



Republic of the Philippines
Office of the President
Philippine Sports Commission

PHILIPPINE BIDDING DOCUMENTS
(As Harmonized with Development Partners)

**Rehabilitation and Upgrading of Philsports
Arena
(Additional Works) Re-bid**

**Sixth Edition
July 2020**

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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.

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 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid



Republic of the Philippines
Office of the President
Philippine Sports Commission

Invitation to Bid for Rehabilitation and Upgrading of Philsports Arena (Additional Works) Re-bid

1. The **Philippine Sports Commission**, through the **National Sports Development Fund (NSDF) FY 2021**, intends to apply the sum of **Php81,905,419.87** being the Approved Budget for the Contract (ABC) to payments under the contract for **Rehabilitation and Upgrading of Philsports Arena (Additional Works) Re-bid [PSCBAC-2-2021]**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **Philippine Sports Commission** now invites bids for the above Procurement Project. Completion of the Works is required in **One Hundred Twenty (120) calendar days**. 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 non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from the **Philippine Sports Commission** and inspect the Bidding Documents at the address given below from **Mondays to Fridays, 8:00 AM to 5:00 PM**.
5. A complete set of Bidding Documents may be acquired by interested bidders on **29 January 2021** from 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 **Php50,000.00**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees **in person**.
6. The **Philippine Sports Commission** will hold a Pre-Bid Conference on **8 February 2021, 10:00 A.M.** at Ground Floor, Administration Building, Rizal Memorial Sports Complex, P. Ocampo Sr. St., Malate, Manila, which shall be open to prospective bidders. Only one representative per prospective bidder shall be allowed. The representative must: (a) present a negative COVID-19 RT-PCR (swab test) result taken at least three (3) days before the scheduled pre-bid conference; and (b) fill out and submit the Health Declaration Form (HDF) at least two (2) days prior to the pre-bid conference. The HDF may be accessed this link: <https://bit.ly/3m9sxB6>
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **22 February 2021 at 10:00 A.M.** 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 16.
9. Bid opening shall be on **22 February 2021, 10:00 A.M.** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity. The representative must: (a) present a negative COVID-19 RT-PCR (swab) test result taken at least three (3) days before the scheduled pre-bid conference; and (b) fill out and submit the Health Declaration Form (HDF) at least two (2) days prior to the pre-bid conference. The HDF may be accessed this link: <https://bit.ly/3m9sxB6>.
10. The **Philippine Sports Commission** 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 the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

Atty. Michelle C. Labajanan
Bids and Awards Committee Secretariat
Philippine Sports Commission
2nd Floor, Administration Building
Rizal Memorial Sports Complex
P. Ocampo Sr. St.,
Malate, Manila
bac@psc.gov.ph
8523-9831 local 186
www.psc.gov.ph

12. You may visit the following websites:

For downloading of Bidding Documents: <https://psc.gov.ph/en/pbd,-bid-data-sheet-and-terms-of-reference.html>

28 January 2021

Sgd.
ATTY. GUILLERMO B. IROY, JR.
Chairman, Bids and Awards Committee

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **Philippine Sports Commission**, invites Bids for the **Rehabilitation and Upgrading of Philsports Arena (Additional Works) Re-bid** with Project Identification Number **PSCBAC-2-2021**.

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 2021** in the amount of **Php81,905,419.87**.

2.2. The source of funding is:

a. National Sports Development Fund (NSDF)

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 or 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.

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:

- a. Subcontracting is not allowed.

- 7.2 Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

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 Ground Floor, Administration Building, Rizal Memorial Sports Complex, P. Ocampo Sr. St., Malate, Manila 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 23 May 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:

- a. 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 from the date of the opening of bids**. 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 one copy 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**.

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**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause			
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Construction of sports arena or sports stadium.		
7.1	Subcontracting is not allowed.		
10.3	Bidder must have a valid PCAB license with principal classification Category AAA General Building. Bidder must have PCAB ARCC rating of Medium A for Building. Bidder must be ISO 9001 Certified.		
10.4	The key personnel must meet the required minimum years of experience set below:		
	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience (Experience in similar project and similar position)</u>
	Lead Architect (Conservation Design, Planning and Management)	10 years	5 years
	Project Manager (Architect or Engineer)	10 years	5 years
	Project Engineer/Architect	5 years	2 years
	Materials Engineer 2	5 years	2 years
	Electrical Engineer	5 years	2 years
	Mechanical Engineer	5 years	2 years
	Sanitary Engineer/Master Plumber	5 years	2 years
	Foreman	5 years	2 years
	Safety Officer with certificate of training in occupational safety and health	3 years	2 years
10.5	The minimum major equipment requirements are the following:		
	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>
	Boom truck	10T	1
	Backhoe	½ bucket	1
	Dump truck	10 wheeler 20 cubic meters	3
	Jackhammer with compressor	175 CF, screw type	2
	Welding machine	500 amperes	5
12	No further instructions.		

15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than Php1,638,108.40 [two percent (2%) of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than Php4,095,270.99 [five percent (5%) of ABC] if bid security is in Surety Bond.
19.2	Partial bids not allowed.
20	<p>Bidder must have a valid PCAB license with principal classification Category AAA General Building. Bidder must have PCAB ARCC rating of Medium A for Building. Bidder must be ISO 9001 Certified. Bidder must be in sound financial standing with annual turnover/gross billings of at least 50% of the ABC. Bidder must have complete construction of a structure with at least contract value of 50% of the ABC. Bidder must have a licensed civil engineer, mechanical engineer, electrical engineer, sanitary engineer and safety officer. Bidder must have ten (10) years of experience in the field of civil works specifically in sports stadium or sports arena.</p>
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling shall be submitted during post-qualification.</p>

Section IV. General Conditions of Contract

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**

4.1. 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.

4.2. 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.
- 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.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	No further instructions.
4.1	The start date is the date indicated in the Notice to Proceed.
6	The site investigation reports are: None.
7.2	Fifteen (15) years.
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 15 calendar days of delivery of the Notice to Proceed.
11.2	The period between Program of Work updates is thirty (30) calendar days. Payment will not be processed if an updated program of work is not submitted.
13	The amount of the advance payment is 15% of the total contract price.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is within seven (7) calendar days after completion date. The date by which "as built" drawings are required is within fifteen (15) calendar days after completion date.
15.2	The final payment will be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required.

Section VI. Specifications

See attached Annex “A”, Technical Specifications.

Section VII. Drawings

1. Architectural Plans
2. Electrical Plans
3. Plumbing Plans

Copies of the enumerated plans may be secured from the PSC Engineering Unit.

Section VIII. Bill of Quantities

See attached Annex “B”, Bill of Quantities

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
- (b) 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;
and
- (c) 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;
and
- (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- (f) 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; **and**
- (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules;
and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration (subject to the provisions of GPPB Resolution No. 9-2020; **and**
- (j) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - c. 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, as the case may be; **and**
- (k) Original duly signed Omnibus Sworn Statement (OSS);

and if 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.

Financial Documents

- (l) 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**
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (n) 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.

II. FINANCIAL COMPONENT ENVELOPE

- (o) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (q) 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; **and**
- (r) Cash Flow by Quarter.

Additional Forms

No.	Description
1	Statement of Single Largest Completed Contract
2	List of all ongoing government and private contracts including contracts awarded but not yet started
3	Computation of Net Financial Contracting Capacity (NFCC)
4	Joint Venture Agreement
5	Organizational Chart
6	Qualification of Key Personnel Proposed to be Assigned to the Contract
7	Key Personnel (Format of Bio-data/Resume)
8	List of Equipment Owned or Leased and/or Under Purchase Agreements, Pledged to the Proposed Project
9	Statement of Availability of Key Personnel and Equipment
10	Affidavit of Site Inspection
11	Detailed Cost Estimates/Unit Price Analysis
12	Quarterly Cash Flow and Payment Schedule

SF-INFR-16 - STATEMENT SHOWING THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT WHICH IS SIMILAR IN NATURE

Business Name : _____

Business Address : _____

Name of Contract	a. Owner Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Amount at Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed
			Description	%		
<u>Government</u>						
<u>Private</u>						

Note: This statement shall be supported with:

- 1 Owner's Certificate of Final Acceptance or the Certificate of Completion
- 2 Whenever applicable, the Constructor Performance Evaluation Summary (CPES) Final Rating which must be satisfactory.
- 3 Contract
- 4 Additional information to prove the role of the entity and the actual scope of work directly undertaken by the entity as mentioned under ITB Clause 12.1(a)(iii) of the Bid Data Sheet.

Submitted by : _____
(Printed Name & Signature)

Designation : _____
Date : _____

SF-INFR-15 - LIST OF ALL ONGOING GOVERNMENT & PRIVATE CONSTRUCTION CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

Business Name : _____

Business Address : _____

Name of Contract/Location Project Cost	a. Owner Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Date Awarded b. Date Started c. Date of Completion	% of Accomplishment		Value of Outstanding Works
			Description	%		Planned	Actual	
<u>Government</u>								
<u>Private</u>								
						Total Cost		

Note: This statement shall be supported with:

- 1 Notice of Award and/or Contract
- 2 Notice to Proceed issued by the owner
- 3 Certificate of Accomplishments signed by the owner or Project Engineer

Submitted by : _____
(Printed Name & Signature)

Designation : _____
Date : _____

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

- A. Summary of the Firm's/Contractor's assets and liabilities on the basis of the attached copy of audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Total Net Worth (1-3)	
6.	Current Net Worth or Net Working Capital (2-4)	

- B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:
 NFCC = K (current asset – current liabilities) minus value of all outstanding contracts including those awarded contracts but not yet started

NFCC = Php _____

K = 10 for a contract duration of one year or less.

Submitted by:

 Name of Firm / Contractor

 Signature of Authorized Representative

Date: _____

NOTE: If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

JOINT VENTURE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

That this JOINT VENTURE AGREEMENT is entered into by and between: _____, of legal age, (civil status), owner/proprietor of _____ and a resident of _____.

- and -

_____, of legal age, (civil status), owner/proprietor of _____ a resident of _____.

That both parties agree to join together their capital, manpower, equipment, and other resources and efforts to enable the Joint Venture to participate in the Bidding and Undertaking of the hereunder stated Contract of the Procuring Entity.

1.	<u>NAME OF PROJECT</u>	<u>CONTRACT AMOUNT</u>
----	-------------------------------	-------------------------------

That both parties agree to be jointly and severally liable for their participation in the Bidding and Undertaking of the said contract.

That both parties agree that _____ and/or _____ shall be the Official Representative of the Joint Venture, and are granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the Bidding and Undertaking of the said contract, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

That this Joint Venture Agreement shall remain in effect only for the above stated Contracts until terminated by both parties.

Done this ____ day of _____, in the year of our Lord _____.

CONTRACTOR'S ORGANIZATIONAL CHART FOR THE CONTRACT

Submit Copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to him to include in the chart, among others, the names of the required proposed Key Personnel as indicated in the ITB and other Key Engineering Personnel.

**Attach the required Proposed Organizational Chart
for the Contract as stated above**

Note: This organization chart should represent the "Contractor's Organization" required for the Project, and not the organizational chart of the entire firm.

SF-INFR-48 - QUALIFICATION OF KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT

	Project Manager (Licensed Civil Engineer or Licensed Architect)	PROJECT ENGINEERS						Materials/ Quality Control Engineer II (DPWH Accredited) * Attached Proof of Accreditation	Safety Officer (Certified by BWC of DOLE or with Certificate of Training in Occupational Safety and Health) *Attached Certification or Training	Conservation Specialist *	Sustainability Expert **
		Licensed Civil/ Structural Engineer for Building Works	Professional Mechanical Engineer	Professional Electrical Engineer	Licensed Sanitary Engineer	Licensed Electronics & Communication Engineer	Licensed Architect				
1	Name										
2	Address										
3	Date of Birth										
4	Employed Since										
5	Experience										
	Total Experience (Years)	Required									
		Actual									
	Experience in Similar Project (Years)	Required									
		Actual									
6	Previous Employment										
7	Education										
8	PRC License/Accreditation/Certification/ training (as required) Attached Supporting Documents for validation purposes										

Experience in Similar Work refers to experience of the key personnel in the construction of any commercial, institutional, industrial buildings of similar nature and complexity as the proposed project occupying same proposed position.

**Conservation Specialist shall have experience in conservation of Heritage building projects.*

*** Sustainability Expert shall be LEED Accredited Professional or BERDE Certified Professional or its equivalent.*

Submitted by : _____
(Printed Name & Signature)

Designation : _____

Date : _____

KEY PERSONNEL (FORMAT OF BIO-DATA/RESUME)

Give the detailed information of the following personnel who are scheduled to be assigned as full-time field staff for the project. Fill up a form for each person.

- Authorized Managing Officer / Representative
- Sustained Technical Employee

1. Name : _____
2. Date of Birth : _____
3. Nationality : _____
4. Education and Degrees : _____
5. Specialty : _____
6. Registration : _____
7. Length of Service with the Firm : _____ Year from _____ (months) _____ (year)
To _____ (months) _____ (year)
8. Years of Experience : _____
9. If Item 7 is less than the required number of years, give name and length of service with previous employers. (attached additional sheet/s), if necessary:

Name and Address of Employer

Length of Service

_____		_____ year(s) from		_____ to _____
_____		_____ year(s) from		_____ to _____
_____		_____ year(s) from		_____ to _____

10. Experience:

This should cover the number of years of experience required under ITB Clause 12.1b(ii.2) of the Bidding Documents for each of the required key personnel.(Attached as many pages as necessary to show involvement of personnel in projects using the format below).

1. Name : _____
2. Name and Address of Owner : _____
3. Name and Address of the Owner's Engineer (Consultant) : _____
4. Indicate the Features of Project (particulars of the project components and any other particular interest connected with the project) : _____
5. Contract Amount Expressed in Philippine Currency : _____
6. Position : _____

7. Structures for which the employee was responsible : _____
8. Assignment Period : from _____ (months) _____ (years)
: to _____ (months) _____ (years)

Name and Signature of Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

(Place and Date)

(The Authorized Representative)

SF-INFR-18 – STATEMENT OF AVAILABILITY OF KEY PERSONNEL AND EQUIPMENT

(Date of Issuance)

Name of the Head of the Procuring Entity
Position of the Head of the Procuring Entity
(Name of Procuring Entity)
(Address of Procuring Entity)

Attention : The Chairman
Bids and Awards Committee

Dear Sir:

In compliance with the requirements of the ___(Name of the Procuring Entity)___ BAC for the bidding of the ___(Name of the Contract)___, we certify that ___(Name of the Bidder)___ has in its employ key personnel, such as Project Manager, Project Engineers, Architect, Materials/Quality Control Engineer, Safety Officer, Conservation Specialist and Sustainability Expert who may be engaged for the construction of the said contract.

Further, we likewise certify the availability of equipment that ___(Name of the Bidder)___ owns, has under lease, and/or has under purchase agreements, that may be used for the construction contracts.

Very truly yours,

(Name of the Representative
(Position)

(Name of Bidder)

AFFIDAVIT OF SITE INSPECTION

I, (Representative of the Bidder) , of legal age, (civil status) , Filipino and residing at (Address of the Representative) , under oath, hereby depose and say:

1. That I am the (Position in the Bidder) of the (Name of the Bidder) , with office at (Address of the Bidder) ;
2. That I have inspected the site for (Name of the Contract) , located at (location of the Contract) ;
3. That I am making this statement as part of the requirement for the Technical Proposal of the (Name of the Bidder) for (Name of the Contract) .

IN FAITH WHEREOF, I hereby affix my signature this _____ day of _____, 20____ at _____, Philippines.

AFFIANT

SUBSCRIBED AND SWORN TO before me this _____, day of _____ 2016, affiant exhibiting to me his/her *(any Government ID/Passport No.)* issued on _____ at _____, Philippines and his/her ID picture appearing herein.

(Notary Public)
Until _____
PTR No. _____
Date _____
Place _____
TIN _____

Doc. No. _____
Page No. _____
Book No. _____
Series of 20__

NAME OF CONTRACTOR: _____

FORM 3 - DETAILED COST ESTIMATES /UNIT PRICE ANALYSIS

1. ITEM NO.	2. ITEM NAME/DESCRIPTION	3. TOTAL QUANTITY AND UNIT
-------------	--------------------------	----------------------------

4. SEQUENCE OF OPERATION/ACTIVITIES

M A T E R I A L S	PRICE NO.	NAME/DESCRIPTION OF MATERIALS	UNIT	QUANTITY	UNIT COST	AMOUNT

5. DIRECT MATERIALS COST

L A B O R	REF. NO.	DESIGNATION/DESCRIPTION OF PERSONNEL	UNIT	NO. OF HOURS	UNIT RATE (hourly)	AMOUNT

6. DIRECT LABOR COST

E Q U I P M E N T	REF. NO.	NAME/DESCRIPTION OF EQUIPMENT	UNIT	NO. OF HOURS	UNIT RATE (hourly)	AMOUNT

7. DIRECT EQUIPMENT COST

WORK DAYS TO COMPLETE ITEM 3	8. ESTIMATED DIRECT COST (EDC) = (5 + 6 + 7)
	9. OVERHEAD CONTINGENCIES MISC.(OCM), PROFIT = __ % of EDC
	10. VAT (__ % x [8 + 9])
AVERAGE OUTPUT/WORKDAY	TOTAL COST (8 + 9 + 10)
	UNIT COST

Signature and Official Stamp of Bidder: _____ Date: _____

Contract Name : _____
Location : _____

QUARTERLY CASH FLOW AND PAYMENT SCHEDULE

PARTICULAR	% WT.	1	2	3	4
ACCOMPLISHMENT					
CASH FLOW					
CUMULATIVE ACCOMPLISHMENT					
CUMULATIVE CASH FLOW					

Submitted by:

Name of the Representative of the Bidder
Position
Name of the Bidder

Date: _____

One of the requirements from the bidder to be included in its Financial Envelope is the monthly cash flow and payment schedule.



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Name of the Project : REHABILITATION AND UPGRADING OF PSC
PHILSPORTS ARENA (ADDITIONAL WORKS) RE-BID

Location : PHILSPORT COMPLEX, PASIG CITY

I. OBJECTIVE

The basic objective of the project is to rehabilitate the PSC Philsports Arena located at Philsports Complex, Pasig City.

II. BASIC INFORMATION

Project Name : Rehabilitation and Upgrading of PSC Philsports Arena (Additional Works)
Re-bid

Location : Philsports Complex, Pasig City

III. QUALIFICATION

- Contractors must have a valid PCAB license with principal classification Category AAA General Building.
- Contractor must have PCAB ARCC rating of Medium A for Building.
- Contractor must be ISO 9001 Certified.
- Contractor must be in sound financial standing with annual turnover/gross billings of at least 50% of the ABC.
- Contractor must have complete construction of a structure with at least contract value of 50% of the ABC.
- Contractors must have a licensed Civil Engineer, Mechanical Engineer, Electrical Engineer, Sanitary Engineer and Safety Officer.
- The company must have ten (10) years of experience in the field of civil works specifically in Stadium.

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IV. GENERAL SPECIFICATIONS

The work shall include the supply of labor, materials, tools, equipment and services necessary to complete the subject project per approved Scope of Work, approved Construction Plans/Drawings and these Technical Specifications, which are parts of the Contract of Services, Governing Codes: Republic Act No. 9184 and its Implementing Rules and Regulations, National Building Code of the Philippines (P.D. 1096), Philippine Electrical Code, Philippine Plumbing and Sanitary Code, Philippine Mechanical Code, and all related applicable local ordinances and regulations.

Necessary building permits, clearances or licenses including occupancy permits shall be provided by the Contractor.

The Contractor shall submit, prior to the execution of the specified works, his schedule of work expressed in PERT/CPM Network Diagram, indicating the computation of the contract time, all activities, their duration and projected percentage accomplishments/cash flow, for monitoring purposes.

For all new constructions, the Contractor shall provide new materials, fabricated products, and necessary equipment and services for all works.

For all repair or replacement works, use brand new materials, brands/models, measurements, and finishes. Major materials, products or work items, large volume or quantity items, or other expensive items that are not particularly mentioned in these specifications, shall require submission of samples, product tests, mock-up models, and selection, or approval prior to their installation or application in the project.

Sub-contracting shall only be limited to specialty work items, which require provision of special materials, methods, techniques and equipment and are subject to the approval of the Philippine Sports Commission.

The contractor shall provide full-time supervision of the works.

All materials and equipment shall be delivered to the site at designated locations within the project premises.

The Philippine Sports Commission or its authorized representative reserves the right to reject any materials or workmanship that may be found defective or not in conformity with the approved Construction Plans/Drawings and these Technical Specifications. In case where conflicts between the Construction Plans/Drawings and the Technical Specifications arise, these should be immediately being brought to the attention of the Philippine Sports Commission or its authorized representative for appropriate action.

All billings shall be subject to submission of a Statement of Account by the Contractor, including his percentage accomplishment report and photographs for inspection/evaluation and

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acceptance by the Philippine Sports Commission. The Contractor shall provide access to the construction areas for the convenience of the inspection team during project inspection.

Change or additional works that are necessary but were not included in the scope of work shall be subject to variation order preparation upon request and notice by the Contractor.

V. GENERAL REQUIREMENTS

1.0 Regulatory Requirements

- 1.1 National Building Code of the Philippines
- 1.2 National Plumbing and Sanitary Code of the Philippines
- 1.3 Philippine Electrical Code
- 1.4 Philippine Mechanical Code

2.0 Submittals

- 2.1 Construction Schedules
- 2.2 Shop Drawings, Product Data and Samples, Color Swatches
- 2.3 Construction Photographs
- 2.4 Permits (when necessary)

VI. OUTLINE TECHNICAL SPECIFICATIONS

1.0 Securing/Renewal of Building Permits:

Necessary building permits, clearances, or licenses including occupancy permit shall be provided by the Contractor. The Contractor shall pay all fees and other incidental expenses.

2.0 Dismantling of existing unwanted structures:

2.1 Demolition, Removal and Dismantling

1. Before commencing any demolition, removal, and/or dismantling work, all affected electrical lines and water supply lines shall be disconnected, or shut off except such as required for use in connection with the work on site.
2. Demolish selectively and remove or dismantle carefully all components of structures indicated in the drawings necessary to prepare for renovations. All reusable materials shall be coordinated with the agency architect/engineer for reuse.

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3. Store reusable parts of the structures and materials within the area. All other materials retrieved from the site shall be turned over, supported with an inventory report on quantity and description of materials, to the Philippine Sports Commission, through the agency Property Officer. Only reusable materials shall stay in the construction area. On the other hand, all unused and destroyed materials shall be supported with a Report of Waste Materials.
4. Protect and maintain structures, materials, fixtures, and utilities that are to remain within the property.

1.0 Temporary Facilities

1.1 Temporary Facilities

1.1.1 Scope of Work

This section shall include the mobilization and demobilization of Contractor's plant, equipment, materials and employee to the site; construction/ rental and maintenance of Engineer's staff house, and service vehicle in compliance with the contract requirements during the entire project duration.

This section shall include the furnishing of labor, materials, transportation, tools, supplies, plant, equipment and appurtenances to complete satisfactorily the construction of the proposed project.

1.1.2 Mobilization and Demobilization

The Contractor upon receipt of the Notice-to-Proceed shall immediately mobilize and transport his plant, equipment, materials and labor forces to the site and demobilize or remove the same at the completion of project and level/ clear the site acceptable to the Engineer and the Owner. Mobilization and Demobilization are incidental to other items of work and will not be measured for payment.

1.1.3 Field Office for the Engineer

During the performance of the contract, the Contractor shall provide and maintain field office for the Engineer and Engineer's representative within the site of the work at designated location indicated on the Drawings while the work is in progress.

The Contractor shall also maintain the existing staff house of the Engineer and shall also provide and maintain a separate office on rental basis for the Engineer's Representative at location approved by the Engineer during the entire duration of the contract.

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Construction shanties, sheds and temporary facilities provided as required for the Contractor's convenience shall be maintained in good condition and neat appearance including finishes as required by the Engineer.

The field office for the Engineer/Engineer's representative shall be constructed all in accordance with the Standard Specification and design shown on the approved Drawings.

The building shall have the floor area prescribed on the Plans and shall have a 24-hour security services and shall strictly comply with the provisions of Batas Pambansa 344 (Accessibility Law) and the Building National Code.

All facilities to be provided by the Contractor shall conform to the best standard for the required types. The facilities provided by the Contractor including utilities and communication facilities shall revert to the Government including office equipment, furniture, etc. upon completion of the Project.

The Contractor shall be responsible for raising the ground (if necessary), the grading and provision of drainage facilities in the vicinity of the facility with suitable access walkways, seeding and sodding of the ground as directed and approved by the Engineer. Also, the Contractor shall provide a parking area at the compound near the building and a satisfactory access road to the parking area. The Contractor shall be responsible for the maintenance and protection of all facilities to be provided during the entire duration of the Contract including provision of adequate stock of all expendable items, such as light bulbs, light tubes, laboratory equipment and supplies, etc., at all times to ensure proper and continuous functioning of all the Engineer's facilities.

The buildings shall be provided with air-conditioning system, complete with all standard accessories which will operate on a 220 volt, 60 cycle current at the location and quantity/capacity reflected per approved Plans which can cool and dehumidify the air.

It shall be understood that if the Contractor cannot provide the articles as described or intends to supply equivalent substitutes, the Engineer may execute their availability and the Contractor shall pay therefore as certified by the Engineer or the Engineer shall have the right to deduct the sums from any money which is due or which will become due to the Contractor.

1.1.4 Temporary Light and Power

The Contractor shall provide and maintain temporary electrical service including installation of temporary power and lighting within the construction site and facilities constructed thereat.

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The electrical services shall be adequate in capacity to supply power to construction tools and equipment without over-loading the temporary facilities and shall be made available to supply power, lighting and construction operations of all trades. All temporary equipment and wiring for power and lighting shall be in accordance with the applicable provisions of the local governing codes. At the completion of the construction work, all temporary wiring, lighting, equipment and devices shall be removed.

1.1.5 Temporary Toilets

The Contractor shall provide and maintain in sanitary condition enclosed toilets for the use of all construction personnel located within the contract limits, complete with fixtures, water and sewer connections and all appurtenances. Installation shall be in accordance with all applicable codes and regulations of the local authorities having jurisdiction thereof. Upon completion of the work, temporary toilet and their appurtenances shall be removed.

1.1.6 Temporary Water Service

The Contractor shall provide and maintain temporary water supply service, complete with necessary connections and appurtenances. Installed water supply lines shall be used as a source of water for construction purposes subject to the approval of the Engineer. The Contractor shall pay the cost of operation, maintenance and restoration of the water system.

All temporary water service including equipment and piping shall be removed upon completion of the work and all worn out and damaged parts of the permanent system shall be replaced and restored in first class condition equal to new.

1.1.7 Security

The Contractor shall provide sufficient security in the construction site to prevent illegal entry or work damaged during nights; holidays and other period when work is not executed; and during working hours. The Contractor shall take ample precautions against fire by keeping away flammable materials, and ensure that such materials are properly handled and stored. Fires shall not be allowed within the area of construction, except when permitted by the Engineer.

1.1.8 Disposal Area

The proposed location of disposal area shall be at the site designated by the Engineer. It is the responsibility of the Contractor to disposed off-site all construction debris and be considered in the preparation of his proposal.

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1.1.9 Maintenance of Field Office for the Engineer

The maintenance of staff house for the Engineer shall include provision of water and electricity 24 hours daily and shall be paid for from the date the Engineer's representative's occupancy reckoned from the commencement of the Works until completion of the contract. Unit of measurement and payment is "Month".

2.0 Clearing and Grubbing

2.1 Construction Requirements

This item shall consist of clearing, grubbing, removing and disposing all vegetation and debris as designated in the Contract, except those objects that are designated to remain in place or are to be removed in consonance with other provisions of this Specification. The work shall also include the preservation from injury or defacement of all objects designated to remain.

2.2 Clearing and Grubbing

All surface objects and all trees, stumps, roots and other protruding obstructions, not designated to remain, shall be cleared and/or grubbed, including mowed as required, except as provided below:

- (1) Removal of undisturbed stumps and roots and nonperishable solid objects with a minimum depth of one (1) meter below subgrade or slope of embankment will not be required.
- (2) In areas outside of the grading limits of cut and embankment areas, stumps and nonperishable solid objects shall be cut off not more than 150 mm above the ground line or low water level.
- (3) In areas to be rounded at the top of cut slopes, stumps shall be cut off flush with or below the surface of the final slope line.
- (4) Grubbing of pits, channel changes and ditches will be required only to the depth necessitated by the proposed excavation within such areas.
- (5) In areas covered by cogon/talahib, wild grass and other vegetations, top soil shall be cut to a maximum depth of 150 mm below the original ground surface or as designated by the Engineer, and disposed outside the clearing and grubbing limits.
- (6) Except in areas to be excavated, stump holes and other holes from which obstructions are removed shall be backfilled with suitable material and compacted to the required density.



If perishable material is burned, it shall be burned under the constant care of component watchmen at such times and in such a manner that the surrounding vegetation, other adjacent property, or anything designated to remain on the right of way will not be jeopardized. If permitted, burning shall be done in accordance with applicable laws, ordinances, and regulation.

The Contractor shall use high intensity burning procedures, (i.e., incinerators, high stacking or pit and ditch burning with forced air supplements) that produce intense burning with little or no visible smoke emission during the burning process. At the conclusion of each burning session, the fire shall be completely extinguished so that no smoldering debris remains.

In the event that the Contractor is directed by the Engineer not to start burning operations or to suspend such operations because of hazardous weather conditions, material to be burned which interferes with subsequent construction operations shall be moved by the Contractor to temporary locations clear of construction operations and later, if directed by the Engineer, shall be placed on a designated spot and burned.

Materials and debris which cannot be burned and perishable materials may be disposed of by methods and at locations approved by the Engineer, on or off the project. If disposal is by burying, the debris shall be placed in layers with the material so disturbed to avoid nesting. Each layer shall be covered or mixed with earth material by the land-fill method to fill all voids. The top layer of material buried shall be covered with at least 300 mm of earth or other approved material and shall be graded, shaped and compacted to present a pleasing appearance. If the disposal location is off the project, the Contractor shall make all necessary arrangements with property owners in writing for obtaining suitable disposal locations which are outside the limits of view from the project. The cost involved shall be included in the unit bid price. A copy of such agreement shall be furnished to the Engineer.

The disposal areas shall be seeded, fertilized and mulched at the Contractor's expense. Woody material may be disposed of by chipping. The wood chips may be used for mulch, slope erosion control or may be uniformly spread over selected areas as directed by the Engineer. Wood chips used as mulch for slope erosion control shall have a maximum thickness of 12 mm and faces not exceeding 3900 mm² on any individual surface area. Wood chips not designated for use under other sections shall be spread over the designated areas in layers not to exceed 75 mm loose thickness. Diseased trees shall be buried or disposed of as directed by the Engineer.

All merchantable timber in the clearing area which has not been removed from the right of way prior to the beginning of construction, shall become the property of the Contractor, unless otherwise provided.

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Low hanging branches and unsound or unsightly branches on trees or shrubs designated to remain shall be trimmed as directed. Branches of trees extending over the roadbed.

2.3 Individual Removal of Trees or Stumps

Individual trees or stumps designated by the Engineer for removal and located in areas other than those established for clearing, grubbing and roadside cleanup shall be removed and disposed of as specified under Subsection 100.2.2 except trees removed shall be cut as nearly flush with the ground as practicable without removing stumps.

1. Architectural Works

10.1 Cement Finishes

10.1.1 Scope of Work

This work includes furnishing of all materials, equipment and labor, and other facilities necessary to complete all scored cement finish.

10.1.2 Materials

Normal Portland Cement conforming to ASTM Standard C150.

Sand shall be hard, sharp, well washed, siliceous, clean and free from deleterious materials conforming to ASTM Specifications C40.

10.1.3 Workmanship

Thoroughly clean concrete surface of all dirt, dust, oil patches and other foreign matters. Apply the 1:2 mix cement mortar, troweled and leveled in accordance with the required slope in the plane. After the mortar has hardened initially, apply scored finish in accordance with the approved sample.

10.2 Cement Mortar

10.2.1 General

Plastering work shall be properly coordinated with the work of other trades. The work of other trades shall be adequately protected from damage during plastering operations. Finishing work shall be protected with a covering of heavy Kraft waterproof paper or other approved protective covering with lapped and sealed joints. Scaffolding shall be amply strong, well braced, tied, securely and inspected regularly. Overloading on scaffolding shall not be permitted.

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10.2.2 Delivery, Storage and Handling of Materials

Manufactured materials shall be delivered in the manufacturer's original unbroken packages or containers which are labeled plainly with the manufacturer's names and brands. Cementitious materials shall be kept dry until ready to be used. They shall be stored off ground under cover and away from seating walls and other damp surfaces.

10.2.3 Materials

Portland cement shall conform to the Standard Specifications ASTM C-150, Type 1, latest edition.

Sand shall be hard, sharp, well-washed, siliceous, clean and free from deleterious materials, conforming with ASTM C-40.

Water shall be fresh, clean and free from organic matter, acids and alkalis.

10.2.4 Mixture

Plaster materials, specified on a volumetric basis, shall be measured accurately in approved containers that will insure the specified proportion. Measuring materials with shovels (shovelcount) shall not be permitted. Mortar for plastering shall be mixed in the proportion by volume of one part Portland Cement, 3 parts sand and 25% part hydrated lime. Mortar for finish coat shall be of the same proportioning as specified for plastering expect that proportion of sand be increased to not more than 4 parts.

10.2.5 Workmanship

Plastering work shall be finished level, plumb, square and true with a tolerance of 0.30mm to 3.00mm, without waves, cracks, blisters, pits, crazings, discoloration's, projections, or other imperfections. Plastering work shall be formed carefully around angles, contours, and well up to screeds. Special care shall be taken to prevent sagging and consequent dropping of applications. There shall be no visible junction marks in the finish coat where one day's work adjoining another.

10.2.6 Application

Surfaces to receive plaster shall be cleaned of all projections, dust, loose particles, grease bond breeders and other foreign matter. Plaster shall not be applied directly to (a) concrete masonry surfaces that have been coated with bituminous compound (b) surfaces that have painted materials or previously plastered. Before the plaster work is started, masonry surfaces shall be wetted thoroughly with fog spray of clean water to

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produce a uniformly moist condition. Metal grounds, corner beads, screed and other accessories shall be checked carefully for alignment before work is started.

Brown coat shall be applied with sufficient pressure to fill the grooves in hollow block of concrete to prevent air pockets and secure a good bond. Brown coat shall be lightly scratched and broomed. Each coat of cement plaster shall be kept moist for 48 hours after application and then allowed to dry.

Finished coat shall be applied until after brown coat has seasoned for 7 days. Just before application of the finished coat, brown coat shall again be evenly moistened with fog spray. Finished coat shall be floated first to a true and even surfaces then troweled in a manner that will force the sand particles down into the plaster. Plastered surfaces shall be smooth and free from rough areas, trowel marks, checks and blemishes. Thickness of plaster shall be 3/8” on vertical concrete and on masonry.

10.3 Plain Cement with Floor Hardener

10.3.1 Scope of Work

This work includes furnishing all labor, materials, equipment, and other facilities, and the satisfactory performance of all work necessary to complete all plain cement with floor hardener work specified herein.

10.3.2 Materials

Floor hardener shall be non-rusting and on titanium base, to provide extreme hard and highly abrasion and impact resistant floors. It shall be monolithic bonded with base concrete, impact resistant, oil and grease resistant., dense and non-porous, free from rust-stain, easy to install and highly abrasion resistant. Verify color.

10.3.3 Workmanship

10.3.3.1 Delivery

Materials shall be delivered to the site in their original packages of containers bearing the manufacturers name and brand designation.

10.3.3.2 Preparation

Floor hardener shall be prepared and applied strictly in accordance with the manufacturer’s printed instruction. Flat troweling shall be done keeping the trowel flat and only after the surface has sufficiently set, a second and flat

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trowelling shall be done. Continue trowelling process until the desired surface finish is achieved.

10.3.3.3 Consumption

Heavy Duty:	4	- 6 kg/sq.m. Floor Hardener
	4	- 6 kg/sq.m. Cement

10.4 “As Built” Drawings

Upon completion and before first acceptance of the work, the contractor shall prepare at his own expense and submit to the Architect “as built” drawings indicating in all detail the actual as-built conditions of the work required.

2. Electrical Works

a. Work Included

All work under these specifications shall consist of furnishing and/or installing all labor, materials, tools and all services necessary unless otherwise indicated to complete and make ready for operation, the electrical power, lighting and other utility system described herein and/or indicated in the Electrical Plans except for Owner-furnished equipment and fixtures in accordance with the electrical plans and these specifications.

- i. Furnish and install low voltage service entrance including accessories.
- ii. Furnish and install feeder distribution layout.
- iii. Furnish and install lighting and power system.
- iv. Furnish and install panel boards, circuit breakers, and disconnect switches.
- v. Furnish and install outlets, switches and plates.
- vi. Furnish and install lighting fixtures and lamp (including T-runners & lighting diffusers)

b. Work Not Included

The following items of work shall be supplied by the Owner but to be installed by the Electrical Contractor or respective trade contractors or suppliers.

- i. Motor, magnetic starters and controlling devices.

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ii. Electrical cooperative deposits

c. Code Regulations

All materials and equipment to be used in the electrical installations and construction shall be in accordance with the latest edition of the Philippine Electrical Code and the pertinent ordinances of the City Government.

All work shall comply with the rules and regulations of the local power company in so far as they are concerned in providing their respective permanent services to the building.

With respect to the local power company, it shall be the electrical contractor's sole responsibility to verify the point of service entrances and other requirements necessary for service connection of both abilities.

d. Drawings and Specifications

The electrical plans and these specifications are meant to be complementary to each other, and what is called for in one shall be as binding as if called for by both.

Any apparent conflict between the electrical plans and these specifications and any unclear points of controversial matters in either shall be referred to the owner's assigned representative for final decision.

Upon final completion of the work herein described, the electrical contractor shall furnish the Owner two (2) copies of the "As-built" plans for future reference and maintenance purposes.

The electrical plans indicate the general layout of the complete electrical system. Arrangement of feeders, circuit outlets, switches, controls, panel boards, service equipment and other work. Field verification of the scale dimensions on plane must be made, since actual locations, distances and levels will be governed by actual field conditions.

The Electrical Contractor shall check architectural, structural and plumbing plans be necessary to resolve such conflicts, the Electrical Contractor shall notify the Architect and secure approval and agreement on necessary adjustments before installation is started.

e. Permits and Inspection

The Electrical Contractor shall obtain all necessary permits and certificates of electrical inspection from the proper government authorities concerned, required both for the performance of the work involved and the operation of the system upon completion of the work.

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The Electrical Contractor shall pay all necessary electrical fees for the securing of the above-mentioned permits and certificates of electrical inspection.

The Electrical Contractor shall as his own expense, reproduce the electrical plans for work to the necessary scale and size, complete them with the necessary information and requirements as required by the government authorities concerned with approving such plans.

The Electrical Contractor shall coordinate with the local power company regarding the power facilities and secure approval of the power requirements.

f. Materials and Workmanship

All materials to be installed shall be brand new, unused and shall in every case to be the best where such standard have been established for the particular type of materials used.

Only skilled workmen using proper tools and equipment shall be employed during the entire course of the installation work. All workmanship shall be of the best quality, all work to be done in accordance with the best engineering practice of the trade involved.

g. Wiring Method

Branch circuit installation for lighting and power layout shall be done polyvinyl chloride pipes (PVC) exposed, inside drop ceiling, wooden and concrete partitions.

All auxiliary layout shall be in uPVC piping.

Branch circuit layout run underground or embedded in concrete slab shall also be in PVC pipes.

Low voltage service entrance and all feeders shall be in Rigid Steel Conduit (RSC).

Use flexible metal pipe for connection between junction boxes inside ceiling and lighting fixtures and ceiling fans with standard fittings.

All conduits shall be standard mild steel; hot galvanized or sherardized with an interior coating.

Conduits shall be 15mm minimum nominal diameter or otherwise as indicated in the Drawings.

All conduits shall be laid during the construction and shall be concealed in ceiling. All boxes, cabinets and other equipment shall be installed flush-mounted unless specified

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otherwise. All underground conduits shall be encased in concrete with minimum thickness of 10mm around conduit, and when outside the building, be reinforced sufficiently with steel bars.

All boxes for lighting outlets, convenience outlets, tumbler switches and other devices shall be galvanized and approved products of reputable manufacturers. Outlet boxes shall be 1.5mm thick (Gauge 16). Ceiling and wall outlet boxes shall be 10mm octagonal. Boxes for wall, 50mm x 100mm x 55mm deep, locally made. Cut ends of conduits shall be reamed and cleaned to remove burr and sharp edges. Threads cut on conduits shall be the same thread dimensions as factory cut conduit threads. Conduit joints shall be made straight and true. Elbows and offsets and changes in direction of runs and shall be uniform. Bends shall be made without chinking or destroying the cross-sectional contours of the conduits. Conduit terminals shall be provided at outlet boxes and cabinets with locknuts and bushing. Conduits shall be continuous from outlet and from outlet to pull boxes and cabinets in the manner that the conduit system shall be electrically continuous.

Where conduit runs are exposed, they shall be supported at an interval of 1.52m maximum with proper clamps and bolts or expansion shields or other means of support.

Wires shall be subject to the approval of the C.O. and Architect. Use one brand only. All splices taps, junction in wires larger than 8.0 sq.mm. shall be done with solderless connectors or suitable sizes properly insulated with rubber tapes and protected by friction tapes, so that the insulation strength shall at least be equal to the insulation of the conductors they join.

Smallest size of wire to be used for lighting and power unless otherwise indicated shall be 3.5sq.mm.

3. Plumbing, Sanitary and Drainage Works

a. Scope of Work

The Contractor shall complete the plumbing and drainage system as shown on the Plans and as specified herein in accordance with the National Plumbing Code of the Philippines and all other applicable local codes.

The Contractor shall execute his branch of work completely, even though some requirements are not contained the specification or indicated on the Plan.

The Contractor shall furnish and perform all skilled and unskilled labor, as well as all materials, piping, fittings, valves, fixtures and appliances necessary and required in doing and completing the entire plumbing and drainage installation. All excess materials, refuse, etc., are to be removed from the premises by him upon completion of his contract.

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b. Materials

All material, piping, fittings, valves, fixtures and appliances hereinafter specified and shown on the Plans and those which are essential and have not been specified shall be new and of the highest grade and quality, free from defects, such as breaks, flaws, or other imperfections.

i. Storm Drain

The storm drain is to be constructed of concrete pipe and fittings as indicated in the plans and extended from the connection in the street on the base of all catch basins as shown on the Plan. The joints are to be made of cement mortar consisting of a 50%-50% cement and sand mix.

ii. Drainage Pipes

Plain concrete drain pipe and fittings, T&G for 10-20 centimeters (4" to 8") diameter conforming to ASTM C-14-58; and reinforced concrete drain pipes and fittings for 10 and larger, centrifugal cast of vibrated, T&G conforming to ASTM C-76-59.

iii. Jointing Material

Use the part cement to two (2) parts sand in proportion, with yarning.

iv. Downspout, Fittings and Connections

PVC pipes as indicated in plans.

v. Roof Drains

Cast iron body, with removable lock type mushroom dome strainer clamping collar with Integral gravel guard, corrosion resistant clamping bolts, bronze expansion joint with graphite asbestos packing. Inside caulk connections, as indicated on the drawings.

vi. Area Drain – Catch Basin

Load-bearing concrete hollow blocks (CHB), or reinforced concrete with R.C. grating covers as shown on the drawings.

vii. Manholes

Manholes for the drainage lines outside the building shall be precast R.C. sections with galvanized steel ladder rungs and cast-iron frame and cover.

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viii. Building Storm Drain Connect to Mains

Use concrete wye branch and cleanout, T & G or by the use of junction boxes.

ix. Solid – Waste – Vent Line

All soil stacks are to be constructed of Waste Vent 4” (100mm), unless otherwise indicated on the Plans. Unplasticized Polyvinyl chloride (PVC) pipe and fittings shall be well supported and extended through the roof with at least 150mm from the roof surface. All waste pipes are to be constructed of PVC as approved by C.O. and Architect.

The soil, waste, and vent must be provided with cleanouts to make them accessible, and when completed be subjected to a water test in the presence of a local authority and the Construction Officer.

All drains installed in connection with waterproofed roofs shall be equipped with a clamping device.

When drains are installed in connection with membrane waterproofing, a sheet of 454 grams (16 oz.) copper sheet 30 centimeters square (1 square foot) shall be placed between the layers in an approved manner with hot asphalt, bonded to the membrane.

x. Sewer Pipe

Plain concrete sewer pipes and fittings, B & S for 100 to 200 millimeters (4” to 8”) diameter conforming to ASTM C-14-59 and reinforced concrete sewer pipes and fittings for 300mm (12”) and larger, B & S centrifugal cast or vibrated conforming to ASTM C-76-59T.

xi. Yarning Materials

Use Oakum for B & S joint with cement mortar filling the remaining annular space.

xii. Sewer Junction Box

Reinforced concrete with precast concrete cover as shown on the drawings

xiii. Soil and Waste Pipes

Use uPVC pipes as called for in the Plans

xiv. Vent Pipes

Cast iron soil pipes service weight or uPVC as indicated on the Plans

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xv. Shower and Floor Drains

Use high grade strong, tough and even grained metals. No shower floor drains must be on the way of people who may step on them.

xvi. Waste Distribution System

The building service is to be extended from the city main with Polyvinyl Chloride (PVC) pipe of extra strong quality and laid on a shelf in the trench of the storm drainage. It is to be equipped with a corporation stop, a curb stop with stop box extended flush with the grade and a meter stop.

xvii. Service Pipe from Existing Water Main

Either galvanized iron pipe ASTM schedule 40 with tar coating or approved equivalent as indicated on the Plan.

xviii. Pipes for Cold Water Line and Toilet Roughing-In

Polypropylene (PPR) pipes Schedule 40 and/or PVC as indicated on the Plans.

xix. Free Lines for Stand Pipes

G.I. Pipes Screwed Fittings shall be bended galvanized malleable iron, 1.72 Mpa (250 Psi) working pressure.

xx. Unions

Unions on ferrous pipes shall be malleable iron and shall conform to the requirements of U.S. Federal Specifications WW-U0-531, Type B zinc-coated.

xxi. Plumbing and Fixture Trim

Plumbing and fixture trim shall be provided complete with fittings. Exposed traps and supply pipes for all fixtures and equipment shall be connected to the rough piping systems at the wall unless otherwise indicated. Floor plates, wall plates and escutcheons shall be as required by the fixtures specified. Straps shall be provided at each fixture. Plumbing fixture compound shall be fixed for fixture connections between earthen ware fixtures and flanges on soil pipe. Closet bolts shall be not less than 8m. The exposed piping, fittings and trimmings shall be chromium-plated or nickel-plated brass with polished bright surfaces.

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Water Closet: ANSI A112.19.2; floor-mounted siphon-jet vitreous-china closet bowl, with elongated rim, 1-1/2 inch spud, china bolt caps. C. Flush Rate: the flush rate shall be 1.6 gallons per flush or less.

Or approved equal.

Urinal: ANSI A112.19.2; vitreous china, wall-hung washout urinal with shields, integral trap, removable stainless-steel strainer, 3/4-inch top spud, and steel supporting hanger. Flush Valve: ANSI A112.18.1; exposed, chrome-plated, diaphragm type with oscillating handle, escutcheon, integral screwdriver stop. Flush Rate: Pint unit, the flush rate shall be 1/8 gallons per flush or less.

Or approved equal.

Basin: ANSI A112.19.2; vitreous-china, pedestal mounted lavatory with 4-inch high back, drillings on 4 inch centers, rectangular basin with splash lip, front over flow, and soap depression. Faucet: Two-handle mixing disc valve. Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

Or approved equal.

xxii. Valves

All valves shall be of same manufacturer for each class of piping insofar as possible for the entire project. Gate, globe, and angle valves must be of disc type permitting repacking under pressure when wide open.

Gate valves shall be indicated with supervisory switch, OS & Y type.

Provide special tools required for repacking and disassembling valves. Valves should bear manufacturer's permanently affixed stamp for TAG indicating manufacturer, catalog number, pressure, and temperature rating.

xxiii. Drains

Provide with double drainage flange, perforated or slotted cast bronze or nickel bronze, stainless steel, or chromium plated copper alloy strainer, and adjustable collar. Drains of sizes 50, 80, and 100mm shall have strainers with minimum free drainage area of 3225, 7100, 11,610 square mm, respectively.

xxiv. G. I. Pipes and Fittings

ASTM A-120/A53 Schedule 40 GI Pipes and Accessories. Fittings shall be malleable iron, class 150, use screwed connection from 12mm dia. to 65mm dia. and flanged

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connection from 75mm dia. and larger. Apply seal tape, or paint with red oxide paint at all joint lengths. When buried underground, the GI pipe shall be coated with coal tar and wrapped with burlap for corrosion protection.

xxv. PVC Pipes and Fittings

Polyvinyl Chloride Piping shall be Series 1000 conforming to ASTM D 2729/ASTM D2665.

xxvi. Polypropylene Pipes and Fittings

Random Type 3, PN 20, high resistance to pressure and temperature, conforming to DIN specifications DIN 8077, DIN 8078, and DIN 16962 forming polyfusion homogenous joint. All threaded inserts should be made of nickel-plated brass conforming to DIN 2999.

c. Submittals

Submit samples of fixtures and pipes to Construction Officers (CO) prior to installation. Also submit working drawings upon the dictated of the CO.

d. Workmanship

All materials installed are to be concealed in building partitions wherever possible.

All piping must be substantially supported to overcome sagging and be so arranged that it may be easily drained.

e. Installation

i. Storm Drainage System

Provide a complete system of storm drainage piping for all roofs, set-back areas, parking areas and canopies. Connect to the house drainage system at the building wall.

Provide all drains required to conduct rain water from the building surfaces to the storm drainage system, including all of the scheduled drains and any special drains indicated on the Architectural and/or Plumbing Drawings. Take special care in roof drains to assure that they are set at an elevation which will practice the formation of puddles.

Install connectors to roof drains in conjunction with the roofing specified under specification of another trace and at all times as designated by the General Contractor so that the building is adequately protected from damage by storm water during

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construction, Storm drainage pipes, underdrains, open canals of trenches shall have slopes of not less than 0.005.

Make all branch connections to drainage system “wye” and long “tee-wye” fittings. Do not use short ¼bends, common offsets and double hubs. Use short “tee-wye” fittings, in vertical piping only, and only where space conditions will not permit the use of long turn fittings. Use only fittings that conform to code requirements.

ii. Drain Waste and Vent System

1. House Sewer System

Provide house sewers to conduct the sanitary drainage from the building to the main sewer system, including all piping, trenching, shoring, manholes and/or pumping as required, backfilling, final connection to the main sewers, street openings and repaving as required to make the system complete.

Make the connection to main sewers, open the street and repave in accordance with the requirements of the authorities.

Commence the sewer pipe installation at the connection to the main sewer with all spigot and pointing to the direction of flow. Lay all pipes with ends abutting and in a true line carefully centered from a sewer with uniform inverts.

2. Drainage Vent

Provide ventilating pipes from the various sanitary plumbing fixtures and other equipment which drainage connections are made. Connect ventilating pipes to the discharge of each trap and carry individually to a point above the rim of the fixture before connecting with any other pipe. In general, this will be approximately 1.067 meters (3 feet, 6 inches) above the finish floor. Pitch branch vents back to the fixtures.

Collect individual vent pipes together in branch vent lines and connect to vent stacks, paralleling soil and waste stacks. Whenever possible, vent stack offsets shall be made with 45-degree fittings. Vent stacks shall be connected to adjacent soil stacks at the base of the stacks.

Extend the tops of ventilating stacks independently through the roof or collect together and run through the roof in series of larger pipes, as shown on the drawings. Provide roof couplings at a level 45 millimeters (18 inches) above the finished roof to receive flashings.

iii. Cold Water System

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Provide a complete cold-water distribution system to supply water to all fixtures, water consuming equipment and valve outlets for the use of other Trades.

The system shall include the required meters and meter accessories.

The water supply system shall be complete with all pipe fittings, valves, meters, trenching, shoring, backfilling, mains, risers, branches, air chambers, controls, hangers, anchors, protective painting, insulation, tests, and the like, all as shown on the drawings, as hereinafter specified and in accordance with the regulations of authorities having jurisdiction.

Provide all metering devices, strainers, test connectors, etc., as required by the authorities and shall obtain approval of the installation without additional cost to the Owner.

Use materials as scheduled.

All equipment used in this system shall have capacities as scheduled.

Adjust all fixtures stops so that flush valves, faucets, etc., function quietly and efficiently before final acceptance by the Owner.

Provide tapping valves, curb valves, boxes and signs where required by the authorities having jurisdiction.

Provide all pipes, fittings, valves, street openings, excavation, backfill, repaving and the like, required to make the system complete.

f. Guarantee

The electrical contractor shall guarantee his work for a period of one (1) year from the date of acceptance of the Owner, with which time, he shall repair any defects and failures in any part of the system and replace defective materials, except those to the Owner.

g. "As Built" Drawings

Upon completion and before first acceptance of the work, the contractor shall prepare at his own expense and submit to the Architect "as built" drawings indicating in all detail the actual as-built conditions of the work required.

4. Thermal Insulation and Moisture Protection Works

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a. Roofing

i. Description

The work includes the repair/refurbishment of pre-painted Rib-type Long-span roofing complete with hardware and accessories.

ii. General

The work includes furnishing all materials and requirements performing all operations to provide a long span corrugated twin ribbed roofing and miscellaneous roofing works as required to provide an acceptable installation. Surfaces to which metal formed roofing sheets are to be applied shall be thoroughly cleaned and prepared, free from any defects that may affect the application. Metal formed roofing shall be locked and lapped and installed as applicable. Specific installation details shall be in accordance with manufacturer's recommended installation practice.

Metal formed roofing and sheets and accessories shall always be carefully handled in strong and handling to prevent damage to the surfaces, edges and ends and shall be slightly elevated for drainage.

Metal formed roofing and sheets and accessories shall be delivered to the site in the original sealed container or packages bearing the manufacturer's name and brand designated where materials are covered by a reference specification number, type and class as applicable.

iii. Installation

Lay and install the first sheet with the turned down edge towards the outside of the area to be covered. Overlap the next sheet to the previous sheet in such a manner that the exposed edge is turned down and the covered edge is turned up. Side up fasteners should be done by rivets and washers spaced from 300 mm to 450 mm on centers.

Care should be exercised in the proper anchorage of all roof frames.

Ridge strips for ridge rolls and ridge flashings are attached to the roofing sheets by means of rivets. Other flashings are to be fabricated from plain sheets of the same materials as the roofing in accordance with details and/or site requirements. These are also attached to roofing sheets by means of rivet.

iv. Temporary Protection

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Metal formed roofing sheet surfaces requiring protection from stains, discoloration, surface abrasion and other construction abuses shall be suitably protected in accordance with the manufacturer's recommendations.

v. Final Clearing

Upon completion, the Contractor shall clean the metal formed roofing sheets surfaces and drain line of burrs, leaves, stones and other foreign matter that may impair the flow of water. Surface shall be kept clean by periodic inspection.

b. Radiant Heat Barrier

i. Scope of Work

The Contractor shall furnish and install all labor and material to complete the work.

ii. Material

1. Radiant Barrier

Radiant Barrier shall be fire retardant aluminum foil for roof insulation. It shall have a 6-layer fire retardant double-sided aluminum foil laminate with superior radiant heat barrier properties. It shall be tearproof, waterproof and possesses the following properties.

Elongation	:	150% ASTM D882
Water Vapor Transmission	:	Greater than 5000 Mns/g ASTM E96-E
Water Vapor Permeance	:	Less than 0.20 ng/Ns Less than 0.004 (Perms) ASTM E96-E
Tensile Strength	:	M.D. 6.6 KN/m D.D. 5.0 KN/m C.D. 4.7 KN/m ASTM 828
Puncture Resistance	:	1.0 Joules T.APPA T800
Reflectivity	:	86% ASTM E466-71
Emissivity	:	5%
Roll Size	:	1.25m x 60m = 75.00 sq.m.
Weight	:	200 g/m ²
Thickness	:	0.190mm
Total R-Value (M ² K/W)	:	1.72

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Fire Retardant BS476 : Part 6 Class 0
Part 7 Class 1

iii. Workmanship

The product shall be delivered to the site in its original package or container bearing the manufacturers name and brand designation.

All materials shall be installed by skilled and selected workmen familiar with the product.

iv. Installation

The installation shall have a joint overlap of 75mm. It shall be unrolled foil down length of roof from ridge.

For further information, see manufacturer's specifications.

c. Elastomeric Waterproofing Membrane

i. Scope of Work

The Contractor shall furnish and install all materials and labor required to provide waterproofing on designated locations.

ii. Material

Elastomeric waterproofing membrane shall be liquid applied single component and made by a reputable manufacturer.

iii. Preparation

All surfaces to be waterproofed should be clean, sound and dry. Concrete surfaces should have a light steel-trowel followed by a fine hair-broom or equivalent finish that is dry and free from dust, oil and other contaminants. Remove all high spots. Moss and lichen must be removed physically followed by treatment with fungal wash down through and allow to dry. Lattence should be removed from concrete by grit blasting, wire brushing or water jet blasting and allowing to dry.

For installation procedure and other information, see manufacturer's specification.

d. Closed-Cell Spray Applied Polyurethane Foam Insulation

i. Scope of Work

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The Contractor shall furnish and install all materials and labor required to provide closed-cell spray applied polyurethane foam insulation on designated locations.

ii. Material

Closed-cell polyurethane foam insulation shall be a pressurized, spray applied viscous two component product comprised of diisocyanate and blended components including polyols, fire retarding compounds, catalysts, stabilizers, and non-ozone depleting blowing agents and made by a reputable manufacturer.

- Material should have the following specifications:
- Density of 40-50kg/m³ at 1 inch thickness
- Compressive Strength of 0.19 MPa
- Thermal Conductivity at 250c of 0.019 W/m-K
- R-Value of 6.9/ inch (ASTM C-518)
- Fire Rating of B3 (DIN 4102)
- Sound Transmission Coefficient of 43 (ASTM E-90-85/E413)

iii. Preparation

All surfaces to be waterproofed should be clean, sound and dry. Metal surfaces shall be prepared by removing all dust, oil and other contaminants. Roofing shall be made water-tight before application. Closed-cell spray applied polyurethane foam insulation is to be applied to the roofing surface to a thickness of two (2) inches, measured from the roof profile. Polyurethane membrane to be painted with one coat base primer and two coats acrylic type elastomeric roofing paint. Color as specified by C.O. or Architect.

For installation procedure and other information, see manufacturer's specification.

5. Health and Safety

General Guidelines

In compliance with Section 17 of DOLE D. O. No. 13, the implementation of construction safety shall be considered in all stages of project procurement (design, estimate, and construction) and its cost shall be integrated to the overall project cost under Pay Item "SPL-Construction Safety and Health" as a lump sum amount, to be quantified in the detailed estimate. Likewise, all requirements, provisions, and instructions pertaining to the implementation of Construction Safety and Health in every project shall be included in the project bidding documents specifically under the Instructions to Bidders.

Further considering industry practices and applicable government requirements, the following guidelines are hereby issued to all concerned:

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a. Definition of Terms

As used herein, the terms below shall be defined as follows:

a. Occupational Safety and Health – As defined is the:

- 1) Promotion and maintenance of the highest degree of physical, mental, and social well-being of workers in all occupation;
- 2) Prevention among its workers of any departures from health caused by their working conditions;
- 3) Protection among workers in their employment from risk usually from factors averse to health; and
- 4) Placing and maintenance of worker in an environment adopted to his/her psychological ability.

b. Occupational Safety and Health Standard (OSHS)

By the powers vested in the Department of Labor and Employment under Article 162 of the Labor Code of the Philippines, the Occupational Safety and Health Standards (OSHS) was promulgated for the guidance and compliance of all concerned with the main objective of protecting every workingman against the dangers of injury, sickness or death through safe and healthful working conditions, thereby assuring the conservation of valuable manpower resources and the preservation of loss or damage to lives and properties, consistent with national development goals and with the State's commitment for the development of every worker as a complete human being.

Likewise, further described as: rules and regulations implementing Article 162 (Safety and Health Standards), Book IV, Title I, P. 0.442; set of mandatory OSH standards which codifies all safety orders being enforced prior to its promulgation; and - contains administrative requirements, general safety and health rules, technical safety regulations, and other measures to eliminate or reduce OSH hazards in the work place.

- c. Construction Safety and Health Standards – shall mean Rule 1410, Construction Safety and other relevant rules of the Occupational Safety and Health Standards (as amended) of the Department of Labor and Employment (DOLE).
- d. Construction Safety and Health Program– refers to a set of detailed rules to cover the processes and practices that should be utilized in a specific construction site in conformity with the OSHS including the personnel responsible and the penalties for violations thereof.

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- e. Construction Safety and Health Officer – refers to safety personnel or any employee/worker trained by his employer to implement occupational safety and health programs in accordance with the provisions of DOLE D.O. No. 13 and the Occupational Safety and Health Standards (OSHS).
- f. Personal Protective Equipment (PPE) and Devices – are equipment and devices designed to protect employees from workplace injuries or illness resulting from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards. It also includes variety of devices and garments such as face shields, safety glasses, hard hats, safety shoes, goggles, coveralls, gloves, vests, earplugs, respirators, safety harness and lifelines.

b. Purpose

The purpose of these guidelines is to establish a uniform methodology in estimating the required resources (manpower and equipment) for the implementation of Construction Safety and Health Standards in the workplace in compliance with the provisions of DOLE D.O. No. 13.

c. Methodology

The minimum construction safety and health requirements for project shall be prepared during the detailed engineering stage.

In order to establish a uniform basis for estimating the required quantity of resources (manpower and equipment) for a project the following methodology shall be used.

a. Construction Safety and Health Program (CSHP)

Section 5 of the DOLE D.O. NO.13 provides that every construction project shall have a suitable Construction Safety and Health Program (CSHP).

For the purpose of these guidelines, all projects regardless of amount, funding source and mode of implementation shall comply with the minimum safety and health requirements.

The contractor's proposed CSHP shall be in accordance with DOLE D.O. No. 13, series of 1998 and its Procedural Guidelines to be submitted as part of the first envelope (Technical Proposal) during the bidding process and later the winning bidder shall submit the same for approval of the DPWH authority, subject to concurrence by DOLE-BWC.

For project to be implemented by administration, a CSHP shall also be prepared by the DPWH Implementing Office in accordance with the requirements of DOLE D. O. No.

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13, s. of 1998 and likewise it shall also be submitted to DPWH authority for approval and thereafter to be concurred also by the DOLE-BWC.

The required Construction Safety and Health Program (CSHP) for specific project shall include but not limited to the following:

- a. composition of the Safety and Health personnel responsible for the proper implementation of CSHP;
 - b. specific safety policies which shall be undertaken in the construction site, including frequency of and persons responsible for conducting toolbox and gang meetings;
 - c. penalties and sanctions for violations of the Construction Safety and Health Program;
 - d. frequency, content and persons responsible for orienting, instructing and training all workers at the site with regard to the Construction Safety and Health Program which they operate; and
 - e. the manner of disposing waste arising from the construction.
- b. Construction Safety and Health Organization

To ensure that the Construction Safety and Health Program are observed and implemented at the project site, at the start of D.O. No. 56 s. 2005 construction, each site shall have an established construction safety and health organization composed of the following personnel:

b.1 Safety Engineer/Officer

Section 7.1 of D.O. NO.13 states that "The general contractor must provide for a full time Officer, who shall be assigned as the General Construction Safety and Health Officer to oversee full time the overall management of the Construction Safety and Health Program".

Section 7.2 states that " The general contractor must provide for additional Construction Safety and Health Officer/s in accordance with the requirements for Safety Man / Officer of Rule 1033, Training and Personnel Complement, as amended by DOLE D.O. No. 16 depending on the total number of personnel assigned to the construction project site, to oversee the effective compliance with the Construction Safety and Health Program at the site, under the direct supervision of the General Construction Safety and Health Officer".

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For the purpose of these guidelines, and as recommended by DOLE, for every construction project with 100 and above workers, an accredited safety officer by DOLE-BWC shall be employed. Only the cost for the Construction Safety and Health Officer, whether on full time or part time basis, actually assigned at the construction site shall be included in the cost estimate.

On the part of the government, the implementing office shall designate as part of their project staff a Safety Engineer who shall be responsible for ensuring compliance with the pertinent DOLE Guidelines as well as the DPWH Guidelines on Occupational Safety and Health during the execution of the construction. The counterpart safety and health officer of the contractor shall closely coordinate and report to the government Safety Engineer.

b.2 Health Personnel

Rule 1412.01 of OSHS states that "at every construction site there shall be an organized and maintained medical and dental health service and personnel' conforming with Rule 1960 Occupational Health Services.

For the purpose of these guidelines only the medical and dental practitioners actually assigned in the project site and as required on the above stated Rule shall be included in the total cost of safety.

Manpower rates shall be based on the prevailing rates of such professionals in the area which is found favorable to the government.

Employment period shall be based on the approved project duration and shall be adjusted correspondingly as the duration increases/decreases.

c. Personal Protective Equipment and Devices (PPE)

Section 6 (Personal Protective Equipment) of D. O. No. 13 guidelines states that "every employer shall, at his own expense, furnish his workers with protective equipment for eyes, face, hands and feet, lifeline, safety belt/harness, protective shields and barriers whenever necessary by reason of the hazardous work process or environment, chemical or radiological or other mechanical irritants of hazards capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical agent".

All Personal Protective Equipment and Devices shall be in accordance with the requirement of the Occupational Safety and Health Standards (OSHS) and should pass the test conducted and/or standards sets by the Occupational Safety and Health Center (OSHC).

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For General Construction Work the required Basic PPEs for all workers shall be Safety Helmet, Safety Gloves and Safety Shoes. Specialty PPEs shall be provided to workers in addition to or in lieu of the corresponding basic PPE as the work or activity requires.

d. Signages and Barricades

Construction Safety Signages and Barricades shall be provided as a precaution and to advice the workers and the general public of the hazards existing in the worksite.

For road construction signages and barricades, it shall be in accordance with or in compliance to Department Circular No.9, Series of 2004 (Re: Road Safety Manuals and Handbooks) particularly on the 'Road Works Safety Manual.

e. Facilities

Section 16 of DOLE D.O. NO.13 requires that the employer shall provide the following welfare facilities in order to ensure humane working conditions;

- a. adequate supply of safe drinking water;
- b. adequate sanitary and washing facilities;
- c. suitable living accommodation for workers, and as may be applicable, for their families; and
- d. separate sanitary, washing and sleeping facilities for men and women workers.

For the purpose of these guidelines, facilities related to construction safety and health shall be in accordance with OSH Standards and the manner of costing shall be based on previously approved guidelines of the Department, duly quantified as a separate pay item.

f. Safety and Health Training

Section 13 of DOLE D.O. No. 13 requires that the contractor shall provide continuing construction safety and health training to all technical personnel under his employ.

d. Costing

In consideration of the cost involved of providing the necessary safety equipment and manpower for an effective implementation of safety in the workplace, and in compliance with DOLE D.O. No. 13, with safety as a separate pay item, the following shall be used as a guide:

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a. Personal Protective Equipment

The PPEs shall be provided by the Constructor, and its cost shall be duly quantified and made part of the overall cost of safety and health (SPL). The use of PPEs shall conform to Rule 1080, Personal Protective Equipment and Devices of OSHS.

b. Clinical Materials and Equipment

Clinical materials and equipment such as medicines, beds and linens, other related accessories shall be to the account of the Constructors implementing the project and shall be in accordance with Rule 1960, Occupational Health Services of OSHS.

c. Signages and Barricades

The quantities and cost of signages and barricades necessary for a specific item of work shall be quantified and made part of that particular pay item of work.

For general signages and barricades not included in specific pay item of work but necessary for promoting safety in and around the construction site, the quantities and cost shall be a separate pay item and included in the overall cost of safety and health (SPL).

d. Facilities

Facilities such as portable toilets, waste disposal, sanitary and washing facilities, convenient dwellings and office, adequate lighting, and other facilities related to construction safety and health shall be in accordance with OSH Standards and previously approved guidelines of the Department and shall be quantified and the cost thereof be made a separate pay item under "Facilities for the Engineers" and "Other General Requirements" as required in the DPWH Standard Specifications.

e. Salaries/wages of Health and Safety Personnel

Labor cost for the medical and safety personnel actually assigned in the field shall be included in the overall cost of safety and health (SPL). Duration of employment shall be based on project duration of the particular project.

g. Safety and Health Training

Cost associated for the provision of basic and continuing construction safety and health training to all safety and technical personnel shall be made part of the indirect/overhead cost of the project.

ITEM NUMBER	DESCRIPTION	UNIT OF MEASUREMENT
SPL – 2	Provision on Health and Safety	l.s.

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11.0 Securing of Occupancy Permit

The Occupancy building permits, clearances or licenses (when necessary) shall be provided by the Contractor. The Contractor shall pay all fees and other incidental expenses. The Contractor shall provide as-built plans/drawings (if applicable), duly accomplished construction logbook, certifications and other necessary documents to secure the Occupancy Permit in favor of the Philippine Sports Commission.

12.0 Cleaning/Hauling of Wastes and Debris and Cleaning of Site

After final inspection of all the works undertaken, remove all paint stains, temporary structures, installation, unused/scrap materials, wastes and debris. Dispose of them properly.

VII. GENERAL NOTES

The contractor shall be responsible in securing the necessary permits/licenses (Building, Electrical and Sanitary/Plumbing) from the Local Government Units (LGU's) and other government agencies in connection with the Rehabilitation and Upgrading of PSC Philsports Arena.

Other materials and workmanship not included on the above list but found necessary to complete the work shall be for the account of the contractor.

Sub-contractor/suppliers of major finishing materials (tiles, glass, paint, etc.) shall be a local or multi-national company with wholly owned Philippine subsidiary and shall have a similar local project of supply and installation of the above stated materials.

Sub-contractor of major finishing materials (ceramic tiles, etc.) shall be a *member of association of specialists on cleaning and restoration*.

The contractor shall be responsible for the safety measures during the implementation of the project and *must submit methodologies* in every finishing material required in the project.

Branded materials stated in the plans and specifications is the designer's reference of quality standards. *These products can be replaced provided that the replacement is approved of the same or higher quality.*

Restoration of floors, walls, ceiling affected by the Electrical works outside the area shall be the sole responsibility of the contractor.

The contractor shall *coordinate with PSC Project Architects, Engineers and Coordinators* in connection with the implementation of the project so as not to hamper with PSC operations.

The contractor is required to have the necessary and appropriate tools, instruments and equipment for the proper implementation of the project.

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The contractor shall submit the as built plans to PSC after the completion of the project. It is assumed that the bidder shall have full knowledge of the work and site condition, shall have reviewed the plans and specifications and bid documents, and thus warrants the availability of the work and materials upon submission of his bid proposal.

The contractor shall coordinate all aspects of the works in order to ensure a harmonious progress without interruptions, delays of modifications to work already completed.

The prospective bidder/contractor shall possess and submit with the eligibility documents a valid track record in undertaking related works.

All electrical (lighting systems, etc.) and other related facilities/equipment not included in the program of works that will be affected during the implementation of the project should be restored to their original operating condition/s at no additional cost to PSC authority.

VIII. PREVENTION OF ACCIDENT AND PUBLIC NUISANCE

General

The Contractor shall formulate adequate control measures in accordance with the relevant local laws and regulations regarding prevention of accidents, fires and public nuisances during the execution of the work.

The Contractor shall ensure that his workmen are aware, and shall so instruct the workmen, of good and safe working practices.

The Contractor's safety plan shall take into account, among other items, working in Restricted Areas, Contractor's Equipment; hand held power tools; percussion guns; air compressors and hoses; electrical equipment; fuels; use of dust masks, ear protectors, safety helmets and safety lines.

Prevention of Accidents

The Contractor shall formulate a safety plan for work at the Site to provide proper protection, especially at such places in the airfield Restricted Areas.

Pollution Control

The Contractor shall take all necessary steps to minimize noise, vibration, dust, soot, and other pollution resulting from the execution of the work.

IX. PERIOD OF WORK

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The Contractor shall complete the work within One hundred twenty (120) calendar days upon receipt of the Notice to Proceed. The contractor must work two (2) shifts per day to finish the work on time.

X. WARRANTY PERIOD

The Contractor shall submit a surety bond for a warranty period of one (1) year on materials and workmanship.

Any item found to be defective within the aforementioned period, the contractor shall immediately replace the said item/s at their own expense and no cost to PSC.

Any damage to life and property caused by the contractor operation within the vicinity of the facility covered by the project shall be the sole responsibility of the contractor.

XI. CONTRACTORS RISK AND WARRANTY SECURITY

1. The Contractor shall assume full responsibility for the works from the time of construction commenced up to final acceptance by the Procuring Entity's Representative/s and shall be held responsible for any damage or destruction of the works except those occasioned by force majeure. The Contractor shall be fully responsible for the safety, protection, security and convenience of his personnel, third parties and public at large, as well as the works, equipment, fabrication and installation and the like to be affected by his construction works and deliveries.
2. The defects liability period shall be one (1) year from the contract completion. The certificate of acceptance shall be issued by PSC after all defects have been corrected.

XII. ACCEPTANCE OF THE PROJECT

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Certificate of Acceptance will be issued upon approval of the END USER and the Head of the Procuring Entity.

Prepared by:

(Sgd.)
JUAN PAOLO B. DINGLASAN
 AutoCAD Operator
 Date: _____

(Sgd.)
ENGR. KEVIN MARCH ADOR DIONISIO
 Engineer II
 Date: _____

Checked & Reviewed by:

(Sgd.)
ENGR. PEDRO I. PINEDA
 Head, Engineering and Maintenance
 Date: _____

Name of Project : REHABILITATION AND UPGRADING OF PSC PHILSPORTS ARENA (ADDITIONAL WORKS) RE-BID
Location : PHILSPORTS COMPLEX, PASIG CITY
Owner : PHILIPPINE SPORTS COMMISSION
Subject : BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL
I.	Architectural Works	LOT	1		
II.	Electrical Works	LOT	1		
III.	Scaffolding Works	LOT	1		
IV.	Plumbing Fixtures	LOT	1		
V.	Waterproofing Works	LOT	1		
VI.	Site Development	LOT	1		

Total contract cost

In words: _____

In Figures: _____

Submitted By: _____

Name of Company: _____

Name of Authorized Signatory: _____

Designation: _____

Date: _____