STANDARD BIDDING DOCUMENTS

GUYANA POWER AND LIGHT INC

Procurement of Works

Construction of Training School Building at GPL'S Sophia Compound

IFB # GPL - PI - 022 -2018

August 2018

Closing Date: Friday 31st August, 2018 @ 14:00 hrs or 2:00pm
Bid Opening: Friday 31st August, 2018 @ 14:30 hrs or 2:30pm

Invitation for Bids
Co-operative Republic of Guyana
(IFB)# GPL - PI - 022 – 2018

The Guyana Power and Light invites sealed bids from qualified bidders for the **Construction of Training School Building at GPL'S Sophia Compound.**

1. Interested bidders may obtain further information from the Project Manager's (Civil Engineer's Office), Guyana Power & Light 257/259 Middle Street, Cummings burg, Georgetown, Tel. 227-6909.

2. A complete set of bid documents can be purchased for a non refundable fee of G$4,000.00 from the Secretary - Procurement and Inventory Accounting Manager, Guyana Power & Light Inc, 40 Main Street Georgetown Guyana or a copy can be downloaded from our web site http://www.gplinc.net

3. Qualification requirements include valid Income Tax and NIS Compliance Certificates, Work Programme, List of Similar Projects, List of Equipment Available for the Project. If the Bid is from a firm/company, a copy of the business registration must be attached.

4. Sealed Bids must be delivered to The Secretary to the Tender Board, Guyana Power & Light, 91 Duke Street, Kingston, and Georgetown on or before 2:00 p.m. on Friday 31st August, 2018.

5. Bid opening is schedule for 14:30hrs (2.30 pm) on Friday 31st August, 2018 in GPL'S Board Room, 91 Duke Street, Kingston in the presence of bidders/representatives who choose to attend in person.

6. Bidders downloading the bid document are advised to forward a registration email to procurementofficer@gplinc.com or supv_procurement@gplinc.com stating the following: Name of bidder, Address, Contact No and Email address.
   The above information will be used to inform bidders of any amendments to the bidding document and also to forward all responses to queries.

7. All bids "shall" be accompanied by a "Bid Security" of 2 % of the bid price.

8. The Guyana Power & Light is not obligated to accept the lowest or any bid.

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INSTRUCTIONS TO BIDDERS (ITB)

A. Introduction

1. Scope of works and Source of Funds

The Procuring entity is The Guyana Power and Light, Inc hereinafter referred to as "the Employer") for the execution of the Works described in the *Bid Data Sheet. Works will be funded by Guyana Power and Light, Inc*.

2. Eligible Bidders

2.1 This Invitation for Bids is open to all contractors from any country, exclusive of those prohibited by the legislation of Guyana or by another international agreement the participant of which is Guyana.

2.2 A bidder may be an individual or legal entity, or a combination of any abovementioned forms with a formal intent to enter into an agreement or to operate under an existing agreement in the form of a Partnership.

2.3 Government and municipal enterprises may only participate if they are legally and financially autonomous, and if they are legally eligible to carry on business.

2.4 Bidders should not have a conflict of interests, should not be associated (nor have been associated in the past), directly or indirectly, with any firm or any of its affiliates that has been engaged by the Employer to provide consulting services at preparation stage of the bidding documents, technical specifications, project and other documents to be used for procurement of works in accordance with this Invitation for Bids or being proposed as Engineer under this Contract.

2.5 A Bidder or any affiliate that has been engaged by the Employer to perform consulting services at preparation stage of the bidding and other documents shall not be entitled to participate in bidding, and if conflict of interests is found, bidder' bid shall be rejected.

2.6 Bidders should provide information on legal status, place of registration and principal type of business; a license to execute the works specifying identification number and validity period, and a written power of attorney of the signatory of the bid to assume obligations on behalf of the Bidder.

2.7 The bidder should not have more than one improperly performed procurement contract within the past two years preceding the commencement of the present procurement proceeding.

2.8 The bidder should not be insolvent, bankrupt, their property should not be controlled by judicial authority, their cases should not be commanded by court or by the person appointed by court, their commercial activities should not be suspended, and they should not be a subject of such judicial proceedings.

2.9 The bidder should fulfill the tax and social insurance fund liabilities in Guyana.

2.10 Bidders, and their management personnel within three years preceding the commencement of procurement proceedings should not be associated with giving false information or a misrepresentation as to their qualification information for the purposes of entering into a procurement contract.

2.11 Bidders should provide information on the total annual volume of construction works executed for each of the last two years;

2.12 Bidders should provide information on major items of construction equipment proposed to carry out the Contract.

2.13 Bidders should provide information on the qualifications and experience of key management and technical personnel proposed for the Contract.

3. Qualifications of Bidders

3.1 Information on bidders' qualifications is to be included in Annex No. 9 "Qualification Information" to be incorporated in the bid.

3.2 A bid submitted by a partnership or syndicate consisting of two or more firm-partners should comply with the following requirements:

(a) The bid shall include all the above-listed information for each partnership or syndicate partner;

(b) the bid shall be made up and signed so as to be legally binding on all partners;

(c) one of the partners shall be nominated as being in charge, and his authorities should be confirmed by authorization to be signed by the authorized signatories of all partners;

(d) the bid should incorporate a formal agreement of partnership (or a letter of intent to establish one) which specifies, inter alia, that all partners shall be liable jointly and severally for execution of the Contract, and that the partner in charge shall be entitled to incur liabilities and receive instructions for and on behalf of any and all partners, and all operations on the execution of the Contract, including payment shall be done exclusively by the partner in charge.

3.3 To qualify for award of the Contract, bidders should meet the following minimum qualifying criteria, and provide the following information and documents with their bids:

(a) volume of construction work executed for the last 2 years should be not less than G$ 100,000,000.00 per year.

(b) To own or to have the possibility to lease, hire, etc the essential construction equipment listed in the Qualification Information form.

(c) Managers and line employees with experience in executing works of a similar nature and size for not less than 3 (three) years.

4. One Bid per Bidder

Each Bidder shall submit only one Bid, either individually or as a partner in a partnership or syndicate. All bids involving the Bidder who submits or participates in more than one Bid (exclusive of subcontractors, or permitted or required alternatives) shall be rejected from participation in bidding.

5. Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of the bid. The Employer shall not be responsible or liable for those costs.

6. Site Visit

The Bidder, at the Bidder's own responsibility and risk, may visit and examine the Site of expected Works and its surroundings. All information obtained by the Contractor individually while visiting the site, may be used by him to prepare the bid and enter into the Contract. The costs of visiting the Site shall be at the bidder's own expense. The bid submission means that the Bidder has examined the Site of future Works and has accepted all the existing conditions.

B. List of documents included in the bidding documents

7. Content of Bidding Documents

7.1. The set of bidding documents includes the following:

(a) Instructions to Bidders (ITB);

(b) Bid Data Sheet (BDS);

(c) General Conditions of Contract (GCC);

(d) Special Conditions of Contract (SCC);

(e) Form of Bid;

(f) Qualification Information;

(g) Drawings;

(h) Bill of Quantities;
(i) Technical Specifications;
(j) Form of Contract;
(k) Form of Bid Security;
(l) Form of Performance Security;
(m) Form of Bank Guarantee for Advance Payment;
(n) Form of Power of Attorney for signing the bid.

7.2 The Bidder shall examine all instructions, forms, conditions and technical specifications incorporated in the bidding documents. Failure to provide all information required in the bidding documents, or submission of a non-responsive bid may result in rejection of his bid.

8. Clarification of Bidding Documents

8.1 The Bidder requiring any clarification of the bidding documents may address the Employer at the address *indicated in the Bid Data Sheet* in writing by fax or electronic messaging. The Purchaser will respond in writing to any request for clarification of the bidding documents to be received not later than 7 (seven) days prior to the deadline for submission of bids. Copies of response, including an explanation of matter's substance, but without identifying its source, will be forwarded by the Employer in writing to bidders who received the bidding documents within 3 (three) working days.

8.2 The Pre-bid conference will be conducted according to decision of the Purchaser and, if so, at the time, date and address indicated in the *Bid Data Sheet*. Before the conference Bidders may address the Employer with questions for the conference, and at the conference may ask any question and receive answer to the questions submitted regarding the bidding documents. All information obtained at pre-bid conference, requests of potential bidders related to clarification of the bidding documents, and responses to them shall be recorded by the Employer, and by the results of conference, a record is made and promptly communicated to all Bidders who received the bidding documents in order to enable bidders to take them into account when preparing their bids.

9. Amendment of Bidding Documents

9.1 In special circumstances, at any time before expiry of the deadline for submission of bids, the Employer, for any reason, whether at its own initiative or in response to request for clarification forwarded by the Bidder, may modify the bidding documents by issuing addenda to it. Any addenda issued shall be a part of the bidding documents, and should be sent to all bidders who received the bidding documents from the Employer, which may be done by using fax or electronic message. Bidders should confirm the receipt of each addendum in writing or by fax or electronic message, and these addenda shall be binding.

9.2 In order to give Bidders enough time to take into account the amendments introduced while preparing their bids, the Purchaser, at his discretion, may extend the deadline for submission of bids.

B. Preparation of Bid

10. Language of Bid

The Bid prepared by the Bidder and all correspondence and documents related to this Bid that is exchanged by the Bidder and the Purchaser, should be written in the language *specified in the Bid Data Sheet*.

11. Documents Included in the Bid

The Bid prepared by the Bidder should include the following documents:

(a) filled in Form of Bid;
(b) qualification information and documents confirming that Bidder has a sufficient qualification required for the execution of the Contract in case if his bid accepted;
(c) priced Bill of Quantities and priced list of consumable materials;
(d) Bid Security provided in accordance with ITB Clause 15;
(e) General Conditions of Contract and Special Conditions of Contract (signed by Bidder page-by-page);
(f) Technical Specifications used for the execution of the Works;
(g) Alternative offers (at the Purchaser's request);
(h) other documents to be filled in by bidders in accordance with the requirements indicated in *the Bid Data Sheet*;
(i) Power of attorney for signing the Bid.

12. Bid Price

12.1 The Contract is applicable to the whole amount of Works listed in priced Bill of Quantities and list of priced consumable material price presented by the Bidder in its bid.

12.2 The Bidder shall indicate the rates and prices for all kinds of works included in the Bill of Quantities, drawings and specifications. The kinds of works for which no rate and price is entered by the Bidder will not be paid for when executed, and it is considered that they are included in the rates and prices for other kinds of works.

12.3 When determining the bid price, the Bidder shall take into account the total value of labor, materials, plant, instruments, water, heat, electric power, transportation, machinery and equipment, and other services which are required during and for completion of the construction works.

12.4 All duties, taxes, and other levies payable by the Contractor under the current legislation of Guyana should be included in the bid price.

13. Bid Currency

The Bidder shall submit all documents on mutual settlements, and shall indicate the bid price in Guyana Dollars.

14. Period of Validity of Bids

14.1 Bids shall be valid during the number of days indicated in *the Bid Data Sheet* after the date of bid opening. The bid with shorter validity period should be rejected by the Employer as non-responsive to the bidding documents.

14.2 In exceptional circumstances, the Employer may request bidders to extend the period of validity of their bids for a certain period. Such requests and responses to them shall be made in writing, and may be sent by fax, telex or electronic mail. A Bidder may refuse the request on extension of the period of validity of his bid, without forfeiting the return of security. A Bidder agreeing to the request will not be required nor permitted to modify the bid, but will be required to extend the validity of bid security for a period of not less than 2(two) weeks after the expiry of the extended period of bid validity.

15. Bid Security

15.1 The Bidder should provide, as part of his bid, the bid security (not more than two percent of bid price) in the amount and form specified in *the Bid Data Sheet* with a validity period of not less than 2 weeks after the expiry of a period of bid validity.

15.2 The Bid security should be expressed in the bid currency, or in another freely convertible currency, and shall be a bank guarantee issued by the bank located in Guyana or by local correspondent bank in case when the security is issued by the foreign bank, or in any other form permitted by the Bid Data Sheet, such as debenture bond, cash, shares accepted for public transactions, certificates of deposit to bearer or promissory notes.

15.3 All bids not having a security shall be rejected by the Employer as non-responsive to the bidding documents.

15.4 The bid security shall be returned to unsuccessful Bidders as soon as possible but not later than fifteen (15) days upon the expiry of bid validity period, or after furnishing the performance security by successful bidder.

15.5 The successful Bidder shall receive the bid security after the signing of Contract pursuant to ITB Clause 34, and after furnishing the performance security (in the case when required).

15.6 The Bid security may be forfeited:

(a) if the Bidder:

(1) withdraws his bid after the opening during the period of bid validity specified in his bid;

(2) does not agree with the correction of arithmetical errors in his bid.

(b) in case of the Contract award to Bidder, if this Bidder fails:

(1) to sign the Contract on the terms and conditions specified in his bid, in accordance with ITB Clause 31**,** or

(2) to furnish the Performance Security, in accordance with ITB Clause 32.

16. Alternative offers at the request of the Purchaser

16.1 The Purchaser may request in the Bidding Documents for bid submission taking into account alternative conditions. In this case all requirements of the bidding documents are applied to alternative offers to that extent as well as to basic offers. The alternative offers shall not be considered, unless allowed or required in the bidding documents. **Alternative Bids are not permitted**

16.2 If so allowed by *the Bid Data Sheet*, the bidders wishing to submit the bids, taking into account the alternative conditions must also submit the bids that comply with the requirements of the bidding documents, including the basic technical features as indicated in the drawings and specifications. In addition to submitting the basic Bid, the Bidders shall provide all information necessary for a complete evaluation of the alternative conditions by the Purchaser, including design calculations, technical specifications, breakdown of prices, proposed construction methods and other relevant details.

16.3 Only the alternatives of Bidder who submitted the lowest evaluated Bid in accordance with the basic requirements of the bidding documents shall be considered by the Purchaser.

16.4 The Bidder, in his Bid, shall indicate the basic price of works to be executed, in accordance with the requirements of the bidding documents, and individually the price of works to be executed using the alternative offer.

17. Format and Signing of Bid

17.1 The Bidder should prepare 1 (one) original and 1 (one) copy of the bid clearly marking each as "**ORIGINAL OF THE BID**" and "**COPY OF THE BID**" accordingly. In the case of discrepancies between them, the original shall prevail.

17.2 The original and all copies of the bid shall be typed or written in indelible ink, and shall be signed by the Bidder or by a person (persons) having all authorities to sign the bid and obligations under the Contract. Permission to sign the bid should be specified in the power of attorney to be provided with the bid. All pages of the bid where new information, change or erasure inserted should be initialed (signed) by the person or persons signing the bid.

17.3 The bid shall contain no interlineations, erasures or overwriting, exclusive of the cases when the Bidder needs to correct errors which should be initialed by the person or persons signing the bid.

D. Submission of Bids

18. Sealing and Marking of Envelopes with Bids

18.1 The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "**ORIGINAL**" and "**COPY**." The envelopes shall then be sealed in an outer envelope.

18.2 The inner and outer envelopes shall:

(a) be addressed to the Employer at the address specified in the Invitation for Bids;

(b) bear the Invitation for Bids (IFB) name and number, and the words **"DO NOT OPEN BEFORE"** (2:30 pm on Friday 31st August 2018);

(c) Name and address of the Bidder

18.3 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Employer will assume no responsibility for the bid's misplacement or premature opening.

18.4 Bidder must submit valid certificates of compliance from Guyana Revenue Authority (GRA) and National Insurance Scheme (NIS), and VAT registration (*where applicable)*

19. Deadline for Submission of Bids

19.1 Bids must be received by the Employer at the address and on the dates specified in *the Bid Data Sheet.*

19.2 The Employer may, at his discretion, postpone the deadline for submission of bids for later period by modifying the bidding documents, and in this case the validity period of all rights and obligations of the Employer and the Bidders shall be extended subject to the changed deadline date.

20. Late Bids

All bids received by the Purchaser after the deadline for submission of bids specified by the Employer shall be rejected and returned to Bidder unopened.

21. Modification and Withdrawal of Bids

2.11 The Bidder may modify or withdraw his bid after the bid submission, provided that the Employer will receive a written notice of modification or withdrawal of the bid before the expiry of determined deadline for submission of bids, duly signed by an authorized representative, and accompanied by a copy of the authorization.

21.2 The Bidder's modification or withdrawal notice should be prepared, sealed, marked, and sent in accordance with the provisions of ITB Clause 18. In this case the outer and inner envelopes shall be additionally marked "**MODIFICATION**" or "**WITHDRAWAL**", as appropriate. A withdrawal notice may also be sent as a telegram by telex or fax with a subsequent written confirmation though post-office not later than the deadline for submission of bids.

21.3 No changes should be added in the bids after the expiry of the period determined for bid submission.

21.4 No bid may be withdrawn or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity indicated by the Bidder on the Bid Form. Withdrawal of the bid during this interval may result in the Bidder's forfeiture of his bid security, in accordance with ITB Clause 15.6.

E. Opening and Evaluation of Bids

22. Opening of Bids by Employer

22.1 The Employer will open all bids in the presence of bidders' representatives who wish to attend it at the time, on the date, and at the address specified in *the Bid Data Sheet***.** The bidders' representatives who are present shall sign a register evidencing their attendance.

22.2 The envelopes marked as "**WITHDRAWAL**" and "**MODIFICATION**" will be opened first and read out. In this case the bids for which a withdrawal notice has been sent in accordance with Clause 21, the envelopes shall be returned to Bidders unopened.

22.3 The bidders' names, the Bid prices, including alternatives (if alternatives permitted), price reduction specified in the Bidder's bid, information on the presence or absence of required Bid Security, information on the presence (absence) of tax debts and debts of social insurance payments will be announced at the opening. No bid may be rejected in the bid opening, exclusive of the late bids which should return to Bidder unopened.

22.4 Bids (and modifications sent pursuant to ITB Clause 21.2) that have not been opened and read out at the opening shall not be accepted for further evaluation, irrespective of circumstance.

22.5 The Employer shall maintain the minutes of Bid opening where information to be disclosed to those who are present and to be promptly sent to the Authorized State Procurement Body is included.

23. Confidentiality Observance and Contacting the Purchaser

23.1 Information relating to the examination, evaluation and comparison of bids, and recommendations for the award of a Contract shall not be disclosed to other persons interested in this process until information on award of the Contract will be given to all Bidders.

23.2 No Bidder shall contact the Employer on any matter related to his bid from the date of bid opening and until the date of contract award, exclusive of requests for clarification of the bid.

23.3 Any effort on the part of any Bidder to influence the Employer's decision on the bid evaluation, bid comparison, or the Contract award may result in the rejection of this Bidder's Bid.

24. Clarification of Bids

During the bid evaluation, the Employer may, at his discretion, request the Bidder to give clarifications on his Bid. The request for clarification and the response should be given in writing, and in this case no change in the price or substance of the bid shall be sought, offered, or permitted, exclusive of the cases when required to correct arithmetical errors discovered by the Employer during the evaluation of bids in accordance with ITB Clause 26.

25. Preliminary examination of Bids

25.1 Prior to the detailed evaluation of bids, the Employer will examine the bids in order to determine whether they meet the eligibility criteria; whether there is a bid security, whether the documents have been properly signed; whether they are substantially responsive to the requirements of the bidding documents.

25.2 A substantially responsive bid is one which satisfies all the above provisions without a material deviation, reservation or omission. A material deviation reservation or omission is one:

- **a)** which affects in any substantial way the scope, quality, or performance of the Works;
- **b)** which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the Bidder's obligations under the Contract; or
- **c)** whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

They concern, for example, such important provisions as the bid security, bidders' qualification information, and effect on the scope, quality, or performance of the works, taxes and insurance payments are deemed a material deviation. Determination by the Employer of each bid's degree of responsiveness to those requirements should be based on the content of the bid itself without reference to any additional sources.

25.3 The Employer may waive any minor nonconformity, small mistake or inaccuracy in the bid which are not a material deviation from the requirements of the bidding documents, and such non-conformity or inaccuracy shall not influence on evaluation of the bid. When the minor omissions do affect the evaluation of the bid (e.g., costs to the Employer, or other aspects of the required performance), the minor deviations should be quantified in monetary terms, with corresponding adjustments to the bid price (only for the purposes of comparing bids)

25.4 If the bid is not substantially responsive to the qualification requirements, it shall be rejected by the Employer, and may not be subsequently accepted as responsive after inclusion of appropriate corrections made by the Bidder.

26. Correction of Arithmetical Errors in Bids

26.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetical errors. Errors will be corrected by the Employer as follows:

(a) when there is a discrepancy between the value expressed in figures and words, the value in words will govern; and

(b) when there is a discrepancy between the unit rate and the total resulting from multiplying the unit rate by the quantity, the unit rate will govern, unless in the opinion of the Employer, there is a obviously gross misplacement of the decimal fraction, in this case the total will govern and the unit rate will be corrected.

26.2 The value indicated in the bid, by the Bidder's consent, will be adjusted by the Employer in accordance with the above-stated rules of correction of errors, and is deemed mandatory to the Bidder. If the Bidder does not accept the corrected bid price, the Bid shall be rejected, and the bid security may be forfeited in accordance with Clause 15.6.

27. Evaluation and Comparison of Bids

27.1 The Employer will evaluate and compare only the bids determined to be substantially responsive to the requirements of the bidding documents in accordance with Clause 25.

27.2 When evaluating the bids, the Employer will determine for each Bid, the Evaluated Bid Price by adjusting the Bid Price as follows:

(a) Correction of arithmetical errors pursuant to Clause 26;

(b) Exclusion of provisional sums and costs for contingencies pursuant to the Bill of Quantities;

27.3 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the bidding documents or otherwise result unsolicited benefits for the Employer will not be taken into account in bid evaluation.

F. Award of Contract

28. Award Criteria

Exclusive of the cases provided for in Clause 29, the Employer will award the Contract to the Bidder whose bid is determined to be substantially responsive to the bidding documents, and who offered the Lowest Evaluated Bid Price, provided that this Bidder has been determined to be (a) eligible in accordance with Clause 2 and (b) met with qualification requirements in accordance with Clause 3.

29. Employer's Right to accept any Bid and Reject any or All Bids

29.1 The Employer reserves the right to accept or reject any or all bids, and to annul the bidding process at any time prior to the award of Contract, without thereby incurring any liabilities to bidders.

29.2 In case when the bidding process annulled, the Employer should, during 3 working days, send to all Bidders a notification indicating the reasons which served as a ground for the annulment, without giving evidences of that ground.

30. Notification of Award

30.1 Within 3 days after the conducted selection of the successful Bidder, and before the expiry of the period of bid validity, the Employer will notify the successful Bidder by telex, fax or email confirming by registered letter that his bid has been determined to be successful. This letter (hereinafter and in «*the General Conditions of Contract*» called «the Letter of Acceptance») should refer to the sum that the Employer shall pay to the Contractor for execution of the Works in accordance with the Contract (hereinafter and in the Contract called «the Contract Price»).

30.2 The notification of award shall be equivalent to entering into a Contract, subject to the Bidder providing the performance security pursuant to Clause 32 and will sign the Contract pursuant to Clause 31.

30.3 At the same time that notification of award is given to the successful bidder, the Employer shall notify other bidders in writing of the selection, including the name of the successful bidder and the bid price. The Employer shall also publish a notice in the Public Procurement Bulletin indicating the name and address of the successful bidder and the bid price quoted by him.

30.4 Unsuccessful bidders may request in writing to the Employer for a debriefing seeking explanations for the failure of their bids. The Employer shall promptly respond in writing to any unsuccessful Bidder who requests the Employer in writing to explain on which grounds its bid was not selected.

31. Signing of Contract

32.1 At the same time with notification of award, the Employer will send to the successful Bidder, the Form of Contract contained in the Bidding documents.

31.2 During seven (7) days of the receipt of a written Notice of acceptance and the Form of Contract, the successful Bidder should sign and date the Contract, and return it to the Purchaser.

32. Performance Security

32.1 Together with the signed Contract, the successful Bidder will send to the Employer, the Performance Security in the amount indicated in *the Bid Data Sheet*.

32.2 If the successful Bidder fails to provide the performance security, or during 7 (seven) days does not return the Contract signed, then the Employer shall reject the bid and confiscate the bid security, in that case the Employer shall award the Contract to the next evaluated Bidder, whose bid is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily, subject to the Employer's right to reject all bids in accordance with Clause 29, and the applicable Law and Regulations.

33. Corrupt and Fraudulent Practices

33.1 The Employer requires that the Bidders observe the highest standards of ethics during the procurement and execution of such Contracts. In pursuance of this policy, the Employer:

(a) for the purposes of provisions of this Clause, uses the following notions:

I. "corrupt practice" - means the offering, giving, the agreement requesting for remuneration in any form, or services rendering in order to influence the action of a public official in the procurement process or in contract execution; and

II. "fraudulent practice" - means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Employer, including collusive practices among Bidders (prior to or after bid submission), to establish bid prices at artificial non-competitive level, and deprive the Employer of the benefits of free and open competition;

III. "collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Employer, designed to establish bid prices at artificial, noncompetitive levels; and

IV. "coercive practice" means harming or threatening to harm (directly or indirectly), persons or their property to influence their participation in the procurement process or the execution of a contract;

(b) will reject the bid if it determines that the Bidder recommended for award of the Contract has engaged in corrupt, fraudulent, collusive or coercive practices during the bidding process or execution of a contract;

(c) will declare the Contractor for indefinite, or for a specified period of time to be ineligible to participate in the state-financed biddings in accordance with a Regulation on the establishment of Database of unreliable (unfair) suppliers and its application procedures.

34. Penalties

A penalty for slow or non-performance will be imposed as per the rate prescribed or Liquidated Damages. Slow or non-performance will be assessed against the project's approved work programme and will commence from the first quarter of the project life. (Note: This means that after 10 % of the contract sum is deducted for penalties, the Procuring Entity has the right to cancel the contract and demand all forms of damages).

Bid Data Sheet (BDS)

Below given the specific data on procurement of the works shall complement, supplement or amend the provisions of the Instructions to Bidders (ITB). Whenever there is a conflict between the provisions herein and the Instructions to Bidders, the former shall prevail.

Item No.	
ITB 1.1 and 8.1	The Employer is Guyana Power and Light, Inc represented by the Facilities Department - 257/259 Middle Street Cummingsburg Georgetown. Tel#227 4604
ITB 1.1	The works are: **Construction of a Training School Building at GPL'S Sophia Compound IFB#GPL - PI - 022 - 2018**
ITB 1.1	The source of financing is: Works will be funded by the Guyana Power and Light, Inc
ITB 8.2	Whether the pre-bid conference shall or shall not be held: **No Pre-bid conference will be held**
ITB 10.1	The language of Bid is English
ITB 11.1 (i)	N/A
ITB 14.1	The period of Bid validity is One Hundred and twenty (120) days following the deadline for submission of bids.
ITB 15.1	The amount and form of Bid Security is two percent (2%) of bid Price
ITB 18.4	Certificates of compliances from NIS and GRA
ITB 32.1	A performance security is required in the amount of 10% of the contract price is required and may be in the form of a bank guarantee, check or cash.

General Conditions of Contract (GCC)

A. General provisions

1. Definitions

1.1 Below given terms in this Contract shall be interpreted as follows:

"Bill of Quantities" means the completed priced items of works and priced consumable materials which are the part of the Bid.

"The **Completion Date"** means the date of completion of the Works accepted by the Working Committee pursuant to Certificate of Commissioning, or in case of repair works, the final Certificate of Performed Works of the Contractor approved by the Engineer.

"Contract" means the Contract achieved between the Purchaser and the Contractor, and fixed as the form of Contract signed by the parties with all annexes and addenda to the Contract for the execution and completion of the Works.

"Contractor" means an individual or legal entity, or a partnership, whose Bid for the execution of the Works is accepted by the Purchaser.

"Contractor's Bid" means the completed bidding documents submitted by the Contractor to the Purchaser.

"Contract Price" means the amount to be paid to the Contractor under the Contract for the entire and duly performance of his contractual obligations.

"Days" mean calendar days; **"months"** mean calendar months.

"A **Defect"** means any part of the Works executed breaching terms of the Contract.

"The **Acceptance Report of Corrected Defects"** means the acceptance report drafted jointly by the Engineer and the Contractor after correction of defects by the Contractor.

"The **Defects Correction Period"** means the period to correct imperfections and defects indicated in the Special Conditions of Contract, and calculated from the Completion Date.

"Drawings" include all calculations, schemes, plans and other information provided, or approved by the Authorized Body for the execution of the Contract.

«**Compensation Events**» means the event defined in Clause 41 of the General Conditions of Contract.
"Employer" means the party, as defined in the SCC, which employs the Contractor to execute the Works.

"Machinery and equipment" mean all the Contractor's machinery, equipment and vehicles to be brought temporarily to the Site for the execution of the Works.

"The Initial Contract Price" means the Contract Price indicated by the Employer in the Letter of Acceptance.

"The Expected Period of Completion" means when the Contractor should complete the execution of the Works indicated in the SCC.

"Materials" means all consumable and raw materials to be used by the Contractor and subcontractor during the execution of the Works.

"Plant" means the integral part of the Works which has a mechanical, electrical, chemical or biological function.

"Engineer" means a competent person, identified in the SCC, appointed by the Employer to be the Engineer, and notified to the Contractor, to be responsible for supervising the execution and quality of the Works.

"Site" means the territory, as defined in the SCC, allotted for the execution of the Works.

"Technical Specification" means the technical specifications of the Works included in the Contract, and any modifications of, or addenda to these specifications approved by the Employer.

"The **Start Date"** means the latest date, as given in the SCC, when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site
Possession Dates.

"A **Subcontractor"** means an individual or legal entity, entering into a Contract with the Contractor to execute the part of the Works under the Contract, including the work of the Site.

"Temporary Structures" means the structures designed, constructed, installed and dismantled by the Contractor, and which are required for the execution of the Works.

"Modification" means a written instruction given by the Engineer to modify quantity of the Works, or items.

"The **Works"** means that the Contractor should construct, install, and hand over to the Purchaser under the Contract the execution of quantity of the Works, or completion of the Works, as defined in the SCC.

2. Contract Documents

2.1 Below listed documents shall constitute the Contract, and shall be its integral part, and shall be interpreted in the following order of priority:

(a) Contract,
(b) Letter of Acceptance,
(c) Contractor's Bid,
(d) Special Conditions of Contract,
(e) General Conditions of Contract,
(f) Technical Specifications,
(g) Drawings,
(h) priced Bill of Quantities, and priced Consumable Materials ; and,
(i) any other documents listed in *the Special Conditions of Contract* to be as a constituent part of the Contract.

3. Language and Law

3.1 The language of the Contract and the applicable laws governing the Contract are stated in *the Special Conditions of the Contract*.

4. Engineer

4.1 Except where otherwise specifically stated, the Engineer will decide contractual relationships between the Employer and the Contractor, representing the Employer.

5. Official communication between the Employer **and the Contractor**

5.1 Official communication between the parties under the implementation of the Contract conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

6. Entering into subcontract

6.1 The Contractor may enter into subcontracts with the approval of the Engineer, but may not assign the Contract without the approval of the Employer in writing. In case of entering into more than one Contract with subcontractors, the Contractor shall co-ordinate the activities of those subcontractors. Presence of subcontractors shall not alter the Contractor's liability for performance of the contract.

7. Personnel

7.1 The Contractor shall employ the personnel for key positions in order to perform the functions specified in the «Qualification Information». The Engineer shall approve any proposed replacement of the key personnel only if their relevant qualifications and skills are the same or better than those of the personnel listed in the Qualification Information».

7.2 If for any reason the Engineer asks the Contractor to remove the person who is a staff member or employee of the Contractor or subcontractor, the Contractor should ensure that this person leaves the Site within three days, and no longer be engaged in the work under this Contract.

8. Employer's and Contractor's Risks

8.1 The Employer and the Contractor carry the risks which are the Employer's risks or the Contractor's risks under this Contract.

9. Employer's Risks

9.1 From the Start Date and until the Completion Date, or until the defects have been fully corrected, the following risks will be the Employer's risks:

(a) The risk of personal injury, or, death, or loss of or damage to property (exclusive of the Works, Plant, Materials, Machinery and Equipment) in consequence of:

I. using or occupying the Site by the Purchaser for the execution of the Works, or for other purposes which may be an unavoidable result of the Works or

II. negligence, improper fulfillment of official duties, or violation of legal rights of the Contractor by the Purchaser, or by any person employed by him, or under the Contract, exclusive of the Contractor.

(b) The risk of damage to the Works, Plant, Materials, and Machinery and Equipment to the extent that is due to a fault of the Employer, or in the Employer's design defect, or due to war or radioactive contamination directly affecting the country where the works are to be executed.

9.2 From the Completion Date and until the defects have been fully corrected, the risk of loss of or damage to the Works, Plant and Materials is the Employer's risk, exclusive of the cases when loss or damage caused by:

(a) the defect which existed on the Completion Date;

(b) the event which occurred before the Completion Date and which is related to the Employer's risks, or

(c) the activities of the Contractor on the Site after the Completion Date.

10. Contractor's Risks

10.1 From the Start Date and until the defects have been corrected, the risk of personal injury, death, and loss of or damage to property (including the Works, Plant, Materials, Machinery and Equipment) which are not the Purchaser's risks are the Contractor's risks.

11. Contractor to Execute the Works

11.1 The Contractor shall construct and install the Plant in accordance with the Specifications, Drawings, Bill of Quantities and/or pursuant to the Defects Report.

12. The Works to Be Completed by the Expected Period of Completion

12.1 The Contractor may begin the execution of construction Works from the Start Date, and he should execute the Works in accordance with the Work Execution Schedule submitted by the Contractor and approved by the Engineer, and the Contractor must complete the construction Works by the Expected Period of Completion.

13. Construction of Temporary Structures

13.1 The Contractor shall submit to the Engineer the specifications and drawings indicating the expected construction of Temporary structures to be approved by the Engineer, provided that they comply with the Specifications and drawings.

13.2 The Contractor should, when required, co-ordinate the project of Temporary structures with the third party.

14. Accident Prevention

14.1 The Contractor shall be fully responsible for the safety of all activities on the Site.

15. Discoveries

15.1 Anything of historical or other interest or of significant value discovered on the Site shall be the property of the Employer. The Contractor should notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

16 Investigation and Use of Site

16.1 During the execution of the Works, the Contractor shall rely on the Site Investigation Reports, and may visit and investigate the Project Site. All information obtained by the Contractor during the Site visit, shall be used for the execution of the Works.

16.2 The Employer shall give the Contractor the right for using the whole Site which is allotted for project construction. If the right for using any part of the Site is not given by the date indicated in *the Special Conditions of Contract*, the Employer will be deemed to have delayed the start of the certain kinds of project works, in this case the Purchaser should extend the construction period for the period of transferring the Site.

17. Access to the Site

17.1 The Contractor shall allow the Engineer and any other person authorized by the Engineer, access to the Site or to any other place where work is being carried out or is expected to be carried out according to the Contract.

18. Orders and instructions

18.1 The Engineer, within his authority, may take a decision; give orders and instructions to be binding upon the Contractor.

18.2 If the Contractor assumes that decision taken by the Engineer exceeds the authority presented by the Engineer under the Contract, or decision was taken wrong, it shall be dealt with under clause 19.

19.0 Dispute or disagreement arising between the Employer and the Contractor shall be settled in accordance with the Laws of Guyana.

19.1 Notwithstanding any references to trial herein, the parties shall continue to perform their obligations under the Contract, unless otherwise agreed.

B. Time Control

20. Work Execution Schedule

20.1 Within the time period specified in *the Special Conditions of Contract*, the Contractor shall submit to the Employer for approval the Work Execution Schedule where general methods of arrangement, procedure and period of execution of works on the Project construction are stated.

20.2 The Contractor shall submit, within the time periods specified in *the Special Conditions of Contract* to the Engineer for approval, the updated version of the Work Execution Schedule, taking into account the actual progress of performed works, and its impact on the time period of remaining works, including available changes in the sequence of execution of the works.

20.3 If the Contractor does not submit the updated Work Execution Schedule during the indicated period, the Engineer may retain the amount specified in *the Special Conditions of Contract* from the next Certificate of Performed Works, and continue to retain that amount until the delayed Work Execution Schedule is provided.

20.4 The Engineer's approval of the Work Execution Schedule shall not alter the Contractor's obligations. The Contractor may revise the Work Execution Schedule, and submit it to the Engineer again at any time. The revised Work Execution Schedule should demonstrate the effect of Modifications and Compensation Events.

21. Delays Ordered by the Engineer

21.1 The Engineer has a right to give order to the Contractor to suspend the start or progress of execution of the works on the Project construction.

22. Early Warning

22.1 The Contractor shall inform the Engineer as soon as possible of likely specific events, or circumstances that may negatively affect the quality of the works, increase the Contract Price or delay the execution of the Works on the Project construction. The Engineer may require the Contractor to assess the expected impact of the future event or circumstance on the Contract Price and Completion Date. The Contractor should provide such assessment within a short time.

22.2 The Contractor shall assist the Employer in preparing and analyzing proposals regarding for that how to the consequence of such an event or circumstance can be avoided or reduced by anyone involved in the work, and in carrying out any instruction of the Engineer resulting from those proposals.

C. Quality Control

23. Identifying Defects

23.1 The Engineer shall check the works of the Contractor and notify the Contractor of the defects found. Such checking shall not involve the change in the Contractor's responsibilities. The Engineer is entitled to require the Contractor to search for a defect, and to uncover and check the results of works that the Engineer considers may have a Defect.

23.2 The "Defects Liability Period" for the work is six (6) months from the date of taking over possession or such other period as may be specified in the Bid Data Sheet.

24. Tests

24.1 If the Engineer instructs the Contractor to carry out tests not provided for in the specifications to check whether the performed work has a defect, and if as a result the test shows that it does, the Contractor shall pay for the test. If there is no defect, the payment for the test shall be done by the Purchaser and it shall be a Compensation Event.

25. Correction of Defects

25.1 The Engineer should notify the Contractor in writing of any defect before completion of the Defects Correction Period, which begins at Completion Date, and its duration is determined in *the Special Conditions of Contract*.

25.2 Upon receipt of each notice of Defect, the Contractor should correct the indicated Defect within the time period specified in the Engineer's notice.

26 Uncorrected Defects

26.1 In case if the Contractor has not corrected the Defect within the time period specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor should pay those costs.

D. Cost Control

27. Bill of Quantities

27.1 The Bill of Quantities includes the priced kinds of works and value of consumable material for the construction, installation, testing and commissioning of the Works to be executed by the Contractor.

27.2 The Bill of Quantities in the bid is used for calculation and payment for the Contract Price. The Contractor shall receive the payment for the executed amount of works at the rate and price, and value of consumable materials indicated in the Bill of Quantities for each kind of work.

28. Changes in Quantities

28.1 In exceptional circumstances, the Employer, as may be industrially required, may change quantity of any works, or individual kinds of works.

28.2 At the request of the Employer, the Contractor within 7(seven) days of receipt of request should provide the Employer with a detailed breakdown of prices of change in the quantities indicating the rates for kinds of works and value of consumable material. The Employer shall evaluate those rates and value of consumable material in comparison with the Bill of Quantities provided by the Contractor with his Bid.

28.3 In case if during the comparison, the rate and value of consumable material will correspond with the rate and value of consumable material given in the Bill of Quantities, the Employer shall issue the Contractor a "Work order" for the execution of changed quantities.

28.4 If the rate and value of consumable material shall not correspond with the rate and value given in the Bill of Quantities, or if in the Employer's judgment, shall be unreasonable, the Employer instructs the Engineer to prepare a budget for Changed quantities, or for individual kinds of works, and on the basis of his own forecast, issues the Contractor a budget in the Work order format to execute for changed quantities.

28.5 The Contractor does not have a right for additional payment as a compensation of expenditure which one might avoid by giving an early notice.

29. Certificate of Performed Works

29.1 The Contractor shall monthly submit to the Engineer for payment the certificates of actually performed works prepared pursuant to the Bill of Quantities after deduction of aggregate payments of previously approved quantities.

29.2 The Engineer should check the Contractor's monthly certificates of performed works and approve them for payment to the Contractor.

29.3 The value of performed works should be determined by the Engineer, and should involve the value of all actually performed quantities in accordance with items of works, rates and value of consumable material under the Bill of Quantities.

29.4 The value of performed works should include the value of Work order (additional works) and of Compensation Event.

29.5 The Engineer may exclude, based on subsequent circumstance, any items certified in a previous certificate of performed works for payment, or reduce the proportion of any item previously certified in any certificate of performed works for payment in the light of later information.

30. **Payments**

30.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor sums according to the certificates of performed works confirmed by the Engineer during 28 days after the date of invoicing pursuant to the certificate of performed works. In case when the payment is delayed, the Employer shall pay interest to the Contractor indicated in *the Special Conditions of Contract* against the delayed payments. Interest is calculated from the date by which the payment should be made and until the date when the last payment has been made.

30.2 In case if the cost of certificate of performed works is increased as a result of decision of the Arbitrator or Judge of General Jurisdiction, interests will be charged from the date of affirmation by the Engineer of the certificate of performed works for which the quantities have been increased without any dispute.

30.3 The kinds of Works for which no rate or price, and value of consumable material is entered in will not be paid for by the Employer, and shall be deemed included in other kinds of Works.

31. Retention

33.1 For the purposes of correction of possible defects, the Employer shall retain from each payment a portion of the funds in the sum of 10 % of the Invoice sum.

33.2 On the Completion Date half of the whole retention shall be returned to the Contractor and the second half shall be returned after completion of the Defects Correction Period, provided that all Defects indicated in the notice and certified by the Engineer have been corrected.

33.3 After entire completion of Works, the Contractor may substitute retention money with an “on demand” bank guarantee.

32. Liquidated Damages.

32.1 In case of a failure in the Completion Date towards the Expected Period of Completion, the Contractor shall pay the Purchaser liquidated damages specified in the *Special Conditions of Contract* for each date of delay of the actual Completion Date against the Expected Period of Completion. The total amount of liquidated damages shall not exceed the amount specified in the *Special Conditions of Contract*. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor’s liabilities. *Thereafter the procuring entity has the right to cancel the contract and demand all forms of damages.*

32.2 In case of extension of the Expected Period of Completion after liquidated damages have been paid, the Engineer shall repay the overpaid amount of liquidated damages by the Contractor at the expense of next certificate of performed works.

33. Force majeure

33.1 The Contractor shall not forfeit his performance security, and shall not be responsible for payment of liquidated damages, or termination of a Contract for disregard of provision, if the delay in execution of the Contract, or default is the result of an event of force majeure.

33.2 For the purposes of this Clause, "force majeure" means an event beyond the control of the Contractor, not connected with error or negligence of the Contractor, and not foreseeable. Such events may include but not restricted to such actions as: wars or revolutions, fires, floods, epidemics, quarantine and embargo affecting the execution of the Works.

33.3 When force majeure arises, the Contractor shall promptly notify the Engineer in writing of such event and its cause. If no written instructions received from the Engineer, the Contractor shall continue to perform his obligations under the Contract as far as possible, and shall search for alternative ways of execution of the Contract, irrespective of force majeure.

34. Mobilization or Advance Payment

34.1 The Employer shall make advance payment to the Contractor in the amount and within the dates specified in *the Special Conditions of Contract,* provided that a Bank Guarantee for advance payment for the amount of advance have been provided by the Contractor. The Guarantee shall remain in force until the full repayment of advance; in this case the amount of the Guarantee should be progressively reduced by the amounts repaid by the Contractor. Interest will not be charged on advance payments.

34.2 The Contractor shall use the advance payment exclusively to pay for Plant, Machinery, and Equipment, Materials and other expenses required directly for the execution of the Contract. The Contractor shall demonstrate that advance payment has been used for the purposes of execution of the Contract by supplying copies of invoices or other documents.

34.3 The advance payment shall be repaid by deducting proportionate amounts from the Certificate of performed works that are due to the Contractor. No account shall be taken of the advance payment or its repayment in assessing valuations of performed works, Modifications, Compensation Events, Bonuses or Liquidated Damages.

35. Performance Security

35.1 Within seven (7) days upon receipt of notice of award, the successful Bidder shall furnish the Employer with the Performance Security, the amount and form of which is specified in the *Special Conditions of Contract*.

35.2 The Performance Security shall be returned by the Employer not later than fifteen (15) days after the date of completion by the Contractor of his obligations under the Contract, including all guarantee obligations, unless otherwise provided in the Special Conditions of Contract.

36. Cost of Repairs

36.1 Loss of or damage to the Works, Plant, or Materials included in Works and having been occurred between the Start Date and the Completion Date, including the Defects Correction Period shall be reimbursed by the Contractor at the Contractor's cost if that loss or damage arose as a result of the Contractor's action or inaction.

E. Finishing the Contract

37. Completion

37.1 The Contractor, after completion of all works stipulated in the Contract, shall send The Employer a notice of Completion and shall request the Engineer to issue a certificate of Completion of the Works.

38 Taking Over

38.1 The Employer not later than seven (7) days after the Contractor's notice, shall appoint the Working Commission to take over the Works. The Taking Over Certificate shall be prepared with participation of the Contractor. The date of approval of Taking over Certificate by the Employer shall be deemed the Completion Date, and within seven (7) days of the date of taking over certificate, the Site and the Works should be taken over by the Purchaser.

39. Final Account

39.1 After the Certificate of Corrected Defects, the Contractor shall supply the Employer with a final account for the remaining amount that the Contractor considers payable under the Contract. Provided that all defects are corrected, and that the supplied invoice is correct and complete, the Engineer, during one month, shall certify the final certificate of performed works.

If during the inspection, there will be the facts of finding a defect, and the supplied invoice is incorrect or inaccurate, the Engineer, within a month, shall submit a schedule for correction of defects. If the Final Account is still incorrect or inaccurate after it has been resubmitted, the Engineer shall determine independently the amount due to and shall decide to pay to the Contractor.

40. Termination

40.1 The Purchaser or the Contractor may terminate the Contract if the other party causes a fundamental breach of the conditions stipulated in the Contract.

40.2 Fundamental breaches of the Contract conditions shall include, but shall not be limited to, the following:

(a) the Contractor stops the works for 30 days, in this case that stoppage is not provided in the current Work Execution Schedule and is not authorized by the Engineer;

(b) The Purchaser instructs the Contractor to suspend the progress of the works, and such instruction is not canceled during the days specified in the Special Conditions of Contract;

(c) The Employer or the Contractor becomes bankrupt or goes into liquidation, exclusive of reorganization or amalgamation;

(d) The Employer does not pay the Contractor the amount confirmed by the Engineer within the days specified the Special Conditions of Contract of the date of invoice supplied to the Contractor for payment;

(e) the Engineer notifies and warns that non-correction of a specific defect is a fundamental breach of the Contract conditions; and the Contractor does not correct a defect within acceptable period of time established by the Engineer;

(f) The Contractor does not provide the required guarantee;

(g) The Contractor delayed the completion of the Works for a number of days correspondent to a maximum possible amount of liquidated damages as indicated in the *Special Conditions of Contract*.

(h) If the Contractor, in the Employer's judgment, has engaged in corrupt or fraudulent practices in the process of competitive selection or execution of the Contract.

For the purposes of this subparagraph:

(1) "**corrupt practice**" means the offering, giving, the agreement requesting for remuneration in any form, or services rendering in order to influence the action of a public official in the procurement process or contract execution; and

(2) "**fraudulent practice"** means a misrepresentation of facts in order to influence the procurement process or execution of a contract to the detriment of the Purchaser; including a collusive practice of bidders

(prior to or after bid submission) to establish bid prices artificially at non-competitive level, and deprive the Purchaser from benefits of free and open competition;

(3) "**collusive practice"** means a scheme or arrangement between two or more contractors (subcontractors), with or without the knowledge of the Purchaser, designed to artificially rise the price in during the execution of a contract;

(4) "**coercive practice"** means harming or threatening to harm (directly or indirectly), persons or their property to influence their participation in the execution of a contract;

40.3 When either party of the Contract notifies the Engineer of breach for a cause other than those listed under Clause 45.2 above, the Engineer shall determine whether the breach is fundamental or not.

40.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

40.5 If the Contract is terminated, the Contractor shall stop the Works immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

41. Payment upon Termination

41.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue the confirmed Certificate of the performed works and Materials ordered less advance payments received up to the date of the confirmation of the certificate and less the percentage of unperformed works, as indicated in the Special Conditions of Contract. Additional Liquidated Damages shall not be charged. If the total amount due to the Employer exceeds the amount due to the Contractor, the difference shall be a debt of the Contractor to the Purchaser.

41.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Purchaser, the Engineer shall confirm the Certificate of the performed works, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the confirmation of the certificate.

42. Property

42.1 All Materials on the Site, Equipment, Temporary Structures, and Works shall be deemed the property of the Employer if the Contract is terminated because of the Contractor's fault.

43. Release from Performance

43.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Engineer shall certify the impossibility of the Contract performance. The Contractor shall make the Site safe and stop work as quickly as possible after receiving such notice, and shall be paid for all work carried out before receiving an instruction, and for any work carried out afterwards to which a commitment was made.

44. Contractor to Protect Works Done, Materials and Plant

44.1 The Contractor should provide the protection of performed works and all materials, plant, resources and other items related to the Works from any or all kinds of damage, deterioration, destruction linked to rain, frost, fire, robbery, mysterious disappearance and other reasons. The Contractor during the execution of the works, shall additionally ensure the protection of other works on Project, and of property belonged to the Employer, and related structures from any damage, deterioration or for any other reason, including (but not limited to these) roads, buildings, warehouses and other kinds of movable and immovable property, exclusive of the event of force majeure. All costs incurred by the Contractor in view of the above-stated, shall not be subject to additional payment on the part of the Employer.

44.2 The Purchaser will not be responsible for any damage to the Contractor's works for the abovementioned reasons before they are fully completed and accepted, and the Contractor shall, without additional payment, carry out all corrections, repairs or replacements as applicable to the Works because of necessity to correct any defect, damage and other defects as a result of the above event.

45. Materials and Equipment of Contractor

45.1 The Contractor shall be responsible for the arrangement of supply, transportation, discharge and storage of all Materials and Equipment to be supplied, and delivered by the Contractor to the Project Site. The supplies shall be carried out only for the Contractor's name. The Employer shall in no case be responsible for expenses related to the supply, processing, storage and fee for stoppage of vehicle. No supplies shall be addressed to the Employer.

45.2 The Contractor shall provide the Employer with a Schedule of Receipt of materials and equipment on the Project Site. The sites only permitted by the Purchaser may be used for storage, stowage and stockpiling.

Special Conditions of Contract (SCC)

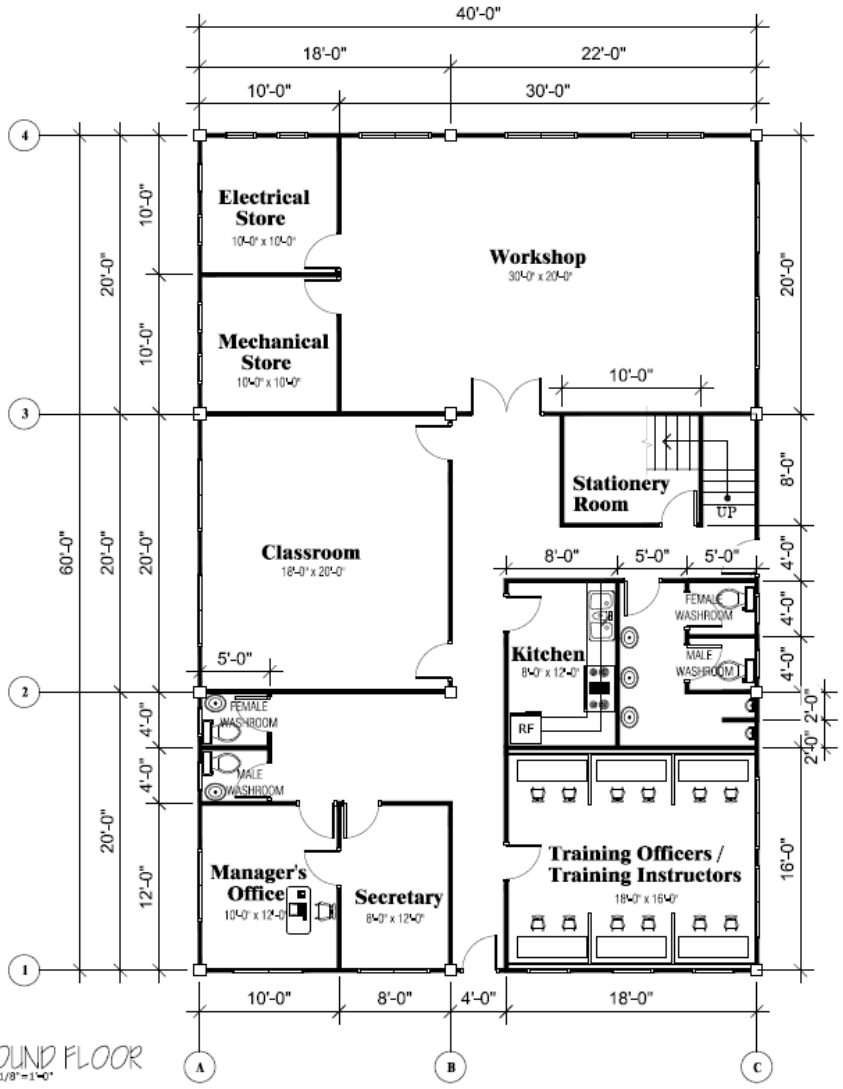
The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict between the provisions herein and the General conditions of Contract, the Special Conditions of Contract shall prevail.

GCC Clause name	
1.1	The Purchaser is Guyana Power and Light, Inc of 40 Main Street Georgetown Guyana The Contractor is: Not Applicable *The Engineer is: Mr. Fenton Haynes, 257-259 Middle Street, Cummings burg, Georgetown, Tel# 623-4057 or 227 4604 and e-mail fhaynes@gplinc.com*
1.1	The Intended Completion Date for the whole of the Works shall be eight (8) months
1.1 and 23.2	The Defects Liability Period is six (6) Months
1.1	The Start Date shall be within 14 days after the award and signing of contract.
3.1	The Language of Contract is English
3.1	The Applicable Law: is the Laws of Guyana
16.2 and 33.1 (a)	The date by which the Site has been transmitted to Contractor for use Within 14 days of the signing of the contract
19.1	Disputes arising out of or in connection with the Contract shall be settled in accordance with the Laws of Guyana.
20.1	The period of submission of Work Execution Schedule 7 days after signing of the contract
20.2	The period of submission of updated Work Execution Schedule 7 days after the engineer's request
20.3	The retention for untimely submission of Work Execution Schedule is $150,000
30.1	The interest to be paid for the delay of payment on the amount of the delayed payment N/A
31.1	Retention The percentage of payments due to be retained of the value of works done to correct possible defects is *10%)*
32.1	Liquidated Damages The penalty to be paid by the Contractor for delay of the completion of works *0.5% per week of the bid price, but not more than 10% of Contract Price).*
33.1 (b)	N/A
34	Mobilization/ Advance Payment The mobilization/advance payment to be provided is 20% of the Contract Sum

35.1	A Performance Security is required in the amount of 10%of the Contact Price and may be in the form of a bank guarantee, cheque or cash.
35.2	N/A
40.2(b)	When a suspension order is not revoked by the Employer after 30 days.
40.2(d)	When payment to the Contractor is delayed beyond 60 days following invoicing
40.2(g)	The maximum number of days of delay is: Twelve (12) weeks

DRAWINGS

GENERAL NOTES



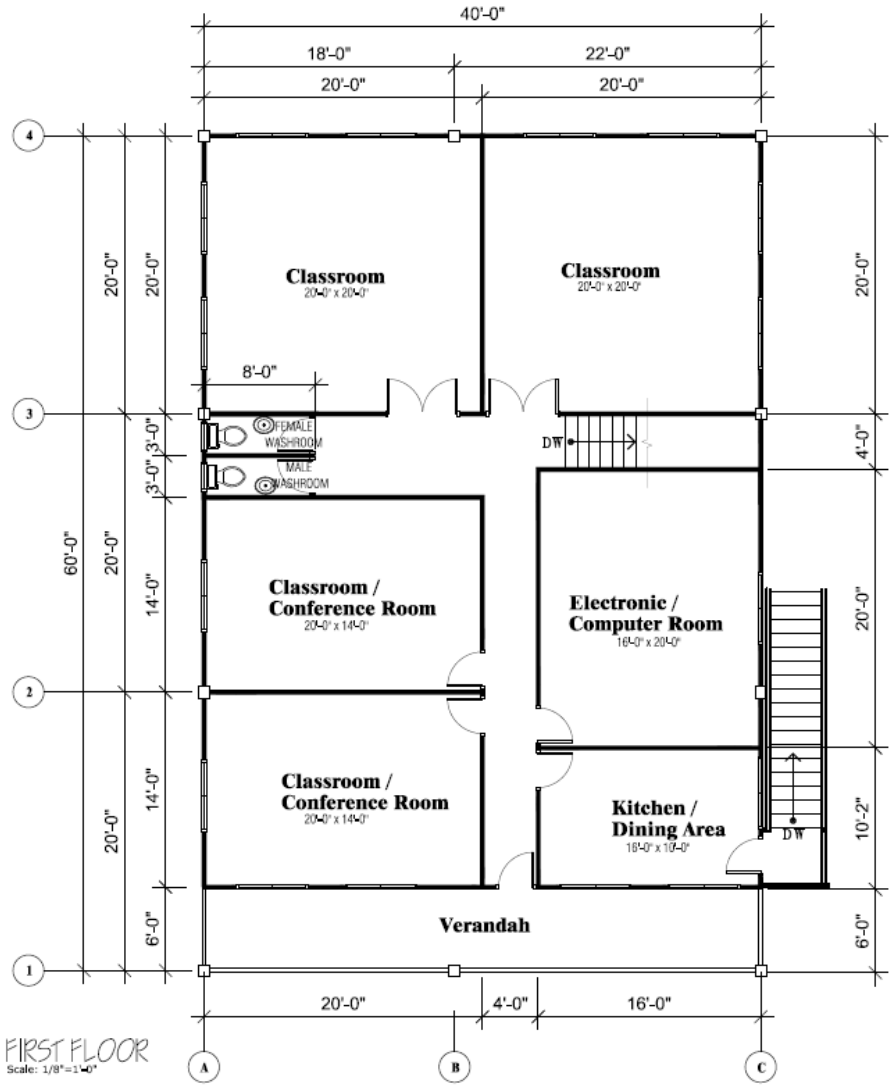
GROUND FLOOR
Scale: 1/8"=1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : GROUND FLOOR PLAN

DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. A1		REV.

GENERAL NOTES

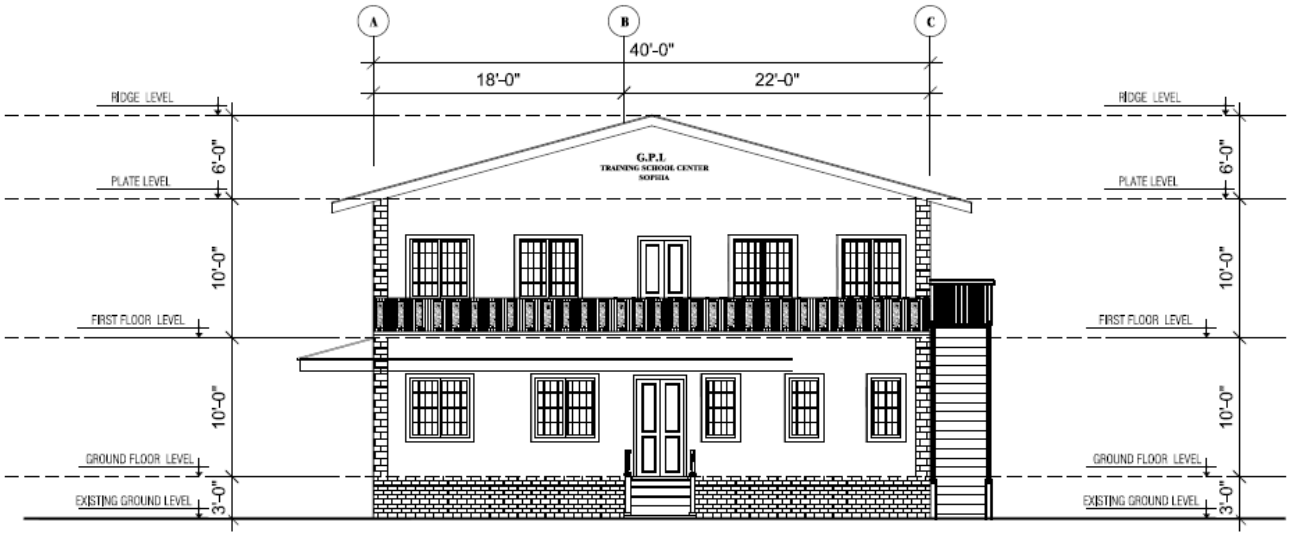


FIRST FLOOR
Scale: 1/8"=1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT :	PROJECT :	DRG. TITLE :	DESIGNED BY :	APPROVED BY :	CHECKED BY :
GPL INC. MIDDLE STREET,GEORGETOWN	CONSTRUCTION OF TRAINING SCHOOL SOPHIA	FIRST FLOOR PLANS	SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
			DRAWING NO. A2		REV.

GENERAL NOTES



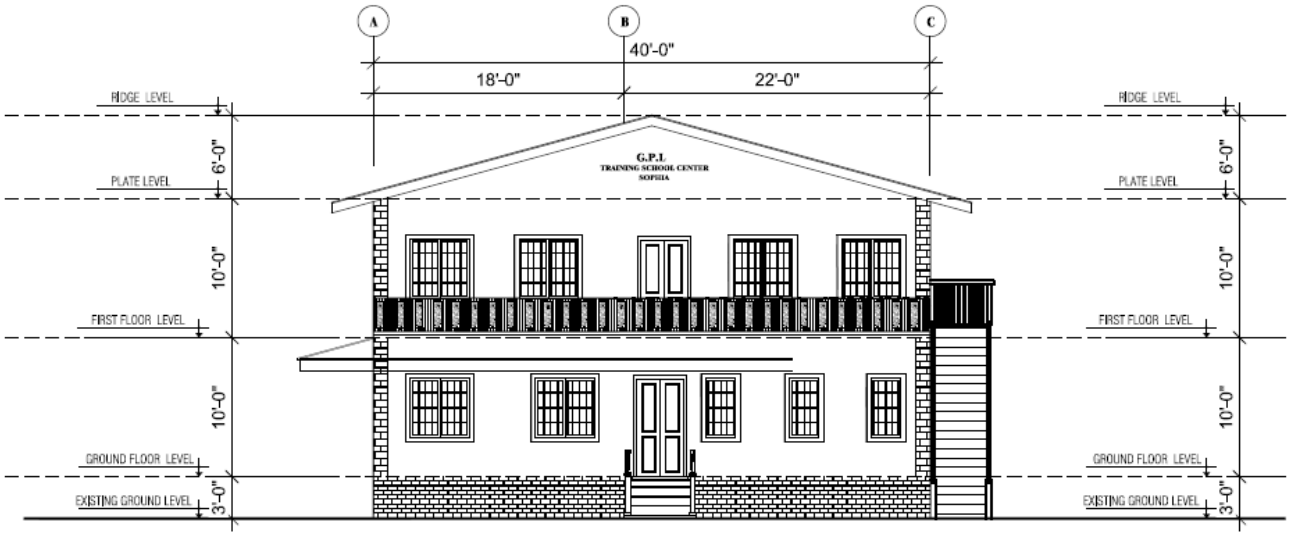
ELEVATION A-A
Scale: 1/8"=1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : ELEVATION A-A

DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. A3		REV.

GENERAL NOTES



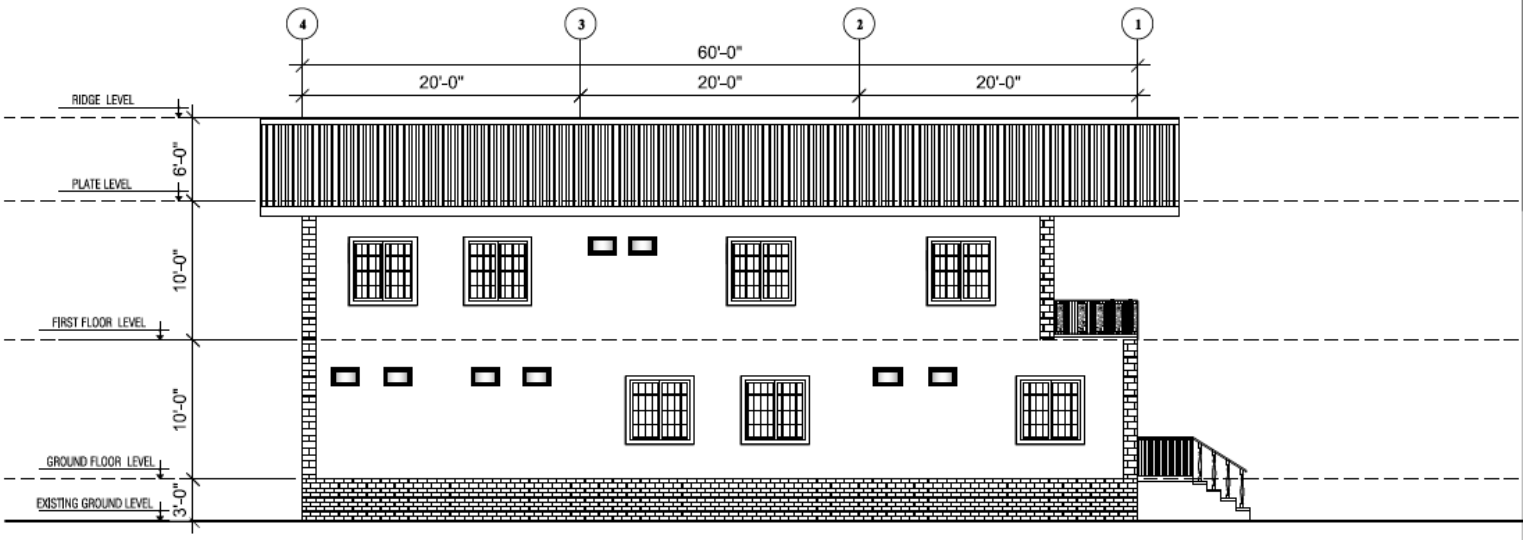
ELEVATION A-A
Scale: 1/8"=1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : ELEVATION A-A

DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. A3		REV.

GENERAL NOTES



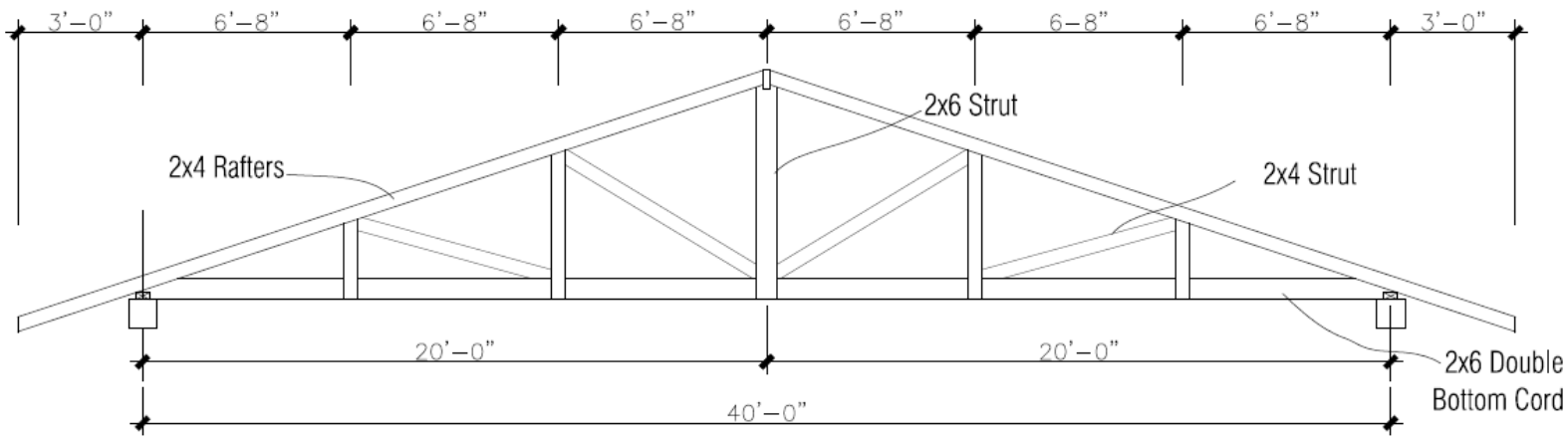
ELEVATION B-B
Scale: 1/8"=1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : ELEVATION B-B

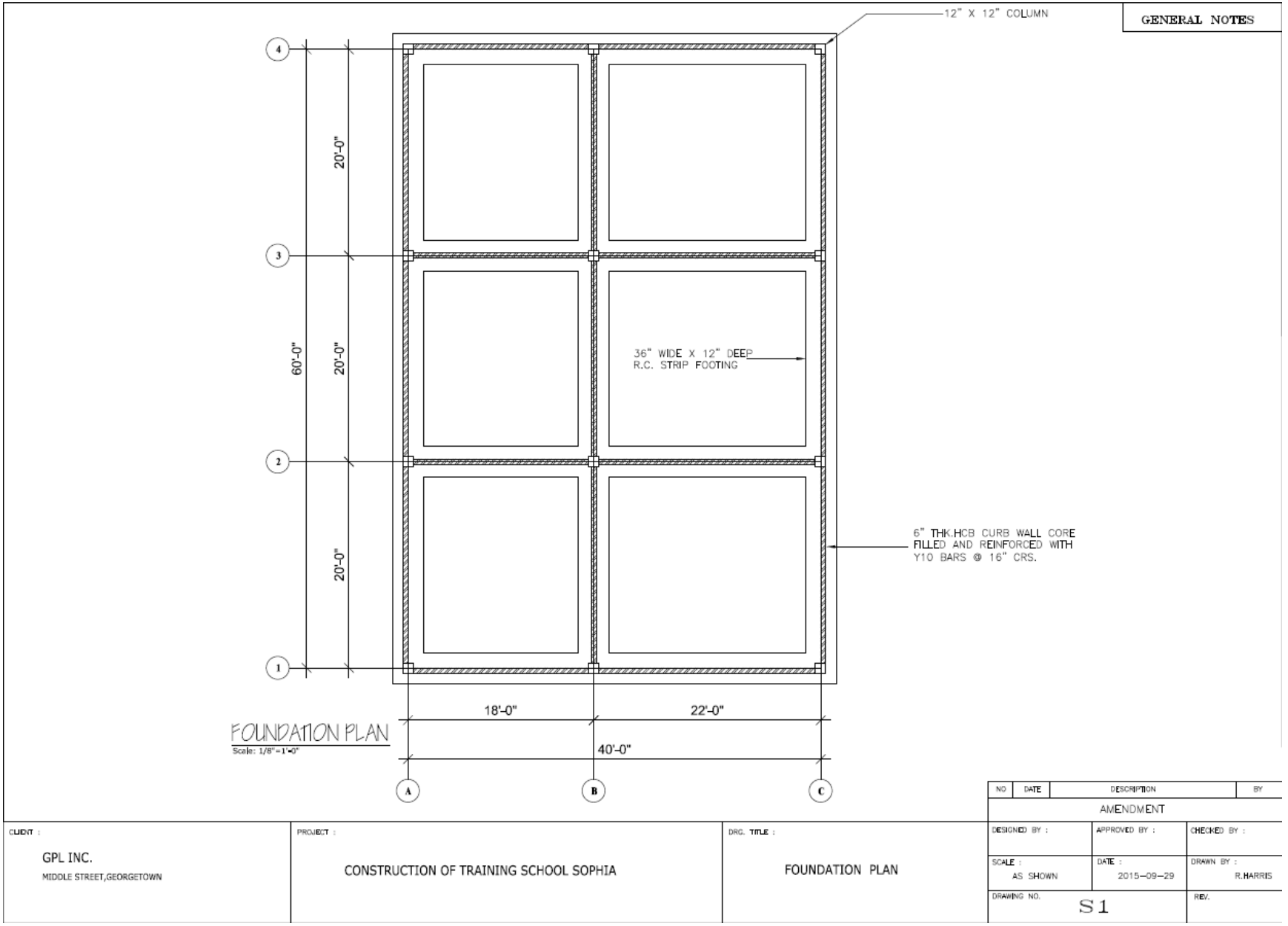
DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. A4		REV.

GENERAL NOTES

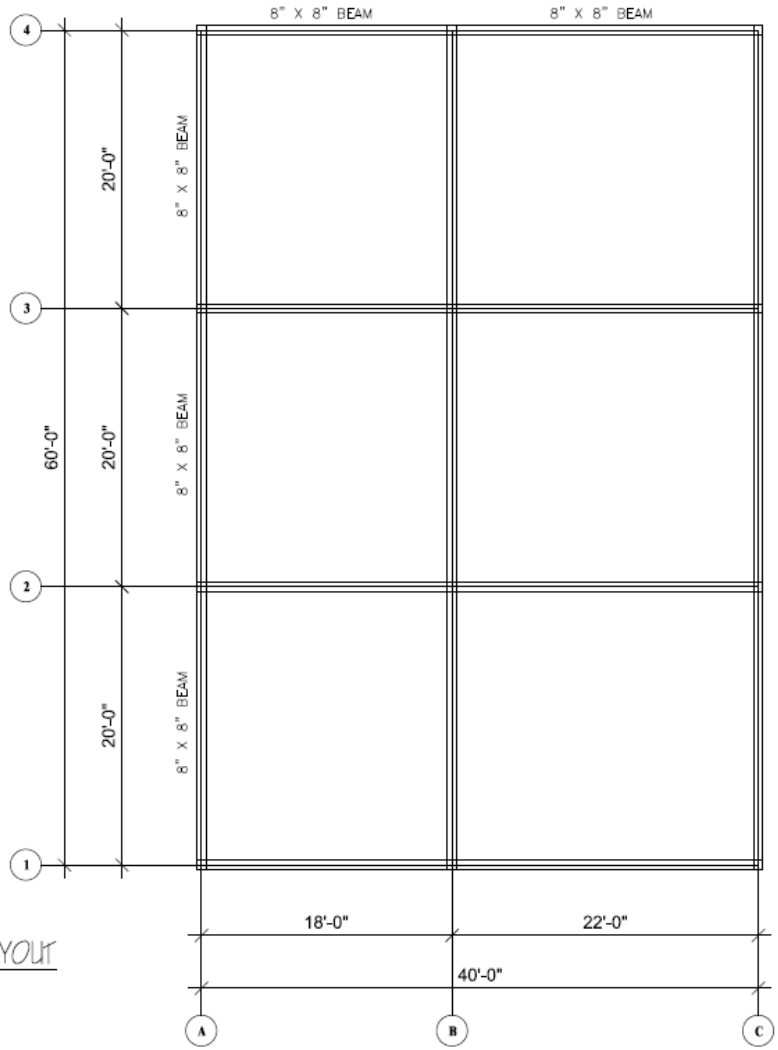


NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT :	PROJECT :	DRG. TITLE :	DESIGNED BY :	APPROVED BY :	CHECKED BY :
GPL INC. MIDDLE STREET,GEORGETOWN	CONSTRUCTION OF TRAINING SCHOOL SOPHIA	ROOF TRUSS	SCALE : AS SHOWN	DATE : 2015–09–29	DRAWN BY : R.HARRIS
			DRAWING NO. S5		REV.


GENERAL NOTES
12" X 12" COLUMN
4
3
2
1
20'-0"
20'-0"
20'-0"
60'-0"
36" WIDE X 12" DEEP
R.C. STRIP FOOTING
6" THK.HCB CURB WALL CORE
FILLED AND REINFORCED WITH
Y10 BARS @ 16" CRS.
18'-0"
22'-0"
40'-0"
A
B
C
FOUNDATION PLAN
Scale: 1/8"=1'-0"
NO
DATE
DESCRIPTION
BY
AMENDMENT
CLIENT :
GPL INC.
MIDDLE STREET,GEORGETOWN
PROJECT :
CONSTRUCTION OF TRAINING SCHOOL SOPHIA
DRG. TITLE :
FOUNDATION PLAN
DESIGNED BY :
APPROVED BY :
CHECKED BY :
SCALE :
AS SHOWN
DATE :
2015-09-29
DRAWN BY :
R.HARRIS
DRAWING NO.
S1
REV.

GENERAL NOTES



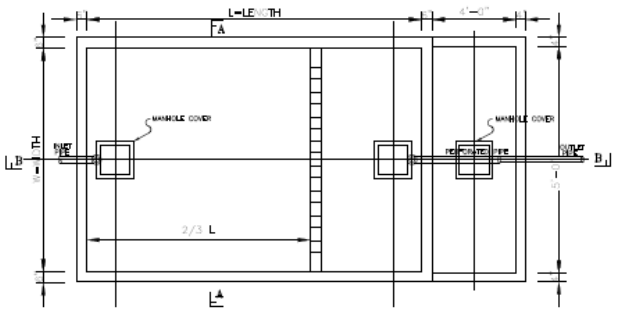
ROOF BEAM LAYOUT
Scale: 1/8"=1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

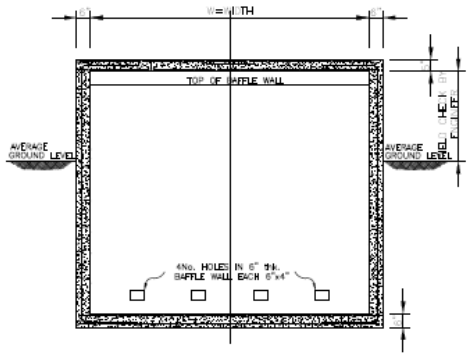
CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : ROOF BEAM LAYOUT

DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. S4		REV.

GENERAL NOTES



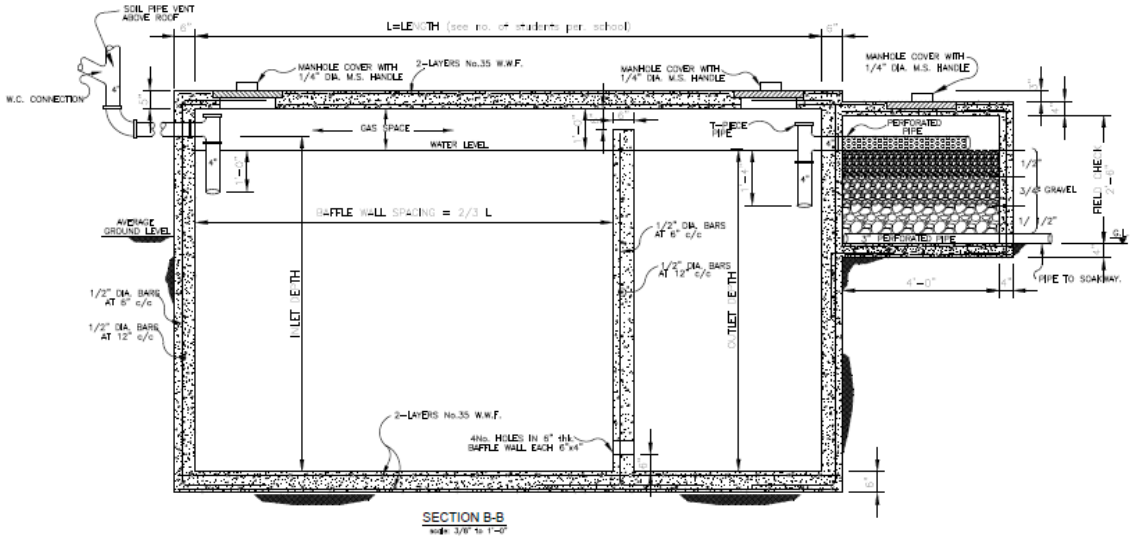
PLAN OF SEPTIC TANK AND FILTER BED
scale: 3/8" to 1'-0"



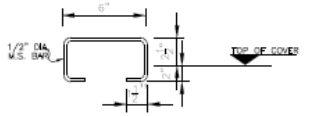
SECTION A-A
scale: 3/8" to 1'-0"

TABLE

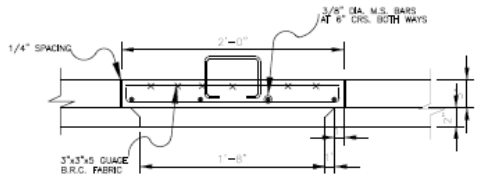
No. OF PERSON USING THIS	CAPACITY (GALLONS)	VOLUME (FT³)	FULL DEPTH (FT.)	WATER DEPTH (FT.)	WIDTH (W) (FT.)	LENGTH (L) (FT.)	GAS SPACE (FT.)
20	765	147	5'-6"	4'-0"	4'-0"	8'-0"	1'



SECTION B-B
scale: 3/8" to 1'-0"



TYPICAL HANDLE
3 - REQUIRED
scale: 1 1/2" to 1'-0"

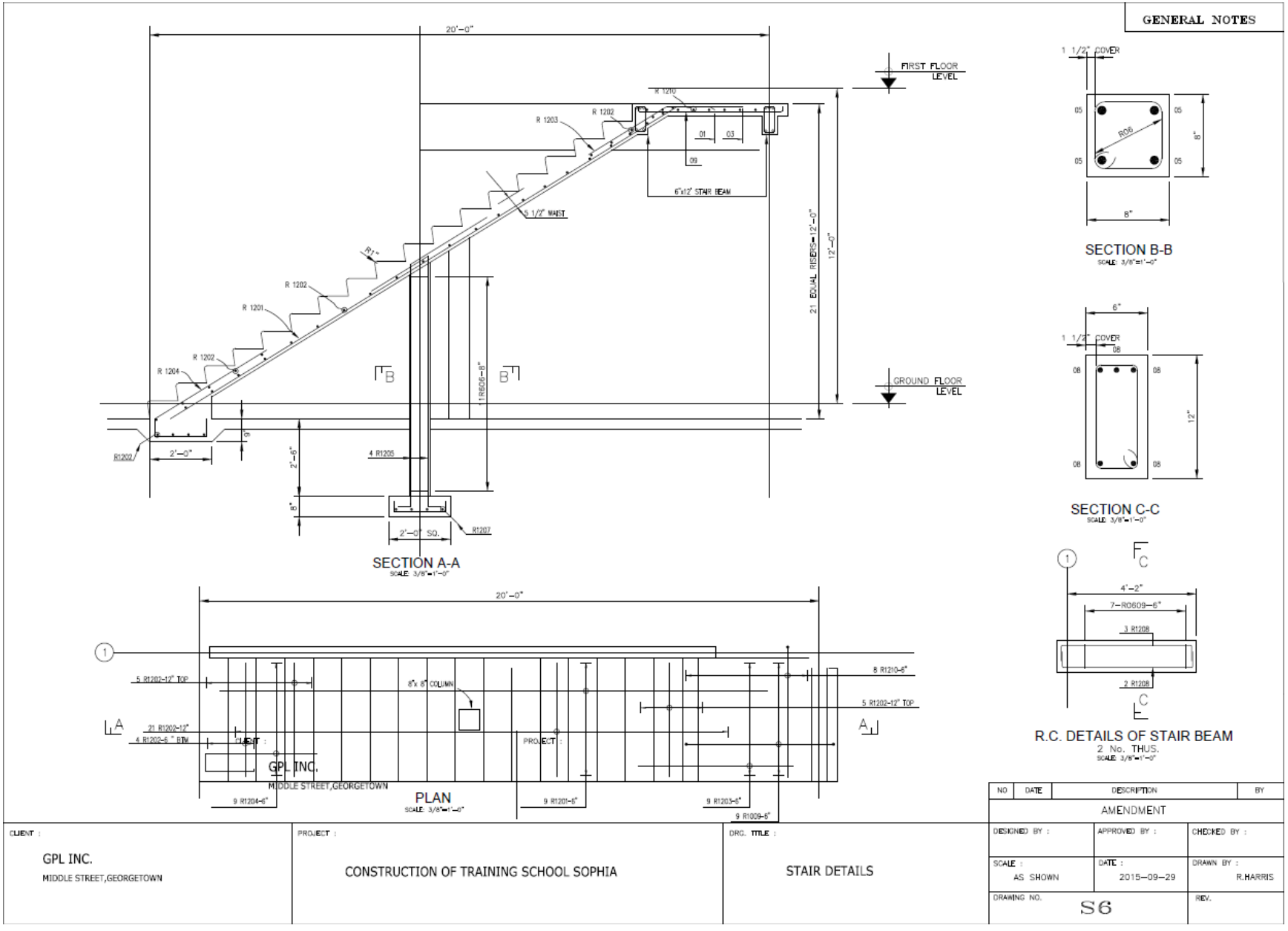


ACCESS COVER DETAIL
scale: 3/8" to 1'-0"

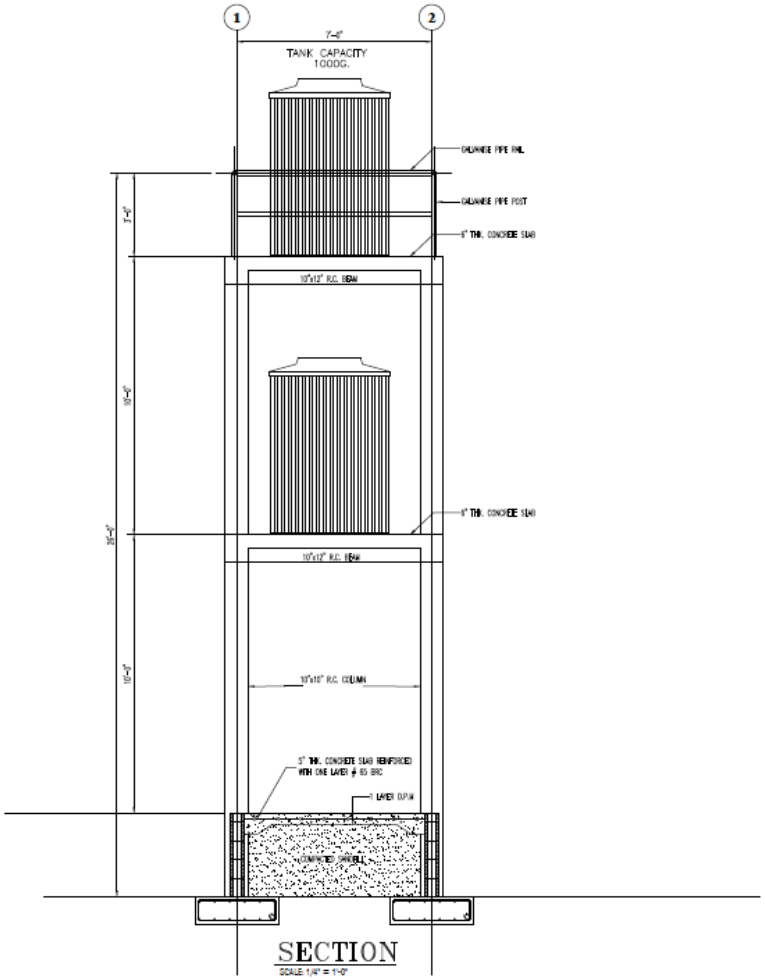
NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : SEPTIC TANK

DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. P1		REV.

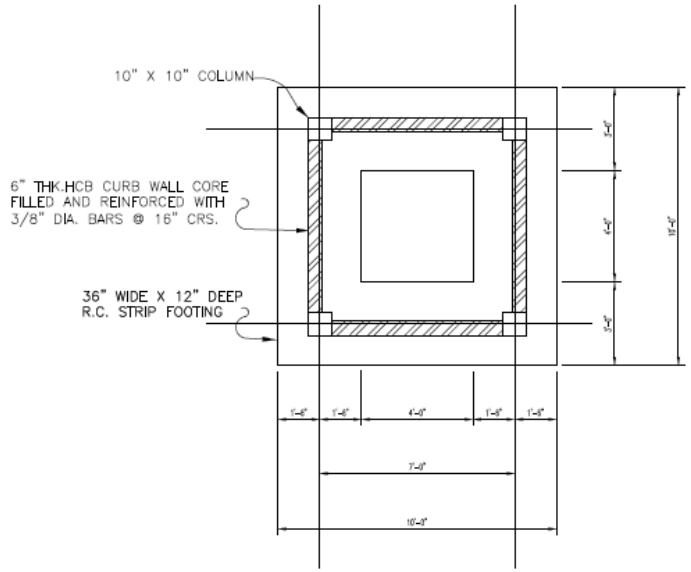

GENERAL NOTES
20'-0"
FIRST FLOOR LEVEL
GROUND FLOOR LEVEL
R 1210
R 1203
R 1202
R 1201
R 1204
6"x12" STAIR BEAM
5 1/2" WAIST
21 EQUAL RISERS @ 12"-0"
12"-0"
4 R1205
2'-0" SQ.
R1207
R1202
2'-0"
SECTION A-A
SCALE: 3/8"=1'-0"
1 1/2" COVER
R06
SECTION B-B
SCALE: 3/8"=1'-0"
SECTION C-C
SCALE: 3/8"=1'-0"
4'-2"
7-R0609-6"
3 R1208
2 R1208
R.C. DETAILS OF STAIR BEAM
2 No. THUS.
SCALE: 3/8"=1'-0"
5 R1202-12" TOP
8"x 8" COLUMN
8 R1210-6"
21 R1202-12"
4 R1202-6 " BTM
9 R1204-6"
9 R1201-6"
9 R1203-6"
9 R1009-6"
PLAN
SCALE: 3/8"=1'-0"
CLIENT : GPL INC.
MIDDLE STREET,GEORGETOWN
PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA
DRG. TITLE : STAIR DETAILS
NO | DATE | DESCRIPTION | BY
AMENDMENT
DESIGNED BY :
APPROVED BY :
CHECKED BY :
SCALE : AS SHOWN
DATE : 2015-09-29
DRAWN BY : R.HARRIS
DRAWING NO. S6
REV.

GENERAL NOTES



SECTION

SCALE: 1/4" = 1'-0"



FOUNDATION PLAN

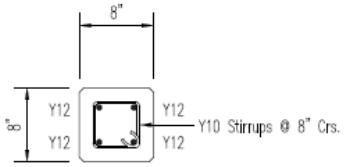
SCALE: 1/4" = 1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : CONCRETE TRESTLE

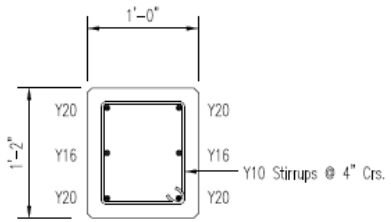
DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. S7		REV.

GENERAL NOTES



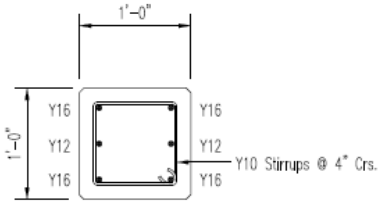
8"x8" R.C FIRST FLOOR COLUMNS SECTION

SCALE: 1" = 1'-0"



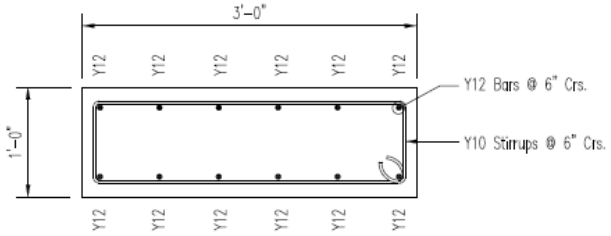
12"x14" FIRST FLOOR BEAMS SECTION

SCALE: 1" = 1'-0"



12"x12" R.C GROUND FLOOR COLUMNS SECTION

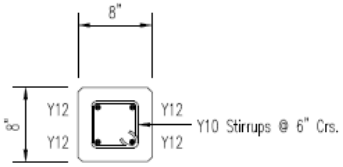
SCALE: 1" = 1'-0"



SECTION THRU FOUNDATION

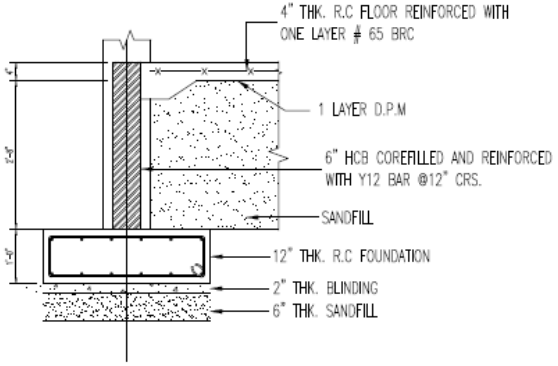
SCALE: 1" = 1'-0"

CONCRETE TRESTLE



8"x8" ROOF BEAM

SCALE: 1" = 1'-0"



SECTION

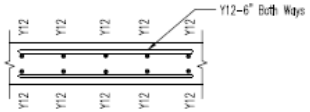
SCALE 1/2" = 1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

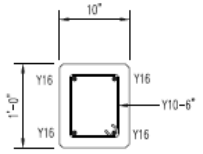
CLIENT : GPL INC. MIDDLE STREET,GEORGETOWN	PROJECT : CONSTRUCTION OF TRAINING SCHOOL SOPHIA	DRG. TITLE : TYPICAL SECTIONS

DESIGNED BY :	APPROVED BY :	CHECKED BY :
SCALE : AS SHOWN	DATE : 2015-09-29	DRAWN BY : R.HARRIS
DRAWING NO. S2		REV.

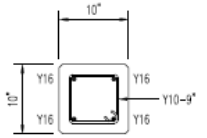
GENERAL NOTES



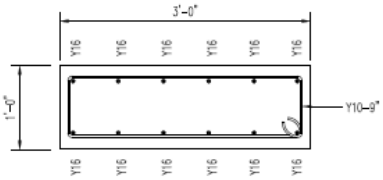
6" Thk. SUSPENDED SLAB
SCALE: 3/4" = 1'-0"



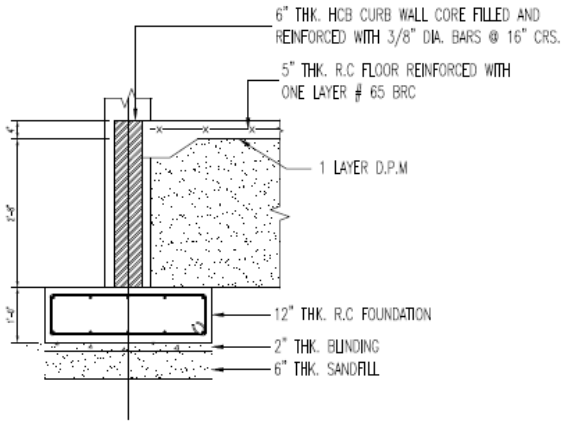
10"x12" BEAM SECTION
SCALE: 3/4" = 1'-0"



10"x10" COLUMN SECTION
SCALE: 3/4" = 1'-0"



SECTION THRU FOUNDATION
SCALE: 3/4" = 1'-0"



SECTION
SCALE: 1/2" = 1'-0"

NO	DATE	DESCRIPTION	BY
		AMENDMENT	

CLIENT :	PROJECT :	DRG. TITLE :	DESIGNED BY :	APPROVED BY :	CHECKED BY :
GPL INC. MIDDLE STREET,GEORGETOWN	CONSTRUCTION OF TRAINING SCHOOL SOPHIA	CONCRETE TRESTLE SECTIONS	SCALE : AS SHOWN	DATE : 2015–09–29	DRAWN BY : R.HARRIS
			DRAWING NO. S8		REV.

BILL OF QUANTITIES

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

ENGINEER'S ESTIMATE

BILL SUMMARY

October 28, 2015

BILL No.	DESCRIPTION	AMOUNT
1	PRELIMINARIES	
2	DAY WORKS	
3	SITE PREPARATION, EXCAVATION & EARTHWORKS	
4	CONCRETE WORKS	
5	CARPENTRY AND JOINERY	
6	WINDOWS AND DOORS	
7	ROOFING	
8	PAINTING AND FINISHES	
9	PLUMBING	
10	ELECTRICAL	
	SUB TOTAL	
	EXTERNAL WORKS	
11	SEPTIC TANK	
12	WATER TRESTLE	
13	WALKWAYS	
	TOTAL	

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN
ENGINEER'S ESTIMATE

28-Oct-15

BILL No.1: PRELIMINARIES

NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	BILL Nr1 - PRELIMINARIES				
1.0	**PRELIMINARY PARTICULARS**				
1.1	Funding The funding shall be provided by the Guyana Power & light Inc., of 40 Main street, North Cummingsburg, Georgetown.				
1.2	Engineer The Engineer shall be the Civil Engineer - Administrative Department, Guyana Power & Light Inc.				
1.3	Contract The Bills of Quantities have been prepared in accordance with the General Conditions of contract, Form of Tender and Agreement.The Conditions of contract should be carefully read as such conditions may have a considerable bearing on the tender.				
1.4	Quantities The quantities shown in the Bills have been measured net, as fixedin position, and the bidder shall allow in his prices for waste, laps,etc. The quantities given are thus generally not suitable for the ordering of materials.				
1.5	Provisional Sum The term 'Provisional Sum' shall mean a sum provided for works or for costs which cannot be entirely foreseen, defined or detailed at the time the tender documents are prepared. Such sums shall be used in whole or in part as directed by the Engineer & shall be deemed to be inclusive of any profit required by the contractor,unless otherwise indicated.				
1.6	Description of Site The site of the proposed works is located at Sophia, Greater Georgetown				
1.7	Description of Works Construction of a building for Information Technology Building measuring 40ft. Wide X 65ft. Long. This project includes all sanitary, plumbing and electrical fixtures and associated external works including septic tank, trestle and walkway.				
1.8	Visiting the Site The Contractor is advised to visit the site of the proposed Works in order to ascertain the prevailing site conditions and to obtain all information necessary for costing and executing the Works.				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN
ENGINEER'S ESTIMATE

28-Oct-15

BILL No.1: PRELIMINARIES

NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	BILL Nr1 - PRELIMINARIES				
2.0	**GENERAL MATTERS**				
	Allow for the following General Matters in the Unit Rates of Measured Work.				
A.	Plant and Tools.				
B.	Setting out the works.	sum			
C.	Holiday with pay.				
D.	Transportation of materials and plant.				
E.	Site organization with regards to employment of Foreman-in-Charge, Storekeeper, Cleaner, and Security Guard.				
F.	Lighting and Power.				
G.	Programme and progress Chart.	sum			
H.	Collection & payment of NIS contributions.				
3.0	**TEMPORARY WORKS**				
	Allow for the following Temporary Works, constructed to the Engineer's satisfaction, and for dis-mantling and removing from site on completion.				
A.	Toilet & Washing facilities for GPL supervisor and Contractors staff.	Sum			
B.	Mass area for workers and barrier to prevent persons from coming into contact with the works.	Sum			
C.	Provide storage and workshop facilities	Sum			
D.	Provide a suitable furnished site office of size 15' x 15'. Office to be furnished with suitable desk and office chair	Sum			
E.	Provide water for the works	Sum			
F.	Provide all scaffolding necessary for the works	Sum			
G.	Provide for the protection of all sections of the Works from inclement weather	Sum			
H.	Allow a Provisional Sum for the testing of concrete to be incorporated in the Works	Prov.Sum			200,000
	CARRIED FORWARD				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN
ENGINEER'S ESTIMATE

28-Oct-15

BILL No.1: PRELIMINARIES

NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	BOUGHT FORWARD				
4.0	OTHER MATTERS				
A.	Allow for the following Insurance's: (1) Contractor's All Risk Insurance The Insurance must be for the entire contract period. (Construction Period + Defects Liability Period)	Prov Sum			250,000
	(2) Public Liability Insurance The Insurance must be for the entire contract period. (Construction Period + Defects Liability Period)	Prov Sum			250,000
	(3) Employer's Liability Insurance The Insurance must be for the entire contract period. (Construction Period + Defects Liability Period)	Prov Sum			250,000
B.	Allow for surety for providing Mobilization Advance.	Prov Sum			300,000
C.	Allow for surety for providing Performance Bond. Bond to be valid until the defects liability period has expired.	Prov Sum			300,000
D.	Allow for progress photographs, 12 exposures per month.	Sum			NA
E.	Allow for clearing the site of all vegetation, and maintaining same during the execution of the project.	Sum			
F.	Allow for the removal of construction debris.	Sum			
G.	Allow for the safety and health of workers and keep on site an adequate First Aid Kit.	Sum			
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF IT OFFICE BUILDING, SOPHIA, GREATER GEORGETOWN
ENGINEER'S ESTIMATE

28-Oct-15

BILL No.2: DAY WORKS

NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
A.	**GENERALLY**				
1.1	In accordance with the day work clause in the conditions of Contract,where the Engineer orders work to be executed on a day work basis, the Contractor shall be paid for such work under the conditions of the day work schedule. Such payment shall be the sum of the prime cost, calculated in accordance with the following "Definition of Prime Cost of Day Work" and the percentage additions to each section of the prime cost at the rates set out hereunder by the contractor, and recorded in the Appendix to the Conditions of Contract.				
B.	**DEFINITION OF PRIME COST OF DAY WORK**				
	LABOUR				
I	The amount of wages paid at the rates applicable to work men on day work.				
II	The amount of wages paid at the rates applicable to work men engaged on day work and operating mechanical plant and transport and erecting and dismantling other plant.				
III	The time of principals, foreman, gangers, and leading hands at the time rates for the trades practiced, when actually working with there hands, unless when previously otherwise authorized.				
IV	The cost of overtime where specifically ordered or subsequently sanctioned in writing by the Engineer as day work.				
	MATERIALS				
I	The cost of materials including delivery to site.				
II	Materials supplied from the Contractor's stock at current prices plus justifiable charges for handling and delivery to site.				
	PLANT				
I	Use of mechanically operated plant for the time engaged in the work. No allowance mace for idle time.				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.2: DAY WORKS

NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	Use of scaffolding, staging, trestles, tarpaulins and other non-mechanical plant excluding tools, specifically provided on site for day work operation, for such time as the Engineer considers reasonable.				
A.	**OVERHEADS**				
I	Overheads for the purpose of the Contractor shall mean the following:				
	Head office charges				
	Site supervision and site charges				
	Time loss due to inclement weather				
	Bonus or other incentive payments				
	All other liabilities and obligations whatsoever				
II	Overheads as define above and profit shall be dealt with by means of a percentage addition to the totals of prime cost in each of the after mentioned sections at the rate stated herein after.				
B.	**PRIME COST**				
	Including the following sums for works which may be executed as day work.				
I	Materials	Prov Sum			1,500,000
II	Add percentage for overheads and profit.	%			
III	Labour	Prov Sum			1,000,000
IV	Add percentage for overheads and profit.	%			
V	Plant	Prov Sum			800,000
VI	Add percentage for overheads and profit.	%			
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

ENGINEER'S ESTIMATE

BILL No.3: SITE PREPARATION, EXCAVATION AND EARTHWORKS 28-Oct-15

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Site Preparation				
3.1	Clear site of all debris, vegetation and trees and dispose of materials as directed by the Engineer	Sum			
	Excavation				
3.2	Excavate trench for strip foundation not exceeding 6' deep and dispose of material as directed by the Engineer.	cu. Yd	127		
3.3	Level, ram, and compact bottom of excavated trench to reduced line and level	sq yd	127		
3.4	Provide for keeping excavation free of water.	Sum			
3.5	Provide and place 6 inch thick compacted white sand to bottom of excavation; white sand to be compacted to 95% Modified Proctor Density.	sq yd	127		
3.6	Provide and place 50mm thk. 1:6 cement/sand blinding to top of sandfill.	sq yd	127		
3.7	Level and compact white sand in layers of 4" to receive floor slab	cu. Yd	270		
3.8	Return, fill and compact excavated materials around foundation.	cu. Yd	85		
	TO BILL SUMMARY				

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PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

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BILL No.4: CONCRETE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4.1	**Concrete Works** Provide and place 3000psi reinforced concrete (19mm aggregate).Reinforcement and formwork measured separately.				
4.1.1	Ditto foundation	cu yd	43		
4.1.2	Ditto Columns	cu yd	10		
4.1.3	Ditto Beams	cu yd	20.5		
4.1.4	Ditto Ground Floor Slab	cu yd	30		
4.1.5	Ditto First Floor Slab	cu yd	45		
4.2	**Formwork** Provide and place fair faced finish formwork (including all braces, struts and ties).				
4.2.1	Ditto foundation	sq yd	85		
4.2.2	Ditto Columns	sq yd	132		
4.2.3	Ditto Beams	sq yd	186		
4.2.4	Ditto Ground Floor Slab	sq yd	5		
4.3	Provide and install 18 guage decking to cast first floor slab	sq yd	267		
4.4	**Reinforcement** Provide for rebar as indicated in drawings. Laps to be 40d and anchorage 45d and is not included in rebar quantity. Allow for 50mm coverage. All rebar's secure with 18 gauge wire.				
4.4.1	Ditto foundation	lbs	6669.00		
4.4.2	Ditto Columns	lbs	2500.00		
4.4.3	Ditto Beams	lbs	5250.00		
4.4.4	Ditto First Floor Slab	lbs	6425.00		
4.4.5	Curb Wall	lbs	1150.00		
4.5	Provide and place No 65 BRC fabric to Ground Floor Slab, include for a minimum lap 6" lap.	Sy	267		
4.6	Provide and place DPM fabric to Ground Floor Slab, include for a minimum lap 6" lap.	Sy	267		
	TOTAL CARRIED FORWARD				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

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BILL No.4: CONCRETE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL BOUGHT FORWARD				
	Block Work				
4.7	Provide for the laying (stretcher bond) of 6" x 8" x 16" HCB blocks for curb wall. Blocks to be laid with 12mm joints to all sides. All cores to be filled with concrete and reinforce with 10mm HT rebar to every other core. (reinforcement measured separately)	sq yd	127.00		
4.8	Provide for the laying (stretcher bond) of 4" x 8" x 16" HCB blocks for internal and external walls. Blocks to be laid with 12mm joints to all sides.	sq yd	850.00		
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN
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BILL No.5: CARPENTRY AND JOINERY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	CARPENTRY AND JOINERY				
5.1	**Roof**				
5.1.1	Provide and fix 2" x4" dress GH plate to top of roof beam with anchor bolts at 5'-0" centres. (All members measured)(Anchor Bolts measured separately)	yds	40		
5.1.2	Provide and fix 2" x 8" dress GH double bottom chord for roof truss; make allowance for notching into plates, joints and the like.	yds	54		
5.1.3	Provide and fix 2" x4" dress GH struts and ties to roof truss as shown on drawings. (All members measured)	yds	14		
5.1.4	Provide and fix 2" x 6" dress GH Main strut to roof truss as shown on drawings. (All members measured)	yds	4		
5.1.5	Provide and fix 2" x 6" dress GH rafters and plates at 2'-6" centres; make allowance for notching into plates, joints and the like.	yds	432.00		
5.1.6	Provide and fix 2" x 10" dress GH ridge; make allowances for joints and the like.	yds	22		
5.1.7	Provide and fix 1" x 6" GH sheet laths at 4'-0" centres to rafters, with each board twice nailed to each rafter ; make allowances for joints and the like.	yds	308.00		
5.1.8	Provide and fix 1" x 10" dress GH fascia boards; make allowance for mytering corners and the like.	yds	76.00		
	TOTAL CARRIED FORWARD				

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BILL No.5: CARPENTRY AND JOINERY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL BOUGHT FORWARD				
5.2	**Ceiling - Ground Floor and First Floor**				
5.2.1	Provide and fix 2" x4" dress GH ceiling joist bolted to rafters and wall plate. (All members measured)(Anchor Bolts measured separately)	yds	1334		
5.2.2	Provide and fix 1" x 3" silverballi noggins at 2' centres both ways. Make allowance for joints and the like.	yds	2,600		
5.2.3	Provide and fix 1/4" thick plywood ceiling to 1" x 3" noggins Make allowance for joints and the like.	sq yd	534		
5.2.4	Provide and fix 1" x 2" quadrant molding to perimeter of each room. Make allowance for joints and the like.	yds	1950		
5.2.5	Provide and fix 1" x 4" GH V joint to eaves of roof. Make allowance for joints and the like.	sq yd	75		
5.3	**Shed Members**				
5.3.1	Provide and fix 2" x6" dress GH wall plate to top of wall	yds	34		
5.3.2	Provide and fix 2" x4" dress GH plate to top of roof beam with anchor bolts at 5'-0" centres. (All members measured)(Anchor Bolts measured separately)	yds	42		
5.3.3	Provide and fix 2" x 4" dress GH rafters at 2'-6" centres; make allowance for notching into plates, joints and the like.	yds	134		
5.3.4	Provide and fix 1" x 6" GH sheet laths at 4'-0" centres to rafters, with each board twice nailed to each rafter ; make allowances for joints and the like.	yds	124		
5.3.5	Provide and fix 1" x 8" dress GH fascia boards; make allowance for mytering corners and the like.	yds	42		
	TOTAL CARRIED FORWARD				

BILL No.5: CARPENTRY AND JOINERY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL BOUGHT FORWARD				
	CUPBOARDS				
5.4	Provide all materials, labour and tools necessary for the construction of 1No. 10 ft x 24 inches x 36 inches high kitchen cupboard with the following (1) five doors inclusive of locks, hinges and handles. (2) Single sink with double drainboard to be installed and additional counter area to be prepared with concrete board and tiled using ceramic tiles. (please note that sink is measured separately) (3) Cupboard to be framed using 2" x 3" GH framing and 1/2" plywood to form the sides, bottom and one middle shelf. (4) 4 drawers with draw slide and handles and one draw face with handle under sink. (5) 2 rows 8" x 12" ceramic tiles back splash (6) three coats oil paint to all timber and plywood surfaces inclusive of the underside of the tops, drawers and shelves.	No.	1		
	TOTAL TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.6: WINDOWS AND DOORS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6.1	**Windows**				
6.1.1	Provide and fix white aluminum frame awning windows, 4 vent 30" x 48".	Nr	59		
6.1.2	Provide and fix white aluminum frame awning windows, 1 vent 12" x 18".	Nr	13		
6.2	**Doors**				
6.2.1	Provide and fix 2" x 6" dress GH door frames to internal and external openings; make allowance for joints and the like.	Ly	175		
6.2.2	Provide and fix 1" x 3" dress GH facing to door; make allowance for mytering corners and the like.	Ly	175		
6.2.3	Provide and fix 1" x 2" dress GH door jambs to door frame; make allowance for mytering corners and the like.	Ly	175		
	External Doors				
6.3	Supply, fix and hang in place, 36" x 80" (single leaf) solid core six panel purple heart door .	Nr	3		
	Internal Doors				
6.4	Supply, fix and hang in place, 34" x 80" (double leaf) solid core six panel purple heart door .	Nr	3		
6.5	Supply, fix and hang in place, 36" x 80" (single leaf) solid core six panel purple heart door with 24" x 24" glass panel.	Nr	15		
6.6	Supply, fix and hang in place 30" x 80" six panel soft wood doors .	Nr	6		
6.7	Supply and install lever mortise lock set with leaver arms (Yale) to internal office doors	Nr	18		
6.8	Supply and install lever cylindrical lock set and dead bolts (Yale) to all external doors	Nr	3		
6.9	Supply and install cylindrical lock set (Yale) to washroom doors	Nr	6		
6.10	4" heavy duty brass butt hinges secured to door with screws.	Nr	90		
	TOTAL TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.7: ROOFING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ROOFING AND SHED				
7.1	**Building**				
7.1.1	Provide and fix 27 guage corrugated pre-painted industrial profile roof sheeting with 12" end laps and one and a half corrugation side lap; allow for galvalum self fasteners and neoprine washers.	sq.yd	352		
7.1.2	Provide, cut, shape and fix 30" ridge flashing 27 gauge factory painted industrial profile roof flashing; allow for 12" laps.	lin.ft	22.00		
7.2	**Shed**				
7.2.1	Provide and fix 27 guage corrugated pre-painted industrial profile roof sheeting with 12" end laps and one and a half corrugation side lap; allow for galvalum self fasteners and neoprine washers.	sq.yd	112		
7.2.2	Provide, cut, shape and fix 30" ridge flashing 27 gauge factory painted industrial profile roof flashing; allow for 12" laps.	lin.ft	37.00		
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.8: PAINTING AND FINISHES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8.1	**PLASTER WORK**				
	Provide and place 1/2" thk. Cement/sand (1-3) mix mortar to new faces of block work. Allow for steel float finishing.				
8.1.1	Ditto Curb Wall	sq.yd	254		
8.1.2	Ditto to external and internal walls	sq.yd	1,700		
8.1.3	1/2" thick plaster to columns not exceeding 48" girth.	yds	130		
8.1.4	1/2" thick plaster to beams not exceeding 30" girth.	yds	220		
8.1.5	1/2" thick plaster to window sill not exceeding 16" girth.	yds	60		
8.1.6	1/2" thick plaster to window frames not exceeding 8" girth.	yds	120		
8.2	**TILING**				
8.2.1	Supply and install 18" x 18" non skid granite tiles to concrete floor and finish with white cement.	sq.yd	550		
8.2.2	Supply and Install 8" x 12" ceramic tiles to walls in washroom areas to a height of 5 ft	sq.yd	75		
8.3	**PAINTING**				
8.3.1	Provide and apply one (1) coat primer, and two (2) coats emulsion base paint to all hollow concrete block surfaces and concrete surfaces; allow for preparing surfaces.	sq.yd	1,700		
8.3.2	Prime, knot stop and apply two additional coats of oil paint to all timber surfaces	sq.yd	620		
8.3.3	Prime, knot stop and apply two additional coats of oil paint to all timber surfaces not exceeding 16 inch girth	yds	140		
8.3.4	Sand, knot, stop and apply two coats of lacquer to all doors	sq.yd	140		
	TO BILL SUMMARY				

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BILL No.9: PLUMBING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SANITARY INSTALLATION				
9.1	Install single bowl, double drain board, galvanized kitchen sink;complete with waste outlet, tap and all necessary plumbing fixtures needed to have it functional.	Nr	1		
9.2	WC suites; Armitage Shanks MAGNIA ref. 117924E; white glazed bowl 7.5 liters cistern with ball valve and fittings; Orion seat cover ref. 68890B1 or equally approved. Screwing cistern to backgrounds requiring plugging; bedding and pointing bowl in white cement and screwing to tiled concrete floor.	Nr	6		
9.3	Flushing cistern and urinal; Armitage Shanks 13.6 liters capacity with chromium plated flush pipes and or equally approved. Assembling and fixing pipes to cistern and urinal; fixing to background requiring plugging; screwing cistern and urinal to background requiring plugging.	Nr	2		
9.4	Vanity hand basin in Armitage Shanks Venice ref. 485014E with tap and brackets ref. 719200 & 729500 SC chromium plated waste rubber dug and chain or equally approved. Bedding basin in silicone sealant; bedding waste in plumbers mate; fixing clips to counter top framing.	Nr	7		
9.5	Provide and install 2' x 2' mirror to wall.	Nr	6		
9.6	Provide and fix toilet roll holder chromium plated.	Nr	7		
9.7	Allow for a provisional sum for other materials PVC or other and labour to make entire sanitary & potable systems operable.	Prov sum			$600,000
9.8	Allow for testing the installations for water tightness.	Sum			
9.9	Allow for connecting to existing water mains.	Sum			
9.10	**RAINWATER INSTALLATION**				
9.10.1	Supply and install PVC Gutters, 6" wide with solvent cement joints in the running length in standard fascia brackets at 15" centers. Allow for brackets and joins	Ly	86.0		
9.10.2	Provide and fix stop ends.	Nr	6.0		
9.10.3	Provide and fix Corners	Nr	1.0		
9.10.4	Provide for outlets with nozzle for 3" diameter down pipes.	Nr	6.0		
9.10.5	Rainwater down pipe 3" dia. and screwed to concrete with brackets.	Ly	90.0		
9.10.6	3" dia. bends .	Nr	24.0		
	TO BILL SUMMARY				

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BILL No.10: ELECTRICAL AND AIR CONDITIONING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	IT Building Section				
	Provide all tools, material and labour required for the completion of electrical works as outlined below.				
10.1	400Amp TP circuit beaker with enclosure panel	Nr	2		
10.2	125 Amp DP circuit beaker and panel	Nr	1		
10.3	150 Amp TP Circuit beaker with enclosure panel	Nr	1		
10.4	200 Amp TP Circuit breaker with enclosure panel	Nr	2		
10.5	8 to 16way DP panel complete with 20A DP Breaker	Nr	2		
10.6	12 to 24way DP panel Complete	Nr	4		
10.7	30 to 40way DP panel Complete	Nr	4		
10.8	30 DP breaker	Nr	12		
10.9	20 DP breaker	Nr	24		
10.10	15/15 duplex breaker	Nr	24		
10.11	20/20 duplex breaker	Nr	36		
10.12	40W 120 /240 Volts Double Flourescent electronic lamps	Nr	56		
10.13	50Watt LED Flood Lights 120-240Volts	Nr	8		
10.14	3" recess lamps with LED bulbs complete	Nr	25		
10.15	20 Amp DP switch	Nr	50		
10.16	1gang switch 2 way switch	Nr	14		
10.17	2gang switch 2 way switch	Nr	6		
10.18	3gang switch 2 way switch	Nr	2		
10.19	15 Amp 120V american cooper duplex outlet flush mount	Nr	50		
10.20	120Volts American duplex outlet surface mount complete	Nr	50		
10.21	6"X6" Metal Trunking	Nr	3		
10.22	4"X4" Metal Trunking	Nr	3		
10.23	PVC conduit fittings set of fittings	Sum			
10.24	4 inch PVC pressure pipes	Nr	1		
10.25	3x3 conduit punch out PVC base	Nr	45		
10.26	20mmConduit	length	30		
10.27	25mmConduit	length	80		
10.28	40mmConduit	length	80		
10.29	50 x 75mm trunking	length	30		
10.3	2x4 metal base	Nr	50		
10.31	3x3 metal base	Nr	60		
	TOTAL CARRIED FORWARD				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.10: ELECTRICAL AND AIR CONDITIONING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL BOUGHT FORWARD				
10.32	C6 Data caplex	box	2		
10.33	Dry wall screw 3/4 inch (1000 P)	box	3		
10.34	1/4x 1-1/2 inch rawl plugs (1000P)	packs	2		
10.35	Dry wall screw 1 inch (1000 P)	box	2		
10.36	4X 240mm cable xple	Meter	20		
10.37	4X 70 mm cable	Meter	15		
10.38	4X 35 mm cable	Meter	15		
10.39	3X 25 mm PVC cable with earth	Meter	15		
10.40	2x1.5 mm Flat cables with ECC	Meter	400		
10.41	2x2.5 mm Flat cables with ECC	Meter	800		
10.42	2x4 mm Flat cables with ECC	Meter	200		
10.43	3x6 mm Flat cables with ECC	Meter	100		
10.44	TELEPHONE CABLE	meter	200		
10.45	TELEPHONECONNECTION BOX	Nr	12		
10.46	12000 BTU **Inverter** Split type AC unit 240 Volts 60 HZ High wall R410 refrigerant	Nr	2		
10.47	18000 BTU **Inverter** Split type AC unit 240 Volts 60 HZ High wall R410 refrigerant	Nr	3		
10.48	24000 BTU **Inverter** Split type AC unit 240 Volts 60 HZ High wall R410 refrigerant	Nr	5		
10.49	36000 BTU **Inverter** Split type AC unit 240 Volts 60 HZ High wall R410 refrigerant	Nr	2		
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.11: EXTERNAL WORKS- SEPTIC TANK

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
11.1	**Excavation**				
11.1.1	Excavate foundation trench to a depth not exceeding 8"-0" and dispose of material as directed by the Engineer	cu yd	18		
11.1.2	Level, ram, and compact bottom of excavated trench to reduced line	sq yd	4		
11.1.3	Provide for keeping excavation free of water.	Sum			
11.1.4	Provide and place 6" thk.compacted white sand to bottom of Excavation; white sand to be compacted to 95% Proctor Desity	sq yd	4		
11.1.5	Provide and place 50mm thk. 1:6 cement/sand blinding to top of sandfill.	sq yd	4		
11.2	**Concrete Works**				
	Provide and place 3000psi reinforced concrete (19mm aggregate).Reinforcement and formwork measured separately.				
11.2.1	Base	cu.yd.	0.60		
11.2.2	Top and Covers	cu.yd.	0.60		
11.3	**Formwork**				
	Provide and place fair faced finish formwork . (including all braces, struts and ties).				
11.3.1	Base	sq yd	1.50		
11.3.2	Top and Covers	sq yd	5.00		
	Reinforcement				
11.4	Provide for rebar as indicated in drawings. Laps to be 40d and anchorage 45d and is not included in rebar quantity. Allow for 50mm coverage. All rebar's secure with 18 gauge wire.	lbs	320		
11.5	Provide, cut, bend and install 1/2" diameter m.s bars for handle to septic tank covers as shown in drawings.	lbs	15		
	TOTAL CARRIED FORWARD				

CLIENT: GUYANA POWER AND LIGHT INC
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BILL No.11: EXTERNAL WORKS- SEPTIC TANK

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL BOUGHT FORWARD				
	Block Work				
11.6	Provide for the laying (stretcher bond) of 6" x 8" x 16" HCB blocks for curb wall. Blocks to be laid with 12mm joints to all sides. All cores to be filled with concrete and reinforce with 10mm HT rebar to every other core. (reinforcement measured separately)	sq yd	20.00		
11.7	Provide and place 1/2" thk. Cement/sand (1:3) mix mortar to septic tank. Allow for steel float finish.	sq.yd	25		
11.8	Provide and place aggregate and charcoal to act as filter bed, as indicated in drawing.	Prov. Sum			$10,000
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

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BILL No.12: CONCRETE TRESTLE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12.1	Excavate trench for strip foundation not exceeding 6' deep and dispose of material as directed by the Engineer.	cu. Yd	10		
12.2	Level, ram, and compact bottom of excavated trench to reduced line	sq yd	10		
12.3	Provide for keeping excavation free of water.	Sum			
12.4	Provide and place 6 inch thick compacted white sand to bottom of excavation; white sand to be compacted to 95% Modified Proctor Density.	sq yd	10		
12.5	Provide and place 50mm thk. 1:6 cement/sand blinding to top of sandfill.	sq yd	10		
12.6	Level and compact white sand in layers of 4" to receive floor slab	cu. Yd	6		
12.7	Return, fill and compact excavated materials around foundation.	cu. Yd	7		
12.8	**Concrete Works** Provide and place 3000psi reinforced concrete (19mm				
12.8.1	Ditto foundation	cu yd	3.2		
12.8.2	Ditto Columns	cu yd	2.5		
12.8.3	Ditto Beams	cu yd	1.8		
12.8.4	Ditto Ground Floor Slab	cu yd	0.8		
12.8.5	Ditto First and Second Floor Slab	cu yd	2		
12.9	**Formwork** Provide and place fair faced finish formwork (including all braces, struts				
12.9.1	Ditto foundation	Sq Yd	6.5		
12.9.2	Ditto Columns	Sq Yd	35		
12.9.3	Ditto Beams	Sq Yd	18		
12.9.4	Ditto First and Second Floor Slab	Sq Yd	12		
12.1	**Reinforcement** Provide for rebar as indicated in drawings. Laps to be 40d and				
12.10.1	Ditto foundation	lbs	450.00		
12.10.2	Ditto Columns	lbs	575.00		
12.10.3	Ditto Beams	lbs	375.50		
12.10.4	Ditto Floor Slabs	lbs	675.72		
12.10.5	Ditto Curb Wall	lbs	70.00		
	TOTAL CARRIED FORWARD				

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PROJECT CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

ENGINEER'S ESTIMATE 28-Oct-15

BILL No.12: CONCRETE TRESTLE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL BOUGHT FORWARD				
12.11	Provide and place No 65 BRC fabric to Ground Floor Slab, include for a minimum lap 6" lap.	Sy	6		
12.12	Provide and place DPM fabric to Ground Floor Slab, include for a minimum lap 6" lap.	Sy	6		
12.13	Block Work Provide for the laying (stretcher bond) of 6" x 8" x 16" HCB blocks for curb wall. Blocks to be laid with 12mm joints to all sides. All cores to be filled with concrete and reinforce with 10mm HT rebar to every other core. (reinforcement measured separately)	sq yd	10.00		
12.14	**METAL WORK** Metal work in mild steel R.H.S; etch and two coats zinc chromate primer after fabrication.				
12.14.1	2" dia galvanized pipe welded to steel pipe post support to form top and bottom handrail.	Ly	20		
12.14.2	2" dia. Galvanized pipe post support welded to hand rail and base steel plate.	Ly	5		
12.14.3	2" dia. Galvanized pipe welded together to for ladder 12" wide from top of hand rail to base of trestle fixed to beams.	Ly	25		
12.14.4	6" x 6" x 1/4" thick base plate holed four times for 1/2" diameter anchor bolts and welded to post uprights.	Nr	4		
12.14.5	Anchor bolts 1/2" diameter x 3" long cast in concrete, with nut and washer.	Nr	16		
12.14.6	Provide for 1/2" dia holes in metal plate.	Nr	16		
12.14.7	Touch up metal primer, one finishing coat of anti-corrosive paint	Ly	50		
	TO BILL SUMMARY				

CLIENT: GUYANA POWER AND LIGHT INC
PROJECT: CONSTRUCTION OF TRAINING SCHOOL, SOPHIA, GREATER GEORGETOWN

ENGINEER'S ESTIMATE 28-Oct-15

BILL No.13: EXTERNAL WORKS- WALKWAYS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	CONCRETE WALKWAY (6' WIDE X 4" THICK)				
13.1	Excavate trench for strip foundation not exceeding 6' deep and dispose of material as directed by the Engineer.	cu. Yd	30		
13.2	Provide for the laying (stretcher bond) of 4" x 8" x 16" HCB blocks for curb wall. Blocks to be laid with 12mm joints to all sides. All cores to be filled with concrete and reinforce with 10mm HT rebar to every other core. Exposed side of blocks to be plastered. (All Measured).	sq yd	60.00		
13.3	Level, ram, and compact bottom of excavated trench to reduced line and level	sq yd	50		
13.4	Provide for keeping excavation free of water.	Sum			
13.5	Provide and place 6 inch thick compacted white sand to bottom of excavation; white sand to be compacted to 95% Modified Proctor Density.	sq yd	50		
13.6	Provide, place and compact white sand to raise walkway area to the desired height; white sand to be compacted to 95% Modified Proctor Density.	cu. Yd	150		
13.7	Provide and place 3000psi reinforced concrete (19mm aggregate).Reinforcement and formwork measured separately.	cu. Yd	19.52		
13.8	Provide and place rough 1 x 6 H.W. formwork to sideway of walkway.	Ly	86		
13.9	Provide and place No 610 BRC fabric to walkway, include for a minimum lap 6" in paving.	Sy	160		
	TO BILL SUMMARY				

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

1.0 GENERAL AND PRELIMINARIES

2.0 BLOCKWORK

3.0 BRICKWORK

4.0 CARPENTARY & JOINERY

5.0 CONCRETE

6.0 FLOOR, WALL AND CEILING FINISHES

7.0 PAINTING

8.0 PLUMBING

9.0 ROOFING AND GUTTERS

10.0 ELECTRICAL INSTALLATIONS

GENERAL AND PRELIMINARIES

A. Allow for tools, vehicles and transport for work people

B. Allow for safety, health and welfare of workplace and work people

C. Allow for safe guarding the works, materials and plant against damage , theft

D. Allow for keeping noise levels down to a minimum

E. Allow for the provision of water for the works and work site

F. Allow for providing lighting and power for the Works

G. Allow for the construction and maintenance of temporary buildings

H. Allow for the construction, furnishing and maintenance of a site office of at lest 150 sq. ft. of floor space

I. Allow for general scaffolding for the Works

J. Allow for protecting the Works from inclement weather

K. Allow for keeping the site clean and tidy during construction and for a final cleaning to be carried out on completion

L. Allow for costs pertaining to the contract/site administration overheads e.g. storekeeping, purchasing, book-keeping, Head Office charges.

M. All discarded materials shall be the property of the Sponsor

GENERAL

2.1 No separate payments shall be made for complying with provisions of the General Specifications. In particular no separate payment shall be made for the construction and maintenance of temporary drain diversions and testing of materials.

Whether specified or not no separate measurement shall be made in respect of items to be built in or fixed to concrete or timber; for painting contact surfaces; drilling; bolting inclusive of bolts nuts and washers; jointing and jointing materials; shuttering; boxing out and filing thereof; grouting; packing; making good; cutting; waste; labour, materials; Temporary Work; Construction Plant; storing; handling and all incidental work to the item concerned and their surrounding.

2.2 EARTHWORKS IN STRUCTURE

2.3 Excavation in open cut shall be measured where the sides of the finished excavation are shown on the Drawings as free-standing.

Excavation in foundation shall be measured as the volume of the product of the horizontal area of the base of the Permanent Work to be constructed and the mean depth from the original undisturbed surface or as the volume below the said surface displaced by the Permanent Work or to the limits of excavation shown on the Drawings, which ever is the greater and which is defined as the net excavation.

Back-fill shall be measured as the volume from the approved excavation level up to the formation level as shown in the drawings or ordered by the Engineer. The cost of special compaction shall be included in the rates.

Fill from approved borrow area shall be arranged by the Contractor irrespective of any haul distance and the volume available from associated excavation.

2.4 CONCRETE WORKS

Unless otherwise described in the Bill of Quantities, concrete work as specified in the Technical Specification shall be measured in terms of three categories of work, namely; concrete shuttering and reinforcement as described below and set out in the Bill of Quantities.

No separate payment shall be made, inter alia, for the surface finishes whether given by shuttering or obtained from the use of tamped screed boards, wood or steel floats; mixing concrete; transporting; placing and compacting concrete; construction joints (whether shown on the Drawings or not; precaution for concreting in unfavorable weather; curing; ascertaining requirements of reinforcement, bending, cutting and fixing reinforcement or work space for erection and handling back shuttering.

2.5 CONCRETE

Concrete shall be measured as the net volume of concrete to the dimensions specified in the Permanent Works, but no deductions shall be made in respect of the volume occupied by reinforcement or in respect of small openings, recesses, chases and embedded fixtures.

2.6 SHUTTERING

Shuttering shall be measured for all final surfaces of in situ concrete which require temporary support during casting except where otherwise specified or indicating on the Drawings.

2.7 REINFORCEMENT

Steel bar or rod reinforcement used be measured by mass, as calculated from the dimensions shown on the Drawings. Laps in reinforcement shall not be measured except where these are indicated on the Drawings.

Wire or other material required for support and securing the reinforcement in its correct position shall not be measured.

2.8 TIMBER

Measurement shall be made for the payment of timber used in the Permanent Works of the structure. The rate for Greenheart members include for the supply, handling, labour, waste, painting, fixing and placing in position as per Drawings.

2.9 LUMP SUM ITEMS

These items shall be considered for payment by the Engineer partly/wholly based on the judgement and satisfaction of the Engineer in respect of progress, quantity and quality of the Works done under each item.

2.0 BLOCKWORK

CEMENT AND WATER

Cement, sand and water shall be as described under “CONCRETE”.

MORTAR

Mortar shall be mixed in 1:4 proportions on site in a similar manner to concrete. Mortar which has commenced to set is not to be re-used.

CLAY BLOCKS

Hollow clay blocks shall conform to BS 3921:1965 of first quality, good, sound hard and well burnt, true to shape and size, ribbed and scored for plaster.

CONCRETE BLOCKS

Concrete blocks shall conform to BS 1180:1944 of first quality, good, sound, hard and well cured and true to shape and size, of the types described.

Thoroughly wet concrete blocks before laying. Solidly bed all joints of block work with mortar 1/8" thick. Tool joints of exposed block work which is not to be plastered for a depth of 3/8" before the mortar has set to form a concave joint and leave the edges of the blocks well defined.

Build block work in running or garden bond and carry up regularly and truly with no part rising more than three courses above the adjoining work. Keep perpendiculars joints etc. Strictly true and the whole properly bonded together. Build cross walls at the same time with main walls and properly bond together.

3.0 BRICKWORK

Clay bricks shall be used as specified on the drawing.

All clay bricks shall be of thickness equal to the wall thickness shown on the drawings thoroughly saturated with water before placing and shall be wet at the time of laying, all joints to be thoroughly buttered up with the mortar as the work proceeds and to be not more than 3/8" thick.

Clay bricks shall be the full nominal thickness and shall be well built of good shape free from cranks. The use of badly cut bricks will not be permitted.

All masonry is to be built true to line, plumb, square and level with vertical joints in proper alignment.

4.0 CARPENTRY AND JOINERY

QUALITY

All timber shall be the best quality available of the respective types, free from rot, excessively large or loose knots, splits, fungus or other defects.

SPECIES

Sawn timber for structural members' joints, trusses etc. shall be greenheart or other hardwood approved by the Engineer with the standard minimum strength characteristics as set out in the British Standard Code of Practice 112:1967.Sawn timber for non-structural members shall be Greenheart, Purpleheart, Kabukalli, Tatabu, Shibadan, Manni, Toura nira, Hubaballi or other species approved by the Engineer.

All joinery timber is to be Crabwood, Brown Silverballi, Yellow Silverballi, Dukali, Simarupa, Hububalli or other species approved by the Engineer, dried to achieve an equilibrium moisture content of around 14%.

CARPENTRY WORK

The workmanship shall be of the best quality. Scantlings and boring shall be accurately sawn and be of uniform width and thickness throughout.

Carpentry shall be accurately set out in strict accordance with the drawings and shall be proned together and securely fixed with properly made joints. All brads, nails, screws, plugs and pins are to be provided as necessary.

All timber of large scantlings is to be sawn immediately the building is commented to allow for any shrinking that may take place.

Boarding to treads and landings of steps and staircase shall be greenheart.

NAILS, SCREWS AND BOLTS

Nails, screws and bolts where applicable shall be in accordance with BS 1202, 1210 and 916 respectively.

CHIPBOARD

The Chipboard shall be made from particles of wood bonded with synthetic resin all in accordance with BS 2604 with the inclusion of a termite inhibiting chemical.

HARDBOARD

Hardboard shall be 1/8" thick standard minimum having a density of 50 lb per cu. ft.

EXPOSED FACES

Timber which is to be exposed in the finished work shall be 'dressed' unless otherwise described or instructed.

TOLERANCES

An allowance of one-eight of an inch shall be permitted from the nominal size for each dressed face of the timber, sawn timbers shall be the full nominal thickness.

PLYWOOD

Plywood shall be external and internal quality in accordance with BS 1455 but with termite resistant glue.

DOORS

Doors shall comply in all respects with BS 495 part 2 and shall be constructed in a joinery shop or by a specialist joinery manufacturer. Timber for use in doors shall be specially selected for straightness and be free from faults, tenoned, glued and pinned together. The rates for doors shall include for ironmongery and the thicknesses. Plywood covering for doors shall be glued to the framework and lipped at all edges.

PLASTIC LAMINATE

Plastic laminate shall be arborite, fornica or other equal and approved and shall be as BS 3749 and be pressure-bonded to timber plywood or other baking with a top grade contact adhesive.

NAILS

Prices for carpenters' and joiners' work shall include for all labours, cuttings, splays, notchings, halving to other timbers, holes, countersinking, mortising, tenoning and wedging, pre-drilling, hardwood pins, gluing and making joints with lead, plugging with lead, plugging to concrete or block work where so described. All timber work shall be left clear and clean and the Contractor is to allow for this in his prices.

5.0 CONCRETE

CEMENT

Cement used in the Works except where otherwise specified shall be Ordinary Portland Cement complying with the requirements of B.S. 12 part 2 or AASHO M85/ASTM C150.All cement shall be delivered in the original sealed containers of the manufacturer. No re-bagged cement will be permitted to be brought on site. Cement shall be stored 18" above the ground, protected from the weather.

Cement which has become stale with hardened lumps shall not be used in the Works.

AGGREGATE

The aggregates for use in concrete shall confirm in all respects with BS 882 or AASHO M6 and shall comprise inert, inorganic mineral matter only. Fine aggregate for concrete shall be clean natural white sand.

The course aggregate shall consist of natural gravel crushed stone. The grading shall be within the limits laid down in BS 882 nominal size ¾" to 3/16". The grading shall be such as to produce a dense concrete of the specified proportions, and of a consistency that will work readily into positions without segregation and without the use of excessive water content. All aggregate shall be clean and free from impurities.

All aggregate shall be stored in such a manner as to prevent segregation of sizes and to avoid the inclusion of dirt and other foreign material.

WATER

The water to be used in the Works shall be clean and free from all harmful matter in suspension or solution and shall be from a source approved by the Engineer. Sea water is not to be used under any circumstances.

REINFORCEMENT

All reinforcement steel bars shall be mild steel bars and shall comply with BS 4449. Mesh reinforcement is to be welded steel fabric complying with BS 4483. Reinforcing steel shall be thoroughly cleaned of all mud, oil, rust and other foreign matter before surrounding with concrete.

The number, size, form and position of all steel reinforcing bars, ties, links, stirrups and other parts of the reinforcement shall be in exact accordance with the Drawings, BS 4466 and CP 8110 and they shall be kept in the correct position and with the required cover without displacement during the process of compacting the concrete in place in a manner approved by the Engineer.

Bends, cranks or other labours on reinforcement bars shall be carefully formed in accordance with the Drawings, BS 4466 and CP 8110.

The bars shall be bent cold in a manner which does not injure the material. Where splices or overlapping in reinforcement are required the bars shall, unless otherwise shown on the Drawings have an overlap of not less than thirty diameters where a U-hook is employed on each of the overlapping bars and forty-five diameters for bars without hooks.

Timber blocks for wedging the steel off the formwork will not be allowed.

Bars shall be bound together with best black annealed mild steel wire No. 16 SWG in diameter. The binding shall be twisted tight with pliers and the free ends of the binding wire shall be bent inwards.

The straightening or re-bending of steel already bent will not be permitted.

MIXING CONCRETE

Concrete shall consist of cement, graded aggregate and water thoroughly mixed and compacted to achieve a satisfactory strength and workability. The concrete shall be thoroughly compacted using a mechanical vibrator of a type approved by the Engineer.

The mixed concrete shall have a minimum cube crushing strength of 3000lb/sq. in. when tested in accordance with BS 1881. The Engineer may take samples of freshly mixed concrete at any time for testing in this manner. The nominal volumetric proportion of the mix shall be one part cement to two parts of fine aggregates to four parts coarse aggregates.

The Contractor will inform the Engineer of the exact proportions which he proposes to use in order to achieve the required strength.

Slump tolerances for the mix shall be agreed with the Engineer before commencement of the Works and these shall be strictly adhered to during the works. Suggest permissible ranges.

Footings:	1” – 3”
Slabs, beams, columns	1” – 4”

PLACING OF CONCRETE

The concrete shall be deposited in the form as nearly as possible in its final position without segregation and in a manner to avoid displacement of the reinforcement.

The mixing of concrete by batch mixer shall continue not less than 1.5 minutes after all the materials are in the mixer and the mixer shall rotate at a speed of 14 to 20 revolutions per minute. When hand-mixing is authorized by the Engineer it shall be done on a water-tight platform. The fine and coarse aggregate in appropriate shall be spread on the platform and thoroughly blended before the cement is spread evenly over the blended aggregate. Only sufficient water to produce the desire consistency shall be added as the batch is turned.

Concrete shall be thoroughly compacted during placing and shall be carefully worked around all reinforcement and into the sides and corners of the formwork, using a heavy duty high frequency vibrator.

FORMWORK

Formwork and its loading shall be sufficiently strong to carry the work and all incidentals loading. The props and lateral supports shall be sufficiently closely spaced to prevent displacement or visible deflection of the shutters under the weight of the hydraulic pressure of the wet concrete. All joints in the form and joints between the formwork and previous work shall be sufficiently tight to prevent loss of liquid from the concrete through these joints.

Formwork must be constructed to the approval of the Engineer.

The inside surfaced of forms shall be coated with a releasing agent to the approval of the Engineer.

The position of all expansion and construction joints shall be agreed with the Engineer before work is commenced.

The structure shall not be distorted, damaged or overloaded in any way by the removal of the formwork by the concrete members.

The responsibility for the safe removal of any part of the formwork shall rest with the Contractor.

6.0 FLOORS, WALL AND CEILING FINISHES

CEMENT FINISHINGS

Cement Finishing's shall be laid with a mix of cement and sand 1:3 with the addition of 'Cementone Nr. 8', 'Lithurin', or other approved hardening compound.

GRANOLITHIC FINISHINGS

Granolithic finishings shall be laid with a mix of cement, sand and hard limestone chippings graded from ¼ inch (6mm) to 1/8 inch, (3mm) and free from dust in the proportions of 1:1:2 with the addition of an approved hardening compound.

After placing and compaction of the finishings, the surface shall be lightly trowelled to smooth out surface marks and shall then be left until such time as it can withstand a hard trowelling without the course aggregate being disturbed. Dry cement shall not be used to hasten the final trowelling.

CREMIC FLOOR TILING

Ceramic floor tiling shall be accurately laid in a 3/8 inch (10 mm) thick bed or mortar or alternatively fixed with an approved adhesive to a trowelled bed. Joints between tiles shall not exceed 1/8 inch (3 mm) in width and grouting shall be with white or coloured cement. Tiles bedded in mortar shall be well-soaked in clean water immediately prior to laying.

TERRAZZO

White and coloured cements shall be 'Cementone or other approved and pigments shall comply with B.S. 1014.

Aggregates for terrazzo shall consist of crushed Italian marble chippings of approved colour and size or approved equivalent. The chippings shall be sharp and angular, not flakey, and free from dirt, dust or other impurities and shall contain no fines.

All work shall be carried out in accordance with CP 204 part 3.

The Terrazzo shall be composed of 2 ½ parts of marble chippings of up to 3/8 inch (10 mm) gauge or approved equivalent and one part of coloured cement. The finished appearance of in-situ and precast work shall be identical. Terrazzo tiles shall be through in shape and have a smooth even finish. Tiles shall be laid in 3/8 inch (10 mm) thick bed of mortar. Joints between tiles shall not exceed 1/8 inch (3 mm) in width and grouting shall be well soaked in clean water immediately prior to laying.

DIVIDING STRIPS

Dividing strips shall be set accurately in position, all joints being closely made at points of intersections only. On completion of the floor finishing, the strip shall be level with the finish and completely visible.

CURING AND PROTECTION

In-situ floor finishings shall be cured and protected by covering with polythene sheet or other impervious material for at least five (5) days after final trowelling or grinding. Floor tiling shall be similarly covered until practical completion of the Works.

PLASTERWORK

The mix for plasterwork shall be 1:3 cement and sand with the addition of an approved mortar plasticizer and shall be carried out in the number of coats specified. Single-coat work shall be ½ inch (12 mm) thick and two-coat work ¾ inch (19 mm) thick in two-coat work, the first coat shall be well-scored to assist adhesion of the second coat.

Unless otherwise described, all internal work shall be finished with a steel trowel and all external work with a wood float. The plasterwork shall be finished with surfaces perfectly flat and flush to stand the straight-edge every way. All work shall be free from cranks, blisters or other defects and be left perfectly clean. The Contractor shall complete each section of the work in one operation. External angles shall be true and slightly rounded.

Solid bases shall be thoroughly brushed to remove dust, efflorescent salts and loose particles. High suction bases shall be thoroughly wetted immediately before plastering.

CERAMIC WALL TILING

Ceramic wall tiles shall comply with the provisions of B.S. 1281 and be fixed in accordance with CP 212.

BEDS AND BACKINGS

Beds and backings shall be screeded, floated or trowelled as described. The materials for beds shall be mixed with a minimum of water so that no water appears on the surface when screeded, floated or trowelled. Screeded backings for wall tiling may be likely scored to assist adhesion.

7.0 PAINTING

Prior to the application of any paint on any item, the Engineer must verify that the particular item is as per the Drawings and Specifications.

All paints are to be delivered to site in the manufacturers' sealed containers and to be used strictly in accordance with the manufacturers' instructions. All materials used unless otherwise stated shall be **anti-fungus**.

PREPARATION AND APPLICATION

Thoroughly dust and clean down surfaces to be painted, cut out cranks, stop holes and clean steelwork of rust in accordance with approved practice.

Apply paint by brush, roller or spray with the minimum of dilution.

Allow to dry well and rub down each coat of paint before the next is applied.

No paint shall be applied to a damp surface, and no external painting shall be carried out during wet weather.

WOODWORK

All wood surfaces to be painted shall be properly rubbed down, timed and stopped before painting.

Woodwork is to be painted with one coat of lead free wood primer after which all cracks, holes tec. shall be filled with anti-fungus putty which shall be allowed to set before sanding and applying two coats of oil paint.

All timber will be painted as specified above with the exception of the underside of floors, traders, landing boards and all roof members when not exposed.

METAL WORK

The surfaces of metal work to be painted shall be prepared by removing dirt, grease etc. with an approved solvent and rust and scale by wire brushing and allowed to dry.
The surfaces are to be painted with one coat of primer and two coats of oil paint allowing at least one hour drying between coats.

MASONRY

Masonry surfaces are to be prepared for painting by allowing to dry for as long as possible remaining all mortar splashes by rubbing with a pumice or flat stone and thoroughly brushing to remove dust.

The priming coat shall be allowed to dry. All cracks, holes etc. shall then be filled with patent filler which shall be allowed to set and sanded to a smooth finish before the application of subsequent coats.

8.0 PLUMBING

GENERAL

The plumbing works shall be carried out by experienced craftsmen and shall be carried out in accordance with the local building by-laws.

WATER SUPPLY AND WASTE PIPES

PVC pipes shall conform to BS 3505: 1968 for "unplasticised PVC pipes". Fittings shall be of the solvent-wieldable type. Traps shall comply with the provisions of B.S. 3943 and have a zinc seal. Brackets and clips shall be of non-ferrous metal or P.V.C. coated steel.

Pitch fiber pipes and fittings shall conform to BS 2760: 1966/7.
Cast iron pipes and fittings shall conform to BS 78: 1961.

SOIL PIPES

To be 4" diameter PVC pitch fiber pipe jointed a per manufacturer's instructions, fixed to concrete columns with metal bands and to timber parts by heavy duty timber screws and brackets. The soil pipe is to be connected to the septic tank.

PEDESTAL CLOSET

The pedestal closet is the be glazed earthenware with trap, hinged plastic seat cover, 3 or 2 ½ gallon white glazed earth ware low level cistern with 1 ½" flush pipe. The closet is to be screwed to wood floor and jointed to the soil pipe. The cistern is to be screwed to bearers fixed to the wall.

The whole of the service is to be tested and left in satisfactory working order.

SOLDER

Plumbing's solder shall comply with B.S. 219 Grade D and flux shall be Tallow.

TAPS AND STOP VALVES

Drain-off taps and stop-valves shall comply with B.S. 1010.

9.0 ROOFING AND GUTTERS

GALVANISED STEEL SHEETING

Roof covering shall be corrugated galvanized zinc sheeting of approved manufacture to the gauge specified conforming in all respects to BS 3083 (for standard corrugated sheeting).

ALUMINUM SHEETING

Aluminum sheet roofing shall comply with B.S. 2855 (for corrugated sheeting) and B.S. 3428 (for troughed sheeting).

Fixing aluminum sheets to timber shall be with aluminum alloy drive screws with saddles, plastic washers and covers.

FIXING ROOF SHEETING

Lay sheets as described with at least one full corrugated side lap or 6 inches over lap. Sheets shall be securely nailed to the roof with galvanized broad-headed roof nails of suitable length at intervals not exceeding ten inches to give continuous lines. The laying of sheets shall commence at the western-most end of the roof slopes so that exposed edges are downwind.

RIDGINGS AND FLASHINGS

Ridges and flashings shall be 22 gauge aluminum or 24 gauge galvanized sheeting cut to the size, and bent to the profile shown and accurately fixed with galvanized drive screws and reopened washers.

WATER TIGHT

Leave roofs clean and watertight at completion to the satisfaction of the Engineer.

All cavities between roof and ceiling are to be adequately ventilated**.**

11.0 ELECTRICAL INSTALLATIONS

1 SECTION 1: MATERIALS, WORKMANSHIP & INSTALLATION INSTRUCTIONS

1.1 REGULATIONS

The installations shall comply in their entirely with the requirements of the Government Electrical inspector of Guyana, and the current edition (including up to date amendments) of the Regulation for Electrical Installation issued by the Institution of Electrical Engineers of the United Kingdom.

The "Contractor" shall ensure that all tests to ascertain compliance with these regulations are carried out before the hand-over date.

1.2 ELECTRICAL SUPPLY

The electricity supply in Guyana is 60 HZ.

1.3 WORKMANSHIP

All workmanship shall be of the highest recognized standards, and in conformity with the code of practice, issued by the British standards Institution or internationally recognized equivalents.

1.4 DRAWINGS & SPECIFICATIONS

The drawings and specifications are complementary, and any discrepancy between them must be brought tom the attention of the "Supervisory Consultant" for a decision. Failure to do so by the "Contractor" will result in a total cost to him for any rectification or replacement.

1.5 MATERIALS

All materials used, including those not specifically described shall be the best of their respective type, and of adequate size and strength, to ensure, the mechanical and electrical soundness of the installation. Such details being in the form of the manufacturers' literature, sketches, etc.

1.6 SETTING OUT

The "Contractor" shall be responsible for the accurate marking and setting out of the installation. The drawings indicate the proposed positions of the fittings and outlets, but the "contractor" must refer to the architectural and structural details, in order to ensure integration with the other services, building structure, ceiling tile arrangement, etc.

1.7 CUTTING AWAY, MAKING GOOD & TRENCHING

Cutting away, making good and trenching will not be a part of the "Contractor's" work. The "Contractor" shall identify and accurately locate all cutting away, trenching, and other builders' work and arrange for the execution.

1.8 (a) **DESCRIPTION**

The main supply shall comprise P.V.C. cables with copper conductors as sized and indicated on drawings.

(c) INSTALLATION

The cable shall be run in high impact P.V.C. conduit, sized as indicated on the drawing, and run at high (eaves) level from the main switch (provision been made for metering) in the building to the service entrance as indicated.

1.9 MAIN SWITCH

DESCRIPTION

This shall be as indicated on the appropriate drawing.

The switch shall be the H.R.C. fused type suitable for A.C. application and surface mounting. The enclosure shall be fabricated from rust proof material or material treated for application in a humid and high saline atmosphere.

The enclosure shall be fitted with locking facility; if padlock is to be used this must be provided.

INSTALLATION

The switch shall be installed, only where the distance between the supply cable entry and the main switch-gear exceeds twenty feet (20' – 0") and shall be secured to the building structure by no less than (4) four corrosion resistant screws and rawlplugs.

1.9 (a) MAIN SWITCH

Where this is the case, it shall be sited as instructed by the "Supervisory Consultant", and positioned at a height of no less than eight feet (8' – 0") from floor level, and fixed by four # 12 x 11/4" brass or similar corrosion resistant screws with appropriately sized washers.

NOTE: On some sites, no supply lines of the Supply Authority existed at the time of the installation design.

1.10 **METER**

DESCRIPTION:

The meter shall be provided and installed by the Supply Authority.

INSTALLATION:

The "Contractor" shall build the meter circuit and make provision for the installation of the meter (provide meter board). The meter shall be sited and positioned as agreed by the Supply Authority and the Supervisory Consultant.

1.11 **DISTRIBUTION BOARD**

The board shall be the MCB type suitable for surface mounting. The enclosure shall be fabricated from corrosion resistant material or treated for use in a salt laden atmosphere.

The breakers shall operate at their rated capacity at a minimum of 30 C without derating and have a minimum 1 c of 10,000 A symmetrical on 240V.

INSTALLATION

The board shall be fixed to the building by no less than four (4) corrosion resistant screws, washers and rawlplugs.

The internal wiring shall be neatly arranged connections firmly made and the neutral wire fixed on the neutral bar in a position corresponding to that of the breaker controlling the circuit.

All distribution boards shall carry fixed indelible circuit charts to indicate the number and locations of lights or points (socket outlets) controlled by the breaker.

1.12 SUB-MAINS

DESCRIPTION:

The cables taking the supply from the main switch-gear to the distribution boards (panel).

Unless otherwise indicated, these shall be P.V.C. insulated, single core copper conductors, rated at no less than 500V, and sized as indicated on the drawings. The cables shall be red for the lines and black for the neutral or colour coded with P.V.C. tape at each termination.

INSTALLATION:

The cable shall not be knicked, brushed or in any way damaged, to permit the ingress of water to the conductor, which may lead to low conductor reading to earth.

1.13 CONDUIT & PIPING

DESCRIPTION:

Adequately sized, high impact P.V.C conduit shall be used for all high level runs within the buildings.

Water tight P.V.C. piping of adequate size, shall be used for all linking of the buildings and all below ground level.

INSTALLATION:

The conduit shall be installed in its entirely before cables are drawn in.

Inspection boxes, draw boxes, bend tees, etc., and shall be accessible for the purpose of withdrawal or addition of cables. All boxes in which underground conduit (pipe) are terminated must be positioned at 2' – 0" above finished floor level. All conduit (pipe) rising below ground, must run concealed in the wall, and all boxes in which such conduit (pipe) terminate, must be flushed, and the covers (lids) must be fixed with four screws, in order to minimize vandalism.

All conduit (pipe) run below ground must be permanently watertight, and be run at a depth of 18".

The number of cables drawn into any conduit shall exceed that given in table B5 and B6 of I.E.E. regulation (14^{th} edition).

Conduit running below ground across open areas, shall be protected by 6" x 1" greenheart slab, and the route marked by 9" concrete cube partly buried cable marker at 20' – 0" intervals; on the top of the cable marker shall be inscribed "ELECTRIC CABLES'.

1.14 CABLES

INSTALLATION:

The PVC/PVC/SWA cable shall be run from the switchgear to the distribution. The cable shall be run partly on the building structures and partly in free earth. Where the cable run in free earth, it must be laid on a 6" bed of sand 18" below ground and protected by cable tiles or equivalent material. Where the cable run on the building structure, it must be supported by straps, at no more than 4' 0" intervals.

The loop-in system of wiring shall be used in the installation of the PVC ECC cables, and joints would only be permitted when approved by the Engineer.

1.15 Light Emitting Diode (LED) Lamps and Fixtures

All LED light engines (combination of diodes, driver, heat sink, housing and optics), whether screw - in or hardwired, shall meet all of the following criteria:

- The rated driver input wattage and total number of LEDs shall be published by the manufacturer for each funded Fixture Unit (driver and LED combination) and shall be the same wattage used in the Fixture Counts Page of this Lighting Workbook.
- All equipment must have model - identification that is specific and clear enough to accurately match installed equipment with equipment submittals and specific product entries in the qualification lists referred to below.

1.16 SOCKET OUTLETS (POINTS)

DESCRIPTION:

13A Socket Outlet: This shall be the surface mounting type of non paneled wall and the flush type on paneled walls.

The outlet shall be ivory or white plated.

INSTALLATION:

The outlet box shall be mounted flush in the wall at a height of 12" centre from finished floor level and 6" centre from working tops and must be effectively earthed.

The outlet must be fixed to the box by no less than two (2) security screws.

NOTE: A minimum of four (4) screw drivers or appropriate tools for the screws must be provided and handed over to the Client at the completion of the project.

DESCRIPTION:

10/15A Socket Outlet.

These shall be the surface mounting type on non paneled walls and flush type on paneled walls.

The outlet shall be ivory or white plated. The receptacle for the outlet pins shall be oblong and parallel for line and neutral and semi-circular for the earth (North America type).

NOTE: The voltage supply to each outlet must be clearly and permanently marked on the wall (not on the outlet) adjacent to the outlet.

INSTALLATION:

Similar to that of the 13A socket outlet.

1.17 SWITCHES (FOR LIGHT CONTROL)

DESCRIPTION:

These shall be suitable for use on A.C. circuits and for switching fluorescent fittings. They shall be the surface mounting for non paneled walls and flush type for paneled walls.

Switches rated at no less than 5A shall be used on all 240V lighting circuits, and no less than 10A on all 110V lighting circuits.

INSTALLATION:

Unless otherwise instructed, all switches shall be positioned at a height of 4'6" centre from finished floor level, and 5" from the adjacent door jamb.

The Architect's drawing must be checked to ensure that the position of the switched is not in conflict with door swings, and other structural limitations.

1.18 EARTHING

The earth terminals of all socket outlets, and the mounting boxes shall be permanently and effectively connected to earth.

All exposed non-current carrying metal parts of fittings, electrical components; equipment and the steel frame of the building shall be effectively bonded to earth.

The earth loop impedance of all circuits shall be low enough to ensure the proper operation of all circuit breakers and fused in accordance with table 41A of I.E.E. Regulation 413-5.

The earth continuity conductor shall be of copper, adequately sized, and bonded to the earth electrode to ensure compliance with the regulations.

The earth electrode shall be ¾" solid copper rod, or galvanized steel pipe of no less than 1" diameter, driven to a minimize of (8' – 0") eight feet into the ground.

Connection of the earth continuity conductor to the main switch and switch-gear shall be made of soldered or crimped lug, spring and flat washer and bolt and nut.

1.19 AIR CONDITIONING UNITS

SPLIT SYSTEM

Condensing Unit:

The condensing unit shall be the direct expansion type. The cabinet shall be constructed from galvanized coated steel and all metal parts and screws treated for external use in a salt laden atmosphere.

Removable panels to facilitate electrical and refrigerant maintenance shall be provided. The fan motors shall be totally enclosed type.

The compressor shall be the hermetically sealed type with temperature and current protection devises and the condenser soils shall be the copper tubes with mechanically bonded aluminum fins.

Air Handler:These shall be matched with the condensing unit and suited for wall and ceiling mounting.

The cabinet shall be fabricated from galvanized steel, treated and attractively finished off-white or similar attractive colour. The fan assembly shall be mounted on anti-vibration mounts for quiet operation.
Washable filters shall be provided for economical maintenance.

1.20 LABELLING

The Contractor shall supply and fix trifoliate or similar approved permanent tables, to indicate the function of all main switches and breakers on the main switch-gear and wherever the function of such items are not obvious.

Printed circuit lists shall be fixed on the inside covers of all distribution boards, to indicate the lights/points on the circuit and their location.

All labels shall be fixed to their respective positions before the hand-over date.

The following notice, of such durability, as would remain legible throughout the life of the installation, shall be fixed in a prominent position near the main switch-gear.

IMPORTANT

This installation shall be inspected every year, and a compliance certificate obtained from the Government electrical Inspector.

DATE OF THE LAST INSPECTION: ……

1.21 TESTING

The Contractor shall arrange for the installation to be inspected and tested by the Government Electrical Inspector and a certificate of compliance issued to the owner.

1.22 WARRANTY AND REPAIRS

The Contractor shall ensure that whenever possible, all items used are covered by the manufacturers' warranty.

All faulty items replaced under the manufacturers' warranty shall be at the Contractor's cost.

Any breakdown in the installation, fault, or mal-functioning of any component of the installation, due to poor workmanship or non-adherence to the regulation, shall be promptly rectified by the Contractor, at no cost to the owner, for a period not exceeding twelve (12) months.

BASIC PRICE LIST
SCHEDULE OF BASIC RATES

1. Plant

The contractor will state below the rate per hour to be charge for plant, when used on day work. These rates are to include for all fuel, consumable store, repairs and replacement, but are not to include payments for drivers and attendants. These will charge for at the rate laid down for labour in the schedule for basic rates for unskilled labour.

The rates are also to cover for repairs, maintenance and all other cost and charges in connection with the use of plant on day works.

No allowance will be made for standing time. This schedule shall be deemed to be incorporated.

	Description	Capacity	Rate
1.	Water Pump	2”	_____
2.	Compressor	-	_____
3.	Concrete Mixer	21/14	_____
4.	Power Saw	-	_____
5.	Welding Plant	-	_____
6.	Vibrator	-	_____
7.	Compactor	-	_____
8.	Front end Loader	2 Cu.Yd	_____
9.	Dragline	22 RB	_____
10.	Dragline	30 RB	_____
11.	Bulldozer	D 4	_____
12.	Bulldozer	D 6	_____
13.	Excavator	5/8 Cu.Yd	_____
14.	Grader	130 hp	_____
15.	Roller	5 ton	_____
16.	Truck	10 ton	_____

2. Materials

	Description	Unit	Cost
1.	Cement	Sack	_____
2.	¾" minus stone	Ton	_____
3.	White sand	CY	_____
4.	BRC # 65 mesh	Sy	_____
5.	Mild steel bars	Lbs	_____
6.	Sawn GH	BM	_____
7.	Dressed GH	BM	_____
8.	Hardwood	BM	_____
9.	3/8" ply wood	Sy	_____
10.	1/2" ply wood	Sy	_____
11.	5/8" ply wood	Sy	_____
12.	3/4 ply wood	Sy	_____
13.	Oil paint	Gallon	_____
14.	Anti-corrosive paint	Gallon	_____
15.	Form board	BM	_____

3 Workers

The contractor is required to include the daily rates of pay for the under mentioned categories of workers. He can include a category of workers if it is not listed below or ignore a category if it is not applicable for these workers.

Categories	**Rates**
Foreman	_____
Bricklayers	_____
Carpenters	_____
Driver Loader	_____
Driver Lorry	_____
Electrician	_____
Gutter smith	_____
Labourers	_____
Masons	_____
Mechanics	_____
Operators – Concrete mixers	_____
Operators – concrete mixers painting	_____
Painters	_____
Plumber	_____
Steel Benders	_____
Time Keepers	_____
Watch man	_____
Welders	_____

QUALIFICATION INFORMATION

1. **For individual bidders or individual members of a partnership**

1.1 Constitution and legal status of Bidder *(attach copy).*

License No. and its validity period to execute the Works:

_____ (attach copy)

Place of registration: _____

Principal kind of business: _____

Power of Attorney issued to signatory of the Bid: *(attach).*

1.2 Total volume of the Works executed for the last (2) two years in GYD:

_____

1.3 Experience as a prime Contractor during the last two years. The value is indicated in GYD.

No.	Project name and location	Name of Purchasers and their telephone numbers	Items of Works and Year of Completion	Value of Contract

1.4 The availability of the following items of equipment to the Contractor is of substantial importance for the Works. The Bidder must respond to all request listed below:

Item of equipment	Model and year of production	Number of available items	Condition (new, good, poor)	Owned, rented (from whom?) to be purchased (from whom?)

1.5 Qualifications and experience of employees proposed for the key administrative and line positions in order to execute the Contract.

Position	Full Name	Years of experience	Years of experience at similar position
Manager			
Foreman			
Quality Inspector			

1.6 Main subcontractors (when required)

Nature of Works	Value of Subcontract	Subcontractor (name, address, telephone number)	Years of experience in carrying out similar works

1.7 Presence of tax debts, of payments to Social Fund (reply and attach supporting documents).

1.8 Information on current litigation (and recent – within past 2 years) in which the Bidder involved.

Other party (ies)	Cause of dispute	Disputed amounts

1.9 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of support documents.

1.10 Equipment availability must be supported by proof of ownership and or letter of commitment to lease.

2 For a partnership (syndicate)

2.1 Information specified in 1.1—1.8 shall be provided for each partner of the partnership (syndicate).

2.2 Information given 1.9 shall be provided by the partnership (syndicate).

2.3 Attach the power of attorney of the signatory (ies) of the Bid authorizing him or them to sign the bid on behalf of the partnership (syndicate).

2.4 Attach the Agreement between the partners of the partnership (syndicate) (to be binding on all partners) which shows that:

(a) all partners shall be jointly or severally liable for execution of the Contract in accordance with the Contract conditions;

(b) one of the partners shall be nominated as being in charge authorized to incur liabilities, and receive instructions on behalf of any or all partners of the partnership (syndicate); and

(c) the execution of the entire Contract, including payment shall be done exclusively by the partner in charge.

I certify the authenticity of all the above information.

_____ _____ _____

(Full Name) *(Position)* *(Signature and Seal)*

Dated on «_____» day of _____201 _

Form
CONTRACTOR'S BID

Date:
IFB No:

TO:

_____

_____

(Name and address of Employer*)*

Having examined the bidding documents including Annexes and Addenda No _____ [specify numbers], the receipt of which is hereby acknowledged, we offer to execute _____[description of works] in accordance with the Contract conditions attached herein for the total amount of _____,_____GYD *[the Total Amount of Bid in Words and Figures].*

Alternative bids (at the Employer's request):
Also we offer to execute the works pursuant to alternative bids for the amount of _____ GYD,
(add or reduce to basic bid price)
and we declare that:

(a) We, including all subcontractors, regarding any part of the Contract, in accordance with these bidding documents, have no conflict of interests pursuant to sub-clause 3 (i) of the Instruction to Bidders;
(b) We, including all subcontractors, regarding any part of the Contract, in accordance with these bidding documents, have not been declared by the [National Procurement and Tender Administration] to be ineligible, or are not ineligible pursuant to laws of Guyana.

If our Bid is accepted, we shall furnish the Performance Security for the amount of _____ in order to execute the Contract properly and within the dates specified in the bidding documents.

If our bid is accepted we request advance payment in the amount of […] thousand GYD for proper performance of the contract. From our part, we undertake to furnish a bank guarantee for the advance payment in the above amount.

We hereby confirm that this bid shall be valid within _____ days of the date established from the bid opening date, and it shall remain binding on before the expiry of indicated period. Prior to preparation and execution of a formal Contract, this Bid together with your written confirmation of its acceptance shall be equivalent to conclusion of a Contract to be binding upon both parties.

We understand that you are not required to accept the lowest or any bid you receive.
Dated the _____day of _____ 201 __
Duly authorized to sign the Bid for and on behalf of _____(name of Contractor)

_____	_____	_____
(Full Name)	(Tile)	(Signature and Seal)

Form
CONTRACT

This Contract made the _____ day of _____ 201
(Date) *(Month)*

BETWEEN the Employer (name and address of organization)

_____

_____

and the Contractor (name and address of organization)

_____

_____

for the Construction of It Building at GPL;S Sophia Compound

_____

_____

In view of that the Employer wishes to have the Contractor execute_____
(Name of contract)

(hereinafter called the Works) and the Employer has accepted the Contractor' Bid for the execution and completion of the Works, and for correction of any defects therein.

THIS CONTRACT WITNESSES the following:

1. The words and expressions in this Contract have the same meanings as they do in the General Conditions of Contract.
2. Below listed documents shall form this Contract and shall be deemed the integral part of it, namely:
    1. Contract,
    2. Letter of Acceptance,
    3. Contractor's Bid,
    4. Special Conditions of Contract,
    5. General Conditions of Contract,
    6. Technical Specifications,
    7. Drawings,
    8. Priced Bill of Quantities, and priced Consumable Materials ; and,
    9. Other documents included in the Contract Documents:

_____

_____

(specify additional documents which the Purchaser is intended to included in the Contract Documents according to the General Conditions of Contract)

3. Taking into account the payments to be made by the Employer to the Contractor in accordance with the above-stated, the Contractor shall enter into the Contract with the Purchaser to execute and complete the Works, and to correct any defect therein in full accordance with conditions of the Contract.
4. The Purchaser shall pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

For and on behalf of the Procuring Entity:

Signed by _____

Witnesses:

1._____

2._____

For and on behalf of the Contractor:

Signed by_____

Witnesses:

1._____

2._____

Contract No:	Dated:
Purchaser*(name of organization):*	
Contractor*(name of organization):*	
Amount of Work order GYD:	
Agreed*(signature of the person agreed with Work order):*	
Date of agreement:	

W O R K O R D E R No.____

(to be made up by the Purchaser for any change against decrease or increase of items of works)

No	**Name of item and consumable materials**	**Unit**	**Quantity**	**Unit price in Bill of Quantities**	**Unit price offered**	**Value of change**	**Contractual value**	**Amount of increase (+) decrease (-)**
I	Use of unit prices							
II	Consumable materials							

Signature of Contractor _____

Signature of Engineer _____

Form
Bid Security
(Bank guarantee)

Whereas _____ *[name of Bidder]* (hereinafter called "the Bidder") is ready to submit his bid dated *[date of bid submission]* for the execution of *[description of works]* (hereinafter called "the Bid"),

KNOW ALL PEOPLE that WE _____ *[name of bank]* from _____ *[name of country]* having our registered office at the address_____ *[address of bank]*, (hereinafter called "the Bank"), are bound to _____ *[name of* Employer*]* (hereinafter called "the Employer") for the amount of _____ by which the payment shall be made in whole and on time to the indicated Purchaser; and the Bank is bound with these obligations on behalf of its name, its successors and authorized. This is to confirm that the license issued to the Bank shall provide for activity on issuance of the security, and the person (s) signing this security is entitled to act on behalf of the Bank, and if the approval of Board of Directors, or of General Stockholders Meeting is required, then it is already received, and there is no other approval required.

THE CONDITIONS of this obligation are as follows:

1. If the Bidder:
   (a) withdraws his Bid during the period of bid validity specified by the Bidder in the Form of Bid; or
   (b) rejects the adjustment of bid price pursuant to Clause 27.

2. If the Bidder, having received a notice of that his Bid is accepted by the Employer, during the validity period of that bid:
   (a) fails or rejects to sign the Contract, at the request; or
   (b) fails or rejects to furnish the Performance Security in accordance with the Instructions to Bidders;

We undertake to pay the Employer the above sum upon receipt of his first written request, without needing the Employer to show grounds or reasons of that request, provided that the sum requested by the Purchaser is due to him because of the occurrence of one or both conditions, specifying the condition (s) occurred.

This security shall remain valid during _____ days inclusive following the expiry of the Bid validity period, and any request in respect thereof should reach the Bank not later than the above date.

_____ _____ _____

(Full name of Bank's representative) *(Title)* *(Signature and seal)*

Dated on ___ day of_____201__
Address of the Bank issued the guarantee: _____

Form
Performance Security
(Bank guarantee)

TO: _____
[Name of Employer]

WHEREAS _____ *[name of Contractor]*
(hereinafter called "the Contractor") has undertaken in pursuance of the Contract N *[Contract number]* dated _____ 200 ___ to execute the Works *[description of works]* (hereinafter called "the Contract"),

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish You with a bank guarantee by a reputable bank for the sum specified therein as a security for compliance with the Contractor's obligations under the Contract;

AND WHEREAS we have agreed to furnish the Employer with a security,

THEREFORE WE hereby confirm that we are the Guarantors and are responsible to you on behalf of the Contractor up to a total of _____*[Amount of Security in words and figures]* and, we undertake to pay You on your first request notifying of the Contractor's default with the Contract, and without cavil or argument, any sum or sums within the above limits, and as aforesaid, without your needing to show grounds or reasons of your request or the sum specified therein.

Any modification or addition, or amendment in the terms of Contract which may be made by the Employer and the Contractor by Additional Agreement shall in no way release us from obligations under the Guarantee, and we waive any notice of modification, addition, or amendment. This guarantee shall be valid until full completion by the Contractor of the Contract Conditions. Also, we confirm that the license issued to the Bank shall provide for activity on issuance of a bank guarantee, and the person signing the guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors or of General Stockholders Meeting is required, then it is already received, and there is no other approval required.

This guarantee shall expire no later than twenty-eight days from the date of issuance of the Taking-Over Certificate, which shall be provided to us, or on the [*insert number* day of *[insert month], [insert year],* whichever occurs first. Consequently, any demand for payment under this guarantee must be received by us at this office before that date.

_____ _____ _____
(Full name of Bank's representative) *(Title)* *(Signature and seal)*

Dated on ____ day of_____201__
Address of the Bank issued the guarantee: _____

Bank Guarantee for Advance Payment

TO _____

[Name Employer]

[Name of Contract] _____

We, _____*[name of Bank]* in accordance with the conditions of Contract which provide for advance payment (*name and address of the Contractor*), and whereas the Contractor has undertaken to provide you a Bank guarantee for advance payment to the Employer.

THEREFORE WE hereby affirm that we are the Guarantors, and are responsible to you on behalf of the Contractor to a total sum _____ GYD (*amount of guarantee in figures and words*), and we undertake to pay you on you first request and without objection on our part, and without the preliminary address to the Contractor, any sum or sums within the above limits.

We also agree that no alteration or addition in the terms of Contract which is subject to implementation, or any other contract documents which may be made by the Purchaser and the Contractor shall release us from obligations under the guarantee, and we hereby waive any notice of such alteration, or addition. We confirm that the license issued to the Bank shall provide for activity on issuance of a bank guarantee, and the person signing the guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors or of General Stockholders Meeting is required, then it is already received, and there is no other approval required.

This guarantee shall be valid and remain in force from the date of advance payment received by the Contractor under the Contract, and until the date when the Employer receives a full compensation of the relevant amount of Advance Payment.

The Advance Payment referred to above must be received by the Contractor in its account number _____*[insert account number]* at _____*[insert name and address of Bank]*.

The maximum amount of this guarantee shall be progressively reduced by the amount of the Advance Payment repaid by the Contractor as indicated in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the Interim Payment Certificate indicating that eighty (80) percent of the Contract Price has been certified for payment, or on the_____*[insert date],* whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

_____ _____ _____

(Full name of Bank's representative) *(Title)* *(Signature and seal)*

Dated on ____ day of_____201__

Address of the Bank issued the guarantee: _____

Form

Letter of Acceptance

(letterhead paper of Employer)

_____ *(date)*

To: _____

(Name of Contractor)

_____

(Address of Contractor)

This is to notify you that your bid dated the _____ day of _____201__, for the execution of _____ (description of works) to the total sum of

_____

(Amount in Figures and Words) as amended and modified in accordance with the Instructions to Bidders is hereby accepted by our organization.

At the same time, we are sending you the Form of Contract and requesting you, in accordance with Clause 32.2 of the Instruction to Bidders, during 7 (seven) days to sign and date the Form of

Contract, and return it at our address. Along with the signed Contract, we request you to furnish us, pursuant to ITB Clause 33, with the Performance Security.

You hereby instructed to start the Works pursuant to the Contract conditions.

Name of organization _____

Full name and Title _____

Signature of Authorized Representative _____

Annex: the Contract

Form
Power of attorney
TO: *[name of Employer]*

WHEREAS _____ [*name of Contractor]*, who is the Contractor for the execution of Works [description of works]. do hereby authorize _____ *[name and address of Contractor's Representative]* to submit the Bid, and subsequently negotiate with you, and sign the Contract based on the Invitation for Bids which we hereby extend our full guarantees for the execution of Works based the Invitation for Bids.

_____
[Full name, title, signature for and on behalf of Contractor]

Dated on _____ day of _____201____ . ……..
(Date) *(Seal)*

_____

Note: The power of attorney must be drafted on a letterhead paper of the Contractor, and signed by a competent person authorized by the Contractor. The Bidder shall include the power of attorney in its Bid.

EVALUATION CRITERIA		
NONFINANCIAL ASSESSMENT	**Administrative Compliance**	**RESPONSIVE (Yes/No)**
1	Submission of Valid Company Registration	Yes
	Submission of Valid Certificate of Compliance - GRA	Yes
	Submission of Valid Certificate of Compliances - NIS	Yes
	Completion of Form of Tender (signed)	Yes
	Detailed Work Programme	Yes
	Audited Financial Statement	Yes
	Method Statement	Yes
	Record of Past Experience or Similar Works	Yes
	List of Equipment Proposed for the Project	Yes
	List Qualification & Experience of Key Personnel	Yes
	List of matters of Litigation	Yes
	Completion of Schedule of Basic Price List	Yes
	Completed Priced Bill of Quantities	Yes
	MAIN EQUIPMENT	**Total Points 30**
2	Excavator	4
	Concrete Mixer (2No.)	6
	Vibrator	4
	Compressor	4
	Power Saw (4No.)	4
	Welding Plant	4
	Dump Truck	4
	EQUIPMENT	**Total Points 10**
3	Own	10
	Rent	4
	KEY PERSONNEL	**Total Points 20**
4	Engineer – Experience > 10 yrs	13
	Engineer – Experience > 3 yrs	7
	Foreman – Experience > 10 yrs	7
	Foreman – Experience >3 yrs	3

	PERFORMANCE RECORD	**Total Points 30**
5	For 10 or more projects of similar nature	30
	For 5 or more projects of similar nature	20
	For 3 or more projects of similar nature	5
	OUTSTANDING PROJECTS BEING UNDERTAKEN	10
6	0 Project	10
	1-2 Projects	7
	3-4 Projects	5
	TOTAL MAXIMUM POINTS	100

FINANCIAL ASSESSMENT

(a) *Tender Corrections: All responsive bidders are checked for arithmetical and other errors in accordance with ITB Clause 28.1 to show corrected and original sum.*

(b) *A Bidder must have at least 70 % as a minimum requirement and at least 50% of the points in each category of the Non- Financial Assessment (Items 2-7) before being considered for Financial Assessment.*

(c) The Contract would be awarded to the Bidder whose bid is determined to be substantially Responsive to the Bid Document and who has offered the lowest evaluated Bid Price