sockets must be fixed at least 60cm from the pavement level.	Item	42.00		-
67.3	Supply, install and connect 13Amp standard twin socket outlets for normal power as MK or equal and approved for the Wi-Fi at the corridor of the building. Note that the sockets must be fixed at least 60cm from the bottom level of concrete slab.	Item	6.00		-
67.4	Supply, install and connect 15A un-switched DP outlet plate with fuse connector and neon indicator for Fire Alarm Panel power supply and marked "FACP"	Item	2.00		-
67.5	Supply, install and connect 30A switched TPN industrial isolator outlet plate with connector Split Air Conditioning Units power supply and marked "AIR CONDITIONER" respectively	Item	8.00		-
	<b>Subtotal - 67</b>				-
<b>68</b>	<b><u>Cables, Cable pathways and Conduits</u></b>				
68.1	<u>Supply, install, test and commission 450/750 volts 6491X cables with all required accessories for proper installation and operation including conduits, pipes (each cable in separate conduit or pipe), cable lugs, ties... etc. as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.</u>				
68.2	Supply, install and connect complete 3x1.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	76.00		-
68.3	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	4.00		-
68.4	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to socket power points drawn in ring and within Concealed /surface 25mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	42.00		-
68.5	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to Fire Alarm Panel power points drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	2.00		-
68.6	Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables for Split Air Conditioning Units power supply drawn in spur and within Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	Item	8.00		-
68.7	Supply and install 4C, 50sq.mm XLPE/SWA /PVC Copper Cable from generator at West side of main entrance gate DB to new building DB' complete with cable lugs and cable glands	m	200.00		-
68.8	Excavate trench for XLPE/SWA /PVC Copper Cable not exceeding 300 mm and average 500 mm deep, part return, fill in, ram the ground (Final ground finish with direction of site engineer)	m	170.00		-
68.9	<b>Electrical ducts and manholes</b>				-



68.10	Supply and install the following uPVC ducts at 600mm below ground level. Rate to be inclusive of trenching at 600mm below ground level, back filling of trenches, and laying of "DANGER" cable tiling, reinstatement and making of good of ground as per directed by the site engineer:				-
68.11	a) 2x100mm uPVC duct	m	170.00		-
68.12	Construct 600mm x 600mm x 600mm deep [internal dimensions] reinforced concrete power manhole completes with heavy duty cast iron cover	Item	8.00		-
	<b>Subtotal - 68</b>				-
<b>69</b>	<b><u>Distribution Boards</u></b>				
69.1	<u>Supply, install, connect, testing and commission the following final distribution boards, distribution terminal blocks according to drawings, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				
69.2	Supply, install, connect-up complete 250 Amp 4-way TP/N main Distribution Board as Merlin Gerin or equal and approved for normal power supply, for main DB (UNSOM main switch board at back side of the building) complete with integral isolator, and 3. No 63 Amps MCCBs as specified	Item	1.00		-
69.3	Supply, install, connect-up complete 100 Amp 6way TP/N MCB Distribution Board as Merlin Gerin or equal and approved for normal power supply, for ground floor complete with integral isolator as specified	Item	1.00		-
69.4	Supply, install, and connect 100Amp, 4 way SP/N Consumer unit, as Merlin Gerin or approved equivalent, as shown on schematic wiring drawing for lightings load only	Item	1.00		-
69.5	<u>Supply, install, test and commission miniature circuit breakers (MCBs) rated at 500Vac for above items with 10KA short circuit current according to schematics, specifications and relevant codes and as Merlin Gerin or equal and approved</u>				-
69.6	10A (TP)- 30mA	Item	1.00		-
69.7	30A (TP)- 30mA	Item	12.00		-
69.8	10A (SPN)- 30mA	Item	1.00		-
69.9	Blanking plates for items above (TP)	Item	1.00		-
69.1	Blanking plates for items above (SP)	Item	1.00		-
	<b>Subtotal - 69</b>				-
<b>70</b>	<b><u>Earthling</u></b>				
70.1	Supply, install, test and commission Copper earthling mat for electrical system of 1200mmx1200mm dimensions constructed of 25mm x 3mm copper tape laid 1000mm deep in ground and complete with 10sq.mm earth lead cable for earthling in Masonry earth pit and with concrete removable cover marked "EARTH"	Lumpsum	1.00		-
70.2	Allow for testing and commissioning Electrical Installations	Lumpsum	1.00		-
70.3	<b>FIRE DETECTION AND ALARM SYSTEM</b>				-
70.4	Supply and install 1.5mm sq. fire rated copper cable for Smoke detector outlet as per layouts	Item	12.00		-

70.5	Supply and install 1.5mm sq. fire rated copper cable for Sounder outlet per layouts	Item	3.00		-
70.6	Supply and install 1.5mm sq. fire rated copper cable for Call point fire break glass unit outlet per layouts	Item	4.00		-
70.7	Supply and install complete 4-zone conventional fire alarm panel as Menvier MF9304 or equivalent by HF Fire but approved by engineer as per the specifications	Item	1.00		-
70.8	Supply and install conventional surface mounted Call point fire break glass unit as menvier MBG914 or similar but approved complete with conduit and wiring as shown on the drawings	Item	4.00		-
70.9	Supply and install conventional optical Smoke Detector / Sensors unit as Menvier MID810 or similar but approved complete with conduit and wiring a shown on the drawings	Item	12.00		-
70.10	Supply and install 93 mm diameter conventional electronic sounder as Menvier MWS424SB or similar but approved complete with wiring	Item	3.00		-
70.11	Allow for programming by The Specialist Supplier of the Fire Detection and Alarm System	Lumpsum	1.00		-
70.12	Allow for TRAINING of Client personnel on the fire detection and alarm system operations	Lumpsum	1.00		-
70.13	Allow for testing and commissioning of the fire detection and alarm system	Lumpsum	1.00		-
<b>Subtotal - 70</b>					-
<b>71</b>	<b>Air-conditions</b>				
71.1	Provide and connection of 18,000BTU split air conditions with all required fitting and fixer	Item	12.00		-
<b>Subtotal - 71</b>					-
<b>72</b>	<b>Doors, windows, protection bars and grab rails</b>				
72.1	For safe room: Provide and fix 220cm height, 180cm at the corridor between width and with 6.5mm thick ballistic double steel panel plain sliding door framed with UPN-100mm x 60mm x 5mm thick and external door frame of angle iron of 100mm x 100mm x 6mm thick. The door should have very strong hinges made with GI pipes of diameter Ø 50mm and iron bars of diameter Ø 20mm welded nicely to the edge of angle iron of external frame and the UPN. The price will be included fabrication of the door with all required fittings such as lock, hinges, handle etc. as well as three coats of anti-rust paint on internal and external door surfaces including the frame.	Item	1		
72.2	For server room and hall: Supply and fix 215cm height, 90cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery including self-closure device. The sample of the door has to be got approved from site engineer.	Item	4		-
72.3	For toilets: Supply and fix 210cm height, 80cm width exported hardwood timber of Singapore model complete with all fitting and fixer. The sample of the door has to be got approved from site engineer.	Item	8		-

72.4	For two open spaces: Provide and fix 280cm height, 300cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery including self-closure device. The sample of the door has to be got approved from site engineer.	Item	2		-
72.5	For main entrance gate: Provide and fix 180cm height, 220cm width and with panel of 6cm thick solid core, red hardwood veneer laminated door shutter with hardwood lipping all round; veneer and color to be approved. Complete with; hardwood frame, architrave, transome and all ironmongery including self-closure device. The sample of the door has to be got approved from site engineer.	Item	1		-
72.6	Provide and fix new double wings PVC framed windows of 150cm width and 120cm height with 6mm thick ordinary glasses and good quality nylon netting including all fittings, fixtures like hinges, handle, lock with very strong fisher and screws for fixing to the walls etc. The sample of the windows must be got approved from site engineer. <b>N.B. Note that the ordinary glasses should be covered by not less than 6µ thick blast resistant films (BRF) with all required fitting and fixer such as adhesive sealing rubber etc.</b>	m <sup>2</sup>	18		-
72.7	Provide and fix 150cm x 120cm new protection steel flowered decorated model windows bars made by angle iron frame of 20x20x3mm with another frame made by flat iron @ 200mm both ways. Finally provide and fix inside of every square by flowers of flat iron 10mmx2mm with all required fitting, fixer and two coats of antirust paint (See attached detail drawings).	m <sup>2</sup>	18		-
72.8	Provide and fix one grab rail fixed on each of both the inner and outer surfaces of the cubicle door; which shall not be less than 32 mm and not more than 40 mm in external diameter. The grab rail shall have a grip space of not less than 30 mm clear of each door surface.	Item	4		-
72.9	Provide and fix one folding grab rail on the wide side of the cubicle adjacent to the water-closet (W.C) at a height between 725mm to 750mm above the finished floor level when lowered from the wall. <b>N.B. The folding grab rail shall be capable of carrying a static load of 150 kg.</b>	Item	2		-
72.10	Provide and fix at least two grab rails which shall not be less than 32 mm and not more than 40 mm in external diameter and shall be fixed on the wall leaving a grip space of not less than 30 mm clear of the mounting wall. The two grab rails constructed in one continuous piece is acceptable. The length of grab rail shall not be less than 600 mm. <b>N.B. The grab rail shall be capable of carrying a static load of 150 kg.</b>	Item	4		-
	<b>Subtotal - 72</b>				-
<b>73</b>	<b>Sanitary system</b>				
73.1	Supply and fix one set of European flash complete (WC, hand wash, shower with plate etc.) with all required accessory such as mirror, toilet paper holder, towel holder, soap holder etc.	Item	8		-
	<b>Subtotal - 73</b>				-
<b>74</b>	<b>Connection and manhole construction &amp; misc. items</b>				

74.1	Construction of 1.0mx1.0 masonry cement blocks manholes laid by cement sand mortar of 1:4 with connection PVC pipes of Ø150mm diameter. The item includes all necessary excavation, cement block masonry, cover slab (1:2:4) with nominal reinforcement, plastering and finishing etc. complete as per UNDP engineer's satisfaction.	Item	12		-
74.2	Provide and fix all required plumbing material such as height pressure PVC of diameter Ø 1½" feeder pipes from nearest available water source near of the compound, with all required fittings (Elbows, T-joints, regulator valves etc.). The price should include excavation of trench and fixing	Item	1		-
	<b>Subtotal - 74</b>				-
<b>75</b>	<b>Over roof</b>				
75.1	Construction of medium 6cm (10cm and 2cm to the two edges) thick 1:4 cement sand mortar with adequate slope to the direction of points where is PVC for rain water collections	m³	20.89		-
75.2	Provide and cover with tarmac paper for 1m². This activity consists: a. Cleaning the surfaces; b. applying two coats of primer Emulsion (MW) paint; c. Providing of first quality green colored tarmac paper with fine aggregate on top; d. burning of tarmac paper by special equipment designed to burn.	m²	348.20		-
75.3	Provide and fix PVC of diameter Ø 11cm to 4 points where is recommended the site Engineer probably attached to reinforced concrete columns for surrounding walls of the building	Item	6		-
75.4	Construction of masonry cement blocks of 90cm height top crown parapet wall. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio	m²	67.59		-
75.5	Construction of 10cm thick and 20cm wide RC coping beam on top of crown parapet wall. The beam should be 1:2:4 mixing ratio with # 4 Y10 and staffs of 6mm@ 250mm/cc	m²	1.50		-
75.6	Construction of masonry cement blocks wall of 90cm height 40cm x 40cm wide to cover the iron bars on top of slab roof. The wall should be made with cement blocks wall of 0.40mx0.20mx0.20m laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that the price should be included supplying of fixing to the iron bars by 6 pieces PVC pipes of diameter 3cm and 10cm height.	Item	24.00		-
75.7	Apply on 20mm thick internal external plastering of cement sand mortar of 1:5 mixing ratio for all new constructed surfaces crown parapet walls.	m²	160.16		-
75.8	Apply two coats white wash with white emulsion filler on all wall surfaces, and filling with it on all depressed area of the wall surfaces including the protection iron bars of columns over the slab roof.	m²	199.78		-
75.9	Apply two coats of light-yellow distemper inside and outside of building wall surfaces including the protection iron bars of columns over the slab roof and with white light grey on external edges of coping beam.	m²	199.78		-
	<b>Subtotal - 75</b>				-
	<b>Total for two open space and 8 toilets of new NIEC building near of MIA</b>				-
<b>S.n.</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Rate in \$</b>	<b>Amount in \$</b>
<b>H.</b>	<b>Construction of main septic tank of the compound</b>				

<b>76</b>	<b>Substructure works</b>				
76.1	Excavation of soft soil for septic tank of 900cm x 1,100cm and 345cm depth starting from stripped level. When construction of foundation and walls finishes, these materials should be returning and filled around foundation, where extra surplus materials must be dumped at least 2km away from the site as per directed by UNDP engineers. Note that this excavation can be used either manpower or machinery.	m <sup>3</sup>	341.55		-
76.2	Ditto soak pit of 240cm x 966cm and 300cm depth	m <sup>3</sup>	69.552		-
76.3	Soak pit cornice wall: Excavation of soft soil for foundation trenches of 80cm wide and 60cm depth starting from stripped level. When construction of wall finishes, these materials should be returning and filled around foundation, where extra surplus materials must be dumped at least 2km away from the site as per directed by UNDP engineers.	m <sup>3</sup>	11.58		-
76.4	Ditto for the six (3 inlet and 3 outlet) manholes of 140cmx100cmx90cm depth.	m <sup>3</sup>	7.56		-
76.5	Construction of 5cm thick Plain cement concrete of class 15 (1:3:6 mixing) under the floor basement of the septic tank of the compound.	m <sup>3</sup>	4.95		-
76.6	Ditto cornice walling of soak pit of 80cm width and 5cm thick around the top edge.	m <sup>3</sup>	0.96		-
76.7	Ditto for the six (3 inlet and 3 outlet) manholes of 140cmx100cmx5cm depth.	m <sup>3</sup>	0.42		-
76.8	R.C (1:2:4 Mixing ratio) floor foundation slab of 880cm x 1,046cm 15cm thick with Ø 12mm main bars and 10mm distribution bars both ways at top and bottom and distanced 15cm c/c. <b>N.B.</b> <i>The structure should be kept moist and protect from the sun for at least 10 days.</i>	m <sup>3</sup>	13.81		-
76.9	Ditto for the six (3 inlet and 3 outlet) manholes of 140cmx100cm15cm depth.	m <sup>3</sup>	1.26		-
76.10	Construction of 40cm wide and 300cm height septic tank wall made by rubble stone jointed and connected by cement sand mortar of mixing ratio 1:6	m <sup>3</sup>	52.44		-
76.11	Ditto for 40cm wide and 55cm height stone walling at top cornice of soak pit.	m <sup>3</sup>	5.66		-
76.12	Construction of cement blocks walling of the six manholes made with cement blocks of 40cmx20cmx20cm laid and jointed with cement sand mortar of 1:6 mixing ratio.	m <sup>2</sup>	15.30		-
76.13	Construct 40cm wide, 15cm thick of reinforced concrete beam at 150cm height level of 1:2:4 mixing ratio with # 8 Y16 and staffs of 8mm@ 250mm/cc over septic tank wall including the middle subdivision wall.	m <sup>3</sup>	2.82		-
<b>Subtotal - 76</b>					<b>-</b>
<b>77</b>	<b>Super structure works</b>				
77.1	Provide and fixing of traditional brush wooden of approximately Ø 8cm diameter and 300cm height or other equal steel structure such as ITP-80mmx30mmx3mm or angle iron of 80mmx80mmx3mm. The poles should be laid horizontally on the top surfaces of the soak pit at distance 116cm c/c	Item	10		-
77.2	Provide and fixing of GI sheets covering of 240cm x 120cm and 1.5mm thick over the wooden or steel poles on top of the soak pit	Item	12		-
77.3	Soak pit: Covering and laying on the GI by 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	33.47		-

77.4	Soak pit: Covering on top of the polythene by pre-excavated soil from the soak pit	Item	1.00		-
77.5	Construct 40cm wide, 20cm thick of reinforced concrete beam ring at final level of the wall of 1:2:4 mixing ratio with # 6Y16 and staffs of 8mm@ 250mm/cc over septic tank wall including the middle subdivision wall.	m <sup>3</sup>	3.76		-
77.6	Provide and compact the gap between septic tank walling and the ground with the pre-excavated soil, pouring and compacting by layers which not exceed than 15cm by layer.	Item	1.00		-
77.7	Provide and pouring of clean broken natural hardcore in the soak pit of 240cm width 966cm length and 300cm height.	m <sup>3</sup>	69.55		-
<b>Subtotal - 77</b>					-
<b>78</b>	<b>R.C roofing</b>				
78.1	R.C (1:2:4 Mixing ratio) slab cover of 15cm thick with Ø 12mm main bars and 10mm distribution bars both ways at top and bottom and distanced 15cm c/c. Note that there will be four access iterance with same concrete and with adequate handles of iron bars of diameter Ø 14mm. <b>N.B.</b> The structure should be kept moist and protect from the sun for at least 10 days.	m <sup>3</sup>	13.81		-
78.2	Ditto for the six (3 inlet and 3 outlet) manholes of 140cmx100cmx15cm depth.	m <sup>3</sup>	1.26		-
<b>Subtotal - 78</b>					-
<b>79</b>	<b>Flooring</b>				
79.1	Plastering with 2cm thick screed cement sand mortar of 1:2 mixing ration on all floor surfaces of the septic tank.	m <sup>2</sup>	77.28		-
79.2	Ditto the three manholes floors of 60cm x 100cm	m <sup>2</sup>	4.32		-
<b>Subtotal - 79</b>					-
<b>80</b>	<b>Plastering, plumbing &amp; other finishing works</b>				
80.1	Apply of first coat on 3cm thick plastering of cement sand mortar of 1:6 mixing ratio for all internal constructed stone wall surfaces of the septic tank	m <sup>2</sup>	141.84		-
80.2	Apply 2cm thick on internal plastering with screed cement sand mortar of 1:2 mixing ratio for all internal septic tank wall surfaces.	m <sup>2</sup>	141.84		-
80.3	Ditto internal wall surfaces of the six manholes	m <sup>2</sup>	16.20		-
80.4	Provide and fix three inlet PVC pipes of diameter Ø 11cm diameter and approximately 180cm length	m	5.40		-
80.5	Ditto three outlet three inlet PVC pipes of diameter Ø 11cm diameter and approximately 750cm length note that this is included the pipes of soak pit	m	22.50		-
80.6	Provide and three inlet PVC junction single plain of diameter Ø 11cm diameter and with approximately 50cm length PVC pipes of diameter 11cm with all required fitting and fixer including holding braces.	Item	3.00		-
80.7	Ditto the three outlet PVC junction single plain of diameter Ø 11cm with all required fitting and fixer including holding braces.	Item	3.00		-
80.8	Provide and fix 12 numbers (six pieces each side) of steps access made by 50cm wide with two braces of 50cm (25 inside the wall and 25 above wall surfaces) GI pipes of diameter Ø 5cm with all required fitting and fixer.	Item	12.00		-

80.9	Provide and three inlet PVC smell pipes of diameter Ø 8cm diameter and 200cm height with all required fitting and fixer including holding braces.	Item	2.00		-
	<b>Subtotal - 80</b>				-
	<b>Total for construction of sharing septic tank of new NIEC building near of MIA</b>				-
S.n.	Description	Unit	QTY	Rate in \$	Amount in \$
<b>I.</b>	<b>Construction of power house</b>				
<b>81</b>	<b>Substructure works</b>				
	<i>Excavation and Earthwork (Provisional)</i>				
81.1	General cleaning for all broken stones, trees, sharps and other material which are the area where is going to be build the building.	m <sup>2</sup>	70.00		-
81.2	Room: Excavation of foundation trenches of 60cm wide and 80cm depth. Excavated material should be used backfilling for the base of the building itself.	m <sup>3</sup>	12.86		-
81.3	2 Ramps: Excavation of soft soil for foundation base of 300cm length, 250cm wide and 20cm depth each ramp starting from stripped level.	m <sup>3</sup>	3.00		-
	<i>Selected filling</i>				-
81.4	Room: Provide and compact 50cm height 480cm wide and 740cm length hardcore layer with approved materials over the floor of the generator room	m <sup>3</sup>	17.76		-
81.5	Ditto: 2 Ramps of 20cm height 300cm length and 250width	m <sup>3</sup>	3.00		-
	<i>Anti-termite treatment</i>				-
81.6	Room: Provide and apply on the upper surfaces of hardcore layer a chemical spry or powder anti-termite treatment as "Premise 200 SC" or other equal and approved anti insecticide materials.	m <sup>2</sup>	35.52		-
81.7	Ditto: 2 Ramps	m <sup>2</sup>	15.00		-
	<i>Damp proof membrane</i>				-
81.8	Room: Provide and lay 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	35.52		-
81.9	Ditto 2 ramps	m <sup>2</sup>	15.00		-
	<i>Concrete work in substructure</i>				-
81.10	Room: Construction of 5cm thick Plain cement concrete of 1:3:6 mixing of 60cm wide	m <sup>3</sup>	0.80		-
81.11	2 Ramps: Construction of 60cm height, 300cm length and 250cm width Plain cement concrete of class 15 ( 1:3:6 mixing) over the two ramps	m <sup>3</sup>	4.50		-
81.12	Construct 40cm wide, 15cm thick of reinforced concrete beam of 1:2:4 mixing ratio with # 6 Y14 and staffs of 6mm@ 250mm/cc over foundation wall	m <sup>3</sup>	1.61		-
	<b>Subtotal - 81</b>				-
<b>82</b>	<b>Foundation Walling and other works</b>				

82.1	Construction of 120cm height (75cm underground and 45cm above ground) foundation wall made by masonry cement blocks (0.40mx0.20mx0.20m) wall laid and jointed by cement sand mortar of 1:6 mixing ratio. Note that price will be include reinforcement hoop iron made by fixing of two lines of iron bars of diameter Ø 8mm for every alternate course. <b>N.B.</b> Note that the given height is only the cement blocks wall which is not included the ring beams	m <sup>2</sup>	32.16		-
82.2	Provide and fixing in the stone walling of 14 pieces GI pipes poles of 100mm diameter. See the attached drawing for height and the way of fixing the pipes	Item	14.00		-
	<b>Subtotal - 82</b>				-
<b>83</b>	<b>Super structure works</b>				
	<i>Concrete work in substructure</i>				
83.1	Room: Laying 10cm thick plain cement concrete of 1:2:4 mixing ratio over newly constructed hardcore layer with proper finish.	m <sup>3</sup>	3.80		-
83.2	Construct two 185cm wide, 380cm and 20cm height of reinforced concrete engine basement of 1:2:4 mixing ratio with Y12 mm@ 100mm/cc both ways	m <sup>3</sup>	2.81		-
	<b>Subtotal - 83</b>				-
<b>84</b>	<b>Construction of concrete blocks and other works</b>				
84.1	Construction of 100cm height masonry cement ventilation blocks (40cmx20cmx20cm) wall laid and jointed by cement sand mortar of 1:5 mixing ratio	m <sup>2</sup>	21.80		-
84.2	Supply and weld with strong rhomboid type chicken mesh on the angle iron of 30mmx30mmx3mm covering with steel plate of 3mmx2mm	m <sup>2</sup>	25.46		-
	<b>Subtotal - 84</b>				-
<b>85</b>	<b>Plastering and other finishing</b>				
85.1	Apply on 30mm thick plastering of cement sand mortar of 1:6 mixing ratio for on external new constructed stone wall surfaces	m <sup>2</sup>	16.08		0
85.2	Apply on 20mm thick plastering of cement sand mortar of 1:5 mixing ratio for all new constructed wall surfaces	m <sup>2</sup>	16.08		0
85.3	Internal external pointing of the jointing area with cement sand mortar of 1:5 mixing ratio. Note the given area is the total area of the wall but the pointing surfaces.	m <sup>2</sup>	43.6		0
85.4	Apply two coats white wash with wood glue fix for all wall surfaces	m <sup>2</sup>	59.68		0
85.5	Apply two coats of light-yellow distemper inside and outside of building walls	m <sup>2</sup>	59.68		0
85.6	Apply two coats of green oil paint for all steel structure including GI poles, chicken mesh and angle iron.	m <sup>2</sup>	25.46		0
	<b>Subtotal - 85</b>				-
<b>86</b>	<b>Roofing</b>				
86.1	Construction of gable end pre-painted Gauge 28 roof made with bottom chord tie beam of wooden of cross section 15cm x 2.5cm and with top chord beam by wooden of cross section 10cm x 5cm connected with rafters of cross section 10cm x 5cm. Covered on it by battens of wooden of cross section 5cmx5cm and GI sheets of 300cmx100cm	m <sup>2</sup>	43.2		-
	<b>Subtotal - 86</b>				-
<b>87</b>	<b>Doors</b>				



87.1	Provide and fix 2.37m height and 2.50m width double wings steel door made with external frame of steel hallow box of 80mmx40mmx2mm, covered to the lowest 1.00m by steel plate of 1.5mm thick and for upper part with steel hallow box of 25mmx25mmx1mm distanced vertically a gap of 100mm each to another, with all necessary fittings, fixtures, handles and locks. The rate shall include all fittings, fixtures, and painting complete. The sample of the door has to be got approved from site engineer.	Item	2.00		0
	<b>Subtotal - 87</b>				-
	<b>Total for construction of generator room</b>				-
<b>S.n.</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Rate in \$</b>	<b>Amount in \$</b>
<b>J.</b>	<b>Construction of tents basement</b>				
<b>86</b>	<b>Substructure works</b>				
	<i>Excavation and Earthwork (Provisional)</i>				
86.1	General cleaning for all broken stones, trees, sharps and other material which are the area where is going to be build the building.	m <sup>2</sup>	900.00		-
86.2	Excavation of foundation basement bed of 30m x 15m and 0.2m depth. Excavated material should be used backfilling for the base of the building itself.	m <sup>3</sup>	90.00		-
	<i>Selected filling</i>				-
86.3	Provide and compact 20cm height hardcore layer with approved materials over the existing floor of whole tent basement	m <sup>3</sup>	180.00		-
	<i>Anti-termite treatment</i>				-
86.4	Provide and apply on the upper surfaces of hardcore layer a chemical spry or powder anti-termite treatment as "Premise 200 SC" or other equal and approved anti insecticide materials.	m <sup>2</sup>	900.00		-
	<i>Damp proof membrane</i>				-
86.5	Provide and lay 1000-gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	m <sup>2</sup>	900.00		-
	<b>Subtotal - 86</b>				-
<b>87</b>	<b>Superstructure</b>				
87.1	Construct two 30m x 15m and 20cm height of reinforced concrete tents basement of 1:2:4 mixing ratio with Y12 mm@ 100mm/cc both ways	m <sup>3</sup>	180.00		-
	<b>Subtotal - 87</b>				-
	<b>Total for construction of two tent basements floor</b>				-

## 2.2. Technical Drawings

Please refer to document titled 'technical drawings' attached as Annex I of this ITB

## 2.3. Requirement of Materials to be used

- 2.2.1 The Contractor will supply all materials and requirements to the site
- 2.2.2 Use of Asbestos and asbestos-containing material is not allowed

### **3. Reporting**

- 2.3.1. For coordination purposes, the contractor shall appoint an engineer who shall be responsible to UNDP for contract implementation and day-to-day operations.
- 2.3.2 The Contractor shall submit progress reports on completion of each milestone. The reports must at a minimum include the following; -
  - a) Statement of works mentioning the percentage of work completed on each part of BoQ amount, complimented
  - b) Milestones and running workplan with time frame

The monthly reports will be verified on ground by the UNDP supervising engineer

### **4. Project Duration**

It is envisaged that the Project will take up to a maximum of 16 weeks.

## Section 5b: Other Related Requirements

Further to the Schedule of Requirements in the preceding table, Bidders are requested to take note of the following additional requirements, conditions, and related services pertaining to the fulfillment of the requirements:

Exact Address of Delivery/Installation Location	<b>The Location is:</b> Mogadishu, Somalia
Inspection upon delivery	All construction materials must be approved by the UNDP supervising engineer.
Warranty Period/Defect Liability period	<ul style="list-style-type: none"> <li>▪ Defect Liability Period (DLP) of 12 months after hand over of site by the Contractor <ul style="list-style-type: none"> <li>➤ If within 12 months after the substantial completion of works, any defects are discovered in the normal course of usage, the Contractor shall remedy the defects at own cost.</li> </ul> </li> <li>▪ On completion of the project, the Contractor must clean the site to the satisfaction of the UNDP supervising engineer. Site clearing, and disposal of debris will be done in accordance with the local administration's regulations</li> </ul>
Technical Support Requirements	On site engineers in accordance with staff qualifications stipulated in the ITB to ensure performance of works as described and illustrated in the Bill of Quantities and technical assessment provided.
Payment Terms	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> progress payment:</b> 50% of total contract value upon completion of 50% of the total scope of works based on the contracted BoQ and acceptance of first progress report.</li> <li>• <b>2<sup>nd</sup> progress payment:</b> 50% of total contract value upon completion of the remaining 50% of the scope of Works thus completing 100% works based on the contracted BoQ and acceptance of completion of the works and handover.</li> </ul>
Conditions for Release of Payments	<p><b>Progress/Interim Payments:</b></p> <ul style="list-style-type: none"> <li>▪ Upon certification of satisfactory completion of works by the UN supervising engineer</li> <li>▪ Certification of payment by the UNDP Portfolio Manager based on certification of satisfactory completion of works by the UN supervising engineer.</li> </ul> <p><b>NB: The UNDP supervising engineer may make corrections to the amount invoiced by the contractor in which case, UNDP may effect payment for the amount so corrected. The engineer may also withhold payment or the performance security if the work is not performed consistent with the terms of contract. The Engineer shall process the invoices submitted within 30 days of receipt.</b></p>
All documentations, including catalogues, instructions and operating manuals, shall be in this language	<b>English</b>

## Section 6: Returnable Bidding Forms / Checklist

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This form serves as a checklist for preparation of your Bid. Please complete the Returnable Bidding Forms in accordance with the instructions in the forms and return them as part of your Bid submission. No alteration to format of forms shall be permitted and no substitution shall be accepted.

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22

### Technical Bid:

<b>Have you duly completed all the Returnable Bidding Forms?</b>	
▪ Form A: Bid Submission Form	<input type="checkbox"/>
▪ Form B: Bidder Information Form	<input type="checkbox"/>
▪ Form C: Joint Venture/Consortium/ Association Information Form (if applicable)	<input type="checkbox"/>
▪ Form D: Qualification Form	<input type="checkbox"/>
▪ Form E: Format of Technical Bid/Bill of Quantities	<input type="checkbox"/>
▪ Form G: Bid Security	<input type="checkbox"/>
▪ CVs of the listed key personnel	<input type="checkbox"/>
<b>Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?</b>	<input type="checkbox"/>

### Price Schedule:

▪ Form F: Price Schedule Form Tables A, B and C	<input type="checkbox"/>
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## **NOTE TO BIDDERS - SOME COMMON EXAMPLES OF WHY BIDS ARE REJECTED BY UNDP.**

Bids have been rejected at the submission stage or found to be technically noncompliant due to errors in presentation and failure to follow Instructions to Bidders. Below are some common examples of why offers are rejected by UNDP. **The ITB document contains the full list of instructions which must be strictly adhered to.** For your bid to be considered for evaluation, it must include all the documents requested for in the ITB.

1. **The Bid is submitted after the deadline for submission (Date and time).** Bids received after the deadline **WILL BE REJECTED**. Bids submitted just before the deadline may arrive after the deadline and be rejected. Therefore, ensure to submit your Bid well in advance of the submission deadline.
2. **Bid is not submitted in the allowable manner. The only allowable mode of submission for this ITB is eTendering at: <https://etendering.partneragencies.org>. BIDS SENT TO OR COPIED TO OTHER UNDP ADDRESSES WILL BE REJECTED.**
3. Bid does not include the signed and stamped Bid Submission Form (Form A)
4. Bid is not signed in accordance with instructions in the ITB. All returnable Bidding forms in the ITB must be completed, signed, stamped and submitted in accordance with instructions in the ITB.
5. Failure to submit all the required eligibility and supporting documents.
6. Documents provided are not translated in English **(translated legal documents must be notarized)**.
7. Documents provided do not directly address each point of the evaluation criteria
8. Bid is more like a brochure for the firm without specifically addressing the specific evaluation criteria in the ITB and Schedule of Requirements and Technical Specifications/Bill of Quantities
9. Bid does not offer goods or services which have been specifically requested by UNDP in the Terms of Reference/Scope of Works
10. The Bidder proposes a major deviation to ITB technical requirement and specifications
11. Failure to regularly check the UNDP and UNGM websites for possible changes to the RFP listed therein prior to the submission deadline which need to be incorporated in the ITB
12. Bid contains viruses and/or corrupted files. Bidders should ensure that submitted Bids DO NOT contain viruses and/or corrupted files. Such Bids will be rejected.

**IMPORTANT NOTE: if a Bidder declines or offers major deviations to the UNDP Contract Terms and Conditions, Bids might be declined at any stage (either at the bids evaluation or contract negotiation stage).**

## Form A: Bid Submission Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	<b>UNDP/SOM/ITB/2019/008/IP: Construction of NIEC Data Centre in Mogadishu, Somalia-REVISION 2</b>		

We, the undersigned, offer to supply the goods and related services required for **Construction of NIEC Data Centre in Mogadishu, Somalia** in accordance with your Invitation to Bid No. **UNDP/SOM/ITB/2019/008/IP- REVISION 2** and our Bid. We hereby submit our Bid, which includes this Technical Bid and Price Schedule.

Our attached Price Schedule is for the sum of [Insert amount in words and figures and indicate currency] for Lot Bidded.

We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium /Association members or subcontractors or suppliers for any part of the contract:

- a) is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists;
- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization;
- c) have no conflict of interest in accordance with Instruction to Bidders Clause 4;
- d) do not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with our firm in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15);
- e) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future;
- f) undertake not to engage in proscribed practices, including but not limited to corruption, fraud, coercion, collusion, obstruction, or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we embrace the principles of the United Nations Supplier Code of Conduct and adhere to the principles of the United Nations Global Compact.

We declare that all the information and statements made in this Bid are true and we accept that any misinterpretation or misrepresentation contained in this Bid may lead to our disqualification and/or sanctioning by the UNDP.

We offer to supply the goods and related services in conformity with the Bidding documents, including the UNDP General Conditions of Contract and in accordance with the Schedule of Requirements and Technical Specifications.

Our Bid shall be valid and remain binding upon us for the period specified in the Bid Data Sheet **(120 Days)**.

We understand and recognize that you are not bound to accept any Bid you receive.

I, the undersigned, certify that I am duly authorized by [Insert Name of Bidder] to sign this Bid and bind it should UNDP accept this Bid.

Name: \_\_\_\_\_

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

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

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

*[Stamp with official stamp of the Bidder]*

## Form B: Bidder Information Form

<b>Legal name of Bidder</b>	[Complete]
<b>Legal address</b>	[Complete]
<b>Year of registration</b>	[Complete]
<b>Bidder's Authorized Representative Information</b>	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Are you a UNGM registered vendor?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No      If yes, [insert UGNM vendor number]
<b>Are you a UNDP vendor?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No      If yes, [insert UNDP vendor number]
<b>Countries of operation</b>	[Complete]
<b>No. of full-time employees</b>	[Complete]
<b>Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):</b>	[Complete]
<b>Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):</b>	[Complete]
<b>Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy)</b>	[Complete]
<b>Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues</b>	[Complete]
<b>Is your company a member of the UN Global Compact</b>	[Complete]



<p><b>Contact person that UNDP may contact for requests for clarifications during Bid evaluation</b></p>	<p>Name and Title: [Complete]</p> <p>Telephone numbers: [Complete]</p> <p>Email: [Complete]</p>
<p><b>Please attach the following documents:</b></p>	<ul style="list-style-type: none"> <li>▪ Company profile, which should <u>not</u> exceed fifteen (15) pages, including printed brochures and product catalogues relevant to services being procured;</li> <li>▪ Valid Certificate of Registration of the Business including Articles of Incorporation, or equivalent document if Bidder is not a corporation;</li> <li>▪ Bidder's authorized representative information;</li> <li>▪ Tax Registration/payment certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations in accordance with National Law or Certificate of Tax Exemption if any such privilege is enjoyed by the Bidder;</li> <li>▪ Audited Financial Statement (Income Statement and Balance Sheet) as required by the law of the Bidder's country, for the financial years 2016, 2017 and 2018;</li> <li>▪ Licences to perform the required construction works under the ITB issued by the relevant government authority;</li> <li>▪ List and value of projects performed over the last five years, plus clients' contact details (name, telephone number, email) who may be contacted for further information on those contracts in table format;</li> <li>▪ List and value of on-going projects with client contact details (name, telephone number and email address) and current percentage completion of each on-going contract in table format;</li> <li>▪ Statement of satisfactory performance from the top three (3) client's or more in terms of contract value for the past five (5) years;</li> <li>▪ A minimum of copies of 3 contracts for construction works of similar scope implemented over the past five years;</li> <li>▪ CVs for the proposed key personnel;</li> <li>▪ Bidders' list of equipment and machinery;</li> <li>▪ Implementation Schedule (time-table);</li> <li>▪ Bid Security</li> <li>▪ Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder <b>(if any)</b>;</li> <li>▪ Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures <b>(if any)</b>.</li> </ul>

## Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP/SOM/ITB/2019/008/IP: Construction of NIEC Data Centre in Mogadishu, Somalia- REVISION 2		

To be completed and returned with your Bid if the Bid is submitted as a Joint Venture/Consortium/Association.

No	Name of Partner and contact information (address, telephone numbers, fax numbers, e-mail address)	Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed
1	[Complete]	[Complete]
2	[Complete]	[Complete]
3	[Complete]	[Complete]

<b>Name of leading partner</b>  (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution)	[Complete]
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We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

☐ Letter of intent to form a joint venture OR ☐ JV/Consortium/Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/Consortium/Association shall be jointly and severally liable to UNDP for the fulfillment of the provisions of the Contract.

Name of partner: \_\_\_\_\_

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

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

Name of partner: \_\_\_\_\_

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

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

Name of partner: \_\_\_\_\_

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

Name of partner: \_\_\_\_\_

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

## Form D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	<input type="text" value="Select date"/>
ITB reference:	<b>UNDP/SOM/ITB/2019/008/IP: Construction of NIEC Data Centre in Mogadishu, Somalia – REVISION 2</b>		

If JV/Consortium/Association, to be completed by each partner.

### History of Non- Performing Contracts

<input type="checkbox"/> Non-performing contracts did not occur during the last 3 years			
<input type="checkbox"/> Contract(s) not performed in the last 3 years			
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client:  Address of Client:  Reason(s) for non-performance:	

### Litigation History (including pending litigation)

<input type="checkbox"/> No litigation history for the last 3 years			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client:  Address of Client:  Matter in dispute:  Party who initiated the dispute:  Status of dispute:  Party awarded if resolved:	

### Previous Relevant Experience

Please list only previous similar assignments successfully completed in the last five (5) years.

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company or was one of the Consortium/JV partners. Assignments completed by the Bidder's individual experts working privately or through other firms cannot be claimed as the relevant experience of the Bidder, or that of the Bidder's partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. The Bidder should be prepared to substantiate the claimed experience by presenting copies of relevant documents and references if so requested by UNDP.

Project name & Country of Assignment	Client & Reference Contact Details (please also include contact person name, telephone number, email address)	Contract Value	Period of activity	Project Status i.e, complete or ongoing.	Types of activities undertaken

Bidders may also attach their own Project Data Sheets with more details for assignments above.

☐ Attached are the Statements of Satisfactory Performance from the Top 3 (three) Clients or more in terms of contract value.

#### Financial Standing

Annual Turnover for the last 3 years	Year 2016	USD
	Year 2017	USD
	Year 2018	USD
Latest Credit Rating (if any), indicate the source		

Financial information (in US\$ equivalent)	Historic information for the last 3 years		
	2016	2017	2018
	<i>Information from Balance Sheet</i>		
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
	<i>Information from Income Statement</i>		
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

☐ Attached are copies of the audited financial statements (balance sheets, including all related notes, and income statements) for the years required above (2016, 2017, and 2018) complying with the following condition:

- a) Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;

- b) Historic financial statements must be audited by a certified public accountant;
- c) Historic financial statements must correspond to accounting periods already completed and audited. No statements for partial periods shall be accepted.

## Form E: Format of Technical Bid

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	<b>UNDP/SOM/ITB/2019/008/IP: Construction of NIEC Data Centre in Mogadishu, Somalia – REVISION 2</b>		

The Bidder's Bid should be organized to follow this format of the Technical Bid. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same will be viewed as non-responsive.

### SECTION 1: Bidder's qualification, capacity and expertise

- 1.1 General organizational capability which is likely to affect implementation; management structure, financial stability and project financing capacity, project management controls, extent to which any work would be subcontracted (if so, provide details).
- 1.2 Relevance of specialized knowledge and experience on similar engagements done in the region/country;
- 1.3 Quality assurance procedures and risk mitigation measures
- 1.4 Organization's commitment to sustainability;
- 1.5 List of Equipment and machinery owned by Bidder

### SECTION 2: Scope of Supply, Technical Specifications, and Related Services

This section should demonstrate the Bidder's responsiveness to the specification by identifying the specific components proposed, addressing the requirements, as specified, point by point; providing a detailed description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the requirements/specifications. All important aspects should be addressed in sufficient detail.

- 2.1 A detailed description of how the Bidder will deliver the required goods and services, keeping in mind the appropriateness to local conditions and project environment. Details how the different service elements shall be organized, controlled and delivered.
- 2.2 Explain whether any would be subcontracted, to whom, how much percentage of the requirements, the rationale for such and the roles of the proposed sub-contractor
- 2.3 The bid shall also include details of the Bidder's internal technical and quality assurance review mechanisms
- 2.4 Implementation plan including a Gantt Chart of Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing
- 2.5 Demonstrate how you plan to integrate sustainability measures in the execution of the contract

## Technical Compliance Sheet

Goods and services to be Supplied and Technical Specifications	Your response		
	Comments		
	Compliance with technical specifications		Comments
	Yes, we comply	No, we cannot comply (indicate discrepancies)	
A minimum of five years experience in the field of construction			
Full compliance of Bid to ITB Technical Requirements in the ITB <b>Important Note:</b> The Evaluation Panel will prepare a separate technical compliance matrix to verify the technical compliance of each of the items quoted by the Bidder following this format/template			
Bid Validity (120 days)			
Minimum of three similar project in nature, complexity and value completed by the Bidder in the past five years			
Minimum average annual turnover of USD 500,000 for the years (2016, 2017 and 2018)			
Sound financial standing (minimum acceptable Current Ratio of not less than 1.0 for each financial year)			
Acceptance of all Provisions of the UNDP General Terms and Conditions for Civil Works: <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>			
Suitability and technical qualification of the technical personnel proposed to the project in relation to their qualification and years of experience as required			
Suitability of implementation schedule			
Suitability and adequacy of equipment and machinery			

Other Related Services and Requirements	Your response		
	Comments		
	Compliance with technical specifications		Comments
	Yes, we comply	No, we cannot comply (indicate discrepancies)	
Location of Works			
Cleaning of site on completion			
Payment Terms			

### SECTION 3: Management Structure and Key Personnel

- 3.1 Describe the overall management approach toward planning and implementing the project. Include an organization chart for the management of the project describing the relationship of key positions and designations. Provide a spreadsheet to show the activities of each personnel and the time allocated for his/her involvement.
- 3.2 Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to the scope of goods and/or services.

### Format for CV of Proposed Key Personnel

<b>Name of Personnel</b>	[Insert]
<b>Position for this assignment</b>	[Insert]
<b>Nationality</b>	[Insert]
<b>Language proficiency</b>	[Insert]
<b>Education/ Qualifications</b>	<p><i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i></p> <p>[Insert]</p>
<b>Professional certifications</b>	<p><i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i></p> <ul style="list-style-type: none"> <li>▪ Name of institution: [Insert]</li> <li>▪ Date of certification: [Insert]</li> </ul>



<b>Employment Record/ Experience</b>	<i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]</i>
	[Insert]
<b>References</b>	<i>[Provide names, addresses, phone and email contact information for two (2) references]</i>
	Reference 1:  [Insert]
	Reference 2:  [Insert]

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

\_\_\_\_\_  
Signature of Personnel

\_\_\_\_\_  
Date (Day/Month/Year)

## Form F: Price Schedule Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	UNDP/SOM/ITB/2019/008/IP: Construction of NIEC Data Centre in Mogadishu, Somalia – REVISION 2		

Bidders are required to prepare the Price Schedule following the below format. The price schedule must include a detailed cost breakdown of all good and related services to be provided. Separate figures must be provided for each functional grouping or category (if any).

**TABLE A: Cost Breakdown per Deliverable\***

Deliverable		Percentage of Total Price (weight for payment)	Amount in USD
1	Upon completion of 50% of the total scope of works based on the contracted BoQ	50%	
2	Upon completion of works for the remaining 50% thus, completing 100% works in accordance with the contracted BoQ and issuance of certificate of substantial completion of works by the UNDP Engineer	50%	
<b>Total</b>		<b>100</b>	

**\*Basis for release of tranches**

**TABLE B: Priced Bills of Quantity (BoQ)**

**Currency of the Bid:** United States Dollar

**Bidders are required to attach the priced BoQ in Excel format (Annex II) and, also in signed and stamped .pdf format.**

**NOTES:**

1. It is the responsibility of the bidders to verify the accuracy of the information, prices and calculations in the price schedule sheet.
2. The rates and prices bid in the Price schedule shall be inclusive of ALL COSTS required for completion of all works and includes all labour, supervision, materials, transportation and contingencies as well as all general risks and obligations set out or implied in the contract.
3. Arithmetic errors will be corrected consistent with Clause 34 of Section 2 of this ITB.

Name of Bidder : \_\_\_\_\_

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

Nate of authorised signatory: \_\_\_\_\_

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

*Stamp with official company's stamp*

**TABLE C: Summary of Price Schedule Form**

UNDP/SOM/ITB/2019/008/IP: Construction of NIEC Data Centre in Mogadishu, Somalia- REVISION 2.

*Please complete the table in full.*

Summary for construction of Data center three open spaces toilets safe and server rooms for NIEC in Mogadishu- Somalia		
Item no.	Description of activity	Total cost in US \$
A.	Site cleaning preparation activities	-
B.	Construction of retaining wall at north side of the building	-
C.	Sitting up and construction of protection hoarding wall	-
D.	Construction of Data center hall with screening room and toilets	-
E.	Construction of one open space server room and safe haven	-
F.	Construction of staircase access of the building	-
G.	Construction of two open spaces and toilets	-
H.	Construction of main septic tank of the compound	-
I.	Construction of power house	-
J.	Construction of tents basement	-
Grand total for construction of NIEC building near of MIA gavel road		-

Name of Bidder : \_\_\_\_\_

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

Nate of authorised signatory: \_\_\_\_\_

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

*Stamp with official company's stamp*

## FORM G: BID SECURITY FORM

*(This must be finalized using the official letterhead of the Issuing Bank. Except for indicated fields, no changes may be made on this template)*

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To: UNDP Somalia  
*[Insert contact information as provided in Data Sheet]*

WHEREAS *[name and address of Contractor]* (hereinafter called “the Bidder”) has submitted a Bid to UNDP Somalia dated [Click here to enter a date.](#), to execute Services ..... (hereinafter called “the Bid”):

AND WHEREAS it has been stipulated by you that the Bidder shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security in the event that the Bidder:

- a) Fails to sign the Contract after UNDP Somalia has awarded it;
- b) Withdraws its Bid after the date of the opening of the Bids;
- c) Fails to comply with UNDP’s variation of requirement, as per ITB instructions; or
- d) Fails to furnish Performance Security, insurances, or other documents that UNDP may require as a condition to rendering the contract effective.

AND WHEREAS we have agreed to give the Bidder such this Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Bidder, up to a total of *[amount of guarantee]* *[in words and numbers]*, such sum being payable in the types and proportions of currencies in which the Price Schedule is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of *[amount of guarantee as aforesaid]* without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

This guarantee shall be valid up to 30 days after the final date of validity of bids.

### ***SIGNATURE AND SEAL OF THE GUARANTOR BANK***

Date .....

Name of Bank .....

Address .....