

PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

Project Identification Number	: IB_CivilWorks_2022-05-030
Name of Project	: CONSTRUCTION OF LIVESTOCK R & D- NATIVE ANIMALS NUCLEUS HERD CENTER (NATIVE PIG, POULTRY LAYER AND BROILER)- 2 ND BIDDING
Location of Project	: KSU-RIZAL CAMPUS, SITIO BAGBAG, BARANGAY BULBUL, RIZAL, KALINGA, PHILIPPINES
Name of Procuring Entity	: KALINGA STATE UNIVERSITY (KSU)



Kalinga State University envisions to be "a Knowledge and Technology Hub in Asia-Pacific Region"

Sixth Edition
July 2020



TABLE OF CONTENTS

Glossary of Terms, Abbreviations, and Acronyms	3
Section I. Invitation to Bid	5
Section II. Instructions to Bidders	8
1. Scope of Bid.....	9
2. Funding Information	9
3. Bidding Requirements	9
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices	9
5. Eligible Bidders.....	9
6. Origin of Associated Goods.....	10
7. Subcontracts	10
8. Pre-Bid Conference.....	10
9. Clarification and Amendment of Bidding Documents	10
10. Documents Comprising the Bid: Eligibility and Technical Components	10
11. Documents Comprising the Bid: Financial Component	11
12. Alternative Bids	11
13. Bid Prices	11
14. Bid and Payment Currencies	11
15. Bid Security.....	11
16. Sealing and Marking of Bids.....	12
17. Deadline for Submission of Bids	12
18. Opening and Preliminary Examination of Bids	12
19. Detailed Evaluation and Comparison of Bids.....	12
20. Post Qualification.....	12
21. Signing of the Contract.....	13
Section III. Bid Data Sheet	14
Section IV. General Conditions of Contract	18
1. Scope of Contract	19
2. Sectional Completion of Works.....	19
3. Possession of Site	19
4. The Contractor's Obligations	19
5. Performance Security.....	19
6. Site Investigation Reports	19
7. Warranty.....	19
8. Liability of the Contractor	20
9. Termination for Other Causes	20
10. Dayworks.....	20
11. Program of Work	20
12. Instructions, Inspections and Audits	20
13. Advance Payment.....	20
14. Progress Payments.....	20
15. Operating and Maintenance Manuals	20
Section V. Special Conditions of Contract	21
Section VI. Specifications.....	23
Section VII. Drawings	71
Section VIII. Bill of Quantities	72
Section IX. Checklist of Technical and Financial Documents	78



Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, Project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.



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Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated July 17 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.



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Section I. Invitation to Bid



Invitation to Bid for Construction of Livestock R & D- Native Animals Nucleus Herd Center (Native Pig, Poultry Layer and Broiler)-2nd Bidding

1. The **Kalinga State University**, through the **Regular Agency Fund (RAF) Fund for CY 2022**, intends to apply the sum of **Thirty-Two Million, Fifty Thousand, Two Hundred Ninety-Two Philippine Pesos and Seventy-Four Centavos (Php 32,050,292.74)** being the Approved Budget for the Contract (ABC) to payments under the Package Contract for **Construction of Livestock R & D- Native Animals Nucleus Herd Center (Native Pig, Poultry Layer and Broiler)-2nd Bidding/IB_CivilWorks_2022-05-030**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **Kalinga State University** now invites bids for the above Procurement Project. Completion of the Works is required within **Four Hundred Fifty-Five (455)** calendar days upon receipt of the Notice to Proceed. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using the non-discretionary "*pass/fail*" criterion as specified in 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from **Kalinga State University** and inspect the Bidding Documents at the address given below from **9 am to 4 pm office hours**.
5. A complete set of Bidding Documents may be acquired by interested bidders on **May 11, 2022 (Wednesday) until 10 am of May 31, 2022 (Tuesday)** from the given address and website/s below, *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty-Five Thousand Philippine Pesos (Php25,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees either in person or through electronic means.
6. The **Kalinga State University** will hold a **Pre-Bid Conference** on **May 19, 2022 (Thursday), 10 am** at the **BAC Conference Room, Procurement Management Office, Administration Building, KSU-Main Campus, National Highway, Purok 6, Bulanao, Tabuk City, Kalinga** and/or through video conferencing or webcasting via **Google Meet Platform** at the link: meet.google.com/peb-oafp-eop, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through **manual submission** at the office address indicated below, on or before **10 am on May 31, 2022 (Tuesday)**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 15.
9. Bid opening shall be at **10:01 am on May 31, 2022 (Tuesday)** at the given address below and/or via **Google Meet Platform** at the link: meet.google.com/unw-cmdu-obk.



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Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. Bidders should comply with the applicable provisions of Section **23.4.2** of the IRR of R.A. 9184 and with a modified set of requirements integrating eligibility documents and criteria for infrastructure projects as provided in Annex E of the 2016 IRR of R.A. 9184, or the **Contract Implementation Guidelines for the Procurement of Infrastructure Projects**.
11. The **Kalinga State University** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Ronaldo B. Daluping
BAC Secretariat- Bulanao Campus
Procurement Management Office
Kalinga State University-Main Campus, Administration Building
National Highway, Purok 6, Bulanao, Tabuk City, Kalinga 3800
procurementservice_bac@ksu.edu.ph
(074) 627-5321
<https://ksu.edu.ph/>

13. You may visit the following websites:

For downloading of Bidding Documents: <https://ksu.edu.ph/bid/construction-livestock-r-d-native-animals-nucleus-herd-center-native-pig-poultry-layer-and-0>

May 11, 2022

ROMUALDO U. WACAS, PhD
BAC Chairperson



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Section II. Instructions to Bidders



1. Scope of Bid

The Procuring Entity, **Kalinga State University**, invites Bids for the **Construction of Livestock R & D- Native Animals Nucleus Herd Center (Native Pig, Poultry Layer and Broiler)-2nd Bidding**, with Project Identification Number **IB_CivilWorks_2022-05-030**.

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **FY 2022** in the amount of **Php32,050,292.74**.

2.2. The source of funding is: **Regular Agency Fund**.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules, and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the Contract, Project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the Contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.



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Bids and Awards Committee



A contract is considered to be “similar” to the Contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address at **BAC Conference Room, Procurement Management Office, Administration Building, KSU-Main Campus, National Highway, Purok 6, Bulanao, Tabuk City, Kalinga**, and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the IB.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated May 23 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the Contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.



- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the Contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the Project, as the case may be, must meet the minimum requirements for the Contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. *Payment of the contract price shall be made in:*

Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until **One Hundred Twenty (120) calendar days**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.



16. Sealing and Marking of Bids

Each Bidder shall submit **three copies of the first and second components** of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each Contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.



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21. **Signing of the Contract**

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.



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Section III. Bid Data Sheet

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Bid Data Sheet

ITB Clause																																																																																																	
5.2	<p>For this purpose, contracts similar to the Project refer to contracts that have the same major categories of work, which shall be:</p> <p>Construction of Two-storey building facility with at least more than 50% similarities with the major work component of the project, with a contract cost of not less than Php 16,025,146.37.</p>																																																																																																
7.1	<i>Subcontracting is not allowed.</i>																																																																																																
10.3	<p>PCAB License requirement shall be:</p> <p style="padding-left: 40px;">Size Range: Medium A License Category: B Principal Classification: General Building/ General Engineering</p>																																																																																																
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">No. of Personnel</th> <th style="text-align: center;">General Experience</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr><td>Project Manager</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Full-time Project/Site Engineer (Registered Civil/Architect)</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Project Engineer (Registered Electrical Engineer)</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Structural Engineer</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Quality Assurance/Control Personnel/ Materials Engineer</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Construction Foreman</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Lead Foreman</td><td style="text-align: center;">4</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Deepwell Foreman</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td colspan="4">Skilled Laborers</td></tr> <tr><td>Registered Master Electrician</td><td style="text-align: center;">2</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Master Plumber</td><td style="text-align: center;">2</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Welders</td><td style="text-align: center;">4</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Electricians</td><td style="text-align: center;">2</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Backhoe Operator</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Grader Operator</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Steelman</td><td style="text-align: center;">5</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Mason</td><td style="text-align: center;">10</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Lineman</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Carpenters</td><td style="text-align: center;">10</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Geodetic Engineer</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Safety Officer</td><td style="text-align: center;">1</td><td style="text-align: center;">3 years</td><td style="text-align: center;">3 years</td></tr> <tr><td>Sanitary Engineer</td><td style="text-align: center;">1</td><td style="text-align: center;">1 year</td><td style="text-align: center;">1 year</td></tr> <tr><td>First Aider</td><td style="text-align: center;">1</td><td style="text-align: center;">1 year</td><td style="text-align: center;">1 year</td></tr> </tbody> </table> <p>Note:</p> <ol style="list-style-type: none"> 1) All the Key Personnel should have applicable and prescribed General and Relevant Experiences in their line of specializations and have valid PRC licenses/certificates. 2) The key personnel should meet the above-stated number of years' work experience. The experience means total years of civil works experience (of any nature in construction and engineering consultancy services) except for Materials & Quality Control Engineer "Same position in Similar Works" covers overall work experience for the designated. 3) That key personnel can be pulled out/substituted from an ongoing project, which states, among others: Suppose the proposed Key Technical personnel is an employee of the bidder and working on another project at the same time of the bidding. In that case, the bidder shall submit a certification that (1) the personnel will be pulled out from the ongoing project once the bidder is awarded the contract, and (2) he/she will be replaced with another person with equal or better qualifications, as certified by the Head of the Implementing Office. The bidder may propose a Key Technical Personnel who is not its employee provided that the said personnel is required to submit a certification that he/she will work for the bidder if it is awarded the Contract underbidding. These Certifications shall be included in the first/technical envelope of the sealed bid. 	Key Personnel	No. of Personnel	General Experience	Relevant Experience	Project Manager	1	3 years	3 years	Full-time Project/Site Engineer (Registered Civil/Architect)	1	3 years	3 years	Project Engineer (Registered Electrical Engineer)	1	3 years	3 years	Structural Engineer	1	3 years	3 years	Quality Assurance/Control Personnel/ Materials Engineer	1	3 years	3 years	Construction Foreman	1	3 years	3 years	Lead Foreman	4	3 years	3 years	Deepwell Foreman	1	3 years	3 years	Skilled Laborers				Registered Master Electrician	2	3 years	3 years	Master Plumber	2	3 years	3 years	Welders	4	3 years	3 years	Electricians	2	3 years	3 years	Backhoe Operator	1	3 years	3 years	Grader Operator	1	3 years	3 years	Steelman	5	3 years	3 years	Mason	10	3 years	3 years	Lineman	1	3 years	3 years	Carpenters	10	3 years	3 years	Geodetic Engineer	1	3 years	3 years	Safety Officer	1	3 years	3 years	Sanitary Engineer	1	1 year	1 year	First Aider	1	1 year	1 year
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Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



	<p>4) The Project Engineer shall be full-time on the project site and sign in the Construction Logbook every workday.</p>																																																																																				
<p>10.5</p>	<p>The minimum major equipment requirements are the following:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Equipment</th> <th style="text-align: left;">Capacity</th> <th style="text-align: left;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Minor Tools</td> <td></td> <td>As needed</td> </tr> <tr> <td colspan="3">Power Tools:</td> </tr> <tr> <td>Plate Compactor</td> <td>5hp</td> <td>1</td> </tr> <tr> <td>Chemical spray equipment</td> <td></td> <td>1</td> </tr> <tr> <td>Portable Concrete Vibrator</td> <td></td> <td>4</td> </tr> <tr> <td>Chainsaw</td> <td></td> <td>1</td> </tr> <tr> <td>Welding Machine</td> <td></td> <td>3</td> </tr> <tr> <td>Oxy-Acetylene Cutter</td> <td></td> <td>1</td> </tr> <tr> <td>Set of Plumbing Tools</td> <td></td> <td>1</td> </tr> <tr> <td>Set of Electrical Tools</td> <td></td> <td>1</td> </tr> <tr> <td>Chains and Ropes (Chain Block)</td> <td></td> <td>1</td> </tr> <tr> <td>Bar Bender</td> <td></td> <td>1</td> </tr> <tr> <td>Bar Cutter</td> <td></td> <td>1</td> </tr> <tr> <td>Disc Grinder/Cutter</td> <td></td> <td>1</td> </tr> <tr> <td colspan="3">Heavy Machineries:</td> </tr> <tr> <td>One-bagger Concrete Mixer</td> <td></td> <td>4</td> </tr> <tr> <td>Transit Mixer</td> <td></td> <td>1</td> </tr> <tr> <td>Portalift</td> <td></td> <td>2</td> </tr> <tr> <td>Dump Truck</td> <td></td> <td>1</td> </tr> <tr> <td>Water Truck</td> <td></td> <td>1</td> </tr> <tr> <td>Cargo Truck 13,000 kg capacity (6 to 10 Wheeler)</td> <td></td> <td>1</td> </tr> <tr> <td>Backhoe (0.8 cu. m)</td> <td></td> <td>1</td> </tr> <tr> <td>Well Drilling Equipment and Accessories</td> <td></td> <td>1</td> </tr> <tr> <td colspan="3">Others:</td> </tr> <tr> <td>H-Frame/GI Pipe Scaffolds</td> <td></td> <td>300</td> </tr> <tr> <td>Survey Instrument (Total Station), rental basis</td> <td></td> <td>1</td> </tr> <tr> <td>Personal Protective Equipment</td> <td></td> <td>As Applicable</td> </tr> </tbody> </table> <p>In their bids, the bidder shall state a complete technical description of their pledged equipment, whether owned or leased, such as but not limited to the engine number, year model, chassis number, plate number, and capacity, including the particular place or site where the equipment is located.</p> <p>Attached is the sample form (List of Equipment Pledge to the Contract) in Bidding Forms, to be filled up by the bidders during the preparation of bids.</p> <p>The proof of ownership of equipment should be attached to the notarized affidavit of ownership. In the case of Leased Equipment, a Lease Contract and Affidavit of Commitment should be submitted with the lessor/owner as the pledger of the equipment, stating therein that the equipment will be available for the whole duration of the Project.</p> <p>All documents supporting the ownership of equipment pledged (CR-Certificate of Registration and OR-Official Receipt, if applicable) and other documents photocopied from the original shall be legibly readable and will be authenticated as needed during the post-qualification process.</p>	Equipment	Capacity	Number of Units	Minor Tools		As needed	Power Tools:			Plate Compactor	5hp	1	Chemical spray equipment		1	Portable Concrete Vibrator		4	Chainsaw		1	Welding Machine		3	Oxy-Acetylene Cutter		1	Set of Plumbing Tools		1	Set of Electrical Tools		1	Chains and Ropes (Chain Block)		1	Bar Bender		1	Bar Cutter		1	Disc Grinder/Cutter		1	Heavy Machineries:			One-bagger Concrete Mixer		4	Transit Mixer		1	Portalift		2	Dump Truck		1	Water Truck		1	Cargo Truck 13,000 kg capacity (6 to 10 Wheeler)		1	Backhoe (0.8 cu. m)		1	Well Drilling Equipment and Accessories		1	Others:			H-Frame/GI Pipe Scaffolds		300	Survey Instrument (Total Station), rental basis		1	Personal Protective Equipment		As Applicable
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<p>12</p>	<p><i>Alternative Bid is not allowed.</i></p>																																																																																				
<p>15.1</p>	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than Php 155,200.00, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than Php 388,000.00, if bid security is in Surety Bond.</p>																																																																																				
<p>16</p>	<p>Procuring Entity may request additional hard copies and/or electronic copies of the Bid; hence, each Bidder shall submit one (1) original and two (2) copies of the first and second components of its bid with the following conditions:</p> <ol style="list-style-type: none"> 1. Any missing, incomplete, or patently insufficient document in the checklist is a ground for outright rejection (non-complying) of the bid. 2. For hassle-free and more uncomplicated bid evaluation, the Technical and Financial Envelopes are preferably soft bounded and with Ear-Tabbing for each Checklist. Ring bounded and "clipped with fastener" are discouraged. 																																																																																				



	3. Each and every page of the Documents comprising the Financial Proposal shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the bid.
19.2	Partial bids are not allowed.
20	<p><i>The following are to be secured by the winning Contractor:</i></p> <ol style="list-style-type: none"> a. <i>Building Permits</i> b. <i>BFP Permit</i> c. <i>Professional assignatories</i> d. <i>Occupancy Permit</i> e. <i>KAELCO permit</i> f. <i>As Built Plans duly signed and sealed (Plan Signatories)</i>
21	<p><i>Contract documents relevant to the Project:</i></p> <p>The following relevant documents are to be submitted by participating bidder/s during the bid submission:</p> <ol style="list-style-type: none"> 1. Duly signed Construction Schedule and S-curve 2. Duly signed Construction Project Evaluation and Review Technique (PERT) and Critical Path Method (CPM) 3. Duly signed Construction Methods in narrative form 4. Duly signed Construction Manpower Utilization Schedule 5. Duly signed Construction Equipment Utilization Schedule 6. Duly signed Construction Cash Flow Chart and Payment Schedule. 7. In case of JV, Special PCAB License. <p>The following relevant documents are to be submitted by the lowest calculated and responsive bidder after issuance of a notice of award:</p> <ol style="list-style-type: none"> 1. Performance Security. The Winning Bidder shall be responsible for the extension of its performance security during the remaining period or duration of the Project reckoned from the date of the effectivity of the Contract, or for any contract time extension granted by the Procuring Entity, which shall be valid until final acceptance of the Project. <p>In place of the Performance Security, a post qualified bidder may submit an unnotarized Performance Securing Declaration (PSD), see the Bidding Forms, to guarantee its faithful performance of obligations under the Contract, subject to the following:</p> <ol style="list-style-type: none"> a) Such declaration shall state, among others, that the winning bidder shall be blacklisted from being qualified to participate in any government procurement activity for one (1) year, in case of first offense or two (2) years, if with a prior similar offense, in the event it violates any of the conditions stated in the Contract. b) The unnotarized PSD may be accepted, subject to the submission of a notarized PSD before payment unless the same is replaced with performance security in the prescribed form. c) The end-user may require the winning bidder to replace the submitted PSD with performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 upon lifting of the State of Calamity, or community quarantine or similar restrictions, as the case may be. 2. Duly signed Construction Safety and Health Program approved by the Department of Labor and Employment. 3. Contractor's All Risk Insurance Policy.



Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800
Bids and Awards Committee



1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800
Bids and Awards Committee



- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.
- 8. Liability of the Contractor**
- Subject to additional provisions, if any, set forth in the **SCC**, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.
- If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.
- 9. Termination for Other Causes**
- Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the Contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.
- 10. Dayworks**
- Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.
- 11. Program of Work**
- 11.1.** The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2.** The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.
- 12. Instructions, Inspections and Audits**
- The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.
- 13. Advance Payment**
- The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.
- 14. Progress Payments**
- The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.
- 15. Operating and Maintenance Manuals**
- 15.1.** If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC**.
- 15.2.** If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800
Bids and Awards Committee



Section V. Special Conditions of Contract

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Special Conditions of Contract

GCC Clause	
2	No further instructions.
4.1	The Kalinga State University shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: <p style="text-align: center;">If there is no available Site Investigation Report prepared by the procuring entity, then the Bidder shall conduct a site visit before the preparation of his bid as embodied in Section 8(b) of the revised Omnibus Sworn Statement. The Affidavit of Site Inspection will be executed by the bidder.</p>
7.2	<i>In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.</i>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within ten (10) days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <i>[insert amount]</i> .
13	The amount of the advance payment is equivalent to fifteen percent (15%) of the Total Contract Price to be paid in a lump by KSU.
14	<i>[If allowed by the Procuring Entity, state:]</i> Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which operating and maintenance manuals are required is <i>[date]</i> . The date by which "as built" drawings are required is <i>[date]</i> .
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <i>[amount in local currency]</i> .



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800
Bids and Awards Committee



Section VI. Specifications

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TERMS OF REFERENCE

BACKGROUND:

The Kalinga State University is to engage a qualified company's construction services to construct the Livestock R&D- Native Animals Nucleus Herd Center (Native Pig, Poultry [Layer & Broiler])

I. CONTRACT DESCRIPTION

Name of Project	: Construction of Livestock R&D- Native Animals Nucleus Herd Center (Native Pig, Poultry Layer and Broiler)-2nd Bidding
Location of Project	: Kalinga State University-Rizal Campus Sitio Bagbag, Barangay Bulbul, Rizal, Kalinga
Floor Area	: 1 Lot (Coverage of the scope of works)
End-Users	: MS. SHARMAINE D. CODIAM- Science Research Specialist 1 Rizal Campus Administrator

II. OBJECTIVE OF THE TERMS OF REFERENCE (TOR)

- 2.1 To provide a piece of background information regarding the preparation and submission of bid proposal to the Kalinga State University;
- 2.2 To provide a piece of background information regarding the proposed Project which should be handled at the lowest possible cost, acceptable quality and performance, and in the shortest possible time the bidder has to offer;
- 2.3 To outline and summarize the "Scope of Work" of the Contractor that has to be performed under the terms of its Contract with the Kalinga State University
- 2.4 To provide penalties in case of breach of the Contractor's obligations

III. ROLE OF THE CONTRACTOR

- 3.1 For which this TOR applies, the Contractor shall furnish necessary equipment, labor, tools, facilities, and instruments for the construction of the Architectural, Structural, Electrical and Sanitary (if applicable) related to the Project sufficient enough to perform construction services that is covered in the Contract.

In this regard, the Contractor or the key personnel to be assigned must have professional experience compatible with the undertaking as stipulated in Item Clause 12.1(b)(ii.2) of the Bid Data Sheet.

- 3.2 The Contractor at all times should refer to the KSU Infrastructure Unit regarding corrections, plans and specifications, Variation orders, and Quality control requirements of the Project;
- 3.3 The Contractor shall assign to its designated project engineer to prepare daily construction logbook and pouring permits, which have to be approved by the KSU Infrastructure unit before pouring.
- 3.4 The Contractor shall also implement the construction activities to complete the Project following the approved construction drawings and specifications and the scope of work as specified in the Contract;
- 3.5 Construction Phase should be completed within **Four Hundred Fifty-Five (455) calendar days from the receipt of Notice to Proceed.**

IV. GENERAL CONDITIONS

- 4.1 The Contractor shall supply labor, materials, and equipment necessary for the **Construction of Livestock R&D-Native Animals Nucleus Herd Center (Native Pig, Poultry [Layer & Broiler])**.



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800
Bids and Awards Committee



The activities of the Contractor for the construction would include but will not be limited to the following:

- 4.1.1 Designate one (1) Project Engineer who shall work full time during the Contract's construction period/duration. He shall be in charge of the construction work and is expected to perform the following:
- Document, schedule, oversee and monitor the day-to-day construction works.
 - Coordinate, address, and resolve all concern/s of nearby buildings and structures relative to the construction and related services required by LGU and other regulating agencies.
 - Keep close coordination with the KSU Infrastructure Unit during project implementation and submit a progress report as required.**

V. PROJECT IMPLEMENTATION/CONSTRUCTION

5.1 The Contractor shall carry out and complete all items of work following the approved plans and specifications.

5.1.1 ENGINEERING SUPPORT SERVICES

The Contractor shall prepare the revised major modifications/changes in the design after the proponent's approval during the construction implementation if any.

5.1.2. PROGRESS REPORTS

The Contractor shall prepare weekly and monthly accomplishment reports supported with progress photographs and S-Curves to monitor actual progress to be used as a basis for progress billing to be submitted to the KSU Infrastructure Unit.

5.1.3 TURN-OVER OF THE COMPLETED PROJECT

The Contractor shall adequately address and comply with the final punchlist issued by the KSU Infrastructure unit before the Turn-over and Acceptance of the completed Project.

5.1.4 WATER AND ELECTRICITY

The Contractor shall install an electric meter and water meter in their construction sites and pay the actual amount of water and electricity bills based on their usage at the prevailing rate. During concrete pouring, the contractor shall bring his water.

VI. PROVISIONS FOR STORAGE & MATERIAL HANDLING

6.1 The Contractor shall store his materials, equipment, and tools in one place of the construction site during construction. The area shall be coordinated with the KSU Infrastructure Unit. It shall be kept neat and clean at all times. Any damage to that or the surrounding area arising from any accident, paint spills, etc. shall be repaired and/or restored to its original condition. Likewise, extra care shall be taken in the storage of hazardous chemicals (paints, thinners, lacquers, oils, solvents, etc.) to avoid accidents, explosions and/or fires. Oily rags, solvent-soaked foams, paintbrushes, and rollers shall be kept in metal containers tightly sealed and shall be cleaned and/or removed from the job site at the end of every working day.

6.2 Provisions for securing and safekeeping of stored materials, tools, and equipment during the construction project shall be for the Contractor's account.

VII. CLEARING OF SITE

The Contractor shall clean the whole area by removing debris, discards, paint spots, excesses, and spillage and shall leave the entire premises free from rubbish caused by their work to the satisfaction of the KSU at no extra cost.



VIII. WARRANTIES OF THE BUILDER

- 8.1 The Contractor warrants that it shall conform strictly to the terms and conditions of these Terms of Reference.
- 8.2 The Contractor warrants represent and undertake the service's reliability and that their workforce complements are hardworking, qualified/reliable, and dedicated to doing the service required to the satisfaction of the KSU. It shall employ well-behaved and honest employees.
- 8.3 The Contractor shall comply with the laws governing employees' compensation, Philhealth, Social Security and/or labor standards, and other laws, rules, and regulations applicable to its personnel employed by the Contractor on account of contracted services. The Builder shall pay its personnel not less than the minimum wage and other benefits mandated by law.
- 8.4 The Contractor in its services' performance shall secure, maintain at its own expense all registration, licenses, or permits required by National or Local Laws and comply with the rules, regulations, and directives of Regulatory Authorities and Commissions. The Contractor undertakes to pay all fees or charges payable to any instrumentality of government or any other duly constituted authority relating to the construction project.
- 8.5 The Contractor's personnel shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices.
- 8.6 The Contractor shall coordinate with the KSU Infrastructure unit in the performance of their jobs.
- 8.7 The Contractor shall be liable for any loss, damage, or injury due directly through its personnel's fault or negligence. It shall assume responsibility thereof, and the Contractor shall be individually liable from any liability arising from that place.

IX. TERMS OF PAYMENT

- 9.1 The Contractor, upon request, may be granted an advance payment in an amount equivalent to fifteen percent (15%) of the total contract price, net of VAT and applicable withholding taxes, upon the submission of the performance bond in the form of cash or irrevocable Standby Letter of Credit issued by a reputable commercial bank or Surety Bond issued by a bonding company duly certified by the Insurance Commission to be of good standing.
- 9.2 The Contractor shall repay advance Payment through deduction by BIR RR7 of fifteen percent (15%) from the Contractor's periodic progress billing.
- 9.3 The Contractor shall collect payment on progress billings based on the percentage of work accomplished, within a reasonable time from submission of all the required documents, subject to the required Expanded Withholding Tax (EWT) of two percent (2%) and Final Withholding VAT of five percent (5%), reduction based on Section 10.2, if any, and ten percent (10%) retention fund.
- 9.4 The retention fund shall be released only upon issuing Certification of Final Acceptance issued by the Head of the Procuring Entity and submission by Contractor of Post-Construction Documentation.
- 9.5 Progress Billing shall be based on the following:

PROGRESS BILLING	PERCENT OF WORK COMPLETED	PERCENTAGE TERMS OF PAYMENT
First Billing	Thirty (30%) of the work accomplished	Thirty percent (30%) of the Contract Price less advance payment (Sec. 13.2), applicable withholding taxes, and retention fund of ten percent (10%) of the contract price (Sec. 13.3)
Second up to the next progress billing and Final billing	Above or equal to (15%) of work accomplished.	Above or equal to (15%) of the Contract Price less advance payment (Sec. 10.2), applicable withholding taxes, and retention fund of ten percent (10%) of the contract price (Sec. 10.4)



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800
Bids and Awards Committee



The percentage of completion of work shall be subject to review and evaluation by the KSU Infrastructure Unit.

- 9.6 Payments shall be made within a reasonable time from the submission of the required documents based on existing applicable laws.

X. PRE-TERMINATION OF CONTRACT

- 10.1 The Contract of the **Construction of Livestock R&D-Native Animals Nucleus Herd Center (Native Pig, Poultry [Layer & Broiler])** may be pre-terminated by the **Kalinga State University** upon notice of any violation of the Contract's terms. In the case of pre-termination, the Contractor shall be informed by the **KSU** within thirty (30) calendar days before such termination.
- 10.2 In the pre-termination case, the Contractor shall be liable to additional liquidated damages equivalent to five percent (5%) of the contract price provided by the Government Accounting and Auditing Manual (GAAM) and forfeiture of the Performance Security.
- 10.3 The **KALINGA STATE UNIVERSITY (KSU)** shall have the right to blacklist the Contractor in case of pre-termination.

XI. SCOPE AND COVERAGE OF THE PROJECT WITH SPECIFICATION

(See Scope of Works in the next pages)

Prepared by:

KSU INFRASTRUCTURE UNIT

Noted by:

MS. SHARMAINE D. CODIAM
Science Research Specialist/ End-user

Recommending Approval:

ARCH. JENIE L. ABAD
Head, Infrastructure Planning Unit

Approved by:

EDUARDO T. BAGTANG, CPA, DBM
SUC President III



SCOPE OF WORKS WITH SPECIFICATIONS

ITEM NO.	ITEMS OF WORKS	QTY	UNIT	SCOPE OF WORK
A. MEAT PROCESSING, POULTRY DRESSING PLANT & SLAUGHTER HOUSE				
B.3	PERMITS AND CLEARANCES	1.00	set	-covers the processing for all necessary building permits and clearances -Permits and Clearances covers the processing of the following: Building Permit Occupancy Permit BFP Permit Professional Fees of assignatories KAELCO Processing Fee Zoning Clearance Printing of Plans ECC and CNC -refer to INFRA for all necessary attachments/ documents Note: Signed and Sealed assignatories, processing fees and printing fees (5 sets) also included
B.5	PROJECT BILLBOARD/SIGNBOARD	1.00	set	-covers the fabrication of project billboard -specs are as follows Marine Plywood 1/4" thk. good lumber (well-seasoned) tarpauline(4' x 8'), KSU tarpauline tarpauline(8' x 8'), COA Tarpauline CWN(assorted) Note: Refer to INFRA personnel for the design and format
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	LS	-covers the provision of safety officer on-site and PPEs for the workers -specs are as follows Safety Officer safety gloves safety helmet safety shoes Note: Strict implementation of PPE's
800 (1)	CLEARING GRUBBING AND LAYOUT	792.00	SQ.M	-covers the clearing of the project site before and after the project removal of construction debris, trees and others; cleaning of project site -specs are as follows: Chainsaw Minor Tools (10% of Labor) -refer to plans for details Note: Refer to INFRA personnel before starting
803(1)a	STRUCTURAL EXCAVATION (COMMON SOIL)	330.23	cu.m	-covers all necessary excavation as specified in the plans -specs are as follows Backhoe (0.8 cu.m) Dump Truck Note: Refer to the plan for details
804(1)a	EMBANKMENT FROM STRUCTURE EXCAVATION	181.53	cu.m	-covers all necessary embankment works as specified in the plans -specs are as follows Backhoe (0.8 cu.m) Plate Compactor (5hp) Note: Refer to the plan for details
804(4)	GRAVEL BEDDING	45.96	cu.m	-provision of gravel bedding as specified in the plans -specs are as follows Minor Tools (10% of Labor) Plate Compactor (5hp) Gravel Bedding (G1) Note: Refer to the plan for details
900(1)C1	STRUCTURAL CONCRETE (READY MIX, CLASS A, 28 DAYS)	225.33	cu.m	-all concrete shall be class A = $f_c' \geq 21$ Mpa -covers item as specified in the plans -covers the slab on fill, footing, columns and beams



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>-specs are as follows: Mixing Box Concrete Vibrator Minor Tools (10% of Labor) Ready Mix, Class A, 28 Days</p> <p>Notes: Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 4 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit Note: Refer to the plan for details</p>
902(1)a1	REINFORCING STEEL BARS (GRADE 60)	37,537.92	kgs	<p>-A.S.T.M. A615 GRADE60 for deformed bars (fy=420MPa)</p> <p>-specs are as follows: Bar Cutter Bar Bender Minor Tools (10% of Labor) Grade 60 RSB (10mm, 16mm and 20mm Diameters) #16 GI Tie Wire</p> <p>Notes: Reinforcing bars should be validated and checked before fabrication and installation. Fabrication and installation shall not proceed without proper inspection of the reinforcing bars. RSB testing shall be done every 10,000kg of different diameters accordingly RSB from different suppliers shall also be tested and validated upon delivery Note: Refer to the plan for details</p>
903(2)	FORMS & FALSEWORKS	1,093.40	sq.m	<p>-item covers the fabrication and installation of formworks</p> <p>-specs are as follows: Minor Tools (10% Labor) 1/2" thk. Phenolic board Good lumbers (well-seasoned) common wire nails (assorted) H-frame, set H-frames diagonal cross braces horizontal braces joint pins Shoring Jack, 3.8m Full Extension Adjustable U-Head Jack, 0.6m Adjustable Base Jack, 0.6m 1 1/2" GI Pipe Tie Rod x 0.6m Round Wing Nut</p> <p>Note: Refer to the plan for details, formworks usage: 2-3 times</p>
1000(1)	SOIL POISONING (TERMITE CONTROL)	52.80	L	<p>-item covers the soil-poisoning for the plan area (slab on fill)</p> <p>-specs are as follows: Chemical Spray Equipment Lentrex soil poisoning solution or any equivalent material</p> <p>Note: Refer to the plan for details</p>
1001(6)b	CATCH BASIN (CHB)	14.00	each	<p>-item covers the construction of CHB catchbasin as specified in the plans</p> <p>-specs are as follows: Set of plumbing tools Welding Machine Potland Cement</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>Washed Sand Crushed Gravel, 3/4" CHB 4" thk. Grade 40 RSB 10mmD L - 25mm x 25mm x 6mm Angle 150mmD PVC Moldex Pipe x 3m Pvc 90° elbow 150mmØ Pvc tee 150mmØ PVC Solvent 200cc Welding Rod</p> <p>Note: Refer to the plan for details</p>
1001(8)	SEWER LINE WORKS	1.00	Ls	<p>-item covers the sewer line works as specified in the plan -specs are as follows: Set of plumbing tools PVC pipe 50mm dia, S-1000 x 3m PVC pipe 75mm dia, S-1000 x 3m PVC pipe 100mm dia, S-1000 x 3m PVC 50mmØ x 100mmØ Tee Reducer PVC Tee 50mmØ PVC 90° elbow 50mmØ PVC 45° elbow 75mmØ PVC 90° elbow 75mmØ PVC Wye Reducer 45° 75mmØ x 100mmØ PVC 45° elbow 100mmØ PVC 90° elbow 100mmØ PVC Wye Reducer 45° 100mmØ x 150mmØ P-trap 75mmØ Clean-out with plug and seal ring 100mmØ Solvent Cement, 250ml Perforated HDPE Pipe, 100mm dia</p> <p>Note: Refer to the plan for details and installation</p>
1001(9)	STORM DRAINAGE AND DOWNSPOUT	1.00	Ls	<p>-item covers the installation of storm drainage and downspout as specified in the plans -specs are as follows: Set of plumbing tools Pvc pipe 75mm dia, S-1000 x 3m Pvc 90deg. elbow 75mmØ Solvent Cement, 250ml Roof Drain (Dome Type Strainer)</p> <p>Note: Refer to the plan for details and installation</p>
1002(8)	PLUMBING FIXTURES AND FITTINGS	1.00	Ls	<p>-item covers the installation of plumbing fixtures as specified in the plans -specs are as follows: Set of plumbing tools Water closet including fittings and complete accessories one piece, elegant design, dual flush, with bidet Countertop Lavatory including faucet, Fittings and Accessories Floor drain 100x100mm, Heavy Duty Tissue Holder, stainless 700ml Automatic Sensor Soap Dispenser Touchless Wall Hung Stainless Steel Faucet Showerhead with Valve Automatic Hand Dryer teflon tape</p> <p>Note: Refer to the plan for details, refer to INFRA personnel before installation Note: Refer to the attached sample photos</p>
1002(28)	COLD WATER LINES	1.00	Ls	<p>-item covers the installation of cold water lines as specified in the plans -specs are as follows: Set of plumbing tools Fusing Machine 600W 25mm dia x4m PPR Pipe PN 16 25mm PPR Pipe elbow 45°</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				25mm PPR Pipe elbow 90° 25mm PPR Pipe Tee 25mm PPR Pipe union patente Angle valve 25mmD Gate valve Water meter Note: Refer to the plan for details and installation
1003(1)a1	CEILING (4.5MM FIBER CEMENT BOARD ON METAL FRAME CEILING)	202.75	sq.m	-item covers the installation of ceiling as specified in the plans -specs are as follows: Minor tools (10% of Labor) Power Tools H-Frame, G.I. Pipe Scaffolds Fiber Cement Board 4.5mm thk. 1.2m x 2.4m Double Metal Furring, 19mm x 50mm x 0.5mm THK x 5m Carrying Channel, 12mm x 38mm x 0.8mm THK x 5m Wall Angle, 25mm x 25mm x 0.5mm THK x 3m Pre-formed wire clip Rod suspension hanger with adjustment spring Fiber Cement Screw 3/4" 1" Metal Screw Note: Refer to the plan for details, refer to INFRA personnel for the design of ceiling
1003(1)e2	SPANDREL CEILING	116.00	sq.m	-item covers the installation of spandrel ceiling as specified in the plans -specs are as follows: Minor tools (10% of Labor) Power Tools Spandrel x 4" (100mm X 1.05m) pre-painted L Moulding x 2.40 Conc. Drill Bit x 4mmØ Blind Rivet x 4mmØ Concrete Nail Note: Refer to the plan for details and installation
1003(16)	PRESSURIZED LAMINATED WOOD PARTICLES	23.30	sq.m	-item covers the fabrication and installation of toilet partitions -specs are as follows: D3A - Stainless Steel Waterproof Cubicle High Pressure Laminate HPL, 8 sets with complete accessories Note: Refer to the plan for details, refer to INFRA personnel before installation
1004(2)a	LOCKSET	22.00	sets	-item covers the installation of locksets -specs are as follows: Standard H-Type Handle 304, 1200 x 32mm Door Handle Levertype Lockset Note: Refer to the plan for details, refer to INFRA personnel before installation
1004(2)g	HINGE	10.00	sets	-item covers the installation of door hinges -specs are as follows: Hinge Note: Refer to the plan for details, refer to INFRA personnel before installation
1006(5)	STEEL DOORS AND FRAMES (FIRE EXIT)	8.40	sq.m	-item covers the fabrication and installation of fire exit doors as indicated in the plan -specs are as follows: D5 - Fire exit with panic device steel sheet Gauge 15.00mm with complete accessories, 4 sets - 0.9m x 2.1m Note: Refer to the plan for details, refer to INFRA personnel before installation
1007(1)a	ALUMINUM GLASS DOOR (SLIDING TYPE)	5.78	sq.m	-item covers the fabrication and installation of aluminum sliding glass doors -specs are as follows: D3B - Analok aluminum powder coated sliding door with 6mm THK reflective glass (complete accessories), 1 set - 2.75m x 2.1m



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>Note: Refer to the plan for details, refer to INFRA personnel before installation</p>
1007(1)b	ALUMINUM GLASS DOOR (SWING TYPE)	12.00	sq.m	<p>-item covers the fabrication and installation of aluminum swing glass doors</p> <p>-specs are as follows:</p> <p style="padding-left: 40px;">D1 - Analok aluminum powder coated swing door with 6mm THK reflective glass (complete accessories), 6 sets - 1.5m x 2.1m</p> <p>Note: Refer to the plan for details, refer to INFRA personnel before installation</p>
1008(1)a	ALUMINUM GLASS WINDOW (SLIDING TYPE)	35.24	sq.m	<p>-item covers the fabrication and installation of aluminum sliding glass window</p> <p>-specs are as follows:</p> <p style="padding-left: 40px;">W1 - Analok aluminum powder coated sliding window with 6mm THK reflective glass, internal steel grills and aluminum screen (complete accessories), 10 sets - 1.0m x 1.2m</p> <p style="padding-left: 40px;">W2 - Analok aluminum powder coated sliding window with 6mm THK reflective glass, internal steel grills and aluminum screen (complete accessories), 13 sets - 1.0m x 0.6m</p> <p style="padding-left: 40px;">W4 - Analok aluminum powder coated sliding window with 6mm THK reflective glass, internal steel grills and aluminum screen (complete accessories), 3 sets - 2.7m x 0.7m</p> <p style="padding-left: 40px;">W5 - Analok aluminum powder coated sliding window with 6mm THK reflective glass, internal steel grills and aluminum screen (complete accessories), 2 sets - 2.1m x 0.525m</p> <p style="padding-left: 40px;">W6 - Analok aluminum powder coated sliding window with 6mm THK reflective glass, internal steel grills and aluminum screen (complete accessories), 3 sets - 2.1m x 1.2m</p> <p>Note: Refer to the plan for details, refer to INFRA personnel before installation</p>
1008(1)d	ALUMINUM GLASS WINDOW (FIXED TYPE)	55.39	sq.m	<p>-item covers the fabrication and installation of aluminum fixed glass window</p> <p>-specs are as follows:</p> <p style="padding-left: 40px;">Analok aluminum powder coated fixed window with 6mm THK reflective glass (complete accessories); see plan for details</p> <p>Note: Refer to the plan for details, refer to INFRA personnel before installation</p>
1010(1)	WOODEN DOOR JAMB	10.00	sets	<p>-item covers the fabrication and installation of wooden door jamb</p> <p>-specs are as follows:</p> <p style="padding-left: 40px;">Minor tools (10% of Labor)</p> <p style="padding-left: 40px;">Power Tools</p> <p style="padding-left: 40px;">D2 - Wooden Door Jamb, Good Lumber, Well Seasoned, 1m x 2.15m</p> <p style="padding-left: 40px;">D7 - Wooden Door Jamb, Good Lumber, Well Seasoned, 1m x 2.15m</p> <p>Note: Refer to the plan for details, refer to INFRA personnel before installation</p>
1010(2)b	WOOD PANEL DOOR	18.90	sq.m	<p>-item covers the fabrication and installation of wood panel door</p> <p>-specs are as follows:</p> <p style="padding-left: 40px;">Minor tools (10% of Labor)</p> <p style="padding-left: 40px;">Power Tools</p> <p style="padding-left: 40px;">D2 - Wood Panel Door, Well Seasoned, Polyurethane Top Coat Finish, 7 sets - 0.9m x 2.1m</p> <p style="padding-left: 40px;">D7 - Wood Panel Door, Well Seasoned, Polyurethane Top Coat Finish, 3 sets (0.9m x 2.1m) with 0.6m x 0.9m 6mm THK Clear Glass</p> <p>Note: Refer to the plan for details, refer to INFRA personnel before installation</p>
1011(1)b	ROLL-UP DOOR	14.07	sq.m	<p>-item covers the fabrication and installation of roll-up door</p> <p>-specs are as follows:</p> <p style="padding-left: 40px;">Minor tools (10% of Labor)</p> <p style="padding-left: 40px;">Power Tools</p> <p style="padding-left: 40px;">D1A - Aluminum Roll-up Doors with complete accessories, 3</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				sets, 1.5m x 2.1m D6- Aluminum Roll-up Doors with complete accessories, 1 set, 2.1m x 2.2m Note: Refer to the plan for details, refer to INFRA personnel before installation
1013(2)a	FABRICATED METAL ROOFING ACCESSORY (RIDGE ROLL)	37.00	ln.m	-item covers the installation of ridge roll -specs are as follows: Minor tools (10% of Labor) Power Tools H-Frame/ Scaffolds Pre-painted Ridge Roll GA 24 (0.701mm) x 2.44m (VERIFY COLOR) Blind Rivets Note: Refer to the plan for details, refer to INFRA personnel before installation
1013(2)b	FABRICATED METAL ROOFING ACCESSORY (FLASHING)	131.56	ln.m	-item covers the installation of flashing -specs are as follows: Minor tools (10% of Labor) Power Tools H-Frame/ Scaffolds Pre-painted Spanish Flashing GA 24 (0.701mm) x 2.44m (VERIFY COLOR) Blind Rivets Note: Refer to the plan for details, refer to INFRA personnel before installation
1013(2)c	FABRICATED METAL ROOFING ACCESSORY (GUTTER)	110.00	ln.m	-item covers the installation of gutter -specs are as follows: Minor tools (10% of Labor) Power Tools H-Frame/ Scaffolds Pre-painted Gutter GA 24 (0.701mm) x 2.44m (VERIFY COLOR) 12" X 1" Plain GI Strap Blind Rivets Note: Refer to the plan for details, refer to INFRA personnel before installation
1014(1)b2	PRE-PAINTED METAL SHEETS (RIB TYPE, LONG SPAN)	385.90	sq.m	-item covers the installation of pre-painted metal sheets -specs are as follows: Minor tools (10% of Labor) Power Tools H-Frame/ Scaffolds Pre-painted Rib Type (Gauge 26, 1060mm Width) x 10' Pre-painted Rib Type (Gauge 26, 1060mm Width) x 8' J Bolt screw (2 1/2" x 1/4") with nut and bonded washer Tek screw (1 1/2" - 2") C-100mmx50mm x 1.5mm x 6m (Fascia Board) Note: Refer to the plan for details, refer to INFRA personnel before installation
1018(1)	GLAZED TILES	85.79	sq.m	-item covers the laying of tiles as specified in the plans -specs are as follows: Minor tools (10% of Labor) Power Tools Glazed Granite Tiles (600mm x 600mm) Tile adhesive (25kgs/bag) Portland Cement Washed Sand White cement joint filler, 2kgs Tile Cutter Disk Note: Refer to the plan for details, refer to INFRA personnel for the design before installation
1018(2)	UNGLAZED TILES	32.63	sq.m	-item covers the laying of tiles as specified in the plans -specs are as follows: Minor tools (10% of Labor) Power Tools



				Unglazed Granite Tiles (300m x 300m) Tile adhesive (25kgs/bag) Portland Cement Fine Sand White cement joint filler, 2kgs Tile Cutter Disk Note: Refer to the plan for details, refer to INFRA personnel for the design before installation
1027(1)	CEMENT PLASTER FINISH	2,099.86	sq.m	-item covers the plastering of walls as specified in the plans -specs are as follows: Minor tools (10% of Labor) Portland Cement Washed Sand Note: Refer to the plan for details
1032(1)a	PAINTING WORKS (MASONRY/CONCRETE)	2,099.86	sq.m	-item covers the painting of the building's interior and exterior -specs are as follows: Minor tools (10% of Labor) H-Frame, G.I. Pipe Scaffolds Flat Latex White (First coat) Latex Semi Gloss (2 coats) - Refer to INFRA for color Masonry Neutralizer Masonry Putty Sand Paper Roller brush with pan Roller Brush foam Paint Brush x 100 Paint Brush x 75 Note: Refer to the plan for details, refer to INFRA for the color scheme before application
1032(1)b	PAINTING WORKS (CEILING)	302.51	sq.m	-item covers the painting of the ceiling -specs are as follows: Minor tools (10% of Labor) H-Frame, G.I. Pipe Scaffolds Latex Flat White Latex Semi-Gloss White Plasolux Glazing Putty Paint Thinner Roller brush with pan Roller Brush foam Paint Brush x 100 Paint Brush x 75 Sand Paper Note: Refer to the plan for details, refer to INFRA for the color scheme before application
1038(1)	REFLECTIVE INSULATION	385.90	sq.m	-item covers the installation of roofing insulation -specs are as follows: Minor tools (10% of Labor) 10mm thk. Double sided Aluminum foam insulation (50m-roll) Note: Refer to the plan for details, refer to INFRA before installatiion
1046(2)a1	100MM CHB NON-LOAD BEARING (INCLUDING RSB)	273.64	sq.m	-item covers the laying of CHB(interior) as specified in the plans -specs are as follows: One-Bagger Mixer Minor tools (10% of Labor) 4" thk. CHB Washed Sand Portland Cement 10mm dia RSB grade 40, deformed no. 16 GI tie wire Note: Refer to the plan for details
1046(2)a2	150MM CHB NON-LOAD BEARING (INCLUDING RSB)	524.89	sq.m	-item covers the laying of CHB(exterior) as specified in the plans -specs are as follows: One-Bagger Mixer



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Minor tools (10% of Labor) 6" thk. CHB Washed Sand Portland Cement 10mm dia RSB grade 40, deformed no. 16 GI tie wire Note: Refer to the plan for details
1047(2)a	STRUCTURAL STEEL (TRUSS)	3,098.00	kgs	-item covers the fabrication and installation of roof framing as specified in the plans: -specs are as follows: Welding Machine Disk Grinder/Cutter L - 50mm x 50mm x 5mm THK L - 38mm x 38mm x 5mm THK 1.2m x 2.4m x 6mm THK MS Plate 1.2m x 2.4m x 12mm THK MS Plate A325 16mm diameter x 35mm Long Anchor Bolts 16mm diameter Plain Round Bar Cross Bracing 16mm Turn Buckle 12mm x 6m Plain Round Bar Sag Rod with Nuts and Washers Welding Rods Primer Paint Paint Brush Note: Refer to the plan for details
1047(2)b	STRUCTURAL STEEL (PURLINS)	4,015.93	kgs	-item covers the fabrication and installation of purlins as specified in the plans: -specs are as follows: Minor tools (10% of Labor) Power Tools Welding Machine C 150mm x 50mm x 2mm x 6m LC Purlins Welding Rods Primer Paint Paint Brush Note: Refer to the plan for details
1053(1)	MISCELLANEOUS HARDWARE (STEEL TUBULAR MOULDINGS)	474.00	ln.m	-item covers the fabrication and installation of tubular doors -specs are as follows: Minor tools (10% of Labor) Power Tools Welding Machine 25mm x 25mm x 2mm THK Tubular Welding Rods Primer Paint Paint Brush Note: Refer to the plan for details
1100(30)	CONDUITS BOXES AND FITTINGS	1.00	Ls	-item covers the installation of electrical conduits, boxes and fittings -specs are as follows: Minor Tools (10% of Labor) Service Entrance to MDP: Rigid Steel Conduit (RSC) - 80mm dia x 3m Service Entrance Cap 80mm dia. Polyvinyl Chloride Pipes (PVC/uPVC) - 80mm dia x 3m Adaptor w/ Locknut (PVC/uPVC) - 80mm dia PVC/uPVC long elbow - 80mm dia MDP to LPA: Intermediate Metal Conduit (IMC) - 32mm dia x 3m Locknut and Bushing (IMC) - 32mm dia Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m Adapter w/ Bushing (PVC/uPVC) - 20mm dia PVC/uPVC coupling - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes MDP to LPA1: Intermediate Metal Conduit (IMC) - 32mm dia x 3m



				<p>Locknut and Bushing (IMC) - 32mm dia Polyvinyl Chloride Pipes (PVC/uPVC) - 25mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes</p> <p>MDP to LPB: Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes</p> <p>MDP to LPC: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes</p> <p>MDP to LPD: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia PVC/uPVC Octagonal Junction Boxes Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes</p> <p>MDP to LPE: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia PVC/uPVC Octagonal Junction Boxes Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes</p> <p>MDP to PPA: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia PVC/uPVC Octagonal Junction Boxes Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box</p> <p>MDP to PPB: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m</p>
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				<p>Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia PVC/uPVC Octagonal Junction Boxes Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box</p> <p>MDP to PPC: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia PVC/uPVC Octagonal Junction Boxes Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box</p> <p>MDP to PPD: Polyvinyl Chloride Pipes (PVC/uPVC) - 32 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC coupling - 32mm dia PVC/uPVC long elbow - 32mm dia PVC/uPVC Octagonal Junction Boxes Polyvinyl Chloride Pipes (PVC/uPVC) - 25 mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 25mm dia PVC/uPVC coupling - 25mm dia PVC/uPVC long elbow - 25mm dia PVC/uPVC Utility Box</p> <p>Note: Refer to plans for general notes.</p>
1101(42)	WIRES AND WIRING DEVICES	1.00	Ls	<p>-item covers the installation of electrical wires and wiring devices</p> <p>-specs are as follows: Minor Tools (10% of Labor)</p> <p>Service Entrance to MDP: 175mm² THHN Cu wire stranded 30mm² THHN Cu wire stranded (Gnd) Split bolt Connector 500MCM Two Spool Secondary Rack w/ spool</p> <p>MDP to LPA: 22mm² THHN Cu wire stranded 8.0mm² THHN Cu wire stranded (Gnd)</p> <p>Lighting: 3.5mm² THHN Cu wire stranded Single Pole Wall Switch on one switch plate Duplex (2 Single Pole Wall Switches on one switch plate) Triplex (3 Single Pole Wall Switches on one switch plate)</p> <p>Power: Duplex Convenience Outlets/Receptacles, 3prong (grounding type)</p> <p>MDP to LPA1: 8.0mm² THHN Cu wire stranded 5.5mm² THHN Cu wire stranded (Gnd)</p> <p>ACU: 5.5mm² THHN Cu wire stranded 3.5mm² THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO) EF: 3.5mm² THHN Cu wire stranded 2.0mm² THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO)</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800

Bids and Awards Committee



				<p>MDP to LPB: 5.5mm2 THHN Cu wire stranded 3.5mm2 THHN Cu wire stranded (Gnd) LIGHTING: 3.5mm2 THHN Cu wire stranded</p> <p>MDP to LPC: 5.5mm2 THHN Cu wire stranded 3.5mm2 THHN Cu wire stranded (Gnd) LIGHTING: 3.5mm2 THHN Cu wire stranded</p> <p>MDP to LPD: 5.5mm2 THHN Cu wire stranded 3.5mm2 THHN Cu wire stranded (Gnd) LIGHTING: 3.5mm2 THHN Cu wire stranded</p> <p>MDP to LPE: 14mm2 THHN Cu wire stranded 8.0mm2 THHN Cu wire stranded (Gnd) LIGHTING: 3.5mm2 THHN Cu wire stranded POWER: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Duplex Convenience Outlets/Receptacles, 3prong (grounding type)</p> <p>ACU: 5.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO) Duplex Convenience Outlet with GFCI with grounding</p> <p>MDP to PPA: 22mm2 THHN Cu wire stranded 8.0mm2 THHN Cu wire stranded (Gnd) POWER: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO) MDP to PPB: 22mm2 THHN Cu wire stranded 8.0mm2 THHN Cu wire stranded (Gnd) POWER: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO) EF: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO) MDP to PPC: 14mm2 THHN Cu wire stranded 8.0mm2 THHN Cu wire stranded (Gnd) POWER: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Duplex Convenience Outlets/Receptacles, 3prong (grounding type) Heavy Duty Convenience Outlet/Receptacles Duplex 20A</p> <p>(SPO) EF: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Duplex Convenience Outlets/Receptacles, 3prong (grounding type)</p>
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Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				type) MDP to PPD: 14mm2 THHN Cu wire stranded 8.0mm2 THHN Cu wire stranded (Gnd) POWER: 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded Heavy Duty Convenience Outlet/Receptacles Duplex 20A Weatherproof (SPO) Note: All branch circuits shall be properly grounded. Refer to plans for details.
1102(27)	POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS	1.00	Ls	-item covers the installation of power load center, switchgear and panelboards -specs are as follows: Minor Tools (10% of Labor) MTS: Main: 2- 350AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 16-20 AT, all 2P+G, Bolt-ON, 20KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel MDP: Main: 350AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 1-90 AT, 2-80AT, 3-60AT, 1-50AT, 3-30AT all 2P+G, Bolt-ON, 20KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel LPA: Main: 80AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 14-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel LPA1: Main: 40AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 4-30 AT, 2-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel LPB: Main: 30AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 4-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel LPC: Main: 30AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 8-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel LPD: Main: 30AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 6-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel LPE: Main: 60AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 6-20 AT, 2-30 AT all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel PPA: Main: 80AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 10-20 AT, 2-30 AT all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready. Panel PPB: Main: 90AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 14-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready.



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>Panel PPC: Main: 60AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 10-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready.</p> <p>Panel PPD: Main: 60AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 8-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready.</p> <p>Panel PPE: Main: 60AT, 2P+G, 20KAIC MCCB, Bolt-On Branches: 6-20 AT, all 2P+G, Bolt-ON, 15KAIC in NEMA1 Enclosure, Surface Mounted Industrial type, Powder Coated, Grounding and Terminal Lugs Ready.</p> <p>Note: Refer INFRA personnel before installation</p>
1102(10)	POLE MOUNTED TRANSFORMER	1.00	Ls	<p>-item covers the installation of pole mounted transformer -specs are as follows: 100KVA OISC PCB free 13.2kV/230V, complete with mounting connecting accessories Machine Bolt 5/8 x 12 Steel, Crossarm 8ft. Clamp, Pole CA 6 – 7 Transformer Bracket 3 Phase Hotline Clamp Washer 2 – 1/2 x 2 – 1/2 x 3/16 Clamp Loop 2/0 Fuse Cut-out, 100Amps Fuse Link 8 Amps Ground Rod 5/8 x 7 Ground Rod Clamp 5/8 Lock Nut 5/8 Hot Line, Stirrup Insulator, Pin type, Porcelain, ANSI, Class 55-5 Pin, Pole Top, Channel, 1" Thread, 20" long Bolt, machine, 5/8" x Req'd. length Washer, Square, Flat, 2-1/4" x 3x16" diameter hole Pin, Crossarm, Steel 5/8" x 10-3/4" Brace, Crossarm, 28", steel Bolt, Carriage 3/8" x 4-1/2" Insulated Single Upset Bolt x Required bolt Spring Washer, 5/8" Lock Nuts 30' Steel Pole G11 Transformer Top Assembly Jumper, No.4 AWG, Aluminum Alloy, Stranded Ground Wire, No.4 AWG, Alluminum Connector, Split Bolt Type 2/0 ACSR Primary lines Neutral wire No. 4 AWG</p> <p>Note: Refer INFRA personnel before installation</p>
1103	LIGHTING FIXTURES	1.00	Ls	<p>-item covers the installation of lighting fixtures as specified in the plans</p> <p>-specs are as follows: Minor Tools (10% of Labor) "UFO LED High Bay, 90 Watts Daylight, 9000 lm, High Brightness LED SMD, Meanwell Brand LED Driver, 5500- 6500 K / Daylight, Die Cast Aluminum Alloy + Tempered Glass, 120° Degrees, 50000 hours, AC 85V – 265V 50/60 Hz, IP 65 w/ mounting accessories." 3x40 Louver Housing Surface Mount 24"x48" 600x1200mm, 3 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40</p> <p>2x40 Louver Housing Surface Mount 12"x48" 300x1200mm,</p>



				<p>2 pcs 1200mm T8 Tube Lights 1800 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40</p> <p>2x2ft Louver Housing Surface Mount 24"x24" 600x600mm, 2 pcs 600mm T8 Tube Lights 900 Lm, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40 Ceiling lamp, 20Watts, 1800Lm, 6000 Daylight, 385x350x90mm, 230V,60Hz, Surface Mounted. LED Ultrabright Emergency Light 2x15W SMD LED, 2600 lumens 6V 4.5Ah Lead-Acid Battery, 220-240VAC 50/60Hz Charging Time: 24hrs Operating Time: 3hrs (double lamp) 4hrs (single lamp)</p> <p>LED Exit Sign Green single Faced ACRYLIC TYPE, Automatic operation, with overcharging protection, fuse protected, with battery back up the operation of up to 3 hours.</p> <p>Note: Refer to the plan for details, refer to INFRA personnel for the approval of lighting fixtures</p>
1200 (18) b	VENTILATION FAN (WALL MOUNTED)	8.00	set/s	<p>-item covers the procurement and installation of wall mounted exhaust fan and its ducting</p> <p>-specs are as follows: Minor tools (10% of Labor) Power Tools Two Way Wall Mounted Ventilation Fan, 600x600mm, Industrial Type, Reversible</p> <p>Note: Refer to the plan for details Note: Refer to the attached sample photo and refer to INFRA personnel before installation</p>
1202 (24) a3	FIRE EXTINGUISHER (10LBS, CO2/ HCFC123 WITH BRACKET)	7.00	set/s	<p>-item covers the procurement and installation of fire extinguisher</p> <p>-specs are as follows: Minor tools (10% of Labor) Power Tools Fire Extinguisher 10lbs HCFC-123 (Green)</p> <p>Note: Refer to the plan for details Note: Refer to the attached sample photo and refer to INFRA personnel before installation</p>
1208	FIRE ALARM PROVISION	1.00	Ls	<p>-item covers the procurement and installation of fire alarm provisions</p> <p>-specs are as follows: Minor tools (10% of Labor) Manual Call Point Horn with Flashing Strobe Wireless Smoke Detector</p> <p>Note: Refer to the plan for details Note: Refer to the attached sample photo and refer to INFRA personnel before installation</p>
SPL-I	SEPTIC TANK	2.00	each	<p>-item covers the construction of septic tank as specified in the plans</p> <p>-specs are as follows: bar cutter minor tools (10% Labor) portable concrete vibrator minor tools (10% Labor)</p> <p>REINFORCING STEEL BARS: 12mm Grade 40 RSB 10mm Grade 40 RSB no. 16 GI Tie wire</p> <p>FORMS AND FALSEWORKS: 1/2" thk. Marine plywood 1.2m x 2.4m form lumbers common wire nails (assorted)</p> <p>STRUCTURAL CONCRETE portland cement washed sand crushed gravel 1"</p> <p>MASONRY</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				6" thk. Non load bearing CHB washed sand portland cement PLASTERING washed sand portland cement Note: Refer to the plan for details
SPL-II	FLOORING SYSTEM	530.94	sq.m	-item covers the application of flooring system -specs are as follows: Finished Floor with sealer and epoxy coating Surface Preparation - Grinding/Scarifying Priming Final Coating Rubberized Floor Paint Note: Refer to the plan for details, refer to INFRA personnel before installation
SPL-III	AIR CURTAIN	6.00	sets	-item covers the installation of air curtains as specified in the plan -specs are as follows: PVC Plastic Industrial Strip Air Curtain, Yellow, 2mm THK x 185mm x 2100mm with accessories (hanging rail and bracket) Note: Refer to the plan for details, refer to INFRA personnel before installation
SPL-IV	LETTERINGS	1.00	Ls	-covers the installation of letterings -specs are as follows Stainless Steel Embossed Letterings 250mm (height) with backlit LED Module (LIVESTOCK R&D) Stainless Steel Embossed Letterings 150mm (height) with backlit LED Module (MEAT PROCESSING, POULTRY DRESSING PLANT & SLAUGHTER HOUSE) *Installation is already included in the item cost Note: Refer to the plan for details, refer to INFRA personnel before installation
SPL-V	SLAUGHTER AREA EQUIPMENTS AND MATERIALS	1.00	Ls	-covers the fabrication and installation of slaughter area equipments -specs are as follows Slaughter area equipments and materials: *Fabrication and Installation Stunning Area Bleeding Platform Scalding Vat Chimney Dehairing/Evisceration Table Splitting Washing Area/Meat Hanging Area Weighing Area Note: Refer to the plan for details, refer to INFRA personnel before installation
SPL-VI	KITCHEN HOOD FIRE SUPPRESSION	1.00	Ls	-covers the installation of chemical fire suppression -specs are as follows Kitchen Hood Fire Suppression specifications are as follows Wet Chemical Storage Tank Control Panel for Wet Storage Tanks, with manual control Wet System Agent Discharge Nozzle, 15mm orifice B.I. Pipe Distribution Lines Note: Refer to the plan for details, refer to INFRA personnel before installation
SPL-VII	SLOT DRAIN	1.00	Ls	-covers the installation of slot drain and catch basin -specs are as follows 2" x 4" 304 Stainless Steel Gauge 14 Pre-Fabricated Sloped



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Channel 3" x 6" 304 Stainless Steel Gauge 14 Pre-Fabricated Sloped Channel Pre-Fabricated 300mm x 300mm x 300mm Catch Basin Stainless Steel Gauge 14 Note: Refer to the plan for details, refer to INFRA personnel before installation
B. NATIVE CHICKEN HOUSING				
B.3	PERMITS AND CLEARANCES	1.00	lumpsum	-covers the application/ registration of building permit -scope are as follows Professional Fees for Signatories Architect Civil Engineer Sanitary Engineer Electrical Engineer/ PEE Mechanical Engineer/ PME Building Permit Processing Fee KAELCO Processing Fee BFP Permit Occupancy Permit Printing Fees (5 sets), refer to INFRA for attachment documents Certificate of Non Cooverage (CNC) Zoning Clearance Note: Refer to INFRA for necessary documents/ attachments
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	lumpsum	-covers the provision of safety officer on-site and PPEs for the workers -specs are as follows Safety Officer safety gloves safety helmet safety shoes
800(1)	CLEARING GRUBBING AND LAYOUT	468.00	sq.m	-covers the clearing and cleaning of the project site before and after the project removal of construction debris, cleaning of project site -specs are as follows Minor Tools(10%) Note: Refer to plans for details
803(1)a	STRUCTURAL EXCAVATION (COMMON SOIL)	59.01	cu.m	-covers the excavation of the following: footing wall footing drainage canal -specs are as follows Minor Tools (10% Labor) Note: Refer to plans for details
804(1)a	EMBANKMENT FROM STRUCTURE EXCAVATION	44.43	cu.m	-covers embankment as specified in the plans -specs are as follows Minor Tools (10% Labor) plate compactor 5hp Note: Refer to plans for details
804(4)	GRAVEL BEDDING	24.89	cu.m	-covers the gravel bedding for all of the footings, wall footings, slab, drainage canal -specs are as follows Minor Tools (10% Labor) plate compactor 5hp Gravel Bedding (G1) Note: Refer to plans for details
900(1)c1	STRUCTURAL CONCRETE	43.54	cu.m	-all concrete shall be class A = $f'c' \geq 21$ Mpa -covers item as specified in the plans -covers all of the footings, columns, wall footings, slab, drainage canal -specs are as follows: Minor Tools (10% Labor) 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>Washed sand Crushed Gravel (3/4") Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 4 concrete samples should be provided every concrete pouring works Concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit Note:refer to plans for details</p>
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	2554.07	kgs.	<p>-A.S.T.M. A615 GRADE40 for deformed bars (fy=275MPa) -specs are as follows: Reinforcing bars should be validated and checked before fabrication and installation. Fabrication and installation shall not proceed without proper inspection of the reinforcing bars. RSB testing shall be done every 10,000kg of different diameters accordingly RSB from different suppliers shall also be tested and validated upon delivery Disk grinder/ cutter Bar Bender/ Cutter Minor Tools (10% Labor) GRADE40 RSB 16mm,12mm,10mm deformed bars no. 16 GI Tie wire Note: Refer to plans for details</p>
903(2)	FORMS & FALSEWORKS	116.26	sq.m	<p>-item covers the fabrication and installation of formworks -specs are as follows: Minor Tools (10% Labor) H-frame, set 2 pcs H-frames 4 pcs diagonal cross braces 4 pcs horizontal braces 8 pcs joint pins Shoring Jack, 3.8m Full Extension Adjustable U-Head Jack, 0.6m Adjustable Base Jack, 0.6m 1 1/2" GI Pipe Tie Rod x 0.6m Round Wing Nut 1/2" thk. Phenolic board Good lumbers (well-seasoned) common wire nails (assorted) Note: Refer to plans for details</p>
1000(1)	SOIL POISONING (TERMITE CONTROL)	2.00	L	<p>-item covers the soil-poisoning for the slab on fill, footings, wall footings and drainage canal -specs are as follows: Chemical spray equipment Lentrex soil poisoning solution or any equivalent material Note: Refer to plans for details</p>
1001 (9)	STORM DRAINAGE AND DOWNSPOUT	1.00	lumpsum	<p>-item covers the sewer line works as specified in the plan -specs are as follows: minor tools Power Tools H-Frame/ Scaffolds Pvc pipe 75mmØ dia, S-1000 x 3m Pvc 75mmØ Elbow Solvent Cement Note: Refer to plans for details</p>
1002 (8)	PLUMBING FIXTURES AND FITTINGS	1.00	lumpsum	<p>-item covers the installation of plumbing fixtures as specified in the plans</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>-specs are as follows: minor tools Power Tools Stainless Steel Sink Double basin with complete accessories Stainless Steel Faucet, 12.5mmØ, Lever Type</p> <p>Note: Refer to plans for details</p>
1002 (28)	COLD WATER LINES	1.00	lumpsum	<p>-item covers the installation of cold water lines as specified in the plans</p> <p>-specs are as follows: minor tools Power Tools</p> <p>Main Source 25mm dia x4m PPR Pipe PN 20 25mm PPR Pipe union patente 25mm-15mm PPR Pipe Tee Reducer 25mm-15mm PPR Pipe Elbow Reducer 25mm PPR Pipe elbow 90°</p> <p>Distribution Lines 15mmdia x 4m PPR Pipe PN 20 15mm PPR Pipe elbow 90° 15mm PPR Pipe union Patente Fusing Machine 600W Angle valve Check valve Gate valve 25mmΦ PPR Pipe Nipple 15mmΦ, Threaded Adapter Water Meter</p> <p>Note: Refer to plans for details</p>
1003(1)e2	SPANDREL CEILING	75.80	sq.m.	<p>-item covers the installation of spandrel ceiling as specified in the plans</p> <p>-specs are as follows: Power Tools H-frame/GI pipe scaffolds Spandrel x 4" (100mm X 1.05m) pre-painted L Moulding x 2.40 Conc. Drill Bit x 4mmØ Wall Angle, 50mm x 50mm x 5mm thk. Blind Rivet x 4mmØ</p> <p>Note: Refer to plans for details</p>
1005	STEEL WINDOW	9.88	sq.m.	<p>-item covers the fabrication and installation of aluminum glass window</p> <p>-specs are as follows: Aluminum Glass Window, Powder Coated White, Series 1000, 6mm thick glass</p> <p>Note: Refer to plans for details</p>
1010 (2) b	WOOD PANEL DOORS	2.00	sets	<p>-item covers the fabrication and installation of wood panel doors</p> <p>-specs are as follows: Wood Panel Doors, Well Seasoned Wood, Smooth Wood-Stain Finish Poly-urethane topcoat finish Door Jamb, Well Seasoned Wood, Paint Finish Lever Type Lockset Heavy Duty Hinge</p> <p>Note :Refer to plans for details</p>
1011 (1) a	ROLL UP DOOR	1.00	set	<p>-item covers the fabrication and installation of roll up door</p> <p>-specs are as follows: Minor tools Power Tools Roll Up Door (Galvanized Steel Slats)</p> <p>Note: Refer to plans for details</p>
1014 (1) b2	PRE-PAINTED METAL SHEETS (RIB TYPE)	246.95	sq.m	<p>-item covers the installation of pre-painted metal sheets</p> <p>-specs are as follows: H-frame/GI pipe scaffolds Power Tools Minor tools (10% Labor) Pre-painted Rib Type GI sheet gauge 24</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Ridge Roll, G26 Pre painted flashing G26 x2.44m Tek screw Note: Refer to plans for details Note: Refer to INFRA for color and design approval before installation
1018 (7)	GLAZED TILES	4.53	sq.m	-item covers the tiling of counter tops, comfort rooms walls -specs are as follows: Power Tools Minor Tools (10% of labor) Glazed Tiles, 600x600mm Fine Sand Portland Cement Tile Adhesive Tile Grout Tile Cutter Disk Stainless Steel Tile Trim Note: Refer to plans for details Note: Refer to INFRA for color and design approval before installation
1027 (1)	CEMENT PLASTER FINISH	556.82	sq.m	-item covers the plastering of the new CHB walls as specified in the plans -specs are as follows: Minor tools Power Tools (Sander) Portland Cement Fine sand Note: Refer to plans for details
1032(1)a	PAINTING WORKS (MASONRY/CONCRETE)	305.08	sq.m	-item covers the repainting of the whole building's interior and exterior -specs are as follows: minor tools(10% of labor) Roller brush with pan Flat Latex White (First coat) Roller Brush foam Final coat Paint Brush x 100 Masonry Neutralizer Paint Brush x 75 Masonry Putty Sand Paper Note: Refer to plans for details Note: Refer to INFRA for color and design approval before painting
1046(2)	CHB NON-BEARING INCLUDING RSB	246.53	sq.m	-item covers the laying of CHB as specified in the plans -specs are as follows: Minor tools 4" thk. CHB Fine sand portland cement 10mm dia RSB grade 40, deformed no. 16 GI tie wire Note: Refer to plans for details
1047(1)	STRUCTURAL STEEL	1.00	lumpsum	-item covers the fabrication and installation of the following steel structures as specified in the plans: Welding Machine Disk Grinder/Cutter H-frame, set 2 pcs H-frames 4 pcs diagonal cross braces 4 pcs horizontal braces 8 pcs joint pins Truss (Main Building) Angle Bar, 50mm x 50mm x 3.5mm thick x 6m 16mm diameter Plain Round Bar Cross Bracing 16mm Turn Buckle 12mm x 6m Plain Round Bar Sag Rod with Nuts and Washers Truss and Perch Frame (Chicken Coop) Angle Bar, 50mm x 50mm x 3.5mm thick x 6m



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>Angle Bar, 25mm x 25mm x 3.5mm thick x 6m G.I. Pipe, 25mmØ , Schedule 40 x 6m G.I. Pipe Posts G.I. Pipe, 100mmØ , Schedule 40 x 6m G.I. Pipe, 50mmØ , Schedule 40 x 6m Interlinks, 50mm x 50mm, 2.7mmØ, 1.22m x 8m roll G.I. Pipe Frame (Doors and Windows) G.I. Pipe, 50mmØ , Schedule 40 x 6m Angle Bar, 25mm x 25mm x 3.5mm thick x 6m G.I. Flat Sheet, #14 Cylindrical Hinge, Heavy Duty, 25mmØ x 75mm Round Bar, 16mmØ G.I. Pipe, 25mmØ , Schedule 40 x 6m Canal Steel Gratings Angle Bar, 25mm x 25mm x 3.5mm thick x 6m 10mmØ, G40, RSB Consumables Welding Rods Red Oxide Primer Paint Quick Dry Enamel Paint Paint Brush x 50mm Paint Brush x 100mm -all steel shall be primed and painted 1 coat red oxide primer 2 coats QDE final coat Note: Refer to plans for details Note: Refer to INFRA for color and design approval before painting</p>
1047(2)b	STRUCTURAL STEEL (PURLINS)	390.00	In.m	<p>-item covers the installation of purlins as specified in the plans: -specs are as follows: Minor tools Power Tools H-Frame/ Scaffolds Welding Machine C-Purlin, 150mm x 50mm x 2mm thick x 6m C-Purlin, 100mm x 50mm x 2mm thick x 6m Welding Rods Red Oxide Primer Paint Quick Dry Enamel Paint Paint Brush x 50mm -all purlins shall be primed and painted 1 coat red oxide primer 2 coats QDE final coat -refer to plans for details -refer to INFRA for color and design approval before painting</p>
1100	CONDUITS, BOXES AND FITTINGS	1.00	lumpsum	<p>-item covers the installation of conduits, boxes and fittings as specified in the plans -specs are as follows: Minor tools Power Tools Lighting: Flexible Conduits (PVC/uPVC) - 20mm Ø Flexible Conduit (PVC/uPVC) adapter with locknut -20mmØ PVC/uPVC Junction box PVC/uPVC Utility Box Power: Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m PVC/uPVC coupling - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC Utility Box PVC/uPVC Junction box SE to PB: Service Entrance Cap 20mmØ PVC pipe 20mmØx3m w/ coupling PVC/uPVC adapter w/ locknut - 20mm dia PVC/uPVC Junction box</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Consumables: Electrical tape (0.16mmx19mmx16m) Rubber tape (0.16mmx19mmx8m) PVC pipe cement 400ml Note: Refer to plans for details
1101	WIRES AND WIRING DEVICES	1.00	lumpsum	-item covers the installation of wires and wiring devices as specified in the plans -specs are as follows: Minor tools Power Tools Lighting 3.5mm2 THHN Cu wire stranded Duplex (2 Single Pole Wall Switches on one switch plate) Power 3.5mm2 THHN Cu wire stranded 2.0mm2 THHN Cu wire stranded green (Gnd) Duplex Convenience Outlets/Receptacles, 3prong (grounding type) Main Feeder: 8.0mm2 THHN Cu wire stranded 5.5mm2 THHN Cu wire stranded 80mm2 dia. Split bolt connector Service Drop Wires: Service Drop Wire #4 Secondary rack two spool assembly Note: Refer to plans for details
1102	POWER LOAD CENTER, SWITCH GEAR AND PANEL BOARD	1.00	lumpsum	-item covers the installation of wires and wiring devices as specified in the plans -specs are as follows: Minor tools Power Tools Panel Board PPA: Main: 40AT, 2P+G, 10KAIC MCCB, Bolt-On Branches: 4-20 AT, all 2P+G, Bolt-ON, 10KAIC in NEMA1 Enclosure, Flash Mounted, Grounding and Terminal Lugs ready. Note: Refer to plans for details
1103	LIGHTING FIXTURES	1.00	Lumpsum	-item covers the installation of lighting fixtures as specified in the plans -specs are as follows: Minor tools Power Tools LED T8, Weather Proof Fixture, 2x36W, Suspended, 1800lm Infrared Red Heat Lamp, 220V, Aluminum Alloy, 250W, 220V, 210mmØ x 240mm Height, With lampshade, chain and guard Note: Refer to plans for details
1200 (15) c	CEILING MOUNTED ELECTRIC FAN	2.00	sets	-item covers the procurement and installation of ceiling mounted electric fan -specs are as follows: Minor tools Power Tools Ceiling Mounted Electric Fan (Orbit Fan), 3 blade, 4 speed, 18" blade Note: Refer to plans for details
1200 (18) b	WALL MOUNTED EXHAUST FAN	4.00	sets	-item covers the procurement and installation of wall mounted exhaust fan -specs are as follows: Two Way Wall Mounted Ventilation Fan, 300x300mm, Reversible, with complete accessories Note: Refer to plans for details
SPL-I	MISCELLANEOUS ITEMS	1.00 2.00 30.00 30.00 8.00	lumpsum rolls sets sets sets	-item covers the procurement, delivery and installation of the following: Knotted Nylon Net, 10mm Cell Size, 1.22m x 27m roll Plastic Chicken Feeder, 1.5kgs Capacity, 14 grill divisions Plastic Chicken Drinker, 1.5L Capacity Chicken Coop, Solid Wood, Smooth and Varnish Finish



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				-specs are as follows: Minor tools Power Tools Welding Machine Note: Refer to plans for details
SPL-II	MISCELLANEOUS STEEL WORKS	1.00	lumpsum	-item covers the fabrication of the following: Steel Doors and Interlinks Fence G.I. Pipe, 50mmØ , Schedule 40 x 6m Angle Bar, 25mm x 25mm x 3.5mm thick x 6m G.I. Flat Sheet, #14 Cylindrical Hinge, Heavy Duty, 25mmØ x 75mm Round Bar, 16mmØ G.I. Pipe, 25mmØ , Schedule 40 x 6m Interlinks, 50mm x 50mm, 2.7mmØ, 1.22m x 8m roll Consumables Welding Rods Red Oxide Primer Paint Quick Dry Enamel Paint Paint Brush x 50mm Paint Brush x 100mm -all steel shall be primed and painted 1 coat red oxide primer 2 coats QDE final coat Note: Refer to plans for details Note: Refer to INFRA for color and design approval before painting
C. NATIVE DUCK HOUSING & BROODING FACILITY				
B.3	PERMITS & CLEARANCES	1.00	L.s.	-covers the application/ registration of building permit -scope are as follows Professional Fees for Signatories Architect Civil Engineer Sanitary Engineer Electrical Engineer/ PEE Mechanical Engineer/ PME Building Permit Processing Fee (Filing Fee) KAELCO Processing Fee BFP Permit Printing Fees (5 Sets), refer to INFRA for attachment documents Certificate of Non Coverage (CNC) Zoning Clearance NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
B.7	OCCUPATIONAL SAFETY AND HEALTH	1.00	lumpsum	-provision of safety practitioner and personal protective equipment -specifications are as follows safety gloves safety helmet safety shoes NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
604(2)	FENCING (CYCLONE WIRE)	155.00	In. m.	-covers the installation of cyclone wire for perimeter fencing -specifications are as follows Cyclone Wire Galvanized 5' Tie Wire Minor Tools (10% of Labor) Power Tools NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
800 (1)	CLEARING, GRUBBING AND LAY-OUT	1055.00	sq.m.	-item covers all the necessary clearing of the construction area from shrubs, bushes, grass, etc... -item includes the lay out of structures and perimeter fencing -specifications are as follows minor tools (10% of labor)



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>Power Tools/Grass Cutter</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
803(1)a	STRUCTURE EXCAVATION	129.89	cu. m.	<p>-item covers the manual excavation of the columns and wall footings</p> <p>-specifications are as follows minor tools (10% Labor)</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
804(1)a	EMBANKMENT (FROM STRUCTURE EXCAVATION)	137.99	cu. m.	<p>-item covers the back filling of the excavated materials from the column footing and wall footing</p> <p>-specifications are as follows minor tools (10% of labor)</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
804(4)	GRAVEL BEDDING	13.74	cu. m.	<p>-item covers the gravel bedding of all column footings and wall footing</p> <p>plate compactor 5hp 10% Minor Tools Gravel G1</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
900(1)c2	STRUCTURAL CONCRETE WORKS (FOOTINGS & SLAB ON FILL)	21.00	cu. m.	<p>-item covers the concrete pouring of the column footings and slab on fill</p> <p>-all concrete shall be class A - $f_c' \geq 21$ MPa</p> <p>specifications are as follows: minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator portland cement sand G1</p> <p>-Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063)</p> <p>-covers the provision of slump test and cylinder molds for the samples</p> <p>-4 concrete samples should be provided every concrete pouring works</p> <p>-concrete samples shall be tested for its compressive strength</p> <p>-Concrete pouring schedule shall be notified 3 days before the pouring</p> <p>-Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit</p> <p>-all concrete shall be class A = $f_c' \geq 21$ Mpa</p> <p>-coordinate with INFRA unit</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
900(1)c3	STRUCTURAL CONCRETE WORKS (TIE BEAMS & WALL FOOTINGS)	24.36	cu. m.	<p>-item covers the concrete pouring of tie beams and all wall footing of CHB fence</p> <p>-all concrete shall be class A - $f_c' \geq 21$ MPa</p> <p>-specifications are as follows minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator portland cement sand G1</p> <p>-Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063)</p> <p>-covers the provision of slump test and cylinder molds for the samples</p> <p>-4 concrete samples should be provided every concrete pouring works</p> <p>-concrete samples shall be tested for its compressive strength</p> <p>-Concrete pouring schedule shall be notified 3 days before the pouring</p>



				<ul style="list-style-type: none"> -Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -all concrete shall be class A = $f_c' \geq 21$ Mpa -coordinate with INFRA unit -refer to plans for details <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
900(1)c4	STRUCTURAL CONCRETE WORKS (COLUMNS)	6.48	cu. m.	<ul style="list-style-type: none"> -item covers the concrete pouring of the column footings and slab on fill -all concrete shall be class A - $f_c' \geq 21$ MPa -specifications are as follows <ul style="list-style-type: none"> minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator portland cement sand G1 -Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) -covers the provision of slump test and cylinder molds for the samples -4 concrete samples should be provided every concrete pouring works -concrete samples shall be tested for its compressive strength -Concrete pouring schedule shall be notified 3 days before the pouring -Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -all concrete shall be class A = $f_c' \geq 21$ Mpa -coordinate with INFRA unit -refer to plans for details <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
900(1)c6	STRUCTURAL CONCRETE WORKS (BEAMS)	1.20	cu. m.	<ul style="list-style-type: none"> -item covers the concrete pouring of the column footings and slab on fill -all concrete shall be class A - $f_c' \geq 21$ MPa -specifications are as follows <ul style="list-style-type: none"> minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator portland cement sand G1 -Portland Cement (specification of this material should pass the standard specification of ASTM C595 and PNS 063) -covers the provision of slump test and cylinder molds for the samples -4 concrete samples should be provided every concrete pouring works -concrete samples shall be tested for its compressive strength -Concrete pouring schedule shall be notified 3 days before the pouring -Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -all concrete shall be class A = $f_c' \geq 21$ Mpa -coordinate with INFRA unit -refer to plans for details <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
902(1)a1	REINFORCING STEEL BARS	3591.77	kgs.	<ul style="list-style-type: none"> -all reinforcing bars shall be grade 40, shall be subjected to tensile tests -specs are as follows: <ul style="list-style-type: none"> *GRADE 40 RSB *no. 16 GI Tie wire Minor Tools (10% of Labor) disk grinder/cutter bar bender -refer to plans for details <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>



903(2)	FORMWORKS AND FALSEWORKS	96.12	sq. m.	<p>-item covers the formworks and falseworks for the column</p> <p>-specifications are as follows minor tools (10% of labor) marine plywood 8mm thk. form lumbers lumber scaffolds common wire nails (assorted) H-frame/GI pipe scaffolds</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1001(8)	SEWER LINE WORKS	1.00	l.m	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows Pvc pipe 63.5mm dia, S-1000 x 3m Pvc 90deg. elbow 63.5mmD P-trap 63.5mmD Solvent Cement Set of Plumbing tools</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1001(9)	STORM DRAINAGE AND DOWNSPOUT	1.00	Ls	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows 75mmD PVC Moldex Pipe x 3m 75mmD 90deg. Elbow PVC Solvent 200cc Pre-painted gutter Gauge 24 x 2.44m blind rivets (1/8"Dia x 3/8") Set of Plumbing tools</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1002(8)	PLUMBING FIXTURES	1.00	l.s	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows PPR Faucet Angle valve gate valve 15mmΦ gate valve 25mmΦ teflon tape Set of Plumbing tools</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1002(24)	COLD WATER LINES	205.00	ln.m	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows Set of Plumbing tools 25mm dia x4m PPR Pipe PN 20 25mm-15mm PPR Pipe Tee Reducer 25mm-15mm PPR Pipe Elbow Reducer 25mm PPR Pipe elbow 90° 15mmdia x 4m PPR Pipe PN 20 15mm PPR Pipe elbow 90° 15mm PPR Pipe end cap Fusing Machine 600W</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1004(2)a	FINISHING HARDWARE (LOCKSET)	5.00	sets	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows minor tools (10% of labor)</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Door Lock *Note: Keys to be turned over must come with key chains indicating where the lockset is located -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1004(2)g	FINISHING HARDWARE (HINGES)	15.00	sets	^-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) Lose Pin Hinges 100mm x 100mm -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1005(5)	STEEL WINDOW	5.40	Sq.m.	^-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) Steel Casement Window with 6mm Thick Glass (Awning & Sliding Type) refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1006(6)	STEEL DOORS AND FRAMES	1.89	L.s.	^-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) D4 - Steel Screen door (0.9m x 2.1m) -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1010(2)b	DOORS WOOD PANEL	11.34	sq.m.	^-covers Item as specified in the plan specifications are as follows minor tools (10% of labor) D1 - Solid Panel Door with Door Jamb (1m x 2.1m) D2 - Solid Panel Door with Door Jamb (0.8m x 2.1m) -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1011(2)	ROLL-UP DOORS	1.00	L.s.	^-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) D3 - Roll up Door (2m x 2.5m) -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1014(1)b2	PREPAINTED METAL SHEETS(LONG SPAN-RIBB TYPE)	574.41	sq.m	^-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) Ribb type # 0.60mm x 1.06m pre-painted ridge roll 0.60mmx2.44 Tek screw C-200mmx50mmx1.5mmx6m(Fascia Board) pre painted flashing 0.70mmx2.44 Aluminum Foam Insulation 10mm thick -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1027(1)	CEMENT PLASTER FINISH	762.06	sq.m.	^-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) Portland Cement Washed Sand -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800

Bids and Awards Committee



1032(1)a	PAINTING MASONRY/ CONCRETE	693.30	sq.m.	<p>-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) Flat white Latex (1st Coat) Final Coat: a.) Exterior Wall Bridal Gown (0.15m white Stripe) Bright Green (lower part) Fresh Mint (Upper par) Masonry Neutralizer Masonry putty Sand paper Rollerbrush with pan Paint Brush x 100 Paint Brush x 75 Paint Brush x 50 Roller brush foam</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1032(1)c	PAINTING WORKS STEEL STRUCTURES	450.00	sq.m	<p>-covers Item as specified in the plan -specifications are as follows minor tools (10% of labor) Metal Primer Paint Brush x50 Paint thinner Enamel</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1046(1)a1	CHB NON LOAD BEARING (INCLUDING REINFORCEMENT)	381.03	sq.m.	<p>-item covers laying of CHB -specifications are as follows Minor Tools (10% of Labor) 4" thk. CHB sand cement no. 16 GI tie wire 10mm dia RSB</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1047(1)	STRUCTURAL STEEL	1.00	Lumpsum	<p>-covers Item as specified in the plan -specifications are as follows Minor Tools (10% of Labor) Power Tools Welding Machine 3" G.I. PIPE SCHED 40 X 6M 1.5" G.I. PIPE SCHED 40 X 6M 10mm dia RSB 2" G.I. PIPE SCHED 40 50MM X 50MM X 5MM X 6M ANGLE BAR 50MM X 75MM X 1.2MM C-PURLINS 50MM X 200MM X 1.5MM X 6M FASCIA BOARD STEEL MATTING Hog Wire 8 holes 3.5' Superfine 50% Shade Net, 1m wide x 40m long Cylindrical Hinge Plain Round Bar 16mmØ Welding Rod Primer Paint Acrylic Paint Paint Brush x 100mm Paint Brush x 50mm</p> <p>-refer to plans for details</p>



				NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
1100(10)	CONDUITS,BOXES , & FITTINGS	1.00	Ls	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows</p> <ul style="list-style-type: none"> set of power tools For lighting/ Power PVC conduit, 20mm inside diameter PVC adapter with lacknut, 20mm PVC Elbow, 20mm Utility Box (50mm x 100mm) Junction Box (Octagonal) SE to PB PVC conduit, 25mm dia PVC elbow, 25mm dia PVC locknut and adapter, 25mm dia Service Entrance cap 25mm dia <p>-refer to plans for details</p> <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1101(33)	WIRES & WIRING DEVICES	1.00	L.s.	<p>-covers Item as specified in the plan</p> <p>specifications are as follows</p> <ul style="list-style-type: none"> Power tools Wire #3.5mm² THHN copper stranded 600V (Red) Wire #5.5mm² THHN copper stranded (Red) Convenience outlet, 16A 250V 3 Pin Universal Duplex Socket Mechanism with Shutter (gray) Wide series Switch, 16A 1 Gang 1 Way Switch (Standard) (gray) Wide series Switch, 16A 2 Gang 1 Way Switch (Standard) (gray) <p>-refer to plans for details</p> <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1102	POWER LOAD CENTER, SWITCH GEAR AND PANEL BOARD	1.00	L.s.	<p>-covers Item as specified in the plan</p> <p>specifications are as follows</p> <ul style="list-style-type: none"> power tools PB Main: 40AT 2P+G, 10KAIC MCCB w/ 5-Branches: 5-20A, all 2P+G & 10KAIC in NEMA-1 Enclosure, Surface type, terminal lugs and grounding ready. PB Main: 50AT 2P+G, 10KAIC MCCB w/ 5-Branches: 5-20A, all 2P+G & 10KAIC in NEMA-1 Enclosure, Surface type, terminal lugs and grounding ready. <p>-refer to plans for details</p> <p>NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1103(1)	LIGHTING FIXTURES	1.00	L.s.	<p>-covers Item as specified in the plan</p> <p>specifications are as follows:</p> <ul style="list-style-type: none"> power tools Cool Daylight ESSENTIAL LED Tube 1200mm 18W865 T8 AP 220-240V 50-60 Hz 300x1200mm weather proof LED Surface Downlight - CDL2218DL 18 Watts, 6000K, Daylight, 1500 Lumens, 10,000 Life Hours, 110-240V, BA 120, Model - CDL2218DLsimilar to firefly ecolum Cool Daylight ESSENTIAL LED Tube 1200mm 18W865 T8 AP 220-240V 50-60 Hz 300x1200mm 100W Heating Lamp Warm White LED indoor complete with mounting accessories and wires <p>-refer to plans for details</p>
SPL-1	MISCELLANEOUS ITEMS	1.00	L.s.	-covers Item as specified in the plan



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				-specifications are as follows: Minor Tools (10% of Labor) Egg Incubator 1056-Egg Fully Automatic Digital Controls -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
D. NATIVE PIG OPEN RANGE				
B.3	PERMITS & CLEARANCES	1.00	L.s.	-covers the application/ registration of building permit scope are as follows Professional Fees for Signatories Architect Civil Engineer Sanitary Engineer Electrical Engineer/ PEE Mechanical Engineer/ PME Building Permit Processing Fee (Filing Fee) KAELCO Processing Fee BFP Permit Printing Fees (5 Sets), refer to INFRA for attachment documents Certificate of Non Coverage (CNC) Zoning Clearance NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
B.7	OCCUPATIONAL SAFETY AND HEALTH	1.00	lumpsum	-provision of safety practitioner and personal protective equipment -specifications are as follows safety gloves safety helmet safety shoes NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
604(2)	FENCING (CYCLONE WIRE)	441.00	ln.m	'-covers Item as specified in the plan -specifications are as follows Power Tools Minor Tools (10% of Labor) Minor Tools (10% of Labor) Cyclone Wire Galvanized 4' -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
800 (1)	CLEARING, GRUBBING AND LAY-OUT	115.76	sq.m.	'-covers Item as specified in the plan specifications are as follows minor tools (10% of labor) Power Tools (Grass Cutter) -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
803(1)a	STRUCTURE EXCAVATION	72.76	cu. m.	'-covers Item as specified in the plan -specifications are as follows minor tools (10% Labor) -refer to plans for details
804(1)a	EMBANKMENT (FROM STRUCTURE EXCAVATION)	52.04	cu. m.	'-covers Item as specified in the plan specifications are as follows minor tools (10% of labor) -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
804(4)	GRAVEL BEDDING	26.35	cu. m.	'-covers Item as specified in the plan specifications are as follows minor tools (10% of labor) 10% Minor Tools



				Gravel (G1) -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
900(1)c2	STRUCTURAL CONCRETE WORKS (FOOTINGS & SLAB ON FILL)	39.67	cu. m.	<ul style="list-style-type: none"> -covers Item as specified in the plan -all concrete shall be class A - fc' ≥ 21 MPa -specifications are as follows <ul style="list-style-type: none"> minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator Water Truck portland cement sand gravel G1 -Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) -covers the provision of slump test and cylinder molds for the samples -4 concrete samples should be provided every concrete pouring works -concrete samples shall be tested for its compressive strength -Concrete pouring schedule shall be notified 3 days before the pouring -Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -all concrete shall be class A = fc' ≥ 21 Mpa -coordinate with INFRA unit -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
900(1)c3	STRUCTURAL CONCRETE WORKS (WALL FOOTINGS)	19.85	cu. m.	<ul style="list-style-type: none"> -covers Item as specified in the plan -all concrete shall be class A - fc' ≥ 21 MPa -specifications are as follows <ul style="list-style-type: none"> minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator Water Truck portland cement sand S1 gravel G1 -Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) -covers the provision of slump test and cylinder molds for the samples -4 concrete samples should be provided every concrete pouring works -concrete samples shall be tested for its compressive strength -Concrete pouring schedule shall be notified 3 days before the pouring -Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -all concrete shall be class A = fc' ≥ 21 Mpa -coordinate with INFRA unit -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry
900(1)c4	STRUCTURAL CONCRETE WORKS (COLUMNS)	10.08	cu. m.	<ul style="list-style-type: none"> -covers Item as specified in the plan -all concrete shall be class A - fc' ≥ 21 MPa specifications are as follows <ul style="list-style-type: none"> minor tools (10% of labor) one-bagger concrete mixer mixing box portable concrete vibrator Water Truck portland cement sand S1 gravel G1 -Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063)



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				<p>-covers the provision of slump test and cylinder molds for the samples -4 concrete samples should be provided every concrete pouring works -concrete samples shall be tested for its compressive strength -Concrete pouring schedule shall be notified 3 days before the pouring -Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -all concrete shall be class A = $f_c' \geq 21$ Mpa -coordinate with INFRA unit -refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
902(1)a1	REINFORCING STEEL BARS	3770.10	kgs.	<p>-all reinforcing bars shall be grade 40, shall be subjected to tensile tests-specs are as follows: *GRADE 40 RSB *no. 16 GI Tie wire Minor Tools (10% of Labor) disk grinder/cutter bar bender</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
903(2)	FORMWORKS AND FALSEWORKS	168.00	sq. m.	<p>-item covers the formworks and falseworks for the column -specifications are as follows minor tools (10% of labor) 1/2" Phenolic Board form lumbers lumber scaffolds common wire nails (assorted)</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1002(8)	PLUMBING FIXTURES	1.00	L.s.	<p>-covers Item as specified in the plan</p> <p>-specifications are as follows Set of Plumbing tools PPR Faucet gate valve 25mmΦ teflon tape 15mmΦ stainless pig drinker</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1002(24)	COLD WATER LINES	275.45	ln.m	<p>-covers Item as specified in the plan</p> <p>specifications are as follows Set of Plumbing tools 25mm dia x4m PPR Pipe PN 20 25mm PPR Pipe union patente 25mm-15mm PPR Pipe Tee 25mm-15mm PPR Pipe Elbow Reducer 25mm PPR Pipe elbow 90°</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>
1014(1)a2	PREPAINTED METAL SHEETS(SHORT SPAN-RIBB TYPE)	385.65	sq.m	<p>-covers Item as specified in the plan</p> <p>specifications are as follows minor tools (10% of labor) power tools Rib type # 0.50mm x 1.06m pre-painted ridge roll 0.60mmx2.44 Tekscrew pre painted flashing 0.70mmx2.44</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



1027(1)	CEMENT PLASTER FINISH	568.80	sq.m.	<p>-covers Item as specified in the plan specifications are as follows Minor tools (10% Labor) Portland Cement Washed Sand</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>	-
1032(1)c	PAINTING WORKS STEEL STRUCTURES	237.52	sq.m	<p>-covers Item as specified in the plan specifications are as follows Metal Primer Paint Brush x50 Paint thinner Enamel</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>	-
1046(1)a1	CHB NON LOAD BEARING (INCLUDING REINFORCING STEEL)	372.60	sq.m.	<p>-covers Item as specified in the plan specifications are as follows Minor Tools (10% of Labor) 4" thk. CHB sand cement no. 16 GI tie wire pcs.-10mm dia RSB</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>	-
1047(1)	STRUCTURAL STEEL	1.00	L.s.	<p>-covers Item as specified in the plan specifications are as follows Minor Tools (10% of Labor) Power Tools Welding Machine 2" G.I. PIPE SCHED 40 X 6M 50MM X 50MM X 5MM X 6M ANGLE BAR 50MM X 75MM X 1.2MM C-PURLINS Welding Rod</p> <p>-refer to plans for details NOTE: -refer to INFRA for necessary documents/ attachment and Inquiry</p>	-
E. STREET LIGHTING					
B.7	OCCUPATIONAL SAFETY & HEALTH PROGRAM	1.00	set	<p>-covers item specified in the plans -specs are as follows:</p> <p>safety gloves safety helmet safety shoes caution tape 3"x300m</p>	
624(1) b1	SINGLE ARM POST, WITH STREET LIGHT	1.00	Ls	<p>-covers the installation of solar street lighting to existing poles/new poles. -specs are as follows:</p> <p>8m LED lamp post/ pole bracket type single arm with footing and pedestal column. (refer to plans) LED Solar Street Light 200W SMD Premium Industrial Type II. Solar Panel: Monocrystalline, Light Source: High Brightness SMD LED, Color Temp.: 6000-6500K, Visual Angle: 120degrees, Material: Aluminum Housing, Battery Type: Lithium Battery, Motion Sensor: With Built-in Motion Sensor (Optional Option: Customized steady lighting that slowly reduce brightness from 100% to 0% in 12 hours)</p> <p>Note: Refer to INFRA for plan/ setting locations.</p>	



				Note: all lighting fixtures should be approved first before installation.
F. WAREHOUSE AND STORAGE FACILITY INITIAL PHASE				
B.3	PERMIT AND CLEARANCES	1.00	lumpsum	-covers processing of permits and clearances -specifications are as follows *Building Permit *BFP Permit *Professional Fees of asignatories KAELCO Processing Fee *Note: Plans are signed and sealed, Printing of Plans are also included
B.4 (10)	MISCELLANEOUS SURVEY AND STAKING	1.00	days	-covers item floor area indicated in the plan includes the survey, staking and laying out of the project site includes Site Development Plan and Vicinity Map report duly signed by qualified engineer -specifications are as follows Geodetic Engineer Rodman Recorder Minor Tools Survey Instrument (Total Station) -coordinate with INFRA personnel
B.5	PROJECT BILLBOARD/SIGNBOARD	1.00	set	-covers the fabrication of the project billboard (4'x8') -specifications are as follows Marine Plywood 1/4" thk. good lumber (well-seasoned) tarpauline(4' x 8') CWN(assorted) -coordinate with INFRA personnel
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	lumpsum	-provision of mandatory PPE of workers on site First Aid Kit Personal Protective Equipment (PPE) a. safety gloves b. safety helmet c. safety shoes d. Fall Arrest Shock Safety Harness e. Safety Goggles f. Safety Vest/ Reflective Vest -provision of signages and barricades around the site Signages and Barricades a. PPE Signage (4x8ft) b. Safety First (2x3ft) c. Warning Signs (2x3ft) d. Caution Tape (75mmx300m) -provision of Health and Safety Practitioner to monitor the safety of the site -specifications are as follows Safety Officer/ Practitioner (part time) First Aider
B.9	MOBILIZATION/ DEMOBILIZATION	1.00	lumpsum	-covers the cost of the mobilization of labor, materials, equipments and other necessities 0.75% of the total direct cost
800 (1)	CLEARING AND GRUBBING	120.00	sq.m	-covers item floor area indicated in the plan clearing of construction site from obstructions etc. -specifications are as follows Minor Tools(10% of Labor) Dump Truck (9.17 cu.m)
803(1)a	STRUCTURE EXCAVATION	28.80	cu. m.	-covers item floor area indicated in the plan -specifications are as follows Minor Tools (10% Labor) Back Hoe (0.80 cu.m)
804(1)b	EMBANKMENT FROM BORROW	25.92	cu. m.	-covers item floor area indicated in the plan -scope includes the grading and compacting of the soil specified in the plans -specifications are as follows Minor Tools(10% of Labor)



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Dump Truck (9.17 cu.m)
804(4)	GRAVEL FILL	3.32	cu. m.	<ul style="list-style-type: none"> -covers item floor area indicated in the plan -scope includes the grading and compacting of the gravel fill specified in the plans -specifications are as follows <ul style="list-style-type: none"> plate compactor 5hp
1000(1)	TERMITE CONTROL (SOIL POISONING)	96.00	sq.m	<ul style="list-style-type: none"> -covers item floor area indicated in the plan -scope includes the soil poisoning of the ground for the slab on fill -specifications are as follows <ul style="list-style-type: none"> Chemical spray equipment Lentrex soil poisoning solution or any equivalent material
900 (1) c1	STRUCTURAL CONCRETE (SLAB ON FILL, STAIRS & CANOPY)	6.47	cu. m.	<ul style="list-style-type: none"> -covers item floor area indicated in the plan -specifications are as follows <ul style="list-style-type: none"> *(refer to structural general notes) Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c2	STRUCTURAL CONCRETE (FOOTING)	4.84	cu. m.	<ul style="list-style-type: none"> -all concrete shall be class A = $fc' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specifications are as follows <ul style="list-style-type: none"> Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c3	STRUCTURAL CONCRETE (GROUND TIE BEAM)	4.83	cu. m.	<ul style="list-style-type: none"> -all concrete shall be class A = $fc' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specifications are as follows <ul style="list-style-type: none"> Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the



				<p>samples</p> <p>3 concrete samples should be provided every concrete pouring works</p> <p>concrete samples shall be tested for its compressive strength</p> <p>Concrete pouring schedule shall be notified 3 days before the pouring</p> <p>Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit</p> <p>1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened</p>
900 (1) c4	STRUCTURAL CONCRETE (COLUMNS)	6.52	cu. m.	<p>-all concrete shall be class A = $f_c' \geq 21$ Mpa or 3000 psi</p> <p>*(refer to structural general notes)</p> <p>-specs are as follows:</p> <p>Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples</p> <p>3 concrete samples should be provided every concrete pouring works</p> <p>concrete samples shall be tested for its compressive strength</p> <p>Concrete pouring schedule shall be notified 3 days before the pouring</p> <p>Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit</p> <p>1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened</p>
900 (1) c5	STRUCTURAL CONCRETE (SUSPENDED SLAB)	5.08	cu. m.	<p>-all concrete shall be class A = $f_c' \geq 21$ Mpa or 3000 psi</p> <p>*(refer to structural general notes)</p> <p>-specs are as follows:</p> <p>Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples</p> <p>3 concrete samples should be provided every concrete pouring works</p> <p>concrete samples shall be tested for its compressive strength</p> <p>Concrete pouring schedule shall be notified 3 days before the pouring</p> <p>Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit</p> <p>1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened</p>
900 (1) c6	STRUCTURAL CONCRETE	4.38	cu. m.	<p>-all concrete shall be class A = $f_c' \geq 21$ Mpa or 3000 psi</p> <p>*(refer to structural general notes)</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



	(BEAMS/GIRDERS)			<p>-specs are as follows: Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened</p>
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	4,404.18	kgs.	<p>A.S.T.M. A615 GRADE40 for diameter 12mm and smaller bars deformed bars (fy=275MPa) *(refer to structural general notes) -specs are as follows: Reinforcing bars should be validated and checked before fabrication and installation. Fabrication and installation shall not proceed without proper inspection of the reinforcing bars. RSB testing shall be done every 10,000kg of different diameters accordingly RSB from different suppliers shall also be tested and validated upon delivery Disk grinder/ cutter Bar Bender no. 16 GI Tie wire</p>
903(2)	FORMS & FALSEWORKS	218.90	sq.m	<p>-covers item structural concrete members -staging & scaffoldings should be H-frame/GI scaffolds -specs are as follows: 3/4" thk. Phenolic board Good lumbers (well-seasoned) common wire nails (assorted)</p>
1001(8)	SEWER LINE WORKS	1.00	lumpsum	<p>-covers sewerline rough-in installation as specified in the plan -specs are as follows: uPVC Pipe, 100mm Ø x 3m, S-1000 uPVC Pipe, 75mm Ø x 3m, S-1000 Fittings: Wye, 100mmØ Wye, 75mmØ Double Wye, 100mmØ Double Wye, 75mmØ Elbow, 100mm x 135 deg. Bend Elbow, 75mm x 135 deg. Bend Elbow, 75mm x 90 deg. Bend 100mmØ P-Trap 75mmØ P-Trap Wye Reducer, 100mmØ x 75mmØ Clean-out with cover, 100mmØ PVC Solvent, 400cc Vent Cap</p>
1002(28)	COLD WATER LINES	1.00	lumpsum	<p>-covers waterline rough-in installation as specified in the plan -specs are as follows: PPR-Pipe 25mm Ø x 4m, PN20 PPR-Pipe 25mm Ø x 4m, PN20 Fittings: PPR-Pipe Elbow, 25mm Ø x 90 deg bend PPR-Pipe Elbow, 16mm Ø x 90 deg bend PPR-Pipe TEE 25mm Ø</p>



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				PPR-Pipe TEE 16mm Ø PPR-Pipe Reducer 25mm Ø-16mm Ø Gate Valve, 25mm Ø Check valve, 25mm Ø Water Meter, 1/2" Fittings
1010(2)b	DOORS (WOOD PANEL)	1.89	sq.m.	-covers item wooden door as specified in the plan -specs are as follows: D-2 Solid core Hdf swing door in choco brown finish (1 set)(.9m x 2.1m x 40mm thk.) Door accessories
1011	ROLLING UP DOORS	8.80	sq.m.	-covers item roll up doors -specs are as follows ROLLING UP DOOR w/ accessories (1set)
1027(1)	CEMENT PLASTER FINISH	95.35	sq.m.	-covers CHB installation as specified in the plan -specs are as follows Plastering sand(s1) Portland cement (Cement specification should pass the standard specification of ASTM C595 and PNS 063)
1046(2)a1	CHB NON LOAD BEARING (INCLUDING RSB) 4"	95.35	sq.m.	-covers plastering of CHB walls as specified in the plan -specs are as follows 4" thk. CHB Washed Sand Portland Cement 10mm dia RSB grade 40 no. 16 GI tie wire
1100(30)	CONDUITS, BOXES AND FITTINGS	1.00	lumpsum	-covers installation of electrical conduits and fittings as specified in the plan -specs are as follows Service Entrance to PB: Service Entrance Cap 32mm dia. Polyvinyl Chloride Pipes (PVC/uPVC) - 32mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 32mm dia PVC/uPVC long elbow - 32mm dia Lighting: GF: Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC coupling - 20mm dia PVC/uPVC Utility Box PVC/uPVC Octagonal Junction Boxes Power: Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC coupling - 20mm dia PVC/uPVC Utility Box Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC coupling - 20mm dia PVC/uPVC Utility Box Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC coupling - 20mm dia PVC/uPVC Utility Box Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m Adaptor w/ Bushing (PVC/uPVC) - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC coupling - 20mm dia



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				PVC/uPVC Utility Box
1101(42)	WIRES AND WIRING DEVICES	1.00	lumpsum	<p>-covers installation of electrical wires & wiring devices as specified in the plan</p> <p>-specs are as follows</p> <p>Service Entrance to MAIN:</p> <p>14mm² THHN Cu wire stranded</p> <p>8.0mm² THHN Cu wire stranded (Gnd)</p> <p>Split bolt Connector</p> <p>Two Spool Secondary Rack</p> <p>Lighting:</p> <p>3.5mm² THHN Cu wire stranded</p> <p>Single Pole Wall Switch on one switch plate</p> <p>Duplex (2 Single Pole Wall Switches on one switch plate)</p> <p>Triplex (3 Single Pole Wall Switches on one switch plate)</p> <p>Power:</p> <p>3.5mm² THHN Cu wire stranded</p> <p>2.0mm² THHN Cu wire stranded</p> <p>Duplex Convenience Outlets/Receptacles, 3prong (grounding type)</p> <p>SPO</p> <p>3.5mm² THHN Cu wire stranded</p> <p>2.0mm² THHN Cu wire stranded</p> <p>Heavy Duty Convenience Outlet/Receptacles Duplex 20A (SPO)</p> <p>FDAS</p> <p>3.5mm² THHN Cu wire stranded</p> <p>2.0mm² THHN Cu wire stranded</p> <p>Fire Horn with Flashin Strobe</p> <p>Addressable Manual Pull Station</p> <p>Smoke Detector wireless</p> <p>Exhaust Fan</p> <p>3.5mm² THHN Cu wire stranded</p> <p>2.0mm² THHN Cu wire stranded</p> <p>Duplex Convenience Outlets/Receptacles, 3prong (grounding type)</p> <p>Service Drop Wire No. 4 AWG</p>
1102(27)	POWERLOAD CENTER, SWITCHGEAR AND PANELBOARDS	1.00	lumpsum	<p>-covers installation of electrical switchgear & panelboards as specified in the plan</p> <p>-specs are as follows</p> <p>PB</p> <p>Main: 60AT, 2P+G, 10KAIC MCCB, Bolt-On Branches: 6-20 AT, AT all 2P+G, Bolt-ON, 10KAIC in NEMA1 Enclosure, Surface Mounted, Powder Coated, Grounding and Terminal Lugs Ready.</p>
1103	LIGHTING FIXTURES	1.00	lumpsum	<p>-covers installation of electrical lightning fixtures as specified in the plan</p> <p>-specs are as follows</p> <p>PB</p> <p>2x40 Louver Housing Surface Mount 12"x48" 300x1200mm,</p> <p>2 pcs 1200mm T8 Tube Lights 1800 Lm, Daylight, Metal Sheet Housing, Mirrorized Reflector, G13, Surface Mount, Double End, IP 40</p> <p>Ceiling lamp, 20Watts, 1800Lm, 6000 Daylight, 385x350x90mm, 230V,60Hz, Suraface Mounted.</p> <p>LED Ultrabright Emergency Light 2x15W SMD LED, 2600 lumens 6V 4.5Ah Lead-Acid Battery, 220-240VAC 50/60Hz Charging Time: 24hrs Operating Time: 3hrs (double lamp) 4hrs (single lamp)</p>
SPL-I	ELECTRICAL POST	1.00	lumpsum	<p>-covers installation of electrical post as specified in the plan</p> <p>-specs are as follows</p> <p>Secondary Rack Two Spool Assembly</p> <p>Welding Rod</p> <p>Metal Screw 3/4" x 150mm dia.</p> <p>Metal Washer 150mm dia. Hole</p> <p>#14 Tie Wire</p> <p>Split Bolt Connector</p>



				Kilowatt Meter with Base Fabricated GI Steel Post: Reinforcing Steel Bars (16mm dia.) Portland Cement Washed Sand Crushed Gravel (G1) GI Pipe 4" x 6m #16 Tie Wire 1/2" THK Phenolic Board
G. CONCRETE WATER TANK				
B.4 (10)	MISCELLANEOUS SURVEY AND STAKING	1.00	days	-covers item floor area indicated in the plan includes the survey, staking, and laying out of the project site includes Site Development Plan and Vicinity Map report duly signed by a qualified engineer -specifications are as follows Geodetic Engineer Rodman Recorder Minor Tools Survey Instrument (Total Station) -coordinate with INFRA personnel
B.5	PROJECT BILLBOARD/SIGNBOARD	1.00	set	-covers the fabrication of the project billboard (4'x8') -specifications are as follows Marine Plywood 1/4" thk. good lumber (well-seasoned) tarpauline(4' x 8') CWN(assorted) -coordinate with INFRA personnel
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	lumpsum	-provision of mandatory PPE of workers on site First Aid Kit Personal Protective Equipment (PPE) a. safety gloves b. safety helmet c. safety shoes d. Fall Arrest Shock Safety Harness e. Safety Goggles f. Safety Vest/ Reflective Vest -provision of signages and barricades around the site Signages and Barricades a. PPE Signage (4x8ft) b. Safety First (2x3ft) c. Warning Signs (2x3ft) d. Caution Tape (75mmx300m) -provision of Health and Safety Practitioner to monitor the safety of the site -specifications are as follows Safety Officer/ Practitioner (part time) First Aider
B.9	MOBILIZATION/ DEMOBILIZATION	1.00	lumpsum	-covers the cost of the mobilization of labor, materials, equipment and other necessities 0.75% of the total direct cost
800 (1)	CLEARING AND GRUBBING	171.61	sq.m	-covers item floor area indicated in the plan clearing of construction site from obstructions etc. -specifications are as follows: Minor Tools(10% of Labor) Dump Truck (9.17 cu.m)
803(1)a	STRUCTURE EXCAVATION	46.75	cu. m.	-covers item floor area indicated in the plan -specifications are as follows Minor Tools (10% Labor) Back Hoe (0.80 cu.m)
804(1)b	EMBANKMENT FROM BORROW	38.81	cu. m.	-covers item floor area indicated in the plan -scope includes the grading and compacting of the soil specified in the plans -specifications are as follows Minor Tools(10% of Labor)



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				Dump Truck (9.17 cu.m)
804(4)	GRAVEL FILL	2.33	cu. m.	<ul style="list-style-type: none"> -covers item floor area indicated in the plan -scope includes the grading and compacting of the gravel fill specified in the plans -specifications are as follows <ul style="list-style-type: none"> plate compactor 5hp
1000(1)	TERMITE CONTROL (SOIL POISONING)	17.64	sq.m	<ul style="list-style-type: none"> -covers item floor area indicated in the plan -scope includes the soil poisoning of the ground for the slab on fill -specifications are as follows <ul style="list-style-type: none"> Chemical spray equipment Lentrex soil poisoning solution or any equivalent material
900 (1) c1	STRUCTURAL CONCRETE (WATER TANK)	9.86	cu. m.	<ul style="list-style-type: none"> -covers item floor area indicated in the plan -specifications are as follows *(refer to structural general notes) Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided for every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring the Infrastructure Unit has conducted the inspection 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c2	STRUCTURAL CONCRETE (FOOTING)	6.17	cu. m.	<ul style="list-style-type: none"> -all concrete shall be class A = $fc' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specifications are as follows <ul style="list-style-type: none"> Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c3	STRUCTURAL CONCRETE (GROUND TIE BEAM)	2.28	cu. m.	<ul style="list-style-type: none"> -all concrete shall be class A = $fc' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specifications are as follows <ul style="list-style-type: none"> Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c4	STRUCTURAL CONCRETE (COLUMNS)	9.90	cu. m.	-all concrete shall be class A = $f_c' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specs are as follows: Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c5	STRUCTURAL CONCRETE (SUSPENDED SLAB)	4.21	cu. m.	-all concrete shall be class A = $f_c' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specs are as follows: Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
900 (1) c6	STRUCTURAL CONCRETE (BEAMS/GIRDERS)	8.12	cu. m.	-all concrete shall be class A = $f_c' \geq 21$ Mpa or 3000 psi *(refer to structural general notes) -specs are as follows: Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples 3 concrete samples should be provided every concrete pouring works concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



				pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed Sand (S-1) Crushed Gravel (G-3/4) and (G-1), washed and screened
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	2,184.18	kgs.	A.S.T.M. A615 GRADE40 for diameter 12mm and smaller bars deformed bars (fy=275MPa) *(refer to structural general notes) -specs are as follows: Reinforcing bars should be validated and checked before fabrication and installation. Fabrication and installation shall not proceed without proper inspection of the reinforcing bars. RSB testing shall be done every 10,000kg of different diameters accordingly RSB from different suppliers shall also be tested and validated upon delivery Disk grinder/ cutter Bar Bender no. 16 GI Tie wire
902(1)a2	REINFORCING STEEL BARS (GRADE 60)	4,269.62	kgs.	A.S.T.M. A615 GRADE60 for diameter 12mm and greater deformed bars (fy=414MPa) *(refer to structural general notes) -specs are as follows: Reinforcing bars should be validated and checked before fabrication and installation. Fabrication and installation shall not proceed without proper inspection of the reinforcing bars. RSB testing shall be done every 10,000kg of different diameters accordingly RSB from different suppliers shall also be tested and validated upon delivery Disk grinder/ cutter Bar Bender no. 16 GI Tie wire
903(2)	FORMS & FALSEWORKS	278.87	sq.m	-covers item structural concrete members -staging & scaffoldings should be H-frame/GI scaffoldings -specs are as follows: 3/4" thk. Phenolic board Good lumbers (well-seasoned) common wire nails (assorted)
1016	CEMENTITIOUS WATER PROOFING	92.16	sq.m.	-covers item structural concrete wall & slab of water tank -specs are as follows: portland cement Boysen Plexibond roller with pan
1047	METAL STRUCTURES	101.91	kgs.	-covers item specified in the plan Metal Structure MS PLATE CHECKERED FY36 3mm ANGULAR BAR A36 2"x2"x2.5mm FLAT BAR A36 2"x2.5mm GI PIPE SCHED 40 38mmø Consumables Oxygen Tank Acetylene Tank Welding Rods *(refer to structural general notes)
1032(1)c	PAINTING WORKS (METAL STRUCTURES)	31.39	sq.m	-covers item metal structures Item covers the painting of steel structures with anti-rust paint Steel structures shall be shot blasted before painting All paint samples shall be approved first by the infrastructure



				unit before application -specs are as follows Compressed Air Spray Paint H-frame/GI pipe scaffolds Red Oxide Metal Primer Paint Brush x 100 Paint Brush x 75
SPL-I	WATER DISTRIBUTION LINE	1.00	lumpsum	-covers item as specified in the plans -specs are as follows Downfeed, Drain, and Overflow 75mmØ, G.I. Pipe 75mmØ, Steel Globe Valve, Threaded Pipe Sleeve Distribution Line Main Branch Line- High-density polyethylene HDPE SDR11 ø50mm (100m) Distribution Line- High density polyethylene HDPE SDR11 ø25mm (100m) Compression Tee Reducer, 50x50x25 Compression Elbow, 50mmØ Compression Elbow, 25mmØ Plastic Globe Valve, 50mmØ Compression Coupling, 50mmØ Compression Coupling, 25mmØ Solvent Cement
H. WELL-DRILLING FOR LIVESTOCK FACILITIES				
SPL-I	WELL DRILLING	1.00	lumpsum	-covers the drilling of well -item covers the following specifications Well Drilling -item includes the survey and water detection on site -item includes rental of drilling equipments, consumables (gas/diesel, lubricants, etc.), labor, tools, mobilization and demobilization, and all necessary accessories -the well's volumetric capacity shall be tested wherein a steady supply of water shall be produced in a time span of 45 to 90 minutes -item includes the survey and water detection on site -Well Casing, 100mmØ, G.I. Pipe, Schedule 40 shall be provided and used
1201	WATER PUMPING SYSTEM	1.00	lumpsum	-item covers the installation of submersible pump -specifications are as follows Minor Tools (10% of Labor) Power Tools Water Pumping System Submersible Pump, 2HP, 20 stages pump, 1-1/4" NPT, 10gpm average, with complete control panels and accessories Royal Cord Wire, 5.5mmØ HDPE Pipe, 32mm, SDR 11, 100m Compression Elbow, 32mm, 90deg Compression Coupling, 32mm Compression Tee, 32mm Plastic Globe Valve, 32mmØ



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800

Bids and Awards Committee



Section VII. Drawings

****The actual Drawings, including site plans, are annexed in separate attachments/pages.***



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CERTIFICATE NO.: SCP0005440

Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga 3800

Bids and Awards Committee



Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



ISO 9001:2015 CERTIFIED
 CERTIFICATE NO.: SCP0005440

PAB ACCREDITED QMS
 CERTIFICATION BODY
 MSA-008

Bill of Quantities

ITEM NO.	DESCRIPTION	QTY	UNIT	Unit Price (in Pesos)	Total Cost (in Pesos)
A. MEAT PROCESSING, POULTRY DRESSING PLANT & SLAUGHTER HOUSE					
B.3	PERMITS AND CLEARANCES	1.00	set		
B.5	PROJECT BILLBOARD/SIGNBOARD	1.00	set		
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	Ls		
800 (1)	CLEARING GRUBBING AND LAYOUT	792.00	sq.m		
803(1)a	STRUCTURAL EXCAVATION (COMMON SOIL)	330.23	cu.m		
804(1)a	EMBANKMENT FROM STRUCTURE EXCAVATION	181.53	cu.m		
804(4)	GRAVEL BEDDING	45.96	cu.m		
900(1)c1	STRUCTURAL CONCRETE (Ready Mix, Class A, 28 Days)	225.33	cu.m		
		37537.9			
902(1)a1	REINFORCING STEEL BARS (GRADE 60)	2	kgs		
903(2)	FORMS & FALSEWORKS	1093.40	sq.m		
1000(1)	SOIL POISONING (TERMITE CONTROL)	52.80	L		
1001(6)b	CATCH BASIN (CHB)	14.00	each		
1001(8)	SEWER LINE WORKS	1.00	Ls		
1001(9)	STORM DRAINAGE AND DOWNSPOUT	1.00	Ls		
1002(8)	PLUMBING FIXTURES AND FITTINGS	1.00	Ls		
1002(28)	COLD WATER LINES	1.00	Ls		
1003(1)a1	CEILING (4.5MM FIBER CEMENT BOARD ON METAL FRAME CEILING)	202.75	sq.m		
1003(1)e2	SPANDREL CEILING	116.00	sq.m		
1003(16)	PRESSURIZED LAMINATED WOOD PARTICLES	23.30	sq.m		
1004(2)a	LOCKSET	22.00	sets		
1004(2)g	HINGE	10.00	sets		
1006(5)	STEEL DOORS AND FRAMES (FIRE EXIT)	8.40	sq.m		
1007(1)a	ALUMINUM GLASS DOOR (SLIDING TYPE)	5.78	sq.m		
1007(1)b	ALUMINUM GLASS DOOR (SWING TYPE)	12.00	sq.m		
1008(1)a	ALUMINUM GLASS WINDOW (SLIDING TYPE)	35.24	sq.m		
1008(1)d	ALUMINUM GLASS WINDOW (FIXED TYPE)	55.39	sq.m		
1010(1)	WOODEN DOOR JAMB	10.00	sets		
1010(2)b	WOOD PANEL DOOR	18.90	sq.m		
1011(1)b	ROLL-UP DOOR	14.07	sq.m		
1013(2)a	FABRICATED METAL ROOFING ACCESSORY (RIDGE ROLL)	37.00	ln.m		
1013(2)b	FABRICATED METAL ROOFING ACCESSORY (FLASHING)	131.56	ln.m		
1013(2)c	FABRICATED METAL ROOFING ACCESSORY (GUTTER)	110.00	ln.m		
1014(1)b2	PRE-PAINTED METAL SHEETS (RIB TYPE, LONG SPAN)	385.90	sq.m		
1018(1)	GLAZED TILES	85.79	sq.m		
1018(2)	UNGLAZED TILES	32.63	sq.m		
1027(1)	CEMENT PLASTER FINISH	2099.86	sq.m		
1032(1)a	PAINTING WORKS (MASONRY/CONCRETE)	2099.86	sq.m		
1032(1)b	PAINTING WORKS (CEILING)	302.51	sq.m		
1038(1)	REFLECTIVE INSULATION	385.90	sq.m		
1046(2)a1	100mm CHB NON-LOAD BEARING (including rsb)	273.64	sq.m		
1046(2)a2	150mm CHB NON-LOAD BEARING (including rsb)	524.89	sq.m		
1047(2)a	STRUCTURAL STEEL (TRUSS)	3098.00	kgs		
1047(2)b	STRUCTURAL STEEL (PURLINS)	4015.93	kgs		
1053(1)	MISCELLANEOUS HARDWARES (STEEL TUBULAR MOULDINGS)	474.00	ln.m		
1100(30)	CONDUITS BOXES AND FITTINGS	1.00	Ls		
1101(42)	WIRES AND WIRING DEVICES	1.00	Ls		
1102(27)	POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS	1.00	Ls		
1102(10)	POLE MOUNTED TRANSFORMER	1.00	Ls		
1103.00	LIGHTING FIXTURES	1.00	Ls		
1200 (18) b	VENTILATION FAN (wall mounted)	8.00	set/s		
1202 (24)	FIRE EXTINGUISHER (10lbs, CO2/ HCFC123 with bracket)	7.00	set/s		



a3					
1208.00	FIRE ALARM PROVISION	1.00	Ls		
SPL-I	SEPTIC TANK	2.00	each		
SPL-II	FLOORING SYSTEM	530.94	sq.m		
SPL-III	AIR CURTAIN	6.00	sets		
SPL-IV	LETTERINGS	1.00	Ls		
SPL-V	SLAUGHTER AREA EQUIPMENTS AND MATERIALS	1.00	Ls		
SPL-VI	KITCHEN HOOD FIRE SUPPRESSION	1.00	Ls		
SPL-VII	SLOT DRAIN	1.00	Ls		
B. NATIVE CHICKEN HOUSING					
B.3	PERMITS AND CLEARANCES	1.00	lumpsum		
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	lumpsum		
800(1)	CLEARING GRUBBING AND LAYOUT	468.00	sq.m		
803(1)a	STRUCTURAL EXCAVATION (COMMON SOIL)	59.01	cu.m		
804(1)a	EMBANKMENT FROM STRUCTURE EXCAVATION	44.43	cu.m		
804(4)	GRAVEL BEDDING	24.89	cu.m		
900(1)c1	STRUCTURAL CONCRETE	43.54	cu.m		
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	2554.07	kgs.		
1000(1)	SOIL POISONING (TERMITE CONTROL)	2.00	L		
1001 (9)	STORM DRAINAGE AND DOWNSPOUT	1.00	lumpsum		
1002 (8)	PLUMBING FIXTURES AND FITTINGS	1.00	lumpsum		
1002 (28)	COLD WATER LINES	1.00	lumpsum		
1003(1)e2	SPANDREL CEILING	75.80	sq.m.		
1005	STEEL WINDOW	9.88	sq.m.		
1010 (2) b	WOOD PANEL DOORS	2.00	sets		
1011 (1) a	ROLL UP DOOR	1.00	set		
1014 (1) b2	PRE-PAINTED METAL SHEETS (Rib Type)	246.95	sq.m		
1018 (7)	GLAZED TILES	4.53	sq.m		
1027 (1)	CEMENT PLASTER FINISH	556.82	sq.m		
1032(1)a	PAINTING WORKS (MASONRY/CONCRETE)	305.08	sq.m		
1046(2)	CHB NON-BEARING INCLUDING RSB	246.53	sq.m		
1047(1)	STRUCTURAL STEEL	1.00	lumpsum		
1047(2)b	STRUCTURAL STEEL (PURLINS)	390.00	ln.m		
1100	CONDUITS, BOXES AND FITTINGS	1.00	lumpsum		
1101	WIRES AND WIRING DEVICES	1.00	lumpsum		
1102	POWER LOAD CENTER, SWITCH GEAR AND PANEL BOARD	1.00	lumpsum		
1103	LIGHTING FIXTURES	1.00	lumpsum		
1200 (15) c	CEILING MOUNTED ELECTRIC FAN	2.00	sets		
1200 (18) b	WALL MOUNTED EXHAUST FAN	4.00	sets		
SPL-I	MISCELLANEOUS ITEMS	1.00	lumpsum		
SPL-II	MISCELLANEOUS STEEL WORKS	1.00	lumpsum		
C. NATIVE DUCK HOUSING & BROODING FACILITY					
B.3	PERMITS & CLEARANCES	1.00	L.s.		
B.7	OCCUPATIONAL SAFETY AND HEALTH	1.00	lumpsum		
604(2)	FENCING (CYCLONE WIRE)	155.00	ln. m.		
800 (1)	CLEARING, GRUBBING AND LAY-OUT	1055.00	sq.m.		



803(1)a	STRUCTURE EXCAVATION	129.89	cu. m.		
804(1)a	EMBANKMENT (FROM STRUCTURE EXCAVATION)	137.99	cu. m.		
804(4)	Gravel Bedding	13.74	cu. m.		
900(1)c2	STRUCTURAL CONCRETE WORKS (Footings & Slab on Fill)	21.00	cu. m.		
900(1)c3	STRUCTURAL CONCRETE WORKS (Tie Beams & Wall Footings)	24.36	cu. m.		
900(1)c4	STRUCTURAL CONCRETE WORKS (Columns)	6.48	cu. m.		
900(1)c6	STRUCTURAL CONCRETE WORKS (Beams)	1.20	cu.m.		
902(1)a1	REINFORCING STEEL BARS	3591.77	kgs.		
903(2)	FORMWORKS AND FALSEWORKS	96.12	sq. m.		
1001(8)	SEWER LINE WORKS	1.00	l.m		
1001(9)	STORM DRAINAGE AND DOWNSPOUT	1.00	L.s.		
1002(8)	PLUMBING FIXTURES	1.00	L.s.		
1002(24)	COLD WATER LINES	205.00	Ln.m.		
1004(2)a	FINISHING HARDWARE (Lockset)	5.00	sets		
1004(2)g	FINISHING HARDWARE (Hinges)	15.00	sets		
1005(5)	STEEL WINDOW	5.40	Sq.m.		
1006(6)	STEEL DOORS AND FRAMES	1.89	L.s.		
1010(2)b	DOORS WOOD PANEL	11.34	sq.m.		
1011(2)	ROLL-UP DOORS	1.00	L.s.		
1014(1)b2	PREPAINTED METAL SHEETS(LONG SPAN-RIBB TYPE)	574.41	sq.m.		
1027(1)	CEMENT PLASTER FINISH	762.06	sq.m.		
1032(1)a	PAINTING MASONRY/ CONCRETE	693.30	sq.m.		
1032(1)c	PAINTING WORKS STEEL STRUCTURES	450.00	sq.m.		
1046(1)a1	CHB Non Load Bearing (Including Reinforcement)	381.03	sq.m.		
1047(1)	STRUCTURAL STEEL	1.00	L.s.		
1100(10)	CONDUITS,BOXES , & FITTINGS	1.00	L.s.		
1101(33)	WIRES & WIRING DEVICES	1.00	L.s.		
1102.00	POWER LOAD CENTER, SWITCH GEAR AND PANEL BOARD	1.00	L.s.		
1103(1)	LIGHTING FIXTURES	1.00	L.s.		
SPL-1	MISCELLANEOUS ITEMS	1.00	L.s.		
D. NATIVE PIG OPEN RANGE					
B.3	PERMITS & CLEARANCES	1.00	L.s.		
B.7	OCCUPATIONAL SAFETY AND HEALTH	1.00	lumpsum		
604(2)	FENCING (CYCLONE WIRE)	441.00	ln.m		
800 (1)	CLEARING, GRUBBING AND LAY-OUT	115.76	sq.m.		
803(1)a	STRUCTURE EXCAVATION	72.76	cu. m.		
804(1)a	EMBANKMENT (FROM STRUCTURE EXCAVATION)	52.04	cu. m.		
804(4)	Gravel Bedding	26.35	cu. m.		
900(1)c2	STRUCTURAL CONCRETE WORKS (Footings & Slab on Fill)	39.67	cu. m.		
900(1)c3	STRUCTURAL CONCRETE WORKS (Wall Footings)	19.85	cu. m.		
900(1)c4	STRUCTURAL CONCRETE WORKS (Columns)	10.08	cu. m.		
902(1)a1	REINFORCING STEEL BARS	3770.10	kgs.		
903(2)	FORMWORKS AND FALSEWORKS	168.00	sq. m.		
1002(8)	PLUMBING FIXTURES	1.00	l.s		
1002(24)	COLD WATER LINES	275.45	ln.m		



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 CERTIFICATE NO.: SCP0005440

1014(1)a2	PREPAINTED METAL SHEETS(SHORT SPAN-RIBB TYPE)	385.65	sq.m.		
1027(1)	CEMENT PLASTER FINISH	568.80	sq.m.		
1032(1)c	PAINTING WORKS STEEL STRUCTURES	237.52	sq.m.		
1046(1)a1	CHB Non Load Bearing (including Reinforcing Steel)	372.60	sq.m.		
1047(1)	STRUCTURAL STEEL	1.00	L.s.		
E. STREET LIGHTING					
B.7	OCCUPATIONAL SAFETY & HEALTH PROGRAM	1.00	set		
624(1) b1	SINGLE ARM POST, WITH STREET LIGHT	1.00	Ls		
F. WAREHOUSE AND STORAGE FACILITY INITIAL PHASE					
B.3	PERMIT AND CLEARANCES	1.00	lumpsum		
B.4 (10)	MISCELLANEOUS SURVEY AND STAKING	1.00	days		
B.5	PROJECT BILLBOARD/SIGNBOARD	1.00	set		
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	lumpsum		
B.9	MOBILIZATION/ DEMOBILIZATION	1.00	lumpsum		
800 (1)	CLEARING AND GRUBBING	120.00	sq.m		
803(1)a	STRUCTURE EXCAVATION	28.80	cu. m.		
804(1)b	EMBANKMENT FROM BORROW	25.92	cu. m.		
804(4)	GRAVEL FILL	3.32	cu. m.		
1000(1)	TERMITE CONTROL (SOIL POISONING)	96.00	sq.m		
900 (1) c1	STRUCTURAL CONCRETE (SLAB ON FILL, STAIRS & CANOPY)	6.47	cu. m.		
900 (1) c2	STRUCTURAL CONCRETE (FOOTING)	4.84	cu. m.		
900 (1) c3	STRUCTURAL CONCRETE (GROUND TIE BEAM)	4.83	cu. m.		
900 (1) c4	STRUCTURAL CONCRETE (COLUMNS)	6.52	cu. m.		
900 (1) c5	STRUCTURAL CONCRETE (SUSPENDED SLAB)	5.08	cu. m.		
900 (1) c6	STRUCTURAL CONCRETE (BEAMS/GIRDERS)	4.38	cu. m.		
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	4404.18	kgs.		
903(2)	FORMS & FALSEWORKS	218.90	sq.m		
1001(8)	SEWER LINE WORKS	1.00	lumpsum		
1002(28)	COLD WATER LINES	1.00	lumpsum		
1010(2)b	DOORS (WOOD PANEL)	1.89	sq.m.		
1011.00	ROLLING UP DOORS	8.80	sq.m.		
1046(2)a1	CHB NON LOAD BEARING (including RSB) 4"	95.35	sq.m.		
1027(1)	CEMENT PLASTER FINISH	95.35	sq.m.		
1100(30)	CONDUITS, BOXES AND FITTINGS	1.00	lumpsum		
1101(42)	WIRES AND WIRING DEVICES	1.00	lumpsum		
1102(27)	POWERLOAD CENTER, SWITCHGEAR AND PANELBOARDS	1.00	lumpsum		
1103.00	LIGHTING FIXTURES	1.00	lumpsum		
SPL-I	ELECTRICAL POST	1.00	lumpsum		
G. CONCRETE WATER TANK					
B.4 (10)	MISCELLANEOUS SURVEY AND STAKING	1.00	days		
B.5	PROJECT BILLBOARD/SIGNBOARD	1.00	set		
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	lumpsum		
B.9	MOBILIZATION/ DEMOBILIZATION	1.00	lumpsum		



800 (1)	CLEARING AND GRUBBING	171.61	sq.m		
803(1)a	STRUCTURE EXCAVATION	46.75	cu. m.		
804(1)b	EMBANKMENT FROM BORROW	38.81	cu. m.		
804(4)	GRAVEL FILL	2.33	cu. m.		
1000(1)	TERMITE CONTROL (SOIL POISONING)	17.64	sq.m		
900 (1) c1	STRUCTURAL CONCRETE (WATER TANK)	9.86	cu. m.		
900 (1) c2	STRUCTURAL CONCRETE (FOOTING)	6.17	cu. m.		
900 (1) c3	STRUCTURAL CONCRETE (GROUND TIE BEAM)	2.28	cu. m.		
900 (1) c4	STRUCTURAL CONCRETE (COLUMNS)	9.90	cu. m.		
900 (1) c5	STRUCTURAL CONCRETE (SUSPENDED SLAB)	4.21	cu. m.		
900 (1) c6	STRUCTURAL CONCRETE (BEAMS/GIRDERS)	8.12	cu. m.		
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	2,184.18	kgs.		
902(1)a2	REINFORCING STEEL BARS (GRADE 60)	4,269.62	kgs.		
903(2)	FORMS & FALSEWORKS	278.87	sq.m		
1016	CEMENTITIOUS WATER PROOFING	92.16	sq.m.		
1047	METAL STRUCTURES	101.91	kgs.		
1032(1)c	PAINTING WORKS (METAL STRUCTURES)	31.39	sq.m		
SPL-I	WATER DISTRIBUTION LINE	1.00	lumpsum		
H. WELL-DRILLING FOR LIVESTOCK FACILITIES					
SPL-I	WELL DRILLING	1.00	lumpsum		
1201.00	WATER PUMPING SYSTEM	1.00	lumpsum		
			TOTAL BID AMOUNT (in figures): Php		
TOTAL BID AMOUNT (in words): Pesos					

Note: The Bill of Quantities (BOQ) contains the following parts:
 a. BOQ for each Part of the Contract.
 b. Summary of Bid Prices for all Parts of the Contract.

Project Duration: **455 calendar days**

Submitted by:

Name and Signature of Bidder's Representative: _____

Position: _____

Name of Bidder: _____

Date: _____



Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.



Republic of the Philippines
KALINGA STATE UNIVERSITY
 Tabuk City, Kalinga 3800
Bids and Awards Committee



Checklist for Eligibility and Technical Components

Name of Bidder : _____
 Address of Bidder : _____
 Name of Project : **CONSTRUCTION OF LIVESTOCK R & D- NATIVE ANIMALS NUCLEUS HERD CENTER (NATIVE PIG, POULTRY LAYER AND BROILER)-2ND BIDDING**
 Approved Budget for the Contract : **Php 32,050,292.74**

ITEM NO.	REQUIREMENTS	PASSED	FAILED
Technical Component Envelope			
Class "A" Documents			
LEGAL DOCUMENTS			
A	<input type="checkbox"/> Valid PhilGEPS Registration Certificate (Platinum Membership) (all Pages); <u>and</u> <input type="checkbox"/> Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document; <u>and</u> <input type="checkbox"/> Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; <u>and</u> <input type="checkbox"/> Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).		
TECHNICAL DOCUMENTS			
B	1) Statement of the prospective Bidder of all its Ongoing Government and Private Contracts , including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the Contract to be bid; <u>and</u>		
C	2) Statement identifying the Bidder's Single Largest Completed Contract (SLCC) similar to the Contract to be bid, except under conditions provided under the rules. This statement shall be supported with: i. <input type="checkbox"/> Notice of Award and/or Notice to Proceed; and ii. <input type="checkbox"/> Project Owner's Certificate of Final Acceptance issued by the Owner other than the Contractor, or the Contractors Performance Evaluation Summary (CPES) Final Rating, which must be at least satisfactory. In case of contracts with the private sector, an equivalent document shall be submitted. <u>and</u>		
D	<input type="checkbox"/> Philippine Contractors Accreditation Board (PCAB) License ; <u>or</u> <input type="checkbox"/> Special PCAB License in case of Joint Ventures; <u>and</u> <input type="checkbox"/> registration for the type and cost of the Contract to be bid; <u>and</u>		
E	BID SECURITY in ANY of the following form: <input type="checkbox"/> Original Copy of Surety Bond , accompanied by a Certification from an authorized Insurance Commission that the surety or insurance company is authorized to issue surety bond; <u>or</u> <input type="checkbox"/> Original Copy of Notarized Bid Securing Declaration ; <u>and</u>		
F	Duly signed PROJECT REQUIREMENTS , which shall include the following: 1) Organizational chart for the Contract to be bid;		
G	2) <input type="checkbox"/> List of Contractor's Key Personnel to be assigned to the Contract to be bid, with their complete qualification and experience data, as follows: <input type="checkbox"/> Key Personnel's Bio-data; <input type="checkbox"/> Key Personnel's Certificate of Employment;		
H	3) Construction Schedule and S-Curve;		
I	4) Project Evaluation and Review Technique (PERT) <u>and</u> Critical Path Method (CPM)		
J	5) Construction Methods in narrative form;		
K	6) Construction Manpower Utilization Schedule;		
L	7) Construction Equipment utilization schedule;		
M	8) Statement of Availability of Key Personnel and Equipment;		
N	9) List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by Proof of Ownership or Certification of Availability of Equipment from the equipment lessor/vendor for the duration of the Project (SF-INFR-49);		



O	10) Contractor's Letter-Certificate to Kalinga State University;		
P	11) Affidavit of Site Inspection (SF-INFR-51).		
Q	[] Original duly signed revised Omnibus Sworn Statement , with the following supporting documents, that		
	1) Signatory is proprietor/duly authorized representative of bidder.		
	2) Full power and authority to perform acts or represent bidder.		
	3) Not "blacklisted" or barred from bidding		
	4) Each document is authentic copy of original, complete, and correct.		
	5) Authorizing Head of Procuring Entity to verify all documents submitted.		
	6) Not related to HOPE, BAC, TWG, Secretariat, PMO/IU, within 3rd civil degree.		
	7) Complies with existing labor laws and standards.		
	8) Aware of and undertaken responsibilities as a bidder.		
	9) Did not give any commission, amount, fee, or consideration.		
	10) Failure to perform or deliver any of the obligations and undertakings in the Contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.		
	and		
	[] Integrity Pledge of KSU Service Provider with the attached photocopied ID of AMO; and		
	[] Authority of the signatory as applicable (Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder).		
	<i>Note: The Authorized Representative shall be the same personnel who is reflected in the documents of the Company submitted to PCAB.</i>		
FINANCIAL DOCUMENTS			
R	The prospective bidder's Audited Financial Statements , showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and		
S	The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) of which the <i>K factor shall be fixed at 15, regardless of contract duration, and the values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR.</i> NFCC = Php _____		
Class "B" Documents			
T	[] If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; or [] Duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.		

Note:

1. Any missing, incomplete, or patently insufficient document in the checklist mentioned above is a ground for outright rejection (non-complying) of the bid.
2. For hassle-free and easier bid evaluation, the Technical and Financial Envelopes are preferably soft bounded and with Ear-Tabbing for each Checklist. Ring bounded is discouraged.

CHECKED BY:

BAC MEMBER/TWG's Name and Signature: _____

REMARKS: [] Eligible/ Passed
 [] Non-Eligible/ Failed



Checklist for Financial Proposal

Name of Bidder : _____
 Address of Bidder : _____
 Name of Project : **CONSTRUCTION OF LIVESTOCK R & D- NATIVE ANIMALS NUCLEUS HERD CENTER (NATIVE PIG, POULTRY LAYER AND BROILER)-2ND BIDDING**
 Approved Budget for the Contract : **Php 32,050,292.74**

ITEM NO.	REQUIREMENTS	COMPLYING	NON-COMPLYING
	FINANCIAL COMPONENT (SECOND ENVELOPE)		
A	Original of duly signed and accomplished revised Financial Bid Form; <i>and</i>		
B	Original of duly signed Bid Prices in the Bill of Quantities; <i>and</i>		
C	Duly accomplished Detailed Estimates Form , including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; <i>and</i> <i>(The Direct Cost shall show the itemized computation of materials, labor, equipment rental, fuel, and oil. The Indirect Cost, such as overhead/ contingencies/ miscellaneous, profit, and applicable taxes as required by law, shall also be shown in coming up with the bid. It shall show a detailed breakdown of LUMPSUM Cost.)</i>		
D	Cash Flow by Quarter		
E	Price List indicating the unit prices of construction materials, labor rates, and equipment rentals. <i>(Sample Form is attached in the Bidding Documents)</i>		

Note:

1. Any missing, incomplete, or patently insufficient document in the checklist mentioned above is a ground for outright rejection (non-complying) of the bid.
2. For hassle-free and easier bid evaluation, the Technical and Financial Envelopes are preferably soft bounded and with Ear-Tabbing for each Checklist. Ring bounded is discouraged.
3. **Each and every page of the Documents comprising the Financial Proposal shall be signed by the duly authorized representative/s of the Bidder.** Failure to do so shall be a ground for the rejection of the bid.

CHECKED BY:

BAC MEMBER/ TWG's Name and Signature: _____

DATE: _____

REMARKS:

Complying

Non-Complying

