

PHILIPPINE BIDDING DOCUMENTS

**Procurement of
INFRASTRUCTURE
PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF
ADDITIONAL COMFORT ROOMS
AT NAIA TERMINAL 1, 2 & 3**

**Sixth Edition
July 2020**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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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

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.

INVITATION TO BID FOR PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS AT NAIA TERMINAL 1, 2 & 3

1. The Manila International Airport Authority (MIAA) through the:

Source of funding and year: CY 2024 COB
Approved Budget to the Contract (ABC): PESOS: ONE HUNDRED TWENTY ONE MILLION NINE HUNDRED TWELVE THOUSAND FIVE HUNDRED NINETY FIVE AND 31/100 ONLY (PhP121,912,595.31) IN PHILIPPINE CURRENCY
Procurement Project/ Identification Number: Responsibility Center Code No. 24-E23D-10604010-22

Bids received in excess of the ABC shall be automatically rejected at bid opening.



Lot-procurement

The MIAA, through the (please refer to the above project particulars) being the ABC to payments under the contract for each lot/item. Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening.

2. The MIAA now invites bids for the above Procurement Project.

<i>Contract Duration</i>	Two Hundred Twenty Four (224) Calendar Days
<i>Bidders should have completed</i>	refer ITB to Clause 5.2

Bidders should have completed, from the date of submission and receipt of bids, 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 a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

4. Prospective Bidders may obtain further information from:

MIAA	AGM for Engineering	Design & Planning Division
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and inspect the Bidding Documents at the address given below during regular office hours.

5. A complete set of Bidding Documents may be acquired by interested Bidders on:

<i>From</i>	<i>To</i>	<i>Time</i>
03 January 2025	28 January 2025	8:00 AM-5:00 PM
28 January 2025		8:00 AM-12:00 NN

from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **PHP 50,000.00**¹. The Procuring Entity shall allow the bidder to present its proof of payment for the fees².

¹ APPENDIX 8, Guidelines on the Sale of Bidding Documents, Item 5.0;

² It may be presented in person, by facsimile, or through electronic means;

6. The **MIAA** will hold a Pre-Bid Conference³ on:

<i>Date</i>	<i>Time</i>	<i>Venue</i>
14 January 2025	2:00 PM	4/F, Audio Visual Room, MIAA Administration Building

and/or through video conferencing or webcasting⁴ which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat:

<i>Mode of Bid submission</i>	<i>Last day of submission</i>	<i>Time</i>
Manual submission	28 January 2025	12:00 NN.
LATE BIDS SHALL NOT BE ACCEPTED		

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 15.

9. Bid opening shall be on:

<i>Date</i>	<i>Time</i>	<i>Venue</i>
28 January 2025	2:00 PM	4/F, Audio Visual Room, MIAA Administration Building

and/or via social media⁵. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. [n/a] *[Insert such other necessary information deemed relevant by the Procuring Entity such as the use of a back-up data or cloud storage for large files uploaded for online bid submissions]*

11. The MIAA 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 IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

MR. BENJAMIN T. MANALILI III
 BAC Head Secretariat
 Bids and Awards Committee
 Nos. 88771109 Loc. 3736, 3838 and 3010
 e-mail: bac@miaa.gov.ph
 miaa.bac.secretariat@gmail.com

13. You may visit the following websites: www.miaa.gov.ph
www.philgeps.gov.ph
www.facebook.com/MIAAGovPH

For downloading of Bidding Documents:

For online bid submission:

³ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a Pre-Bid Conference.

⁴ via Facebook Live at Ninoy Aquino International Airport;

⁵ *ibid*;

Date of Issue

03 January 2025, FRIDAY

MGEN. MANUEL V. SEQUITIN, PA (RET) CESE
Chairperson, MIAA Bids and Awards Committee

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The MIAA wishes to receive Bids for the:

Project Name / Title	PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS AT NAIA TERMINAL 1, 2 & 3
Procurement Project/ Identification number	24-E23D-10604010-22

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

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

One (1)	Refer to Scope of Works (SOW) on the PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS AT NAIA TERMINAL 1, 2 & 3
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2. Funding Information

2.1. The GOP through the source of funding as indicated below in the amount of: PESOS: ONE HUNDRED TWENTY ONE MILLION NINE HUNDRED TWELVE THOUSAND FIVE HUNDRED NINETY FIVE AND 31/100 ONLY (Php121,912,595.31) IN PHILIPPINE CURRENCY;

2.2. The source of funding is: CY COB 2024

n/a Early procurement activity:
a. GOCC and GFIs, the proposed Corporate Operating Budget.

NOT an early procurement activity:
a. GOCC and GFIs, the Corporate Operating Budget.

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC)⁶ 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.

⁶ 2016 IRR, Sec. 23.4.2.5 The SLCC shall be supported by an Owner’s Certificate of Final Acceptance issued by the project owner other than the contractor or a final rating of at least Satisfactory in the Constructors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document shall be submitted;

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:
[Select one, delete other/s]

- N/A a. Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed fifty percent (50%) of the contracted Works.
- b. **Subcontracting is not allowed.**

- N/A 7.1. [If Procuring Entity has determined that subcontracting is allowed during the bidding , state:] The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.

- N/A 7.2 [If subcontracting is allowed during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.3 [If subcontracting is allowed during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.4 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:

<i>Date</i>	<i>Time</i>	<i>Venue</i>
14 January 2025	2:00 PM	4/F, Audio Visual Room, MIAA Administration Building

and/or through video conferencing/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 special PCAB License in case of Joint Ventures, 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:*

[Select one, delete the other/s]

a. Philippine Pesos.

b. A foreign-denominated bid as allowed by the Procuring Entity, which shall be tradeable or acceptable by the BSP.

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 *[refer to Sec. 28.1 of the 2016 IRR of RA 9184]*. 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 15 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

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

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: <u>General Building Project</u>
7.1	Refer to ITB Clause 7.1 (b)
10.3	Refer to Scope of Works/General Notes
10.4	The key personnel must meet the required minimum years of experience set below: <u>Key Personnel General Experience Relevant Experience</u> Refer to Scope of Works/General Notes/Bidder's Qualification
10.5	The minimum major equipment requirements are the following: <u>Equipment Capacity Number of Units</u> Refer to Scope of Works/General Notes
12	<i>[Insert Value Engineering clause if allowed.]</i> N/A
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: <ul style="list-style-type: none"> a. The amount of not less than Php2,438,251.91 <i>[two percent (2%) of ABC]</i>, 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 Php6,095,629.77 <i>[five percent (5%) of ABC]</i> if bid security is in Surety Bond.
19.2	Partial bids are allowed, as follows: <i>[Insert grouping of lots by specifying the items and the quantity for every identified lot.] [N/A]</i>
20	Bidders during post-qualification are required to submit certificates stated under Refer to Scope of Works/General Notes which shall be subject to verification. Other licenses and permits relevant to the Project and the corresponding law requiring it, e.g. Environmental Compliance Certificate, Certification that the project site is not within a geohazard zone.
21	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.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

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

6. Site Investigation Reports

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

7. Warranty

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

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.

Bid Form for the Procurement of Infrastructure Projects
[shall be submitted with the Bid]

BID FORM

Date : _____

Project Identification No. : _____

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines⁷ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a

⁷ currently based on GPPB Resolution No. 09-2020

formal Contract is prepared and executed; and

- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

Omnibus Sworn Statement (Revised)
[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

*[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the
Notice of Award]*

CONTRACT AGREEMENT

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the “Entity”) and *[name and address of Contractor]* (hereinafter called the “Contractor”).

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called “the Works”) and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - b. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;

- c. Performance Security;
 - d. Notice of Award of Contract and the Bidder’s conforme thereto; and
 - e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature]
[Insert Signatory's Legal Capacity]

for:
[Insert Procuring Entity]

[Insert Name and Signature]
[Insert Signatory's Legal Capacity]

for:
[Insert Name of Supplier]

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION **Project Identification No.: *[Insert number]***

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]*

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on he latest Rules on Notarial Practice]

Statement of all Government & Private Contract ongoing which are similar or not similar in nature and complexity as the Project subject of the Bidding

Business Name: _____

Business Address: _____

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Amount at Award b. Amount at Completion	a. Date Awarded b. Contract Effectivity
			Description	%		
Government						
Private						

Submitted by: _____

(Print Name and Signature)

Designation: _____

Date: _____

Statement of Single Largest Completed Contract which are similar in nature and complexity as the Project subject of the Bidding, equivalent to at least Fifty Percent (50%) of the ABC.

Business Name: _____

Business Address: _____

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Amount at Award b. Amount at Completion	a. Date Awarded b. Date Completed
			Description	%		
Government						
Private						

Note: **This statement shall be supported by the following:**

1. Owner's Certificate of Final Acceptance issued by the project owner other than the contractor or a final rating of at least Satisfactory in the Constructors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document shall be submitted.

Submitted by: _____
(Print Name and Signature)

Designation: _____

Date: _____

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
2	<i>[If different dates are specified for completion of the Works by section, i.e. “sectional completion,” these dates should be listed here.]</i>
4.1	<i>[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]</i>
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
10	<p><i>[Select one, delete the other:]</i></p> <p style="padding-left: 40px;">a. Dayworks are applicable at the rate shown in the Contractor’s original Bid.</p> <p style="padding-left: 40px;">b. No dayworks are applicable to the contract.</p>
11.1	The Contractor shall submit the Program of Work to the Procuring Entity’s Representative within <i>[insert number]</i> days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <i>[insert amount]</i> .
13	The amount of the advance payment is <i>[insert amount as percentage of the contract price that shall not exceed 15% of the total contract price and schedule of payment]</i> .
14	<i>[If allowed by the Procuring Entity, state:]</i> Materials and equipment delivered on the site but not completely put in place shall be included for payment.

15.1	The date by which operating and maintenance manuals are required is <i>[date]</i> . The date by which “as built” drawings are required is <i>[date]</i> .
15.2	The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required is <i>[amount in local currency]</i> .

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are

national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.

Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

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

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

SUMMARY

PROJECT PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS AT NAIA TERMINAL 1, 2 & 3

LOCATION NAIA TERMINAL 1, 2 & 3

Direct Cost (DC)	AMOUNT
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a	Civil Works
b	Electrical Works
c	Mechanical Works

DC	(a + b + c)
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Indirect Cost (IC)	AMOUNT
---------------------------	---------------

d	OCM (___%)
e	Profits (___%)
IC	(d + e)

Total Cost	AMOUNT
-------------------	---------------

f	(DC + IC)
	VAT (12%) f x 12%

TOTAL BID AMOUNT (DC + IC + VAT)

Submitted By:

Name and Signature of Authorized Representative

Name of Company

Date

General Notes:

1. All items not included in the Bill of Materials but necessary for the completion of the project shall be supplied by the Contractor at no Cost to the MIAA.
2. Use Excel In the computation of bid prices, the centavo component must be rounded off to the nearest 2 decimal points.
3. Items and Specifications should strictly conform to the Scope of Works.
4. The Bill of Materials / Quantities & Cost Estimate shall **not** exceed the following for OCM and Profit:

Estimated Direct Cost (EDC)	Allowable Maximum OCM as % of EDC	Allowable Maximum Profit as & of EDC
Up to Php5M	15	10
Above Php5M to Php50M	12	8
Above Php50M to Php150M	10	8
Above Php150M	8	8

Note: Failure to comply with the above for Bill of Materials submitted as part of the Bidder's Financial Documents shall be a ground for Post-disqualification.

Project	PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS					
Location	NAIA TERMINAL 1					
BILL OF MATERIALS						
ITEM NO.	DESCRIPTION	NO	QTY	UNIT	UNIT COST	AMOUNT
I	SITE WORKS					
	<i>A. Temporary Enclosure, Protection and Signages</i>					
	<i>Materials:</i>					
1	1/4" thk Ordinary Plywood		86.00	pcs		
2	2"x3" Coco Lumber		642.00	bd.ft		
3	Assorted Common Wire Nails		6.00	kgs		
4	#16 G.I. Tie Wire		12.00	kgs		
5	Flat Wall Enamel		12.00	gals		
6	9" Paint Roller Brush w/ 14" x 2" x 11" Paint Tray		4.00	pcs		
7	Caution Tape, 3" x 1000' (yellow)		6.00	roll		
8	Empty Sacks		30.00	pcs		
9	Safety Gloves		18.00	pairs		
10	Signage		4.00	sets		
11	Tarpaulin 4'x5'		4.00	pcs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	3.00	days		
2	Skilled Laborer	3	3.00	days		
3	Unskilled Laborer	6	3.00	days		
					<i>Labor Cost - A Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	2	3.00	days		
3	Unskilled Laborer	3	3.00	days		
					<i>Labor Cost - A Nightshift</i>	-

					<i>Direct Cost I-A</i>	-
	<i>B. Demolition, Excavation, Removal, Hauling to dumpsite</i>					
	<i>Cleaning and clearing</i>					
	<i>Equipment:</i>					
1	<i>Concrete Cutter</i>	2	16.00	days		
2	<i>Electric Jackhammer</i>	2	16.00	days		
3	<i>Demolition Hammer</i>	4	24.00	days		
4	<i>Dumptruck (11.5 m³)</i>	2	10.00	days		
					<i>Equipment Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	20.00	days		
2	Skilled Laborer	4	20.00	days		
3	Unskilled Laborer	12	20.00	days		
			<i>Labor Cost - A Dayshift</i>			-
	<i>Labor: Nightshift with night differentials</i>					
1	<i>Construction Foreman</i>	1	15.00	days		
2	Skilled Laborer	4	15.00	days		
3	Unskilled Laborer	5	15.00	days		
			<i>Labor Cost - A Nightshift</i>			-
	<i>Materials:</i>					
1	3" Tile Remover Bit		10.00	pcs		
2	Chisel Bit		10.00	pcs		
3	Cutting Disc 4"		10.00	pcs		
4	Sacks		50.00	pcs		
					<i>Material Cost</i>	-
					<i>Direct Cost I-B</i>	-
					<i>Direct Cost I</i>	-
II	FORMWORKS AND SCAFFOLDINGS					
	<i>Materials:</i>					

1	6mmthk x 4' x 8' Marine Plywood		26.00	pcs		
2	2" x 2" Rough Lumber		388.00	bd.ft		
3	2"x3" Coco Lumber		580.00	bd.ft		
4	Assorted Common Wire Nails		32.00	kgs		
				<i>Material Cost</i>		-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	4.00	days		
2	Skilled Laborer	2	5.00	days		
3	Unskilled Laborer	2	5.00	days		
				<i>Labor Cost - Dayshift</i>		-
	<i>Equipment:</i>					
1	1.5x1.2m H-Frame including cross brace joint pins,	10	3.00	month		
	G.I, Pipe Support and Cuplock/ Universal Clamp					
2	0.5x1.2m Steel Platform	10	3.00	month		
				<i>Equipment Cost</i>		-
	<i>Direct Cost II</i>					
						-
III	CONCRETING WORKS					
	<i>Materials:</i>					
1	Portland Cement (40kg/bag)		1,670.00	bags		
2	Sand		98.00	cu.m.		
3	Gravel		190.00	cu.m.		
4	12mm dia x 6m Deformed Bar Grade 275		90.00	pcs		
5	10mm dia x 6m Deformed Bar Grade 275		66.00	pcs		
6	#16 G.I. Tie Wire		24.00	kgs		
				<i>Material Cost</i>		-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	15.00	days		

2	Skilled Laborer	6	21.00	days		
3	Unskilled Laborer	12	21.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	5	15.00	days		
3	Unskilled Laborer	7	15.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Equipment:</i>					
1	Bar Cutter	2	10.00	days		
					<i>Equipment Cost</i>	-
					<i>Direct Cost III</i>	-
IV	MASONRY WORKS					
	<i>Materials:</i>					
1	4" thk CHB		4,816.00	pcs		
2	6" thk CHB		2,426.00	pcs		
3	Portland Cement (40kg/bag)		772.00	bags		
4	Sand		68.00	cu.m.		
5	10mm dia x 6m Deformed Bar Grade 275		404.00	pcs		
6	#16 G.I. Tie Wire		20.00	kgs		
7	10mm dia Expansion Shield		372.00	pcs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	10.00	days		
2	Skilled Laborer	6	15.00	days		
3	Unskilled Laborer	12	15.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					

1	Construction Foreman	1	5.00	days		
2	Skilled Laborer	5	7.00	days		
3	Unskilled Laborer	7	7.00	days		
			<i>Labor Cost - Nightshift</i>			-
	<i>Equipment:</i>					
1	Bar Cutter	1	10.00	days		
				<i>Equipment Cost</i>		-
				<i>Direct Cost IV</i>		-
V	TILE WORKS					
	<i>Materials:</i>					
1	0.6m x 0.6m Porcelain White Homogenous Floor Tiles		766.00	pcs		
2	0.6m x 0.6m Porcelain Matte Fin. Light Grey Homogenous Floor Tiles		304.00	pcs		
3	0.3m x 0.6 Homogenous Porcelain Tiles (Marble Design)		1,224.00	pcs		
4	0.3m x 0.6 Homogenous Porcelain Tiles (Wave Design)		1,526.00	pcs		
5	0.3m x 0.6 Homogenous Porcelain Tiles		3,300.00	pcs		
6	Portland Cement (40kg/bag)		408.00	bags		
7	Sand		30.00	cu.m.		
8	ABC Tile Adhesive (25kg/bag)		214.00	bags		
9	ABC Tile Grout (2kg/bag)		254.00	bags		
10	4" Diamond Cutter		24.00	pcs		
				<i>Material Cost</i>		-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	30.00	days		
2	Skilled Laborer	10	30.00	days		
3	Unskilled Laborer	16	30.00	days		
			<i>Labor Cost - Dayshift</i>			-

	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	2	15.00	days		
2	Skilled Laborer	10	15.00	days		
3	Unskilled Laborer	10	15.00	days		
			<i>Labor Cost - Nightshift</i>			-
	<i>Equipment:</i>					
1	Angle Grinder	4	30.00	days		
				<i>Equipment Cost</i>		-
				<i>Direct Cost V</i>		-
VI	CEILING WORKS					
	<i>Materials:</i>					
1	12mm thk x 1.2m x 2.4m Moist Shield Gypsum Board		194.00	pcs		
2	WPC Ceiling in Wood Grain Finish (Submit Sample)		52.00	sqm		
3	0.4mm thk x 25mm x 25mm x 3m Wall Angle		208.00	pcs		
4	Expansion Shield		92.00	pcs		
5	Steel Angle Bracket		526.00	pcs		
6	Threaded Bolt/ Rod, Full Thread Hanger Rod, 1/4" (6mm) x 3m		92.00	pcs		
7	Suspension Clip		526.00	pcs		
8	Carrying Channel - 0.80mm thk x 12mm x 38mm x 5m		166.00	pcs		
9	Carrying Joiner		62.00	pcs		
10	Locking Key (23mm)		1,090.00	pcs		
11	Furring Channel - 0.40mm thk x 19mm x 50mm x 5m		228.00	pcs		
12	Furring Joiner (23mm)		166.00	pcs		
13	Premium Jointing Compound (20kg/bag)		8.00	bag		
14	Premix Compound (28kg)		4.00	bag		
15	Paper Tape (75m/roll)		8.00	roll		
16	Screw 1"		32.00	box		

					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	7.00	days		
2	Skilled Laborer	5	10.00	days		
3	Unskilled Laborer	5	10.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	7.00	days		
2	Skilled Laborer	5	10.00	days		
3	Unskilled Laborer	5	10.00	days		
					<i>Labor Cost - Nightshift</i>	-
					<i>Direct Cost VI</i>	-
VII	DRY WALL					
	<i>Materials:</i>					
1	6mmthk x 1.2m x 2.4m Ficem Board		26.00	pcs		
2	1mm thk x 35mm x 102mm x 3m U-Tracks		30.00	pcs		
3	1mm thk x 35mm x 102mm x 3m C-Studs		74.00	pcs		
4	Mesh Tape (2" x 250 ft /roll)		2.00	roll		
5	1/8" x 3/8" Blind Rivets		1,256.00	pcs		
6	Gypsum Screw 1 1/2"		420.00	pcs		
7	Premium Jointing Compound (20kg/bag)		2.00	bags		
8	Wood Glue		4.00	gal		
9	Concrete Nail 1"		2.00	kg		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	3	3.00	days		
3	Unskilled Laborer	5	3.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Equipment:</i>					
1	Angle Grinder	4	3.00	days		

				<i>Equipment Cost</i>		-
				<i>Direct Cost VII</i>		-
VIII	CUBICLE PARTITIONS					
	<i>Supply and Installation:</i>					
	<i>Male Toilet:</i>					
1	12mm thk. Phenolic Cubicle Partitions w/ 2mm thk. S.S. Base Plate in Satin Finish		2	sets		
	4 - Cubicle					
	4 - Door with 3 - Divider					
	3600mm (L) x 1480 (W)					
2	12mm thk. Phenolic Cubicle Ledge (300mm x 900mm)		8	sets		
3	12mm thk. Phenolic Urinal Divider (400mm x 1200mm)		8	sets		
4	12mm thk. Phenolic Urinal Ledge (300mm x 850mm)		6	sets		
5	12mm thk. Phenolic Urinal Ledge (150mm x 800mm)		4	sets		
	<i>Female Toilet:</i>					
6	12mm thk. Phenolic Cubicle Partitions w/ 2mm thk. S.S. Base Plate in Satin Finish		2	sets		
	7 Cubicles					
	7 Doors with 6 Dividers					
	6300mm (L) x 1480 (W)					
7	12mm thk. Phenolic Cubicle Ledge (300mm x 900mm)		14	sets		
	<i>Janitor Room:</i>					
8	12mm thk. Phenolic Cubicle Ledge (150mm x 1680mm)		2	sets		
	<i>Foor Wash Room:</i>					
9	12mm thk. Phenolic Cubicle Ledge (150mm x 1000mm)		2	sets		
	<i>Family/PWD Room:</i>					

10	12mm thk. Phenolic Cubicle Ledge (150mm x 3025mm)		2	sets		
11	12mm thk. Phenolic Urinal Divider (400mm x 1200mm)		4	sets		
	<i>Male Toilet:</i>					
1.1	12mm thk. Phenolic Cubicle Partitions w/ 2mm thk. S.S. Base Plate in Satin Finish		2	sets		
	4 Cubicle					
	4 Door with 3 Divider					
	3600mm(w) x 1500mm(d) x 1800mm(h)					
2	12mm thk. Phenolic Watercloset Ledge (200mm x 900mm)		8	sets		
3	12mm thk. Phenolic Urinal Divider (450mm x 1100mm)		12	sets		
4	12mm thk. Phenolic Urinal Ledge (200mm x 900mm)		16	sets		
	<i>Female Toilet:</i>					
6.1	12mm thk. Phenolic Cubicle Partitions w/ 2mm thk. S.S. Base Plate in Satin Finish		2	sets		
	7 Cubicles					
	7 Doors with 6 Dividers					
	6300mm(w) x 1500mm(d)X 8200mm(h)					
7	12mm thk. Phenolic Watercloset Ledge (200mm x 900mm)		14	sets		
	<i>Kids Care Room:</i>					
6.1	12mm thk. Phenolic Cubicle Partitions w/ 2mm thk. S.S. Base Plate in Satin Finish		2	sets		
	1 Cubicles					
	1 Doors with Side Pilaster					
	900mm(w)					
8	12mm thk. Phenolic Urinal Divider (450mm x 1100mm)		6	sets		
9	12mm thk. Phenolic Urinal Ledge (200mm x 900mm)		6	sets		

			<i>Supply and Installation Cost</i>			-
	<i>Cubicle/Urinal Ledge:</i>					
1	12mm thk x 4' x 8' Phenolic Board		14.00	pcs		
2	Ga. 20 2"x6" Metal Stud		84.00	pcs		
3	Mesh Tape (2" x 250 ft /roll)		4.00	rolls		
4	1/8" x 3/8" Blind Rivets		278.00	pcs		
5	Gypsum Screw 1 1/2"		226.00	pcs		
6	Premium Jointing Compound (20kg/bag)		4.00	bags		
7	Wood Glue		4.00	gals		
8	Concrete Nail 1"		4.00	kgs		
				<i>Material Cost</i>		-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	3	5.00	days		
3	Unskilled Laborer	5	5.00	days		
			<i>Labor Cost - Dayshift</i>			-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	3	5.00	days		
3	Unskilled Laborer	5	5.00	days		
			<i>Labor Cost - Nightshift</i>			-
				<i>Direct Cost VIII</i>		-
IX	LAVATORY COUNTERS AND LEDGES					
	<i>Counter Top:</i>					
	<i>Supply and Installation:</i>					
1	Urinal Ledge - 12mm thk Synthetic stone countertop		48.00	sq.ft		
2	Male Toilet countertop - 12mm thk Synthetic stone countertop including 150mm splash board, 200mm skirt and accessories		211.33	sq.ft		

3	Female Toilet countertop - 12mm thk Synthetic stone countertop including 150mm splash board, 200mm skirt and accessories		123.33	sq.ft		
			Supply and Installation Cost			-
	<i>Steel Framing:</i>					
	<i>Materials:</i>					
1	20mm thk x 4'x8' Marine Plywood		36.00	pcs		
2	1 1/2" Black Screw		414.00	pcs		
3	Wood Glue		4.00	gals		
4	2mm thk x 50mm x 100mm x 6m C-Channel		44.00	pcs		
5	12mm thk x 75mm Expansion Bolt		284.00	pcs		
6	10mm thk x L550mm x (H1=25mm; H2=50mm) Steel Plate		56.00	pcs		
7	10mm thk x 100mm x 150mm Steel Plate		56.00	pcs		
8	Welding Rod		8.00	kgs		
9	Oxygen (Refill)		4.00	tanks		
10	Acetylene (Refill)		4.00	tanks		
			<i>Material Cost</i>			-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	5.00	days		
2	Skilled Laborer	3	5.00	days		
3	Unskilled Laborer	5	5.00	days		
			<i>Labor Cost - Dayshift</i>			-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	2.00	days		
2	Skilled Laborer	2	3.00	days		
3	Unskilled Laborer	4	3.00	days		
			<i>Labor Cost - Nightshift</i>			-
	<i>Equipment:</i>					
1	Electric Handdrill	2	3.00	days		

2	Electric Welding Machine	2	5.00	days		
3	Oxy-Acetylene Cutter	2	3.00	days		
			<i>Labor Cost - Nightshift</i>			-
				<i>Direct Cost IX</i>		-
X	MISCELLANEOUS WORKS					
	A. Doors					
	<i>Materials:</i>					
1	45mm thk. Flush Door w/ KD Solid Wood Frames and 150mm x 45mm thk. Solid KD Wood Jambs, w/ Ga. #18 S.S. Accent Strips w/ 6mm U-Groove and Ga. #18 S.S. Kick Plates on both sides in Satin Finish, w/ 6mm thk. Laminated Marine Plywood Face in Wood Grain Finish both sides - 900mm x 2100mm		4.00	sets		
	<i>Accessories:</i>					
	Heavy Duty WPC Sight Proof Stationary Louvers in Wood Grain Finish					
	1 set - Dorma Lever Handle D-type w/ both Side Key Cylinder Satin, S.S.					
	4 pcs - Ball-bearing Butt. Hinges (4 1/2" X 4") S.S.					
	4 sets - Wall Anchors per Jamb @ Hinge and Strike Levels, and Floor Anchors drilled for 9.525mm Anchor Bolts at bottom of each Jamb Member					
2	45mm thk. Flush Door w/ KD Solid Wood Frames and 150mm x 45mm thk. Solid KD Wood Jambs, w/ Ga. #18 S.S. Accent Strips w/ 6mm U-Groove and Ga. #18 S.S. Kick Plates on both sides in Satin Finish, w/ 6mm thk. Laminated Marine Plywood Face in		2.00	sets		

	Wood Grain Finish both sides - 800mm x 2100mm					
	<i>Accessories:</i>					
	Heavy Duty WPC Sight Proof Stationary Louvers in Wood Grain Finish					
	1 set - Dorma Lever Handle D-type w/ both Side Key Cylinder Satin, S.S.					
	4 pcs - Ball-bearing Butt. Hinges (4 1/2" X 4") S.S.					
	4 sets - Wall Anchors per Jamb @ Hinge and Strike Levels, and Floor Anchors drilled for 9.525mm Anchor Bolts at bottom of each Jamb Member					
3	45mm thk. Flush Door w/ KD Solid Wood Frames and 150mm x 45mm thk. Solid KD Wood Jambs, w/ Ga. #18 S.S. Accent Strips w/ 6mm U-Groove and Ga. #18 S.S. Kick Plates on both sides in Satin Finish, w/ 6mm thk. Laminated Marine Plywood Face in Wood Grain Finish both sides - 600mm x 2100mm		10.00	sets		
	<i>Accessories:</i>					
	Heavy Duty WPC Sight Proof Stationary Louvers in Wood Grain Finish					
	1 set - Dorma Lever Handle D-type w/ both Side Key Cylinder Satin, S.S.					
	4 pcs - Ball-bearing Butt. Hinges (4 1/2" X 4") S.S.					
	4 sets - Wall Anchors per Jamb @ Hinge and Strike Levels, and Floor Anchors drilled for 9.525mm Anchor Bolts at bottom of each Jamb Member					

				<i>Material Cost A</i>		-
	<i>B. Backboard Framing:</i>					
1	20mm thk x 4'x8' Marine Plywood		40.00	pcs		
2	1mm thk. X4' x 8' Wood Grain Laminating Sheet		30.00	pcs		
3	1 1/2" Black Screw		256.00	pcs		
4	Wood Glue		4.00	gals		
5	Contact Cement		2.00	gals		
6	1mm thk x 35mm x 102mm x 3m Metal U-Track		6.00	pcs		
7	1mm thk x 35mm x 102mm x 3m Metal Studs		12.00	pcs		
8	Mesh Tape (2" x 250 ft /roll)		2.00	rolls		
9	1/8" x 3/8" Blind Rivets		476.00	pcs		
10	Gypsum Screw		250.00	pcs		
11	Premium Jointing Compound (20kg/bag)		2.00	gals		
12	Concrete Nail 1"		2.00	kgs		
				<i>Material Cost B</i>		-
	<i>C. Base Boards:</i>					
13	12mmthk. x 4" x 8" Ficem Board Substrate		56.00	pcs		
14	All Purpose Epoxy A & B		4.00	gals		
15	#22 S.S. Satin Finish Base Board w/ 12mm thk. Ficem Board Backing (Ficed Mounted) - 300mm (H)		100.00	l.m.		
16	#22 S.S. Satin Finish Base Board w/ 12mm thk. Ficem Board Backing (Ficed Mounted) - 360mm (H)		30.00	l.m.		
17	#22 S.S. Satin Finish Door Trim (Fixed Mounted) - 150mm x 170mm x 50mm		28.00	l.m.		
				<i>Material Cost C</i>		-
	<i>D. Modular Shelf:</i>					

18	20mm thk x 4' x 8' Marine Plywood		6.00	pcs		
19	1mm thk. X4' x 8' Wood Grain Laminating Sheet		6.00	pcs		
20	Soft-Closing Hinges		8.00	sets		
21	Metal Catches		8.00	sets		
22	Cabinet Pull Handle, 20x25mm, S.S. Heavy Duty		4.00	sets		
23	Cabinet Lock		4.00	sets		
24	1 1/2" Black Screw		66.00	pcs		
25	Contact Cement		2.00	gals		
26	Wood Glue		2.00	gals		
27	Sanding Paper #100		2.00	oz		
28	Sanding Paper #200		2.00	oz		
					<i>Material Cost D</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	10	15.00	days		
3	Unskilled Laborer	12	15.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	<i>Construction Foreman</i>	1	10.00	days		
2	Skilled Laborer	7	10.00	days		
3	Unskilled Laborer	8	10.00	days		
					<i>Labor Cost - Nightshift</i>	-
					<i>Direct Cost X</i>	-
XI	PLUMBING WORKS					
	<i>A. Water Line</i>					
1	PPR Pipe PN 20 - 40mmØ x 6.7mm x 4m		16.00	pcs		
2	PPR Pipe PN 20 - 25mmØ x 4.2mm x 4m		112.00	pcs		
3	PPR Pipe PN 20 - 20mmØ x 3.4mm x 4m		28.00	pcs		
4	PPR Coupling - 25mmØ		72.00	pcs		
5	PPR Coupling - 20mmØ		16.00	pcs		
6	PPR Tee - 25mmØ		112.00	pcs		

7	PPR Tee - 20mmØ		34.00	pcs		
8	PPR Tee Reducer - 40mmØ x 25mmØ		18.00	pcs		
9	PPR Tee Reducer - 40mmØ x 20mmØ		2.00	pcs		
10	PPR Tee Reducer - 25mmØ x 20mmØ		48.00	pcs		
11	PPR Elbow 90° - 25mmØ		130.00	pcs		
12	PPR Elbow 90° - 20mmØ		16.00	pcs		
13	PPR Elbow Female Adapter - 25mmØ x 3/4"		42.00	pcs		
14	PPR Elbow Female Adapter - 20mmØ x 1/2"		26.00	pcs		
15	PPR Straight Male Adapter - 25mmØ x 3/4"		30.00	pcs		
16	PPR Straight Male Adapter - 20mmØ x 1/2"		8.00	pcs		
17	End Cap - 25mmØ		14.00	pcs		
18	Angle Valve - 25mmØ		114.00	sets		
19	Angle Valve - 20mmØ		50.00	sets		
20	Gate Valve - 25mmØ		30.00	sets		
21	Gate Valve - 20mmØ		4.00	sets		
22	PPR Pipe Cutter		4.00	pcs		
23	Solvent Cement - 100cc		22.00	cans		
				<i>Material Cost</i>		
				<i>- A</i>		-
	B. Sewer Line					
1	PVC Pipe Series 1000 - 150mmØ x 3m		46.00	pcs		
2	PVC Pipe Series 1000 - 100mmØ x 3m		90.00	pcs		
3	PVC Pipe Series 1000 - 50mmØ x 3m		106.00	pcs		
4	PVC Coupling - 150mmØ		18.00	pcs		
5	PVC Coupling - 100mmØ		42.00	pcs		
6	PVC Coupling - 50mmØ		120.00	pcs		
7	PVC Tee - 50mmØ		164.00	pcs		
8	PVC Cross Tee - 50mmØ		2.00	pcs		
9	PVC Tee Reducer - 150mmØ x 100mmØ		8.00	pcs		
10	PVC Tee Reducer - 100mmØ x 50mmØ		10.00	pcs		
11	PVC Bend 1/4 (90°) - 100mmØ		40.00	pcs		

12	PVC Bend 1/4 (90°) - 50mmØ		242.00	pcs		
13	PVC Bend 1/8 (45°) - 100mmØ		142.00	pcs		
14	PVC Bend 1/8 (45°) - 50mmØ		124.00	pcs		
15	PVC Coupling Reducer - 100mmØ x 50mmØ		22.00	pcs		
16	PVC Wye - 100mmØ		46.00	pcs		
17	PVC Wye - 50mmØ		34.00	pcs		
18	PVC Wye Reducer - 150mmØ x 100mmØ		32.00	pcs		
19	PVC Wye Reducer - 100mmØ x 50mmØ		194.00	pcs		
20	PVC C.O Set - 100mmØ		34.00	sets		
21	PVC P-trap - 50mmØ		44.00	sets		
22	S.S. Bottle Trap w/ Tailpiece - 50mmØ		42.00	sets		
23	Solvent Cement - 100cc		56.00	cans		
				<i>Material Cost - B</i>		-
	<i>C. Plumbing Fixtures</i>					
1	Water Closet - Water-saving wall-hung elongated (w/proguard) 556x376x400mm,3/4.5L Quite-closed seat w/complete accessories & fittings; Brackets/In-wall carrier; toilet sensor - sensor activated w.c. flushometer (concealed toilet flush valve) AC version 158mm x 158mm L Adjustable at 4L, 6L water pressuer at 0.05-0.86 Mpa; Hygiene Spray (bidet)- Stainless Steel 304 w/ hose & bracket		50	pcs		
2	Lavatory - wash basin under counter w/ cefiontect glaze 600x 422x209mm w/ complete fiiting and accessories;		36	pcs		

	Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose.					
2a	Lavatory- W430xL500 wash basin wall-hung w/ necessary fittings & access. Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose selectronic waterflow.		6	pcs		
3	Urinal - wall hung, BD-back inlet 460x374x690mm w/ concealed urinal flush valve (w/ manual button)		26	pcs		
3a	Kids Urinal - wall-hung, BD-back inlet 350x320x605mm w/concealed urinal flush valve (w/ manual button 160x160x140mm)		14	pcs		
4	Facial Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm)		44	pcs		
4a	Full Body Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted		8	pcs		

	by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm)					
5	Janitor Sink - Fiberglass slop-laundry sink w/ lever type chrome handle faucet		2	pcs		
6	Diaper Change - Horizontal folding type, wall-mounted W893xH661mmx102mm High density polyethylene w/ microban		6	pcs		
7	Child Protection Seat - Vertical compact fold-away design long base		6	pcs		
8	Hand Dryer - Double sided automatic jet speed touch free hand dryer infra-red activation		16	pcs		
9	Paper Towel Dispenser / Waste Receptacle combined - recessed		16	pcs		
9a	Paper Towel Dispenser - Rolled Sensor-type		8	pcs		
10	W.C. Grab Bar - Wall to Wall type Anti-Bacterial ABS Grab Bar		4	pcs		
11	W.C. Grab Bar - Flip-up type Anti-Bacterial ABS Grab Bar (Side)		8	pcs		
12	Floor Drain - SS, pop-up floor drain strainer, (150 x 150mm)		88	pcs		
13	Faucet w/ Foot Rest - Lever type handle sink tap w/ swivel spout		4	pcs		
14	Shower Seat - Foldable wall-mounted		2	pcs		
15	Hand Sanitizer - Sensor-type sanitizer, battery-operated		2	pcs		
16	Soap Dispenser - Sensor-type, battery-operated		20	pcs		
17	Trash Bin (Step Can) - W168 x H361cm , 10L capacity, S.S.		26	pcs		

	brushed, soft-close, fingerprint-proof, w/ plastic bag fixer						
18	Trash Bin (Open Trash Can) - 6½ x 14" x 13½"H, 2.6 gal. profile open trash can, S.S. brushed, fingerprint proof, removable inner bucket		2	pcs			
					<i>Material Cost - C</i>		-
	<i>Labor: Dayshift</i>						
1	Construction Foreman	1	60.00	days			
2	Skilled Laborer	7	90.00	days			
3	Unskilled Laborer	10	90.00	days			
					<i>Labor Cost A-D - Dayshift</i>		-
	<i>Labor: Nightshift with night differentials</i>						
1	<i>Construction Foreman</i>	1	30.00	days			
2	Skilled Laborer	7	45.00	days			
3	Unskilled Laborer	7	45.00	days			
					<i>Labor Cost A-D - Nightshift</i>		-
					<i>Direct Cost XI</i>		-
XII	PAINTING WORKS						
	<i>Materials:</i>						
1	Chalk Blocker		10.00	gals			
2	Flat Latex		16.00	gals			
3	Semi-Gloss Latex		30.00	gals			
4	Masonry Putty		12.00	gals			
5	Concrete Neutralizer		38.00	gals			
6	Flat Wall Enamel		22.00	gals			
7	Semi-Gloss Enamel		40.00	gals			
8	Glazing Putty		18.00	gals			
9	Primer Red Oxide		6.00	gals			
10	Quick Drying Enamel		8.00	gals			
11	Paint Thinner		6.00	gals			
12	Cementitious Waterproofing		152.00	gals			
13	Stucco Cement		14.00	gals			

14	Paint Brush 2"		18.00	bags		
15	Paint Roller 7"		18.00	pcs		
16	Paint Brush 1"		18.00	pcs		
17	Spatula		18.00	pcs		
18	Sanding Paper #100, #200		18.00	sets		
19	Newspaper		18.00	doz		
20	Rugs		18.00	kgs		
				<i>Material Cost</i>		-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	7.00	days		
2	Skilled Laborer	5	10.00	days		
3	Unskilled Laborer	7	10.00	days		
			<i>Labor Cost - Dayshift</i>			-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	5.00	days		
2	Skilled Laborer	5	10.00	days		
3	Unskilled Laborer	5	10.00	days		
			<i>Labor Cost - Nightshift</i>			-
			<i>Direct Cost XII</i>			-
	TOTAL CIVIL WORKS DIRECT COST-NAIA T1		<i>PHP</i>			-

Project: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS

Location: NAIA TERMINAL 1, 2 & 3

BILL OF MATERIALS

No.	Description	Qty	Unit	Unit Cost	Amount
II	ELECTRICAL WORKS				
	TERMINAL 1				
A	CR EAST (PREVIOUSLY TRAVEL FREE)				
1	12watts LED downlight fixture, 220V, 4000k Color Temp. (daylight), 1200lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty.	42	sets		
2	12 watts LED Panel Emergency Downlight with Batterypack, 220V, 4000k Color Temp. (daylight), 900lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty. Emergency Battery Pack, 2+ hours duration, 12V 4000mA-4500mAh	4	sets		
3	LED Strip Light, Wattage: 8w/m, CT: 2700k (warm white), Lumens: 300lm/m, Width: 14mm, 50m/roll	2	rolls		
4	Universal Convenience Outlet, 3-Pronged, 1-Gang (recessed mounted) with Plate Cover	6	pcs		
5	Strip Light Power Cord, Max Rated Power: 400w	20	pcs		
6	Strip Light Clamp, Width: 14mm	250	pcs		
7	3-Gang One Way Switch (recessed mounted) with Plate Cover	1	sets		
8	2-Gang One Way Switch (recessed mounted) with Plate Cover	4	sets		
9	Utility Box, Metal, Heavy Duty	11	sets		
10	Junction box, deep type, heavy duty with cover	95	sets		
11	3.5 mm sq. THHN Electrical Copper Wire 150m/roll	4	rolls		
12	5.5 mm sq. THHN Electrical Copper Wire 150m/roll	2	rolls		
13	8.0 mm sq. THHN Electrical Copper Wire 150m/roll	1	roll		
14	22.0 mm sq. THHN Electrical Copper Wire 150m/roll	1	roll		
15	15 mm dia. Flexible Metallic Conduit	50	meters		
16	15 mm dia. IMC with Coupling 10ft/length	82	length		
17	15 mm dia. IMC locknut & bushing	500	pairs		
18	15 mm dia. Metal Straight Connector	200	pcs		
19	25 mm dia. IMC with Coupling 10ft/length	50	length		
20	25 mm dia. IMC locknut & bushing	100	pairs		
21	25 mm dia. Metal Straight Connector	100	pcs		
22	Conduit Metal Clamp	280	pcs		
23	Strut Channel 10ft/length	40	length		
24	15 mm dia. Strut Clamp	70	pcs		
25	25 mm dia. Strut Clamp	100	pcs		
26	10 mm dia. Bolt and Nut / washer	1000	sets		
27	10mm full threaded rod 10ft/length	400	length		
28	10mm Anchor Grip	100	pcs		
29	Pull Box 4in x 4in x 4in	25	pcs		
30	Pull Box 15in x 4in x 4in	4	pcs		
31	10mm Anchor Grip	150	pcs		

32	Panelboard: (Surface Mounted) Main: 75AT, 100AF, 3Φ, Bolt On Industrial Circuit Breaker Branches: 4 - 20AT, 75AF, 2P, Bolt On Circuit Breaker 4 - 30AT, 75AF, 2P, Bolt On Circuit Breaker	2	assy		
33	Plastic Vinyl Insulation Tape (3/4in x 36yds)	10	rolls		
34	Rubber Tape	10	rolls		
35	G.I. wire Guage 16	10	kg		
	TOTAL MATERIAL COST				
	LABOR				
	TOTAL BUDGETARY AMOUNT				

Project: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS

Location: NAIA TERMINAL 1, 2 & 3

BILL OF MATERIALS

No.	Description	Qty	Unit	Unit Cost	Amount
II	ELECTRICAL WORKS				
	TERMINAL 1				
B	CR WEST (PREVIOUSLY DUTY FREE)				
1	12watts LED downlight fixture, 220V, 4000k Color Temp. (daylight), 1200lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty.	42	sets		
2	12 watts LED Panel Emergency Downlight with Batterypack, 220V, 4000k Color Temp. (daylight), 900lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty. Emergency Battery Pack, 2+ hours duration, 12V 4000mA-4500mAh	4	sets		
3	LED Strip Light, Wattage: 8w/m, CT: 2700k (warm white), Lumens: 300lm/m, Width: 14mm, 50m/roll	2	rolls		
4	Universal Convenience Outlet, 3-Pronged, 1-Gang (recessed mounted) with Plate Cover	6	pcs		
5	Strip Light Power Cord, Max Rated Power: 400w	20	pcs		
6	Strip Light Clamp, Width: 14mm	250	pcs		
7	3-Gang One Way Switch (recessed mounted) with Plate Cover	1	sets		
8	2-Gang One Way Switch (recessed mounted) with Plate Cover	4	sets		
9	Utility Box, Metal, Heavy Duty	11	sets		
10	Junction box, deep type, heavy duty with cover	95	sets		
11	3.5 mm sq. THHN Electrical Copper Wire 150m/roll	4	rolls		
12	5.5 mm sq. THHN Electrical Copper Wire 150m/roll	2	rolls		
13	8.0 mm sq. THHN Electrical Copper Wire 150m/roll	1	roll		
14	22.0 mm sq. THHN Electrical Copper Wire 150m/roll	1	roll		
15	15 mm dia. Flexible Metallic Conduit	50	meters		
16	15 mm dia. IMC with Coupling 10ft/length	82	length		
17	15 mm dia. IMC locknut & bushing	500	pairs		
18	15 mm dia. Metal Straight Connector	200	pcs		
19	25 mm dia. IMC with Coupling 10ft/length	50	length		
20	25 mm dia. IMC locknut & bushing	100	pairs		
21	25 mm dia. Metal Straight Connector	100	pcs		
22	Conduit Metal Clamp	280	pcs		
23	Strut Channel 10ft/length	40	length		
24	15 mm dia. Strut Clamp	70	pcs		
25	25 mm dia. Strut Clamp	100	pcs		
26	10 mm dia. Bolt and Nut / washer	1000	sets		
27	10mm full threaded rod 10ft/length	400	length		
28	10mm Anchor Grip	100	pcs		
29	Pull Box 4in x 4in x 4in	25	pcs		
30	Pull Box 15in x 4in x 4in	4	pcs		
31	10mm Anchor Grip	150	pcs		
32	Panelboard: (Surface Mounted) Main: 75AT, 100AF, 3Φ, Bolt On Industrial Circuit Breaker Branches: 4 - 20AT, 75AF, 2P, Bolt On Circuit Breaker 4 - 30AT, 75AF, 2P, Bolt On Circuit Breaker	2	assy		

33	Plastic Vinyl Insulation Tape (3/4in x 36yds)	10	rolls		
34	Rubber Tape	10	rolls		
35	G.I. wire Guage 16	10	kg		
	TOTAL MATERIAL COST				
	LABOR				
	TOTAL BUDGETARY AMOUNT				

Project: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS

Location: NAIA TERMINAL 1, 2 & 3

BILL OF MATERIALS

No.	Description	Qty	Unit	Unit Cost	Amount
II	ELECTRICAL WORKS				
	TERMINAL 1				
C	CR 305				
1	12watts LED downlight fixture, 220V, 4000k Color Temp. (daylight), 1200lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty.	45	sets		
2	12 watts LED Panel Emergency Downlight with Battery pack, 220V, 4000k Color Temp. (daylight), 900lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty. Emergency Battery Pack, 2+ hours duration, 12V 4000mA-4500mAh	5	sets		
3	LED Strip Light, Wattage: 8w/m, CT: 2700k (warm white), Lumens: 300lm/m, Width: 14mm, 50m/roll	3	rolls		
4	Universal Convenience Outlet, 3-Pronged, 1-Gang (recessed mounted) with Plate Cover	10	pcs		
5	Strip Light Power Cord, Max Rated Power: 400w	40	pcs		
6	Strip Light Clamp, Width: 14mm	200	pcs		
7	1-Gang One Way Switch (recessed mounted) with Plate Cover	6	sets		
8	2-Gang One Way Switch (recessed mounted) with Plate Cover	2	sets		
9	Utility Box, Metal, Heavy Duty	20	sets		
10	Junction box, deep type, heavy duty with cover	125	sets		
11	3.5 mm sq. THHN Electrical Copper Wire 150m/roll	8	rolls		
12	5.5 mm sq. THHN Electrical Copper Wire 150m/roll	8	rolls		
13	8.0 mm sq. THHN Electrical Copper Wire 150m/roll	2	roll		
14	22.0 mm sq. THHN Electrical Copper Wire 150m/roll	3	roll		
15	15 mm dia. Flexible Metallic Conduit	50	meters		
16	15 mm dia. IMC with Coupling 10ft/length	130	length		
17	15 mm dia. IMC locknut & bushing	505	pairs		
18	15 mm dia. Metal Straight Connector	200	pcs		
19	25 mm dia. IMC with Coupling 10ft/length	315	length		
20	25 mm dia. IMC locknut & bushing	1000	pairs		
21	25 mm dia. Metal Straight Connector	400	pcs		
22	Conduit Metal Clamp	1400	pcs		
23	Strut Channel 10ft/length	50	length		
24	15 mm dia. Strut Clamp	77	pcs		
25	25 mm dia. Strut Clamp	140	pcs		
26	10 mm dia. Bolt and Nut / washer	1500	sets		
27	10mm full threaded rod 10ft/length	200	length		
28	10mm Anchor Grip	200	pcs		
29	Pull Box 4in x 4in x 4in	25	pcs		
30	Pull Box 15in x 4in x 4in	4	pcs		
31	10mm Anchor Grip	200	pcs		
32	Panelboard: (Surface Mounted) Main: 75AT, 100AF, 3Φ, Bolt On Industrial Circuit Breaker Branches: 4 - 20AT, 75AF, 2P, Bolt On Circuit Breaker 4 - 30AT, 75AF, 2P, Bolt On Circuit Breaker	2	assy		

33	Plastic Vinyl Insulation Tape (3/4in x 36yds)	15	rolls		
34	Rubber Tape	10	rolls		
35	G.I. wire Guage 16	10	kg		
	TOTAL MATERIAL COST				
	LABOR				
	TOTAL BUDGETARY AMOUNT				

Project: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS

Location: NAIA TERMINAL 1, 2 & 3

BILL OF MATERIALS

No.	Description	Qty	Unit	Unit Cost	Amount
II	ELECTRICAL WORKS				
	TERMINAL 1				
D	CR 306				
1	12watts LED downlight fixture, 220V, 4000k Color Temp. (daylight), 1200lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty.	45	sets		
2	12 watts LED Panel Emergency Downlight with Battery pack, 220V, 4000k Color Temp. (daylight), 900lm, 8in whole dia. (recessed mounted) 120° beam angle, 40,000 burning hours min., frosted glass cover, 2years warranty. Emergency Battery Pack, 2+ hours duration, 12V 4000mA-4500mAh	5	sets		
3	LED Strip Light, Wattage: 8w/m, CT: 2700k (warm white), Lumens: 300lm/m, Width: 14mm, 50m/roll	3	rolls		
4	Universal Convenience Outlet, 3-Pronged, 1-Gang (recessed mounted) with Plate Cover	10	pcs		
5	Strip Light Power Cord, Max Rated Power: 400w	40	pcs		
6	Strip Light Clamp, Width: 14mm	200	pcs		
7	1-Gang One Way Switch (recessed mounted) with Plate Cover	6	sets		
8	2-Gang One Way Switch (recessed mounted) with Plate Cover	2	sets		
9	Utility Box, Metal, Heavy Duty	20	sets		
10	Junction box, deep type, heavy duty with cover	125	sets		
11	3.5 mm sq. THHN Electrical Copper Wire 150m/roll	8	rolls		
12	5.5 mm sq. THHN Electrical Copper Wire 150m/roll	8	rolls		
13	8.0 mm sq. THHN Electrical Copper Wire 150m/roll	2	roll		
14	22.0 mm sq. THHN Electrical Copper Wire 150m/roll	3	roll		
15	15 mm dia. Flexible Metallic Conduit	50	meters		
16	15 mm dia. IMC with Coupling 10ft/length	130	length		
17	15 mm dia. IMC locknut & bushing	505	pairs		
18	15 mm dia. Metal Straight Connector	200	pcs		
19	25 mm dia. IMC with Coupling 10ft/length	315	length		
20	25 mm dia. IMC locknut & bushing	1000	pairs		
21	25 mm dia. Metal Straight Connector	400	pcs		
22	Conduit Metal Clamp	1400	pcs		
23	Strut Channel 10ft/length	50	length		
24	15 mm dia. Strut Clamp	77	pcs		
25	25 mm dia. Strut Clamp	140	pcs		
26	10 mm dia. Bolt and Nut / washer	1500	sets		
27	10mm full threaded rod 10ft/length	200	length		
28	10mm Anchor Grip	200	pcs		
29	Pull Box 4in x 4in x 4in	25	pcs		
30	Pull Box 15in x 4in x 4in	4	pcs		
31	10mm Anchor Grip	200	pcs		
32	Panelboard: (Surface Mounted) Main: 75AT, 100AF, 3Φ, Bolt On Industrial Circuit Breaker Branches: 4 - 20AT, 75AF, 2P, Bolt On Circuit Breaker 4 - 30AT, 75AF, 2P, Bolt On Circuit Breaker	2	assy		

33	Plastic Vinyl Insulation Tape (3/4in x 36yds)	15	rolls		
34	Rubber Tape	10	rolls		
35	G.I. wire Guage 16	10	kg		
	TOTAL MATERIAL COST				
	LABOR				
	TOTAL BUDGETARY AMOUNT				

TOTAL ELECTRICAL WORKS - NAIA T1					
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PROJECT: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS

LOCATION: NAIA Terminal 1, 2 & 3

BILL OF MATERIALS

Item No.	Description	Qty.	Unit	Unit Cost	Amount
III	MECHANICAL WORKS				
	TERMINAL 1				
A	CR EAST & WEST				
	Supply and Installation				
1	Cabinet Fan 370CMH & 490 CMH	2.00	units		
2	300x300x1 m Exhaust Air Duct (EAD)	60.00	pcs		
3	Electrical Feeder Line	2.00	lot		
4	Grilles & Hangers	2.00	lot		
5	Mobilization/ Scaffolding	1.00	lot		
SUPPLY & INSTALLATION COST A					
B	CR 305 & 306				
	Supply and Installation				
1	Cabinet Fan 370CMH & 490 CMH	2.00	units		
2	300x300x1 m Exhaust Air Duct (EAD)	60.00	pcs		
3	Electrical Feeder Line	2.00	lot		
4	Grilles & Hangers	2.00	lot		
5	Mobilization/ Scaffolding	1.00	lot		
6	Installation of Sprinkler Isolation Valve	2.00	sets		
7	Relocation of Sprinklers	266.00	sq.m		
SUPPLY & INSTALLATION COST B					

TOTAL DIRECT COST - MECHANICAL WORKS NAIA T1

Project:	PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOM
Location:	NAIA TERMINAL 2

B I L L O F M A T E R I A L S

ITEM NO.	DESCRIPTION	NO	QTY	UNIT	UNIT COST	AMOUNT
I	SITE WORKS					
	<i>A. Temporary Enclosure, Excavation, Removal, etc.</i>					
	<i>Materials:</i>					
1	1/4" thk Ordinary Plywood		113.00	pcs		
2	2" x 2" Coco Lumber		791.00	bd.ft		
3	2" x 3" Coco Lumber		477.00	bd.ft		
4	Assorted Common Wire Nails		25.00	kgs		
5	#16 G.I. Tie Wire		18.00	kgs		
6	3" x 1000' Caution Tape (Yellow)		14.00	rolls		
7	Empty Sack Bags		230.00	pcs		
8	Safety Gloves		35.00	pairs		
9	Signage		24.00	sets		
10	4' x 5' Tarpaulin		12.00	rolls		
				<i>Material Cost - A</i>		-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	2	5.00	days		
3	Unskilled Laborer	3	5.00	days		
				<i>Labor Cost - A Dayshift</i>		-
	<i>Labor: Nightshift with Night differentials</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	2	5.00	days		
3	Unskilled Laborer	3	5.00	days		
				<i>Labor Cost - A Nightshift</i>		-

						<i>Direct Cost - I-A</i>	-
	<i>B. Hauling to dumpsite, Cleaning and Clearing</i>						
	<i>Materials:</i>						
1	3" Tile Remover Bit		10.00	pcs			
2	Chisel Bit		10.00	pcs			
3	4" Cutting Disc		10.00	pcs			
4	Empty Sack Bags		50.00	pcs			
						<i>Material Cost - B</i>	-
	<i>Labor: Dayshift</i>						
1	Construction Foreman	1	3.00	days			
2	Skilled Laborer	3	5.00	days			
3	Unskilled Laborer	5	5.00	days			
						<i>Labor Cost - B Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>						
1	Construction Foreman	1	3.00	days			
2	Skilled Laborer	3	5.00	days			
3	Unskilled Laborer	5	5.00	days			
						<i>Labor Cost - B Nightshift</i>	-
	<i>Equipments:</i>						
1	Demolition Hammer	5	5.00	days			
2	Dumptruck	1	2.00	days			
						<i>Equipment Cost - B</i>	-
						<i>Direct Cost I-B</i>	-
						<i>Direct Cost I</i>	-
II	FORMWORKS AND SCAFFOLDS						
	<i>Column, Column Stiffener, Floor Beam, Roof Beam, Lintel Beam</i>						
	<i>Girder and Floor Slab</i>						
	<i>Materials:</i>						

1	12mm thk x 4' x 8' Marine Plywood		425.00	pcs	
2	2" x 2" Coco Lumber		12,037.00	bd.ft	
3	2" x 3" Coco Lumber		9,841.00	bd.ft	
4	Assorted Common Wire Nails		658.00	kgs	
				<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	15.00	days	
2	Skilled Laborer	8	17.00	days	
3	Unskilled Laborer	8	17.00	days	
				<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>				
1	Construction Foreman	1	15.00	days	
2	Skilled Laborer	8	17.00	days	
3	Unskilled Laborer	8	17.00	days	
				<i>Labor Cost - Nightshift</i>	-
	<i>Equipments:</i>				
1	Scaffoldings - fixed and movable scaffoldings including all necessary hardware accessories which includes cross brace, ledge, joint pins, G.I. Pipe Support, Cuplock/ Universal Clamp all necessary accessories	400	4.00	months	
2	0.5 x 1.2m Steel Platform	400	4.00	months	
				<i>Equipment Cost</i>	-
				<i>Direct Cost II</i>	-
III	CONCRETE WORKS				
	<i>A. Column, Column Stiffener, Column Footing, Footing Tie Beam, Floor Beam, Roof Beam, Girder, Lintel Beam, Floor Slab and Roof Slab</i>				
	<i>Materials:</i>				
1	Portland Cement (40kg/ bag)		2,908.00	bags	

2	Sand		165.00	cu.m.	
3	Gravel		332.00	cu.m.	
4	10mm Ø x 6m Deformed Bar Grade 275		1,386.00	pcs	
5	12mm Ø x 6m Deformed Bar Grade 275		2,797.00	pcs	
6	20mm Ø x 6m Deformed Bar Grade 275		2,124.00	pcs	
7	25mm Ø x 6m Deformed Bar Grade 275		248.00	pcs	
8	#16 G.I. Tie Wire		480.00	kgs	
				<i>Material Cost - A</i>	-
	<i>B. Steel Decking</i>				
	<i>Materials:</i>				
1	1.2mm x 0.92m x L.S. Steel Decking Base Metal Type ASTM A466 coiled-rolled 550 Mpa (80,000 PSi) Coating: Zinc= 120 to 150 gms/ m ²		480.00	l.m.	
2	#12 x 20mm Tek screw		1,450.00	pcs	
3	6013 x 1/8" Ø Welding Rod (20kg/ box)		8.00	boxes	
4	14" Cut-Off Disc		6.00	pcs	
5	Delivery Charges		1.00	lot	
				<i>Material Cost - B</i>	-
	<i>Labor: Dayshift</i>				
1	Structural Engineer	1	45.00	days	
2	Construction Foreman	2	45.00	days	
3	Skilled Laborer	12	60.00	days	
4	Unskilled Laborer	24	60.00	days	
				<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>				
1	Structural Engineer	1	10.00	days	
2	Construction Foreman	2	30.00	days	
3	Skilled Laborer	8	45.00	days	
4	Unskilled Laborer	16	45.00	days	

					<i>Labor Cost - Nightshift</i>	-
	<i>Equipments:</i>					
1	Electric Handrill	2	45.00	days		
2	Electric Angle Grinder	2	45.00	days		
3	Electric Welding Machice	2	45.00	days		
4	Oxy-Acetylene Cutter	2	45.00	days		
5	Portable Cut-Off Machine	2	45.00	days		
6	Improvised Lifting Equipment	2	30.00	days		
7	Concrete Mixer (2 - Bagger)	2	50.00	days		
					<i>Equipment Cost</i>	-
					<i>Direct Cost III</i>	-
IV	MASONRY WORKS					
	<i>Materials:</i>					
1	100mm thk CHB		2,174.00	pcs		
2	150mm thk CHB		7,134.00	pcs		
3	Portland Cement (40kg/ bag)		1,505.00	bags		
4	Sand		35.00	cu.m.		
5	10mm Ø x 6m Deformed Bar Grade 275		608.00	pcs		
6	#16 G.I. Tie Wire		34.00	kgs		
7	10mm Ø Expansion Shield		487.00	pcs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	7.00	days		
2	Skilled Laborer	12	7.00	days		
3	Unskilled Laborer	24	7.00	days		
					<i>Labor Cost -Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>					
1	Construction Foreman	2	5.00	days		

2	Skilled Laborer	8	5.00	days	
3	Unskilled Laborer	16	5.00	days	
					<i>Labor Cost - Nightshift</i>
					-
					Direct Cost IV
					-
V	TILE WORKS				
	<i>Materials:</i>				
1	0.6m x 0.6m Porcelain White Homogenous Floor Tiles		260.00	pcs	
2	0.6m x 0.6m Porcelain Matte Finish Light Grey Homogenous Floor Tiles		692.00	pcs	
3	0.3m x 0.6m Super White Polished Finish Porcelain Wall Tiles		3,286.00	pcs	
4	Portland Cement (40kg/ bag)		383.00	bags	
5	Sand		27.00	cu.m.	
6	ABC Tile Adhesive (25kg/ bag)		7.00	bags	
7	ABC Tile Grout (2kg/ bag)		103.00	bags	
8	4" Diamond Cutter		23.00	pcs	
					<i>Material Cost</i>
					-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	2	21.00	days	
2	Skilled Laborer	12	25.00	days	
3	Unskilled Laborer	24	25.00	days	
					<i>Labor Cost - Dayshift</i>
					-
	<i>Labor: Nightshift with Night differentials</i>				
1	Construction Foreman	2	7.00	days	
2	Skilled Laborer	8	10.00	days	
3	Unskilled Laborer	16	10.00	days	
					<i>Labor Cost - Nightshift</i>
					-
	<i>Equipment:</i>				
1	Angle Grinder	2	20.00	days	
					<i>Equipment Cost</i>
					-

					Direct Cost V	-
VI	CEILING WORKS					
	<i>Materials:</i>					
1	6mm thk x 1.2m x 2.4m Fiber Cement Board		9.00		pcs	
2	12mm thk x 1.2m x 2.4m Moist Shield Gypsum Board		141.00		pcs	
3	0.4mm thk x 25mm x 25mm x 3m Wall Angle		190.00		pcs	
4	Expansion Shield		54.00		pcs	
5	Steel Angle Bracket		307.00		pcs	
6	Suspension Rod (4mm, 3.6m)		54.00		pcs	
7	Suspension Clip		307.00		pcs	
8	Carrying Channel (30mm x 0.55mm)		98.00		pcs	
9	Carrying Joiner		37.00		pcs	
10	Locking Key (23mm)		635.00		pcs	
11	Furring Channel (23mm x 0.45mm)		133.00		pcs	
12	Furring Joiner (23mm)		98.00		pcs	
13	Premium Jointing Compound (20kg/ bag)		13.00		bags	
14	Premix Compound (28kg)		5.00		bags	
15	Paper Tape (75m/ roll)		9.00		rolls	
16	1" Screw (1000pcs/ box)		19.00		boxes	
					Material Cost	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	4.00		days	
2	Skilled Laborer	2	7.00		days	
3	Unskilled Laborer	4	7.00		days	
					Labor Cost - Dayshift	-
	<i>Labor: Nightshift with Night differentials</i>					
1	Construction Foreman	1	4.00		days	
2	Skilled Laborer	2	7.00		days	
3	Unskilled Laborer	4	7.00		days	

						<i>Labor Cost - Nightshift</i>	-
						Direct Cost VI	-
VII	DRYWALL						
	<i>Materials:</i>						
1	6mm thk x 1.2m x 2.4m Fiber Cement Board		20.00		pcs		
2	2mm thk x 50mm x 75mm x 6m G.I. Wall Studs		50.00		pcs		
3	2" Mesh Tape (75m/ roll)		3.00		rolls		
4	1/8" x 3/8" Blind Rivets (100pcs/ bag)		3.00		bags		
5	Gypsum Screw (100pcs/ box)		8.00		boxes		
6	Premium Jointing Compound (20kg/ bag)		4.00		bags		
7	Wood Glue		1.00		gal		
8	2" Concrete Nail		2.00		kgs		
						<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>						
1	Construction Foreman	1	3.00		days		
2	Skilled Laborer	2	3.00		days		
3	Unskilled Laborer	4	3.00		days		
						<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>						
1	Construction Foreman	1	3.00		days		
2	Skilled Laborer	2	3.00		days		
3	Unskilled Laborer	4	3.00		days		
						<i>Labor Cost - Nightshift</i>	-
						Direct Cost VII	-
VIII	CUBICLE PARTITIONS						
	<i>Supply and Installation:</i>						
	Male Toilet:						
1	12mm thk. Phenolic Cubicle Partitions w/ 2mm thk. S.S. Base Plate		2.00		set		

7	Wood Glue		3.00	gals	
8	2" Concrete Nail		4.00	kgs	
				<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	2.00	days	
2	Skilled Laborer	2	5.00	days	
3	Unskilled Laborer	4	5.00	days	
				<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>				
1	Construction Foreman	1	2.00	days	
2	Skilled Laborer	2	5.00	days	
3	Unskilled Laborer	4	5.00	days	
				<i>Labor Cost - Nightshift</i>	-
				Direct Cost VIII	-
IX	LAVATORY COUNTERS				
	Counter Top:				
	<i>Supply and Installation:</i>				
1	Male Lavatory - 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		144.00	sq.ft.	
2	Female Lavatory - 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		158.00	sq.ft.	
3	PWD Lavatory - 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		11.00	sq.ft.	
4	Male Cubicle - 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		25.00	sq.ft.	
5	Female Cubicle - 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		45.00	sq.ft.	

6	PWD - 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		2.00	sq.ft.	
<i>Supply and Installation Cost</i>					-
Steel Framing:					
<i>Materials:</i>					
1	20mm thk x 4' x 8' Marine Plywood		12.00	pcs	
2	2mm thk x 50mm x 100mm x 6m C-Channel		33.00	pcs	
3	12mm thk x 75mm Expansion Bolt		110.00	pcs	
4	10mm thk x L550mm x (H1= 100mm; H2= 50mm) Steel Plate		55.00	pcs	
5	10mm thk x 100mm x 150mm Steel Plate		55.00	pcs	
6	Welding Rod		3.00	kgs	
7	Oxygen (Refill)		3.00	tanks	
8	Acetylene (Refill)		3.00	tanks	
<i>Material Cost</i>					-
<i>Labor: Dayshift</i>					
1	Construction Foreman	1	2.00	days	
2	Skilled Laborer	2	5.00	days	
3	Unskilled Laborer	4	5.00	days	
<i>Labor Cost - Dayshift</i>					-
<i>Labor: Nightshift with Night differentials</i>					
1	Construction Foreman	1	2.00	days	
2	Skilled Laborer	2	5.00	days	
3	Unskilled Laborer	4	5.00	days	
<i>Labor Cost - Nightshift</i>					-
<i>Equipment:</i>					
1	Electric Handrill	4	2.00	days	
2	Electric Welding Machine	4	5.00	days	
3	Oxy-Acetylene Cutter	4	2.00	days	
<i>Equipment Cost</i>					-

	4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4") S.S. 4 - Wall anchors per jamb at hinge and strike levels, and floor anchors drilled for 9.525mm anchor bolts at bottom of each jamb member					
3	D - 3 , 12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 1 - Door with Side Pilaster 1300 mm (W)	2.00		set		
4	W - 1 , Awning Window (0.60m x 4m) w/ 6mm thk. Clear glass panels on Analok aluminum frames w/ complete accessories	4.00		sets		
5	#22 S.S. Satin Fin. Tile Trim	17.00		l.m.		
6	#22 S.S. Satin Fin. Door Trim (50mm x 150mm)	48.00		l.m.		
7	#22 S.S. Satin Fin. Baseboard (H=300mm)	49.00		l.m.		
				<i>Material Cost - A</i>		-
B. Seismic Expansion Joint						
<i>Materials:</i>						
1	6" Floor to Floor Stainless Steel Seismic Expansion Joint	30.00		l.m.		
				<i>Material Cost - B</i>		-
<i>Labor: Dayshift</i>						
1	Construction Foreman	1	18.00	days		
2	Skilled Laborer	2	25.00	days		
3	Unskilled Laborer	4	25.00	days		
				<i>Labor Cost - Dayshift</i>		-
<i>Labor: Nightshift with Night differentials</i>						
1	Construction Foreman	1	18.00	days		
2	Skilled Laborer	2	25.00	days		
3	Unskilled Laborer	4	25.00	days		
				<i>Labor Cost - Nightshift</i>		-

				Direct Cost X	-
XI	PLUMBING WORKS				
	<i>A. Miscellaneous</i>				
1	100mm Ø Brass Dome Roof Drain	10.00	pcs		
2	Janitor's Shelf - includes 2-20mm thk Marine Plywood painted finish (white) with complete accessories (300mm x 2500mm)	2.00	sets		
				<i>Material Cost - A</i>	-
	<i>B. Water Line</i>				
1	PPR Pipe - 50mm Ø x 4m	97.00	pcs		
2	PPR Pipe - 40mm Ø x 4m	100.00	pcs		
3	PPR Pipe - 32mm Ø x 4m	81.00	pcs		
4	PPR Pipe - 25mm Ø x 4m	31.00	pcs		
5	PPR Straight Coupling - 50mm Ø	98.00	pcs		
6	PPR Straight Coupling - 40mm Ø	101.00	pcs		
7	PPR Straight Coupling - 32mm Ø	82.00	pcs		
8	PPR Straight Coupling - 25mm Ø	32.00	pcs		
9	PPR Straight Coupling Reducer - 50mm Ø x 40mm Ø	4.00	pcs		
10	PPR Tee - 50mm Ø	8.00	pcs		
11	PPR Tee - 40mm Ø	6.00	pcs		
12	PPR Tee - 32mm Ø	22.00	pcs		
13	PPR Tee Reducer - 50mm Ø x 40mm Ø	6.00	pcs		
14	PPR Tee Reducer - 40mm Ø x 32mm Ø	49.00	pcs		
15	PPR Tee Reducer - 40mm Ø x 25mm Ø	27.00	pcs		
16	PPR Straight Male Adapter - 50mm Ø	9.00	pcs		
17	PPR Straight Male Adapter - 40mm Ø	29.00	pcs		
18	PPR Elbow 90° - 50mm Ø	7.00	pcs		
19	PPR Elbow 90° - 40mm Ø	16.00	pcs		
20	PPR Elbow 90° - 32mm Ø	87.00	pcs		
21	PPR Elbow 90° - 25mm Ø	38.00	pcs		
22	PPR Elbow Reducer - 50mm Ø x 40mm Ø	8.00	pcs		

20	PVC Wye Reducer - 100mm Ø x 75mm Ø	65.00	pcs	
21	PVC Wye Reducer - 100mm Ø x 50mm Ø	8.00	pcs	
22	PVC Tee - 100mm Ø	31.00	pcs	
23	PVC Tee - 75mm Ø	24.00	pcs	
24	PVC Tee - 50mm Ø	38.00	pcs	
25	PVC Cross Wye - 100mm Ø	4.00	pcs	
26	PVC Cross Wye Reducer - 100mm Ø x 75mm Ø	4.00	pcs	
27	PVC C.O. Set - 100mm Ø	16.00	pcs	
28	PVC C.O. Set - 75mm Ø	10.00	pcs	
29	P-Trap - 75mm Ø	29.00	pcs	
30	Bottle Trap - 75mm Ø	32.00	cans	
			<i>Material Cost - C</i>	-
<i>D. Plumbing Fixtures</i>				
1	Water Closet - Water-saving wall-hung elongated (w/ proguard) 556x376x400mm, 3/4.5L Quite-closed seat w/complete accessories & fittings; Brackets/In-wall carrier; toilet sensor - sensor activated w.c. flushometer (concealed toilet flush valve) AC version 158mm x 158mm L Adjustable at 4L, 6L water pressuer at 0.05-0.86 Mpa; Hygiene Spray (bidet)- Stainless Steel 304 w/ hose & bracket	40.00	sets	
2	Lavatory - wash basin under counter w/ cefiontect glaze 600x 422x209mm w/ complete fiiting and accessories; Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose. & flexible hose	24.00	sets	
2a	Lavatory- W430xL500 wash basin wall-hung w/ necessary fittings & access. Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose selectronic waterflow.	5.00	sets	
3	Urinal - wall hung, BD-back inlet 460x374x690mm w/ concealed urinal flush valve (w/ manual button)	27.00	sets	

3a	Kids Urinal - wall-hung, BD-back inlet 350x320x605mm w/ concealed urinal flush valve (w/ manual button 160x160x140mm)		4.00	sets	
4	Facial Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm)		25.00	sets	
5	Janitor Sink - Fiberglass slop-laundry sink w/ lever type chrome handle faucet		4.00	sets	
6	Diaper Change - Horizontal folding type, wall-mounted W893xH661mmx102mm High density polyethylene w/ microban		3.00	sets	
8	Hand Dryer - Double sided automatic jet speed touch free hand dryer infra-red activation		9.00	sets	
7	Child Protection Seat - Vertical compact fold-way design long base		2.00	sets	
9	Paper Towel Dispenser / Waste Receptacle combined - recessed		8.00	sets	
9a	Paper Towel Dispenser - Rolled Sensor-type		3.00	sets	
10	W.C. Grab Bar - Wall to Wall type Anti-Bacterial ABS Grab Bar		3.00	sets	
11	W.C. Grab Bar - Flip-up type Anti-Bacterial ABS Grab Bar (Side)		3.00	sets	
12	Floor Drain - SS, pop-up floor drain strainer, (150 x 150mm)		38.00	sets	
13	Faucet w/ Foot Rest - Lever type handle sink tap w/ swivel spout		2.00	sets	
14	Shower Seat - Foldable wall-mounted		2.00	sets	
15	Hand Sanitizer - Sensor-type sanitizer, battery-operated		25.00	sets	
16	Soap Dispenser - Sensor-type, battery-operated		22.00	sets	
17	Trash Bin (Step Can) - W168 x H361cm , 10L capacity, S.S. brushed, soft-close, fingerprint-proof, w/ plastic bag fixer		41.00	sets	
18	Trash Bin (Open Trash Can) - 6½ x 14" x 13½"H, 2.6 gal. profile open trash can, S.S. brushed, fingerprint proof, removable inner bucket		3.00	sets	
				<i>Material Cost - D</i>	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	35.00	days	

2	Skilled Laborer	12	40.00	days	
3	Unskilled Laborer	10	40.00	days	
				<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with Night differentials</i>				
1	Construction Foreman	1	35.00	days	
2	Skilled Laborer	12	40.00	days	
3	Unskilled Laborer	10	40.00	days	
				<i>Labor Cost - Nightshift</i>	-
				Direct Cost XI	-
XII	PAINTING WORKS				
	<i>Materials:</i>				
1	Acrylic Primer		3.00	gals	
2	Acrylic Sealer		2.00	gals	
3	Acrylic Cast		2.00	gals	
4	Acrylic Topcoat Flat		3.00	gals	
5	Primer Red Oxide		11.00	gals	
6	Lacquer Thinner		3.00	gals	
7	Quick Dry Enamel		11.00	gals	
8	Off- White Primer		113.00	gals	
9	Off- White Flat Wall		57.00	gals	
10	Off- White Latex		41.00	gals	
11	Semi-Gloss Latex		82.00	gals	
12	Concrete Neutralizer		41.00	gals	
13	Masonry Putty		69.00	gals	
14	Cementitious Waterproofing		186.00	gals	
15	1" Paint Brush		16.00	pcs	
16	2" Paint Brush		16.00	pcs	
17	4" Paint Brush		16.00	pcs	
18	4" Palette		16.00	pcs	

19	6" Palette		16.00	pcs		
20	#180 Sand Paper		10.00	reams		
21	#400 Sanding Paper		14.00	reams		
22	Used Newspaper		11.00	kgs		
23	Rugs		11.00	kgs		
					<i>Material Cost</i>	-
<i>Labor: Dayshift</i>						
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	5	10.00	days		
3	Unskilled Laborer	10	10.00	days		
					<i>Labor Cost - Dayshift</i>	-
<i>Labor: Nightshift with Night differentials</i>						
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	5	10.00	days		
3	Unskilled Laborer	10	10.00	days		
					<i>Labor Cost - Nightshift</i>	-
<i>Equipment:</i>						
1	Air Compressor	4	10.00	days		
					<i>Equipment Cost</i>	-
					<i>Direct Cost XII</i>	-
TOTAL CIVIL WORKS DIRECT COST- NAIA T2						PHP -

BILL OF MATERIALS					
SN	DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT
II. ELECTRICAL WORKS					
	TERMINAL 2				
	NORTHWING COMFORT ROOM, DEPARTURE AREA				
1	Power and Lighting Distribution Panel Board Main CB 40AT, 2P, 230VAC Bolt on Type Branches: 6 CB, 20AT, 2P Bolt on Type 2 CB, 15AT, 2P Bolt on Type	set	1		
2	Circuit Breaker, Bolt on Type 40 AT, 2P W/ NEMA 1 Enclosure	set	1		
3	Conduit Pipe PVC 1/2 ø	length	85		
4	Conduit Pipe PVC 3/4 ø	length	30		
5	Conduit Pipe IMC 3/4 ø w/ coupling	pcs	50		
6	Flexible Metal Conduit 1/2 ø	mtrs	75		
7	Flexible Metal Conduit 3/4 ø	mtrs	45		
8	Pull box 6x6x4 Metal w/ Cover	pcs	15		
9	Square Box 6x6x2 PVC w/ Cover	pcs	30		
10	Junction Box 3x3x2 PVC w/ Cover	pcs	80		
11	Adopter w/ nut 1/2 ø PVC	pcs	160		
12	Adopter w/ nut 3/4 ø PVC	pcs	80		
13	Straight Metal Connector 1/2 ø	pcs	100		
14	Straight Metal Connector 3/4 ø	pcs	40		
15	Elbow IMC 3/4	pcs	4		
16	Coupling IMC 3/4 ø	pcs	15		
17	Locknut and Bushing IMC 3/4 ø	set	100		
18	Utility Box PVC w/ Cover	pcs	50		
19	Switch Device I Gang	set	8		

20	Power Outlet, 3 Prong Duplex	<i>set</i>	6		
21	Wire THHN Stranded #8	<i>mtrs</i>	320		
22	Wire THHN Stranded #12	<i>mtrs</i>	600		
23	Wire THHN Stranded #12 (Green)	<i>mtrs</i>	160		
24	Wire THHN Stranded #14	<i>mtrs</i>	200		
25	Electrical Tape	<i>pcs</i>	15		
26	Metal Clamp 1/2 ø	<i>pcs</i>	80		
27	Metal Clamp 3/4 ø	<i>pcs</i>	160		
28	Metal Screw #8	<i>pcs</i>	200		
29	Tox and Screw #8	<i>set</i>	100		
30	G.I Wire #16	<i>kg</i>	2		
31	Cable Tie 10"	<i>pcs</i>	100		
32	Exhaust Fan 250 x 250 mm	<i>set</i>	14		
33	Downlight Fixture 20cm w/ 16W LED, Recessed Type	<i>pcs</i>	38		
34	Strip Light LED, 8W SMD 5050	<i>pcs</i>	10		
	TOTAL MATERIAL COST				
	TOTAL LABOR COST				
	ESTIMATED DIRECT COST				

BILL OF MATERIALS					
SN	DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT
II. ELECTRICAL WORKS					
	TERMINAL 2				
	SOUTHWING COMFORT ROOM, DEPARTURE AREA				
1	Power and Lighting Distribution Panel Board Main CB 40AT, 2P, 230VAC Bolt on Type Branches: 6 CB, 20AT, 2P Bolt on Type 2 CB, 15AT, 2P Bolt on Type	set	1		
2	Circuit Breaker, Bolt on Type 40 AT, 2P W/ NEMA 1 Enclosure	set	1		
3	Conduit Pipe PVC 1/2 ø	length	85		
4	Conduit Pipe PVC 3/4 ø	length	30		
5	Conduit Pipe IMC 3/4 ø w/ coupling	pcs	50		
6	Flexible Metal Conduit 1/2 ø	mtrs	75		
7	Flexible Metal Conduit 3/4 ø	mtrs	45		
8	Pull box 6x6x4 Metal w/ Cover	pcs	15		
9	Square Box 6x6x2 PVC w/ Cover	pcs	30		
10	Junction Box 3x3x2 PVC w/ Cover	pcs	80		
11	Adopter w/ nut 1/2 ø PVC	pcs	160		
12	Adopter w/ nut 3/4 ø PVC	pcs	80		
13	Straight Metal Connector 1/2 ø	pcs	100		
14	Straight Metal Connector 3/4 ø	pcs	40		
15	Elbow IMC 3/4	pcs	4		
16	Coupling IMC 3/4 ø	pcs	15		
17	Locknut and Bushing IMC 3/4 ø	set	100		
18	Utility Box PVC w/ Cover	pcs	50		
19	Switch Device I Gang	set	8		
20	Power Outlet, 3 Prong Duplex	set	6		
21	Wire THHN Stranded #8	mtrs	320		

22	Wire THHN Stranded #12	<i>mtrs</i>	600		
23	Wire THHN Stranded #12 (Green)	<i>mtrs</i>	160		
24	Wire THHN Stranded #14	<i>mtrs</i>	200		
25	Electrical Tape	<i>pcs</i>	15		
26	Metal Clamp 1/2 ø	<i>pcs</i>	80		
27	Metal Clamp 3/4 ø	<i>pcs</i>	160		
28	Metal Screw #8	<i>pcs</i>	200		
29	Tox and Screw #8	<i>set</i>	100		
30	G.I Wire #16	<i>kg</i>	2		
31	Cable Tie 10"	<i>pcs</i>	100		
32	Exhaust Fan 250 x 250 mm	<i>set</i>	14		
33	Downlight Fixture 20cm w/ 16W LED, Recessed Type	<i>pcs</i>	38		
34	Strip Light LED, 8W SMD 5050	<i>pcs</i>	10		
	TOTAL MATERIAL COST				
	TOTAL LABOR COST				
	ESTIMATED DIRECT COST				

BILL OF MATERIALS					
SN	ITEM DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT
II. ELECTRICAL WORKS					
	TERMINAL 2				
	NORTHWING ARRIVAL, ARRIVAL AREA				
1	Power and Lighting Distribution Panel Board Main CB 30AT, 2P, 230VAC Bolt on Type Branches: 4 CB, 20AT, 2P Bolt on Type 1 CB, 15AT, 2P Bolt on Type	set	1		
2	Circuit Breaker, Bolt on Type 30 AT, 2P w/ NEMA 1 Enclosure	set	1		
3	Conduit Pipe PVC 1/2 ø	length	35		
4	Conduit Pipe PVC 3/4	length	15		
5	Flexible Metal Conduit 1/2 ø	mtrs	25		
6	Flexible Metal Conduit 3/4 ø	mtrs	15		
7	Square Box 6x6x2 PVC w/ Cover	pcs	20		
8	Junction Box 3x3x2 PVC w/ Cover	pcs	40		
9	Adapter w/nut 1/2 ø PVC	pcs	120		
10	Adapter w/nut 3/4 ø PVC	pcs	40		
11	Straight Metal Connector 1/2 ø	pcs	30		
12	Straight Metal Connector 3/4 ø	pcs	20		
13	Utility Box PVC w/ Cover	pcs	25		
14	Switch Device 1 Gang	set	5		
15	Power Outlet, 3 Prong Duplex	set	6		
16	Wire THHN Stranded #10	mtrs	300		
17	Wire THHN Stranded #12	mtrs	300		
18	Wire THHN Stranded #14	mtrs	230		
19	Wire THHN Stranded #14 (Green)	mtrs	220		
20	Electrical Tape	pcs	10		
21	Metal Clamp 1/2 ø	pcs	50		

22	Metal Clamp 3/4 ø	pcs	25		
23	Metal Screw #8	pcs	100		
24	Tox and Screw #8	pcs	100		
25	G.l. Wire #16	kg	1		
26	Exhaust Fan 250 x 250 mm	pcs	8		
27	Downlight Fixture 20cm w/ 16W LED, Recessed Type	pcs	18		
28	strip Light LED, 8W SMD 5050	set	4		
29	Conduit Pipe IMC 3/4 ø w/coupling	pcs	20		
30	Pullbox 6x6x4	pcs	8		
31	Locknut and Bushing 3/4 ø	set	40		
	TOTAL MATERIAL COST				
	TOTAL LABOR COST				
	ESTIMATED DIRECT COST				
	TOTAL ELECTRICAL WORKS - NAIA T2				

BILL OF MATERIALS

Item No.	Description	Qty.	Unit	Unit Cost	Amount
III	MECHANICAL WORKS				
	TERMINAL 2				
A	Supply and Installation of Air Conditioning Units				
1	Packaged Type Floor Mounted 5TR 230V 1Ph 60Hz Inverter R 410A	4.00	units		
2	Copper Pipe Type M, 3/4" x 20ft	7.00	pcs		
3	Copper Pipe Type M, 3/8" x 20ft	7.00	pcs		
4	Copper Coupling, 3/4"	12.00	pcs		
5	Copper Coupling, 3/8"	12.00	pcs		
6	Copper Elbow, 3/4"	14.00	pcs		
7	Copper Elbow, 3/8"	14.00	pcs		
8	Rubber Pipe Insulation, 3/4" ID x 1" Thick x 6'	6.00	pcs		
9	Rubber Pipe Insulation, 3/8" ID x 1" Thick x 6'	6.00	pcs		
10	PVC Blue Pipe, 1" x 10'	6.00	pcs		
11	PVC Blue Elbow, 1"	14.00	pcs		
12	PVC Blue Coupling, 1"	8.00	pcs		
13	PVC Blue Tee, 1"	8.00	pcs		
14	PVC Cement	2.00	pcs		
15	Rubber Pipe Insulation, 1-1/8" ID x 1/2" Thick x 6'	10.00	pcs		
16	Elastomeric Sealant, 300ml	2.00	pcs		
17	Polyethylene Tape Blue	4.00	pcs		
18	Rerigerant, 410A 11.3kg/cyl	4.00	pcs		
19	Nitrogen, (Tank Refill)	2.00	pcs		
20	Angle Bar, 1/4" x 2" x 2" x 20'	6.00	pcs		
21	Labor Cost	1.00	lot		
II	Supply and Installation of Toilet Exhaust Fans and Air Duct System				
1	Packaged Unit Fan	2.00	units		
	Centrifugal FC Wheel AMCA Certified SISW Belt Driven Rated 1142cfm 0.45 in. wg ESP. Complete w/ self-aligning PB bearings. Provided with vibration isolator. 230V 1Ph 60Hz				
2	Packaged Unit Fan	2.00	units		
	Centrifugal FC Wheel AMCA Certified SISW Belt Driven Rated 996cfm 0.35 in wg ESP. Complete w/ self-aligning PB bearings. Provided with vibration isolator. 230V 1Ph 60Hz				
3	Air Grille, 100mm x 175mm Adjustable Blades OBVD with Plenum Box 150mm Ø Collar	50.00	sets		
4	GI Sheet, 4' x 8' gauge 24	26.00	pcs		
5	Aluminum Flexible Duct, 150mm Ø x 10' Bare	20.00	pcs		
6	Aluminum Duct Tape, 3"	24.00	pcs		
7	Elastomeric Sealant, 1 gal	2.00	pcs		
8	Labor Cost	1.00	lot		
III	Supply and Installation of Pipes, Duct and Conduit Hangers and Supports				
1	Channel Bar, 1/4" x 2" x 3" x 2" x 20'	18.00	pcs		
2	Angle Bar, 1/8" x 1" x 20'	20.00	pcs		
3	Flat Bar, 1/8" x 1"	12.00	pcs		
4	Threaded Rod, 1/4" x 3m	30.00	m		
5	Expansion Shield and Bolt	160.00	pcs		
6	Bolts and Nuts	200.00	pcs		
7	Epoxy Primer Paint, 1 gal	4.00	pcs		
8	Labor Cost	1.00	lot		
III	Supply and Installation of Power Supply Line				
1	Power Panel Board; Main CB 70A Branches 2 x 40A and 2 x 10A NEMA Enclosure	1.00	set		
2	THHN, AWG 8 Stranded	160.00	m		
3	THHN, AWG 12 Stranded	600.00	m		
4	IMC Coduit, 1/2"	30.00	pcs		
5	Circuit Breaker, 40A with NEMA Enclosure	2.00	sets		
6	Motor Control Panel; MCB 10A, Magnetic Contactor 20A, Overload Relay 4 - 6A NEMA Enclosure	4.00	sets		

7	TEF On/Off Switch	4.00	sets		
8	Liquid Tight Flexible Conduit, 1/2"Ø	12.00	m		
9	Liquid Tight Fitting, 1/2"	24.00	pcs		
10	Utility Box, 4" x 4" x 2"	24.00	pcs		
11	Bushing and Lock Nut, 1/2"	36.00	pcs		
12	Labor Cost	1.00	lot		
IV	Supply and Installation of Toilet Exhaust Ceiling Fan				
1	Ceiling Exhaust Fan, 250mm x 250mm	8.00	pcs		
2	Labor Cost	1.00	lot		
V	Professional Fee				
1	Professional Mechanical Engineer	1.00	lot		

TOTAL DIRECT COST

TOTAL DIRECT COST - MECHANICAL WORKS NAIA T2

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	NO	QTY	UNIT	UNIT COST	AMOUNT
I	SITE WORKS					
	A. Temporary Enclosure, Protection and Signages					
1	1/4" thk Ordinary Plywood		190.00	pcs		
2	2"x3" Coco Lumber		1,372.00	bd.ft		
3	Assorted Common Wire Nails		44.00	kgs		
4	#16 G.I. Tie Wire		24.00	kgs		
5	Caution Tape, 3" x 1000' (yellow)		12.00	roll		
6	Empty Sacks		165.00	pcs		
7	Safety Gloves		55.00	pairs		
8	Signage		23.00	sets		
9	2"x2" Coco Lumber		136.00	bd.ft		
10	Tarpaulin 4'x5'		15.00	pcs		
11	Flat Wall Enamel		8.00	gal		
12	9" Paint Roller Brush w/ Paint Tray		3.00	pcs		
			<i>Material Cost - A</i>			-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	4.00	days		
2	Skilled Laborer	5	5.00	days		
3	Unskilled Laborer	8	5.00	days		
			<i>Labor Cost - A Dayshift</i>			-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	4.00	days		
2	Skilled Laborer	3	5.00	days		
3	Unskilled Laborer	4	5.00	days		
			<i>Labor Cost - A Nightshift</i>			-
				<i>Direct Cost I-A</i>		-
	B. Demolition, Excavation, Removal, Hauling to dumpsite					
	Cleaning and clearing					

	<i>Equipment:</i>					
1	Concrete Cutter	2	24.00	days		
2	Electric Jackhammer	2	24.00	days		
3	Demolition Hammer	4	30.00	days		
4	Dumptruck (11.5 m ³)	2	16.00	days		
					<i>Equipment Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	20.00	days		
2	Skilled Laborer	5	30.00	days		
3	Unskilled Laborer	12	30.00	days		
					<i>Labor Cost - A Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	20.00	days		
2	Skilled Laborer	5	30.00	days		
3	Unskilled Laborer	5	30.00	days		
					<i>Labor Cost - A Nightshift</i>	-
	<i>Materials:</i>					
1	3" Tile Remover Bit		10.00	pcs		
2	Chisel Bit		10.00	pcs		
3	Cutting Disc 4"		10.00	pcs		
4	Sacks		50.00	pcs		
					<i>Material Cost</i>	-
					<i>Direct Cost I-B</i>	-
					<i>Direct Cost I</i>	-
II	FORMWORKS AND SCAFFOLDINGS					
	<i>Materials:</i>					
1	6mmthk x 4' x 8' Marine Plywood		41.00	pcs		
2	12mmthk x 4' x 8' Marine Plywood		24.00	pcs		
3	2"x2" Rough Lumber		735.52	bd.ft		
4	2"x3" Rough Lumber		779.00	bd.ft		
5	Assorted Common Wire Nails		47.00	kgs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	3	3.00	days		

3	Unskilled Laborer	3	3.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	2	3.00	days		
3	Unskilled Laborer	3	3.00	days		
					<i>Labor Cost - Nightshift</i>	-
	<i>Equipment:</i>					
1	1.5x1.2m H-Frame including cross brace joint pins, G.I, Pipe Support and Cuplock/ Universal Clamp	10	4.00	month		
2	0.5x1.2m Steel Platform	10	4.00	month		
					<i>Equipment Cost</i>	-
					<i>Direct Cost II</i>	-
III	CONCRETING WORKS					
	<i>Materials:</i>					
1	Portland Cement (40kg/bag)		135.00	bags		
2	Sand		12.10	cu.m.		
3	Gravel		21.10	cu.m.		
4	12mm dia x 6m Deformed Bar Grade 275		88.00	pcs		
5	10mm dia x 6m Deformed Bar Grade 275		97.00	pcs		
6	#16 G.I. Tie Wire		45.00	kgs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	3	5.00	days		
3	Unskilled Laborer	3	5.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	3.00	days		
2	Skilled Laborer	3	5.00	days		
3	Unskilled Laborer	3	5.00	days		

					<i>Labor Cost - Nightshift</i>	-
					Direct Cost III	-
IV	MASONRY WORKS					
	<i>Materials:</i>					
1	4" thk CHB		7,260.00	pcs		
2	6" thk CHB		6,573.00	pcs		
3	Portland Cement (40kg/bag)		1,508.00	bags		
4	Sand		115.00	cu.m.		
5	10mm dia x 6m Deformed Bar Grade 275		812.00	pcs		
6	#16 G.I. Tie Wire		44.00	kgs		
7	10mm dia Expansion Shield		689.00	pcs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	2	15.00	days		
2	Skilled Laborer	6	18.00	days		
3	Unskilled Laborer	12	18.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	4	15.00	days		
3	Unskilled Laborer	7	15.00	days		
					<i>Labor Cost - Nightshift</i>	-
					Direct Cost IV	-
V	TILE WORKS					
	<i>Materials:</i>					
1	0.6m x 0.6m Porcelain Homogenous Floor Tiles		2,613.00	pcs		
2	0.3m x 0.6 Super White Polished Finish Porcelain Wall Tiles		10,672.00	pcs		
3	0.3m x 0.6m Natural Wengue Rectified Matt Finish Porcelain Wall Tiles		840.00	pcs		
4	Portland Cement (40kg/bag)		667.00	bags		

5	Sand		89.00	cu.m.	
6	ABC Tile Adhesive (25kg/bag)		417.00	bags	
7	ABC Tile Grout (2kg/bag)		518.00	bags	
8	4" Diamond Cutter		44.00	pcs	
				Material Cost	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	2	45.00	days	
2	Skilled Laborer	12	60.00	days	
3	Unskilled Laborer	24	60.00	days	
				Labor Cost - Dayshift	-
	<i>Labor: Nightshift with night differentials</i>				
1	Construction Foreman	1	28.00	days	
2	Skilled Laborer	10	35.00	days	
3	Unskilled Laborer	16	35.00	days	
				Labor Cost - Nightshift	-
	<i>Equipment:</i>				
1	Angle Grinder	4	40.00	days	
				Equipment Cost	-
				Direct Cost V	-
VI	CEILING WORKS				
	<i>Materials:</i>				
1	12mm thk x 1.2m x 2.4m Moist Shield Gypsum Board		363.00	pcs	
2	0.4mm thk x 25mm x 25mm x 3m Wall Angle		463.00	pcs	
3	Expansion Shield		160.00	pcs	
4	Steel Angle Bracket		896.00	pcs	
5	Suspension Rod (4mm, 3.6m)		160.00	pcs	
6	Suspension Clip		896.00	pcs	
7	Carrying Channel (30mm x 0.55mm)		285.00	pcs	
8	Carrying Joiner		108.00	pcs	
9	Locking Key (23mm)		1,860.00	pcs	
10	Furring Channel (23mm x 0.45mm)		390.00	pcs	
11	Furring Joiner (23mm)		285.00	pcs	
12	Premium Jointing Compound (20kg/bag)		15.00	bag	
13	Premix Compound (28kg)		9.00	bag	

14	Paper Tape (75m/roll)		15.00	roll	
15	Screw 1" (1 box / 1000 pcs)		45.00	box	
				Material Cost	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	10.00	days	
2	Skilled Laborer	5	10.00	days	
3	Unskilled Laborer	7	10.00	days	
				Labor Cost - Dayshift	-
	<i>Labor: Nightshift with night differentials</i>				
1	Construction Foreman	1	7.00	days	
2	Skilled Laborer	5	10.00	days	
3	Unskilled Laborer	5	10.00	days	
				Labor Cost - Nightshift	-
				Direct Cost VI	-
VII	DRY WALL				
	<i>Materials:</i>				
1	6mmthk x 1.2m x 2.4m Ficem Board		30.00	pcs	
2	12mm thk x 1.2m x 2.4m Fiber Cement Board		18.00	pcs	
3	1mm thk x 35mm x 102mm x 3m U-Tracks		16.00	pcs	
4	1mm thk x 35mm x 102mm x 3m C-Studs		12.00	pcs	
5	2mm thk x 50mm x 100mm x 6m C-Channel		48.00	pcs	
6	Mesh Tape (2" x 250 ft /roll)		9.00	roll	
7	1/8" x 3/8" Blind Rivets		939.00	pcs	
8	Gypsum Screw		1,696.00	pcs	
9	Premium Jointing Compound (20kg/bag)		6.00	bags	
10	Wood Glue		4.00	gal	
11	Concrete Nail 2"		4.00	kg	
				Material Cost	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	7.00	days	
2	Skilled Laborer	4	10.00	days	
3	Unskilled Laborer	6	10.00	days	
				Labor Cost - Dayshift	-
	<i>Equipment:</i>				
1	Angle Grinder	4	12.00	days	

Equipment Cost

-

Direct Cost VII

-

VIII CUBICLE PARTITIONS**CR2 - L3***Supply and Installation:***Male Toilet:**

12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators)
 4 - Cubicle
 4 - Door with 3 - Divider
 4650mm(w) x 1800mm(d)

1

1

set

2

Urinal Divider (400mm x 1200mm)

3

set

Female Toilet:

12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators)
 4 Cubicles
 4 Doors with 3 Dividers
 4000mm(w) x 1800mm(d)

3

1

set

CR2 - L2**Male Toilet:**

12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators)
 4 - Cubicle
 4 - Door with 3 - Divider
 3600mm(w) x 1800mm(d)

4

1

set

5

Side Panel - 1800mm x 2400mm

1

set

7

Urinal Divider (400mm x 1200mm)

5

set

8

Phenolic Urinal Ledge (150mm x 800mm)

5

set

Female Toilet:

9

1

set

	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 5 Cubicles 5 Doors with 4 Dividers 4500mm(w) x 1800mm(d)				
SA - 204					
	Male Toilet:				
10	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 2 - Cubicle 2 - Door with 1 - Divider 2264mm(w) x 1800mm(d)	1	set		
11	Urinal Divider (400mm x 1200mm)	6	set		
12	Phenolic Urinal Ledge (150mm x 700mm)	6	set		
	Female Toilet:				
13	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 Cubicles 4 Doors with 3 Dividers 4040mm(w) x 1800mm(d)	1	set		
CR5 - L2					
	Male Toilet:				
14	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 Cubicles: 4 - Door with 3 - Divider 4050mm (L) x 1800mm (W)	2	sets		
15	Urinal Divider (400mm x 1200mm)	8	sets		
	Female Toilet:				
16	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type	1	set		

	locks, Double hooks behind doors & Occupancy Indicators) 13 Cubicles: 7 - Door with 6 - Divider 700mm (L) x 1800mm (W) 6 - Door with 5 - Divider 5650mm (L) x 1800mm (W)				
CR4 - L2					
	Male Toilet:				
17	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 Cubicles: 4 - Door with 3 - Divider 4050mm (L) x 1800mm (W)	1	set		
18	Urinal Divider (400mm x 1200mm)	5	set		
	Female Toilet:				
19	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 7 Cubicles: 7 - Door with 6 - Divider 700mm (L) x 1800mm (W)	1	set		
NA104 / SA104					
	Male Toilet:				
20	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 Cubicle 4 Door with 3 Divider 3000mm(w) x 1800mm(d) x 2700mm(h)	2	sets		
21	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators)	2	sets		

	2 Cubicle 2 Door with 1 Divider 3000mm(w) x 1800mm(d) x 1800mm(h)				
22	Urinal Divider (450mm x 1100mm)	18	sets		
23	Side Panel (3000mm x 1800mm)	2	sets		
	Female Toilet:				
24	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 8 Cubicles 8 Doors with 7 Dividers 3000mm(w) x 1800mm(d) x 8200mm(h)	2	sets		
25	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 Cubicles 4 Doors with 3 Dividers 3000mm(w) x 1800mm(d) x 3600mm(h)	2	sets		
26	Side Panel (3000mm x 1800mm)	2	sets		
	CR1 - L3				
	Male Toilet:				
27	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 3 Cubicle 3 Door with 2 Divider 2700mm(w) x 1800mm(d) x 2700mm(h)	1	sets		
28	Urinal Divider (450mm x 1100mm)	4	sets		
29	Phenolic Urinal Ledge (200mm x 900mm)	5	sets		
30	Side Panel (3000mm x 1800mm)	1	sets		
	Female Toilet:				
31	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 Cubicles	1	sets		

	4 Doors with 3 Dividers 4000mm(w) x 1800mm(d)X 2700mm(h)				
CR1 - L2					
Male Toilet:					
32	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 4 - Cubicle 4 - Door with 3 - Divider 3600mm (w) x 1800mm (d)		1	sets	
33	Side Panel (1800mm x 2400mm)		1	sets	
34	Urinal Divider (400mm x 1200mm)		5	sets	
35	Phenolic Urinal Ledge (150mm x 700mm)		4	sets	
Female Toilet:					
36	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 5 - cubicles 5 Doors with 4 Dividers 4800mm (w) x 1800mm (d)		1	sets	
CR3 - L2					
Male Toilet:					
37	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 3 Cubicles 3 Doors with 2 Dividers 2700mm(w) x 1800mm(d)		1	sets	
38	Urinal Divider (400mm x 1200mm)		5	sets	
39	Phenolic Urinal Ledge (150mm x 800mm)		2	sets	
Female Toilet:					
40	12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 5 Cubicles 5 Doors with 4 Dividers		1	sets	

	4500mm(w) x 1800mm(d)					
					<i>Supply and Installation Cost</i>	-
	Cubicle Ledge:					
	Male & Female Toilet:					
1	12mm thk x 4' x 8' Ficem Board		57.00	pcs		
2	20mm thk x 4' x 8' Marine Plywood		3.00	pcs		
3	Ga. 20 2"x6" Metal Stud		235.00	pcs		
4	Mesh Tape (2" x 250 ft /roll)		20.00	roll		
5	1/8" x 3/8" Blind Rivets		1,550.00	pcs		
6	Gypsum Screw		2,206.00	pcs		
7	Premium Jointing Compound (20kg/bag)		20.00	bags		
8	Wood Glue		12.00	gals		
9	Concrete Nail 2"		162.00	kgs		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	5	15.00	days		
3	Unskilled Laborer	6	15.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	10.00	days		
2	Skilled Laborer	5	15.00	days		
3	Unskilled Laborer	6	15.00	days		
					<i>Labor Cost - Nightshift</i>	-
					Direct Cost VIII	-
IX	LAVATORY COUNTERS					
	A. Synthetic Granite Stone					
	<i>Supply and Installation:</i>					
1	Male Toilet countertop - 12mm thk Synthetic stone countertop including 100mm splash board, 200mm skirt and accessories		532.32	sq.ft		
2	Female Toilet countertop - 12mm thk Synthetic stone countertop		442.27	sq.ft		

	including 100mm splash board, 200mm skirt and accessories				
3	12mm thk Male Water Closet Synthetic Granite Stone Ledge		75.81	sq.ft	
4	12mm thk Male Synthetic Granite Urinal Ledge		25.50	sq.ft	
5	12mm thk Female Water Closet Synthetic Granite Stone Ledge		115.46	sq.ft	
6	12mm thk Family/PWD/All Gender Synthetic Granite Urinal Ledge		5.00	sq.ft	
			<i>Supply and Installation Cost</i>		-
				<i>Direct Cost IX-A</i>	-
	B. Steel Framing:				
	<i>Materials:</i>				
1	20mm thk x 4'x8' Marine Plywood		52.00	pcs	
2	2mm thk x 50mm x 100mm x 6m C-Channel		85.00	pcs	
3	12mm thk x 75mm Expansion Bolt		540.00	pcs	
4	10mm thk x L550mm x (H1=25mm; H2=50mm) Steel Plate		144.00	pcs	
5	10mm thk x 100mm x 150mm Steel Plate		144.00	pcs	
6	Welding Rod		22.00	kgs	
7	Oxygen (Refill)		10.00	tank	
8	Acetylene (Refill)		10.00	tank	
9	Concrete Nail 2"		2.00	kgs	
10	Gypsum Screw		350.00	pcs	
				<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	5.00	days	
2	Skilled Laborer	4	9.00	days	
3	Unskilled Laborer	5	9.00	days	
				<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>				
1	Construction Foreman	1	5.00	days	
2	Skilled Laborer	4	9.00	days	
3	Unskilled Laborer	4	9.00	days	
				<i>Labor Cost - Nightshift</i>	-
	<i>Equipment:</i>				
1	Electric Handrill	2	5.00	days	

2	Electric Welding Machine	2	9.00	days	
3	Oxy-Acetylene Cutter	2	5.00	days	
			<i>Labor Cost - Nightshift</i>		-
				<i>Direct Cost IX-B</i>	-
	C. Vanity and Ledge:				
	<i>Supply and Installation:</i>				
1	Vanity - 20mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories		21.00	sq.ft	
			<i>Supply and Installation Cost</i>		-
				<i>Direct Cost IX-C</i>	-
	D. Vanity Framing:				
	<i>Materials:</i>				
1	20mm thk x 4'x8' Marine Plywood		3.00	pcs	
2	2mm thk x 50mm x 100mm x 6m C-Channel		3.00	pcs	
3	2"Concrete Nail		1.00	pcs	
4	Mesh Tape (2" x 250 ft /roll)		1.00	roll	
5	Gypsum Screw		100.00	pcs	
6	Premium Jointing Compound (20kg/bag)		1.00	bag	
				<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	7.00	days	
2	Skilled Laborer	3	8.00	days	
3	Unskilled Laborer	3	8.00	days	
			<i>Labor Cost - Dayshift</i>		-
	<i>Labor: Nightshift with night differentials</i>				
1	Construction Foreman	1	7.00	days	
2	Skilled Laborer	3	8.00	days	

3	Unskilled Laborer	3	8.00	days		
			<i>Labor Cost - Nightshift</i>			-
				<i>Direct Cost IX-D</i>		-
				<i>Direct Cost IX</i>		-
X	DOORS					
	<i>Materials:</i>					
1 (D1)	<p>Non-rated STEEL DOOR with Jamb (0.765m x 2.1m) 1-3/4" thk door w/ Ga. #18 face sheets, Ga. #16 edges, frames Ga. #16, receives phosphate treatment and rust inhibitive primer. Provide site-applied lacquer- enamel (duco) finish provided w/ #22 S.S. sheet satin finish baseboard</p> <p>Accessories: Sightproof stationary louvers, constructed of inverted v-shaped blades, formed of Ga. #18 cold rolled steel set into Ga. #16 steel frame 1 set - Door closer, Parallel Arm 1 set - Dorma lever handle D-type w/ both side key cylinder satin, S.S. 4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4") S.S. 4 - Wall anchors per jamb at hinge and strike levels, and floor anchors drilled for 9.525mm anchor bolts at bottom of each jam member</p>		10.00	sets		
2 (D2)	<p>Non-rated STEEL DOOR with Jamb (0.900m x 2.1m) 1-3/4" thk door w/ Ga. #18 face sheets, Ga. #16 edges, frames Ga. #16, receives phosphate treatment and rust inhibitive primer. Provide site-applied lacquer- enamel (duco)</p>		10.00	sets		

finish provided w/ #22 S.S. sheet satin finish
 baseboard - D2
 Accessories:
 Sightproof stationary louvers, constructed of
 inverted v-shaped
 blades, formed of Ga. #18 cold rolled steel set
 into
 Ga. #16 steel frame
 1 set - Door closer, Parallel Arm
 1 set - Dorma lever handle D-type w/ both side
 key cylinder
 satin, S.S.
 4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4")
 S.S.
 4 - Wall anchors per jamb at hinge and strike
 levels, and floor
 anchors drilled for 9.525mm anchor bolts at
 bottom of each
 jam member

3	300mm ht. New #22 S.S. Satin Fin. Baseboard		231.20	l.m.		
4	#22 S.S. Satin Fin. Door Trim		87.20	l.m.		
					<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	15.00	days		
2	Skilled Laborer	2	30.00	days		
3	Unskilled Laborer	4	30.00	days		
					<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	15.00	days		
2	Skilled Laborer	2	30.00	days		
3	Unskilled Laborer	4	30.00	days		
					<i>Labor Cost - Nightshift</i>	-

Direct Cost X

-

XI PLUMBING WORKS

A. Rood Drain and Janitor Shelf

1	#22 S.S. Satin Fin. Tile Trim	17.00	l.m
2	Janitor's Shelf - includes 2-20mm thk Marine Plywood painted finish (white) with complete accessories (300mm x 2000mm)	2.00	sets

Material Cost - A

-

B. Water Line

1	PPR Pipe PN 20 - 40mmØ x 6.7mm x 4m	122.00	pcs
2	PPR Pipe PN 20 - 32mmØ x 5.4mm x 4m	167.00	pcs
3	PPR Pipe PN 20 - 25mmØ x 4.2mm x 4m	19.00	pcs
4	PPR Pipe PN 20 - 20mmØ x 3.4mm x 4m	33.00	pcs
5	PPR Coupling - 40mmØ	102.00	pcs
6	PPR Coupling - 32mmØ	137.00	pcs
7	PPR Coupling - 25mmØ	21.00	pcs
8	PPR Coupling - 20mmØ	31.00	pcs
9	PPR Tee - 40mmØ	97.00	pcs
10	PPR Tee - 32mmØ	93.00	pcs
11	PPR Tee - 25mmØ	13.00	pcs
12	PPR Tee - 20mmØ	3.00	pcs
13	PPR Tee Reducer - 40mmØ x 32mmØ	64.00	pcs
14	PPR Tee Reducer - 40mmØ x 25mmØ	46.00	pcs
15	PPR Tee Reducer - 40mmØ x 20mmØ	15.00	pcs
16	PPR Tee Reducer - 32mmØ x 20mmØ	24.00	pcs
17	PPR Tee Reducer - 25mmØ x 20mmØ	2.00	pcs
18	PPR Tee Female Adapter - 40mmØ x 1 1/4"	83.00	pcs
19	PPR Tee Female Adapter - 32mmØ x 1"	126.00	pcs
20	PPR Tee Female Adapter - 20mmØ x 1/2"	15.00	pcs
21	PPR Elbow 90° - 40mmØ	62.00	pcs
22	PPR Elbow 90° - 32mmØ	80.00	pcs
23	PPR Elbow 90° - 25mmØ	61.00	pcs
24	PPR Elbow 90° - 20mmØ	39.00	pcs
25	PPR Elbow Female Adapter - 32mmØ x 1"	19.00	pcs
26	PPR Elbow Female Adapter - 25mmØ	16.00	pcs
27	PPR Elbow Female Adapter - 20mmØ x 1/2"	24.00	pcs
28	PPR Elbow Reducer 90° - 25mmØ x 20mmØ	2.00	pcs

14	PVC Bend 1/4 (90°) - 75mmØ	60.00	pcs		
15	PVC Bend 1/4 (90°) - 50mmØ	178.00	pcs		
16	PVC Bend 1/8 (45°) - 100mmØ	270.00	pcs		
17	PVC Bend 1/8 (45°) - 75mmØ	485.00	pcs		
18	PVC Bend 1/8 (45°) - 50mmØ	15.00	pcs		
19	PVC Wye - 100mmØ	207.00	pcs		
20	PVC Wye - 75mmØ	224.00	pcs		
21	PVC Cross Wye - 100mmØ	32.00	pcs		
22	PVC Cross Wye - 75mmØ	19.00	pcs		
23	PVC Cross Wye Reducer - 100mmØ x 75mmØ	5.00	pcs		
24	PVC Wye Reducer - 100mmØ x 75mmØ	77.00	pcs		
25	PVC Wye Reducer - 100mmØ x 50mmØ	33.00	pcs		
26	PVC Coupling Reducer - 150mmØ x 100mmØ	1.00	pcs		
27	PVC Coupling Reducer - 100mmØ x 75mmØ	11.00	pcs		
28	PVC Coupling Reducer - 100mmØ x 50mmØ	31.00	pcs		
29	PVC Coupling Reducer - 75mmØ x 50mmØ	119.00	pcs		
30	PVC C.O Set - 100mmØ	57.00	sets		
31	PVC C.O Set - 75mmØ	31.00	sets		
32	PVC P-trap - 100mmØ	38.00	sets		
33	PVC P-trap - 75mmØ	64.00	sets		
34	S.S. Bottle Trap w/ Tailpiece - 75mmØ	65.00	sets		
35	Single Tak Bottle Trap 1-1/2" w/ Tail Piece	18.00	sets		
36	Solvent Cement (100cc)	139.00	cans		
				<i>Material Cost - C</i>	-
	<i>C. Plumbing Fixtures</i>				
1	Water Closet - Water-saving wall-hung elongated (w/proguard) 556x376x400mm,3/4.5L Quite-closed seat w/complete accessories & fittings; Brackets/In-wall carrier; toilet sensor - sensor activated w.c. flushometer (concealed toilet flush valve) AC version 158mm x 158mm L Adjustable at 4L, 6L water pressuer at 0.05-0.86 Mpa; Hygiene Spray (bidet)- Stainless Steel 304 w/ hose & bracket	124.00	sets		
2	Lavatory - wash basin under counter w/ cefiontect glaze 600x 422x209mm w/ complete fiiting and accessories; Lavatory Faucet - chrome sensor faucet, single hole basin mixer	84.00	sets		

	w/ angle valve & flexible hose.				
2a	Lavatory- W430xL500 wash basin wall-hung w/ necessary fittings & access. Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose selectronic waterflow.	10.00	sets		
3	Urinal - wall hung, BD-back inlet 460x374x690mm w/ concealed urinal flush valve (w/ manual button)	65.00	sets		
3a	Kids Urinal - wall-hung, BD-back inlet 350x320x605mm w/concealed urinal flush valve (w/ manual button 160x160x140mm)	19.00	sets		
4	Facial Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm)	87.00	sets		
4a	Full Body Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 0.8m x 1.9m)	5.00	sets		
4b	Vanity Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 1050 x 2800mm)	1.00	sets		
5	Janitor Sink - Fiberglass slop-laundry sink w/ lever type chrome handle faucet	9.00	sets		
6	Diaper Change - Horizontal folding type, wall-mounted W893xH661mmx102mm High density polyethylene w/ microban	24.00	sets		

7	Child Protection Seat - Vertical compact fold-away design long base		29.00	sets		
8	Hand Dryer - Double sided automatic jet speed touch free hand dryer infra-red activation		39.00	sets		
9	Paper Towel Dispenser / Waste Receptacle combined - recessed		36.00	sets		
9a	Paper Towel Dispenser - Rolled Sensor-type		4.00	sets		
10	W.C. Grab Bar - Wall to Wall type Anti-Bacterial ABS Grab Bar		14.00	sets		
11	W.C. Grab Bar - Flip-up type Anti-Bacterial ABS Grab Bar (Side)		14.00	sets		
12	Floor Drain - SS, pop-up floor drain strainer, (150 x 150mm)		103.00	sets		
15	Hand Sanitizer - Sensor-type sanitizer, battery-operated		29.00	sets		
16	Soap Dispenser - Sensor-type, battery-operated		47.00	sets		
17	Trash Bin (Step Can) - W168 x H361cm , 10L capacity, S.S. brushed, soft-close, fingerprint-proof, w/ plastic bag fixer		111.00	sets		
18	Trash Bin (Open Trash Can) - 6½ x 14" x 13½"H, 2.6 gal. profile open trash can, S.S. brushed, fingerprint proof, removable inner bucket		15.00	sets		
					<i>Material Cost - D</i>	-
	<i>Labor: Dayshift</i>					
1	Construction Foreman	1	70.00	days		
2	Skilled Laborer	12	90.00	days		
3	Unskilled Laborer	14	90.00	days		
					<i>Labor Cost A-D - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>					
1	Construction Foreman	1	70.00	days		
2	Skilled Laborer	10	80.00	days		
3	Unskilled Laborer	10	80.00	days		
					<i>Labor Cost A-D - Nightshift</i>	-
					<i>Direct Cost XI</i>	-
XII	PAINTING WORKS					

	<i>Materials:</i>				
1	Off- White Primer		10.00	gals	
2	Chalk Blocker		16.00	gals	
3	Flat Latex		30.00	gals	
4	Semi-Gloss Latex		55.00	gals	
5	Masonry Putty		22.00	gals	
6	Concrete Neutralizer		51.00	gals	
7	Flat Wall Enamel		40.00	gals	
8	Semi-Gloss Enamel		60.00	gals	
9	Glazing Putty		27.00	gals	
10	Cementitious Waterproofing		380.00	gals	
11	Primer Red Oxide		16.00	gals	
12	Quick Drying Enamel		14.00	gals	
13	Paint Thinner		14.00	gals	
14	Paint Brush 2"		50.00	pcs	
15	Paint Roller 7"		44.00	pcs	
16	Paint Brush 1"		44.00	pcs	
17	Spatula		44.00	pcs	
18	Sanding Paper #100, #200		44.00	doz	
19	3" Paint Brush		6.00	pcs	
20	4" Paint Brush		6.00	pcs	
21	4" Palette		6.00	pcs	
22	6" Palette		6.00	pcs	
23	#180 Sand Paper		2.00	doz	
24	#400 Sanding Paper		4.00	doz	
25	Newspaper		50.00	kgs	
26	Rugs		50.00	kgs	
				<i>Material Cost</i>	-
	<i>Labor: Dayshift</i>				
1	Construction Foreman	1	10.00	days	
2	Skilled Laborer	8	12.00	days	
3	Unskilled Laborer	9	12.00	days	
				<i>Labor Cost - Dayshift</i>	-
	<i>Labor: Nightshift with night differentials</i>				
1	Construction Foreman	1	10.00	days	
2	Skilled Laborer	5	12.00	days	
3	Unskilled Laborer	7	12.00	days	
				<i>Labor Cost - Nightshift</i>	-

BILL OF MATERIALS

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT
TERMINAL 3					
	ELECTRICAL WORKS				
	LIGHTINGS:				
1	LED Downlight Wattage: 18 W Lumen: > 1500 Lm Voltage: 100-240 Vac Color Temp: 4000K Ra: ≥ 80 Beam Angle: 120 Cutout dia.: 165 mm Life Span: 50,000 Hours Deep Concave, Anti-glare	set	286		
2	LED Strip 8W/m Color Temp.:4000K	mtr	300		
3	Exhaust Fan 250mmx250mm	set	80		
	POWER:				
4	Weatherproof Convenience Outlet (Duplex) Complete w/ Cover, recessed mounted	set	70		
	WIRES:				
5	3.5 sqmm THHN Cu Wire (White)	box	20		
6	3.5 sqmm THHN Cu Wire (Black)	box	20		
7	3.5sqmm THHN Cu Wire (Green)	box	11		
8	5.5 sqmm THHN Cu Wire (Green)	box	5		
9	8.0 sqmm THHN Cu Wire (White)	box	5		
10	8.0 sqmm THHN Cu Wire (Black)	box	5		
	CONDUIT AND FITTINGS:				
11	20mm dia IMC Pipe (3m)	length	410		
12	20mm dia IMC Connector w/ locknut	pcs	700		
13	20mm dia IMC Coupling	pcs	270		
14	20mm Metal Flexible Conduit (30m/roll)	roll	28		
15	20mm dia IMC Adjustable Connector w/ locknut	set	900		
16	20mm dia IMC 2-hole Clamp	pcs	540		
17	# 6 Tox with Screw (25 set/box)	box	80		
18	25mm dia IMC Pipe (3m)	length	200		
19	25mm dia IMC Connector w/ locknut	set	25		
20	25mm dia IMC Coupling	pcs	200		
21	25mm dia IMC 2-hole Clamp	pcs	400		
	BOXES				
22	4X4 Junction Box (Metal)	pcs	225		
23	4X2 Utility Box (Metal)	pcs	285		
	PANEL BOARD				
24	Main: 40AT, 2P, 220V, MCCB Branches: 2 x 15AT, 2P, MCB w/ lugs	assy	8		

	4 x 20AT, 2P, MCB w/ lugs				
	Enc: NEMA 1 Surface mtd. w/ Neutral and Ground Bus				
	MESCILLANEOUS				
25	Vinyl Electrical Tape, 3/4 " X 66 ft X 0.007"	pcs	90		
26	GI Wire #16	roll	50		
27	Cable Tie 4x300 (100pcs/pack)	pack	20		
28	Cutting Disc, 4"	set	40		
29	Hacksaw Blade (For Metal)	pcs	40		
30	Concrete Drill Bit 1/4, Heavy Duty	pcs	30		
	Material Cost:				
	Labor Cost:				
	TOTAL ELECTRICAL WORKS DIRECT COST-NAIA T3				

	ELECTRICAL WORKS - NAIA TERMINAL 1				
	ELECTRICAL WORKS - NAIA TERMINAL 2				
	ELECTRICAL WORKS - NAIA TERMINAL 3				
	TOTAL ELECTRICAL WORKS DIRECT COST			-	

PROJECT: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS					
LOCATION: NAIA TERMINAL 1, 2 & 3					
BILL OF QUANTITY					
ITEM No.	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
III	MECHANICAL WORKS				
	TERMINAL 3				
A	EQUIPMENT (CEILING-MOUNTED)				
1.0	EF (NA104 – Level 1) Ceiling Cassette, 378 m ³ /hr, 220/1/60	2.00	unit		
2.0	EF (NA104 – Level 1) Ceiling Cassette, 234 m ³ /hr, 220/1/60	2.00	unit		
3.0	EF (NA104 – Level 1) Ceiling Cassette, 360 m ³ /hr, 220/1/60	2.00	unit		
4.0	EF (NA104 – Level 1) Ceiling Cassette, 414 m ³ /hr, 220/1/60	1.00	unit		
5.0	EF (SA104 – Level 1) Ceiling Cassette, 378 m ³ /hr, 220/1/60	2.00	unit		
6.0	EF (SA104 – Level 1) Ceiling Cassette, 234 m ³ /hr, 220/1/60	2.00	unit		
7.0	EF (SA104 – Level 1) Ceiling Cassette, 360 m ³ /hr, 220/1/60	2.00	unit		
8.0	EF (SA104 – Level 1) Ceiling Cassette, 414 m ³ /hr, 220/1/60	1.00	unit		
9.0	EF (CR1 – Level 2) Ceiling Cassette, 144 m ³ /hr, 220/1/60	4.00	unit		
10.0	EF (CR1 – Level 2) Ceiling Cassette, 90 m ³ /hr, 220/1/60	1.00	unit		
11.0	EF (CR1 – Level 2) Ceiling Cassette, 1044 m ³ /hr, 220/1/60	3.00	unit		
12.0	EF (CR1 – Level 2) Ceiling Cassette, 288 m ³ /hr, 220/1/60	1.00	unit		
13.0	EF (CR2 – Level 2) Ceiling Cassette, 342 m ³ /hr, 220/1/60	3.00	unit		
14.0	EF (CR2 – Level 2) Ceiling Cassette, 234 m ³ /hr, 220/1/60	1.00	unit		
15.0	EF (CR2 – Level 2) Ceiling Cassette, 288 m ³ /hr, 220/1/60	2.00	unit		
16.0	EF (CR2 – Level 2) Ceiling Cassette, 162 m ³ /hr, 220/1/60	1.00	unit		
17.0	EF (CR3 – Level 2) Ceiling Cassette, 342 m ³ /hr, 220/1/60	3.00	unit		
18.0	EF (CR3 – Level 2) Ceiling Cassette, 162 m ³ /hr, 220/1/60	1.00	unit		

19.0	EF (CR3 – Level 2)	3.00	unit		
	Ceiling Cassette, 1062 m ³ /hr, 220/1/60				
20.0	EF (CR4 – Level 2)	3.00	unit		
	Ceiling Cassette, 1368 m ³ /hr, 220/1/60				
21.0	EF (CR4 – Level 2)	4.00	unit		
	Ceiling Cassette, 792 m ³ /hr, 220/1/60				
22.0	EF (CR4 – Level 2)	1.00	unit		
	Ceiling Cassette, 234 m ³ /hr, 220/1/60				
23.0	EF (CR4 – Level 2)	1.00	unit		
	Ceiling Cassette, 144 m ³ /hr, 220/1/60				
24.0	EF (SA204 – Level 2)	3.00	unit		
	Ceiling Cassette, 540 m ³ /hr, 220/1/60				
25.0	EF (SA204 – Level 2)	1.00	unit		
	Ceiling Cassette, 234 m ³ /hr, 220/1/60				
26.0	EF (SA204 – Level 2)	1.00	unit		
	Ceiling Cassette, 108 m ³ /hr, 220/1/60				
27.0	EF (SA204 – Level 2)	2.00	unit		
	Ceiling Cassette, 918 m ³ /hr, 220/1/60				
28.0	EF (CR5 – Level 2)	4.00	unit		
	Ceiling Cassette, 1044 m ³ /hr, 220/1/60				
29.0	EF (CR5 – Level 2)	3.00	unit		
	Ceiling Cassette, 486 m ³ /hr, 220/1/60				
30.0	EF (CR5 – Level 2)	1.00	unit		
	Ceiling Cassette, 270 m ³ /hr, 220/1/60				
31.0	EF (CR5 – Level 2)	1.00	unit		
	Ceiling Cassette, 216 m ³ /hr, 220/1/60				
32.0	EF (CR5 – Level 2)	7.00	unit		
	Ceiling Cassette, 1475 m ³ /hr, 220/1/60				
33.0	EF (CR1 – Level 3)	1.00	unit		
	Ceiling Cassette, 342 m ³ /hr, 220/1/60				
34.0	EF (CR1 – Level 3)	1.00	unit		
	Ceiling Cassette, 144 m ³ /hr, 220/1/60				
35.0	EF (CR1 – Level 3)	5.00	unit		
	Ceiling Cassette, 1098 m ³ /hr, 220/1/60				
36.0	EF (CR2 – Level 3)	3.00	unit		
	Ceiling Cassette, 1098 m ³ /hr, 220/1/60				
37.0	EF (CR2 – Level 3)	1.00	unit		
	Ceiling Cassette, 342 m ³ /hr, 220/1/60				
38.0	EF (CR2 – Level 3)	1.00	unit		
	Ceiling Cassette, 216 m ³ /hr, 220/1/60				
39.0	EF (CR2 – Level 3)	4.00	unit		
	Ceiling Cassette, 864 m ³ /hr, 220/1/60				
B	DUCTWORKS & ACCESSORIES				
30.0	GI SHEET, Ga.26	80.00	sheets		
31.0	Exhaust Air Grille	85.00	pc		

32.0	Flexible Duct, 250mm (1 meter provision)	85.00	m		
33.0	Duct Flange, 20mm	332.00	pc/s		
34.0	Duct Corner, 20mm	1,329.00	pc/s		
35.0	Duct Clamps	1,329.00	pc/s		
36.0	Duct Gasket	11.00	rls		
37.0	Duct Supports	332.00	pc/s		
38.0	Duct Sealant	8.00	gal		
39.0	Miscellaneous & Consumables	1.00	lot		
C	ELECTRICAL WORKS				
30.0	POWER & CONTROL WIRING	85.00	unit		
31.0	Hangers & Supports	1.00	lot		
32.0	Miscellaneous & Consumables	1.00	lot		
D	TESTING & COMMISSIONING				
30.0	Testing & Commissioning	85.00	unit		
SUBTOTAL A:					
B	LABOR				
1.0	__% of Material Cost	1.00	lot		
SUBTOTAL B:					
TOTAL DIRECT COST - MECHANICAL WORKS NAIA T3					
	MECHANICAL WORKS - NAIA TERMINAL 1				
	MECHANICAL WORKS - NAIA TERMINAL 2				
	MECHANICAL WORKS - NAIA TERMINAL 3				
	TOTAL MECHANICAL WORKS DIRECT COST			-	
Scope of Works:					
	1. Supply and Installation of Ventilating Fans including Ductworks, Grilles, Hangers and supports.				
	2. Supply and Installation equipment Electrical Power and Control System.				
	3. Testing and Commissioning.				

SCOPE OF WORK

NAIA TERMINAL 1

CIVIL WORKS

I SITE WORKS

A TEMPORARY ENCLOSURE, PROTECTION AND SIGNAGES

This work includes furnishing of labor, materials, equipments and performing all operations required for temporary enclosure, protection and signages requirements of the project. Temporary enclosures and protection- enclosures are 6mm thk. Marine Plywood w/ 32mmØ x 6m G.I Pipe, swivel clamp, base jack, portland cement, sand, gravel, and appropriate bracings and anchorage constructed to withstand wind pressure. Painted with two (2) coats flatwall enamel including paint roller and paint brush. Signages includes 6' x 50m Tarpauline w/ printed signages to ensure the safety of passenger. The contractor shall submit shop drawing of the enclosure before commencing work to be approved by the MIAA Civil Works Department.

B DEMOLITION, EXCAVATION, REMOVAL, HAULING TO DUMPSITE, CLEARING AND CLEANING

This work includes furnishing of labor, materials, equipments and performing all operations required for removal, hauling, demolition and disposal, site clearing/ cleaning.

Removal, Demolition, Hauling and Disposal - This work shall consist of the removal wholly or in part, demolition, and satisfactory disposal of all existing tiles, ceiling, walls, partition, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials. All waste materials resulting from the removal, demolition work shall be dump in the approved disposal areas as directed by the Engineer. The manner of disposing of materials and location for such purpose shall not create unsightly or objectionable view. All salvageable materials shall be properly turned over to MIAA Warehouse in coordination with Project In-charge. Debris shall be properly hauled to dumpsite and shall be done under the direct supervision of a qualified engineer. See approved plans and specifications. Any damage to adjoining works or existing structures caused by the contractor shall be restored and/or replaced at his own expense in a manner and time accepted by the Authority.

Site Clearing/ Cleaning- This work shall consist of clearing/ cleaning, removing and disposing all foreign objects and debris, 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.

Prepare a shop drawing approved by MIAA Civil works after implementation of the project. See approved plans and specifications.

II FORMWORKS AND SCAFFOLDINGS

This work includes furnishing of labor, materials, equipments and performing all operations required for formworks (Slab, Stiffener Column and Lintel Beam) requirements of the project.

Formworks are 6mm thk. Marine Plywood w/ 2" x 2" rough lumber, 2" x 3" rough lumber Scaffoldings system to be used must be appropriate for the height and load requirements of the project, erected with necessary braces, supports, locking pins, clamps, brackets, ladders, planks and anchorage.

See approved plans and specifications.

III CONCRETING WORKS

This work includes furnishing of labor, materials, equipments and performing all operations required for Slab, Stiffener Columns and Lintel Beam.

Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

See approved plans and specifications.

IV MASONRY WORKS

This work involves supply of labor, equipment and materials of 4" thk CHB and 6" thk. CHB (Concrete Hollow Blocks) for walls w/ 10mm dia. Vertical bar and 10mm dia. Horizontal bar. Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation.

Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

See approved plans and specifications.

V TILE WORKS

Supply of labor, equipment and materials of 0.6m x 0.6m Porcelain White Homogenous Floor Tiles, 0.6m x 0.6m Porcelain Matte Fin. Light Grey Homogenous Floor Tiles, 0.3m x 0.6 Homogenous Porcelain Tiles (Marble Design), 0.3m x 0.6 Homogenous Porcelain Tiles (Wave Design), 0.3m x 0.6 Homogenous Porcelain Tiles, Portland Cement (40kg/bag), Sand, ABC Tile Adhesive (25kg/bag), ABC Tile Grout (2kg/bag), 4" Diamond Cutter.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

VI CEILING WORKS

Supply of labor, equipment and materials of 12mm thk. gypsum board, WPC Ceiling in Wood Grain Finish (Submit Sample), 0.4mm thk x 25mm x 25mm x 3m Wall Angle, Expansion Shield, Steel Angle Bracket, Threaded Bolt/ Rod, Full Thread Hanger Rod, 1/4" (6mm) x 3m, Suspension Clip, Carrying Channel - 0.80mm thk x 12mm x 38mm x 5m , Carrying Joiner, Locking Key (23mm), Furring Channel - 0.40mm thk x 19mm x 50mm x 5m, Furring Joiner (23mm), Premium Jointing Compound (20kg/bag), Premix Compound (28kg), Paper Tape (75m/roll), Screw 1" and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

VII DRYWALL PARTITION

This work involves supply of labor, materials and equipment for drywall using 6mmthk x 1.2m x 2.4m Ficem Board, 1mm thk x 35mm x 102mm x 3m U-Tracks, 1mm thk x 35mm x 102mm x 3m C-Studs, Mesh Tape (2" x 250 ft /roll), 1/8" x 3/8" Blind Rivets, Gypsum Screw 1 1/2", Premium Jointing Compound (20kg/bag), Wood Glue, Concrete Nail 1" and all hardware accessories. See approved plans and specifications.

VIII CUBICLE PARTITIONS

Supply of materials, fabrication, delivery, and installation of toilet partition system, divider, ledges and all necessary hardware accessories (1 year warranty). See approved plans and specifications.

Also includes supply of labor, materials and equipment of 12mm thk x 4' x 8' Phenolic Board, Ga. 20 2"x6" Metal Stud, Mesh Tape (2" x 250 ft /roll), 1/8" x 3/8" Blind Rivets, Gypsum Screw 1 1/2", Premium Jointing Compound (20kg/bag), Wood Glue, Concrete Nail 1".

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

IX LAVATORY COUNTERS

A. Counter Top

This work involves supply, fabrication and installation of 12mm thk Synthetic stone countertop including 150mm Backsplash, 200mm Skirt, sealing, edge profile-single flat, holing (countertop and faucet) and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

B. Steel Framing

This work involves supply of labor, materials and equipment of 20mm thk x 4'x8' Marine Plywood, 1 1/2" Black Screw, Wood Glue, 2mm thk x 50mm x 100mm x 6m C-Channel, 12mm thk x 75mm Expansion Bolt, 10mm thk x L550mm x (H1=25mm; H2=50mm) Steel Plate, 10mm thk x 100mm x 150mm Steel Plate, Welding Rod, Oxygen (Refill), Acetylene (Refill) and all hardware accessories.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation.

Materials to be used shall conform to the sizes and design specified in the plans and shall

be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

X DOORS AND MISCELLANEOUS WORKS

A. Doors

Supply of labor, equipment and materials of 45mm thk. Flush Door w/ KD Solid Wood Frames and 150mm x 45mm thk. Solid KD Wood Jambs, w/ Ga. #18 S.S. Accent Strips w/ 6mm U-Groove and Ga. #18 S.S. Kick Plates on both sides in Satin Finish, w/ 6mm thk. Laminated Marine Plywood Face in Wood Grain Finish both sides - 900mm x 2100mm, Heavy Duty WPC Sight Proof Stationary Louvers in Wood Grain Finish, 1 set - Dorma Lever Handle D-type w/ both Side Key Cylinder Satin, S.S., 4 sets - Wall Anchors per Jamb @ Hinge and Strike Levels, and Floor Anchors drilled for 9.525mm Anchor Bolts at bottom of each Jamb Member.

45mm thk. Flush Door w/ KD Solid Wood Frames and 150mm x 45mm thk. Solid KD Wood Jambs, w/ Ga. #18 S.S. Accent Strips w/ 6mm U-Groove and Ga. #18 S.S. Kick Plates on both sides in Satin Finish, w/ 6mm thk. Laminated Marine Plywood Face in Wood Grain Finish both sides - 800mm x 2100mm, Heavy Duty WPC Sight Proof Stationary Louvers in Wood Grain Finish, 1 set - Dorma Lever Handle D-type w/ both Side Key Cylinder Satin, S.S., 4 pcs - Ball-bearing Butt. Hinges (4 1/2" X 4") S.S., 4 sets - Wall Anchors per Jamb @ Hinge and Strike Levels, and Floor Anchors drilled for 9.525mm Anchor Bolts at bottom of each Jamb Member.

45mm thk. Flush Door w/ KD Solid Wood Frames and 150mm x 45mm thk. Solid KD Wood Jambs, w/ Ga. #18 S.S. Accent Strips w/ 6mm U-Groove and Ga. #18 S.S. Kick Plates on both sides in Satin Finish, w/ 6mm thk. Laminated Marine Plywood Face in Wood Grain Finish both sides - 600mm x 2100mm, Heavy Duty WPC Sight Proof Stationary Louvers in Wood Grain Finish, 1 set - Dorma Lever Handle D-type w/ both Side Key Cylinder Satin, S.S., 4 sets - Wall Anchors per Jamb @ Hinge and Strike Levels, and Floor Anchors drilled for 9.525mm Anchor Bolts at bottom of each Jamb Member

Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

B. Backboard Framing

This work involves supply of labor, materials and equipment of 20mm thk x 4'x8' Marine Plywood, 1mm thk. Wood Grain Laminating Sheet, 1 1/2" Black Screw, Wood Glue, Contact Cement, 1mm thk x 35mm x 102mm x 3m Metal U-Track, 1mm thk x 35mm x 102mm x 3m Metal Studs, Mesh Tape (2" x 250 ft /roll), 1/8" x 3/8" Blind Rivets, Gypsum Screw, Premium Jointing Compound (20kg/bag), Concrete Nail 1" and all hardware accessories. See approved plans and specifications.

C. Baseboards

This work involves supply of labor, materials and equipment of 12mmthk. x 4" x 8" Ficem Board Substrate, All Purpose Epoxy A & B, #22 S.S. Satin Finish Base Board w/ 12mm thk.

Ficem Board Backing (Ficed Mounted) - 300mm (H), #22 S.S. Satin Finish Base Board w/ 12mm thk. Ficem Board Backing (Ficed Mounted) - 360mm (H), #22 S.S. Satin Finish Door Trim (Fixed Mounted) - 150mm x 170mm x 50mm and all hardware accessories. See approved plans and specifications.

D. Modular Shelf

This work involves supply of labor, materials and equipment of 20mm thk x 4' x 8' Marine Plywood, 1mm thk. X4' x 8' Wood Grain Laminating Sheet, Soft-Closing Hinges, Metal Catches, Cabinet Pull Handle, 20x25mm, S.S. Heavy Duty, Cabinet Lock, 1 1/2" Black Screw, Contact Cement, Wood Glue, Sanding Paper #100, Sanding Paper #200 and all hardware accessories. See approved plans and specifications.

XI PLUMBING WORKS

A WATERLINE/ POTABLE WATER DISTRIBUTION SYSTEM

This work involves supply of labor, materials and equipment of cold waterline/ potable watedistribution system using PPR Pipe PN 20 - (40mmØ, 25mmØ, 20mmØ), gate valve ((25mmØ, 20mmØ), Angle Valve (25mmØ, 20mmØ), PVC Pipe Fittings, PPR Pipe Cutter, Teplon Tape, Pipe Support and all hardware accessories.

B SEWERLINE/ WASTE WATERLINE

This work involves supply of labor, materials and equipment of sewerline/ wastewaterline using PVC Pipe Series 1000 - (150mmØ, 100mmØ, 50mmØ), PVC pipe fittings, 50mmØ S.S. Bottle Trap w/ Tailpiece, pipe support, solvent cement and all hardware accessories

C PLUMBING FIXTURES

This work involves supply of labor, materials and equipment of plumbing fixtures using Water Closet- Water-saving wall-hung elongated (w/proguard) 556x376x400mm, 3/4.5L Quite-closed seat w/complete accessories, & fittings; Brackets/In-wall carrier; toilet sensor - sensor activated w.c. flushometer (concealed toilet flush valve) AC version 158mm x 158mm L Adjustable at 4L, 6L water pressuer at 0.05-0.86 Mpa; Hygiene Spray (bidet)- Stainless Steel 304 w/ hose & bracket; Lavatory - wash basin under counter w/ cefiontect glaze 600x 422x209mm w/ complete fiiting and accessories; Lavatory Faucet - chrome sensor faucet, single hole basin mixer, w/ angle valve & flexible hose; Lavatory- W430xL500 wash basin wall-hung w/ necessary fittings & access.; Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose selectronic waterflow; Urinal - wall hung, BD-back inlet 460x374x690mm w/ concealed urinal flush valve (w/ manual button); Kids Urinal - wall-hung, BD-back inlet 350x320x605mm w/concealed urinal flush valve (w/ manual button 160x160x140mm); Facial Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm); Full Body Glass Mirror - Wall mounted, frameless, copper plated, water resistant

glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm).
 Janitor Sink - Fiberglass slop-laundry sink w/ lever type chrome handle faucet; Diaper Change - Horizontal folding type, wall-mounted W893xH661mmx102mm High density polyethylene w/ microban; Child Protection Seat - Vertical compact fold-away design long base; Hand Dryer - Double sided automatic jet speed touch free hand dryer infra-red activation; Paper Towel Dispenser / Waste Receptacle combined - recessed; Paper Towel Dispenser - Rolled Sensor-type; W.C. Grab Bar - Wall to Wall type Anti-Bacterial ABS Grab Bar; W.C. Grab Bar - Flip-up type Anti-Bacterial ABS Grab Bar (Side); Floor Drain - SS, pop-up floor drain strainer, (150 x 150mm); Faucet w/ Foot Rest - Lever type handle sink tap w/ swivel spout; Shower Seat - Foldable wall-mounted ; Hand Sanitizer - Sensor-type sanitizer, battery-operated; Soap Dispenser - Sensor-type, battery-operated; Trash Bin (Step Can) - W168 x H361cm , 10L capacity, S.S. brushed, soft-close, fingerprint-proof, w/ plastic bag fixer; Trash Bin (Open Trash Can) - 6½ x 14" x 13½"H, 2.6 gal. profile open trash can, S.S. brushed, fingerprint proof, removable inner bucket including all necessary hardware accessories.
 The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

XII PAINTING WORKS

A GYPSUM BOARD

This work involves supply of labor, materials and equipment of gypsum ceiling using 1-coat Flat latex Primer, 2-coats Latex Semi-Gloss, Gypsum Putty and accessories.

B CONCRETE WALL

This work involves supply of labor, materials and equipment of painting of concrete (walls) using 1-coat Flat latex Primer, 2-coats Latex Semi- Gloss, Masonry Putty, Concrete Neutralizer, Tinting colors, and accessories.

C FICEM BOARD

This work involves supply of labor, materials and equipment of ficem ceiling using 1-coat Flat latex Primer, 2-coats Latex Semi-Gloss and accessories.

D STUCCO

This work involves supply of labor, materials and equipment of Stucco Cement including accessories.

E CEMENTITIOUS WATERPROOFING

This work involves supply of labor, materials and equipment of three (3) coats cementitious waterproofing including hardware accessories.

F STEEL

This work involves supply of labor, materials and equipment of steel (C-Channel, Steel Plates, bolts) using 1-coat Red Oxide Primer, 2-coats Quick Dry Enamel, Lacquer Thinner and accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

PREVENTION OF ACCIDENT AND PUBLIC NUISANCE

1 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.

2 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.

3 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

SCOPE OF WORK NAIA TERMINAL 2

CIVIL WORKS

I SITE WORKS

A TEMPORARY ENCLOSURE, PROTECTION AND SIGNAGES

This work includes furnishing of labor, materials, equipments and performing all operations required for temporary enclosure, protection and signages requirements of the project.

Temporary enclosures and protection- enclosures are 6mm thk. Marine Plywood w/ 32mmØ x 6m G.I Pipe, swivel clamp, base jack, portland cement, sand, gravel, and appropriate bracings and anchorage constructed to withstand wind pressure. Painted with two (2) coats flatwall enamel including paint roller and paint brush.

Signages includes 6' x 50m Tarpauline w/ printed signages to ensure the safety of passenger.

The contractor shall submit shop drawing of the enclosure before commencing work to be approved by the MIAA Civil Works Department.

B DEMOLITION, EXCAVATION, REMOVAL, HAULING TO DUMPSITE, CLEARING AND CLEANING

This work includes furnishing of labor, materials, equipments and performing all operations required for removal, hauling, demolition and disposal, site clearing/ cleaning.

Removal, Demolition, Hauling and Disposal - This work shall consist of the removal wholly or in part, demolition, and satisfactory disposal of all existing tiles, ceiling, walls, partition, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials.

All waste materials resulting from the removal, demolition work shall be dump in the approved disposal areas as directed by the Engineer. The manner of disposing of materials and location for such purpose shall not create unsightly or objectionable view.

All salvageable materials shall be properly turned over to MIAA Warehouse in coordination with Project In-charge. Debris shall be properly hauled to dumpsite and shall be done under the direct supervision of a qualified engineer. See approved plans and specifications.

Any damage to adjoining works or existing structures caused by the contractor shall be restored and/or replaced at his own expense in a manner and time accepted by the Authority.

Site Clearing/ Cleaning- This work shall consist of clearing/ cleaning, removing and disposing all foreign objects and debris, 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.

Prepare a shop drawing approved by MIAA Civil works after implementation of the project. See approved plans and specifications.

II FORMWORKS, SCAFFOLDING AND STAGING

This work includes furnishing of labor, materials, equipments and performing all operations required for formworks, scaffolding and staging (Column, Floor Beam, Roof beam, Girder, Floor Slab, Lintel Beam, Column Stiffener and Steel Decking) requirements of the project.

Formworks and staging are 12mm thk. Marine Plywood w/ 2" x 2" rough lumber, 2" x 3" rough lumber.

Scaffoldings system to be used must be appropriate for the height and load requirements of the project, erected with necessary braces, supports, locking pins, clamps, brackets, ladders, planks and anchorage.

See approved plans and specifications.

III CONCRETING WORKS AND STEEL DECKING

This work includes furnishing of labor, materials, equipments and performing all operations required for Column, Floor Beam, Roof beam, Girder, Floor Slab, Lintel Beam, Column Stiffener.

Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

Also includes supply of labor, equipment, materials and delivery of steel decking using 1.2mm x 0.92m x L.S. Steel Decking - Base Metal Type ASTM A466 cold-rolled 550 Mpa (80,000 PSI) Coating: Zinc= 120 to 150 gms/ m², #12 x 20mm Tek screw 6013 x 1/8" Ø Welding Rod (20kg/ box), Cut-Off Disc (14"),

The contractor shall submit structural design plans and analysis with signed and sealed by structural engineer with the approval of MIAA Authority.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

See approved plans and specifications.

IV MASONRY WORKS

This work involves supply of labor, equipment and materials of 4" thk CHB and 6" thk. CHB (Concrete Hollow Blocks) for walls w/ 10mm dia. Vertical bar and 10mm dia. Horizontal bar.

Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

See approved plans and specifications.

V TILE WORKS

Supply of labor, equipment and materials of 0.6m x 0.6m Porcelain White Homogenous Floor Tiles, 0.6m x 0.6m Porcelain Matte Finish Light Grey Homogenous Floor Tiles, 0.3m x 0.6m Super White Polished Finish Porcelain Wall Tiles, Portland Cement (40kg/ bag), Sand, ABC Tile Adhesive (25kg/ bag), ABC Tile Grout (2kg/ bag), 4" Diamond Cutter including all necessary hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

VI CEILING WORKS

Supply of labor, equipment and materials of 6mm thk x 1.2m x 2.4m Fiber Cement Board, 12mm thk x 1.2m x 2.4m Moist Shield Gypsum Board , 0.4mm thk x 25mm x 25mm x 3m Wall Angle, Expansion Shield, Steel Angle Bracket, Suspension Rod (4mm, 3.6m), Suspension Clip, Carrying Channel (30mm x 0.55mm), Carrying Joiner, Locking Key (23mm), Furring Channel (23mm x 0.45mm), Furring Joiner (23mm), Premium Jointing Compound (20kg/bag), Premix Compound (28kg), Paper Tape (75m/roll), Screw 1" (1 box / 1000 pcs) and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

VII DRYWALL PARTITION

This work involves supply of labor, materials and equipment for drywall using 6mm thk x 1.2m x 2.4m Fiber Cement Board, 2mm thk x 50mm x 75mm x 6m G.I. Wall Studs, 2" Mesh Tape (75m/ roll), 1/8" x 3/8" Blind Rivets (100pcs/ bag), Gypsum Screw (100pcs/ bag), Premium Jointing Compound (20kg/bag), Wood Glue, Concrete Nail 2" including all hardware accessories.

See approved plans and specifications.

VIII CUBICLE PARTITIONS

Supply of materials, fabrication, delivery, and installation of toilet partition system, divider, ledges and all necessary hardware accessories (1 year warranty). See approved plans and specifications.

Also includes supply of labor, materials and equipment of 20mm thk x 4' x 8' Marine Plywood, GA20 2" x 6" x 6m Metal Stud, 2" Mesh Tape (75m/ roll), 1/8" x 3/8" Blind Rivets (100pcs/ bag), Gypsum Screw (100pcs/ bag), Premium Jointing Compound (20kg/bag), Wood Glue, Concrete Nail 2" and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

IX LAVATORY COUNTERS

A. Counter Top

This work involves supply, fabrication and installation of 12mm thk Synthetic stone countertop including 150mm Backsplash, 200mm Skirt, sealing, edge profile-single flat, holing (countertop and faucet) and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

B. Steel Framing

This work involves supply of labor, materials and equipment of 20mm thk x 4'x8' Marine Plywood, 1 1/2" Black Screw, Wood Glue, 2mm thk x 50mm x 100mm x 6m C-Channel, 12mm thk x 75mm Expansion Bolt, 10mm thk x L550mm x (H1=25mm; H2=50mm) Steel Plate, 10mm thk x 100mm x 150mm Steel Plate, Welding Rod, Oxygen (Refill), Acetylene (Refill) and all hardware accessories.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

X DOORS AND MISCELLANEOUS WORKS

A.Doors

Supply of labor, equipment and materials of Non-rated Steel Door with Jamb (0.9m x 2.1m) 1-3/4" thk door w/ GA #18 face sheets, GA #16 edges, frames GA #16, receives phosphate treatment and rust inhibitive primer. Provide site-applied lacquer-enamel (ducco) finish provided w/ #22 S.S. sheet satin finish baseboard including accessories: Sightproof stationary louvers, constructed of inverted v-shaped blades, formed of GA #18 cold rolled steel set into GA #16 steel frame, 1 set - Door closer, Parallel Arm, 1 set - Dorma lever handle D-type w/ both side key cylinder satin, S.S., 4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4") S.S., 4 - Wall anchors per jamb at hinge and strike levels, and floor anchors drilled for 9.525mm anchor bolts at bottom of each jamb member.

Non-rated Steel Door with Jamb (0.8m x 2.1m) 1-3/4" thk door w/ GA #18 face sheets, GA #16 edges, frames GA #16, receives phosphate treatment and rust inhibitive primer. Provide site-applied lacquer-enamel (ducco) finish provided w/ #22 S.S. sheet satin finish baseboard including accessories: Sightproof stationary louvers, constructed of inverted v-shaped blades, formed of GA #18 cold rolled steel set into GA #16 steel frame, 1 set - Door closer, Parallel Arm, 1 set - Dorma lever handle D-type w/ both side key cylinder satin, S.S., 4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4") S.S., 4 - Wall anchors per jamb at hinge and strike levels, and floor anchors drilled for 9.525mm anchor bolts at bottom of each jamb member.

12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) 1 - Door with Side Pilaster, 1300 mm (W), #22 S.S. Satin Fin. Tile Trim, #22 S.S. Satin Fin. Door Trim (50mm x 150mm), #22 S.S. Satin Fin. Baseboard (H= 300mm).

Also includes supply of labor, equipment and materials of 6" Floor to Floor Seismic Expansion Joint and Stainless Steel Cover (Warranty 5 years).

Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

XI PLUMBING WORKS

A ROOF DRAIN AND JANITOR SHELF

This work involves supply of labor, materials and equipment of roof drain using 100mmØ Brass Dome Roof Drain including screws and hardware accessories; Janitor's Shelf - includes 2-20mm thk Marine Plywood painted finish (white) with complete accessories (300mm x 2000mm) and all hardware accessories.

B WATERLINE/ POTABLE WATER DISTRIBUTION SYSTEM

This work involves supply of labor, materials and equipment of cold waterline/ potable water distribution system using PPR Pipe PN 20 - (50mmØ, 40mmØ, 32mmØ, 25mmØ, 20mmØ), gate valve ((50mmØ, 40mmØ), Angle Valve (32mmØ, 25mmØ), PVC Pipe Fittings, PPR Pipe Cutter, Teplon Tape, Pipe Support and all hardware accessories.

SEWERLINE/ WASTE WATERLINE

C This work involves supply of labor, materials and equipment of sewerline/ wastewaterline using PVC Pipe Series 1000 - (100mmØ, 75mmØ, 50mmØ), PVC pipe fittings, 50mmØ S.S. Bottle Trap w/ Tailpiece, pipe support, solvent cement and all hardware accessories

D PLUMBING FIXTURES

This work involves supply of labor, materials and equipment of plumbing fixtures using Water Closet- Water-saving wall-hung elongated (w/proguard) 556x376x400mm, 3/4.5L Quite-closed seat w/complete accessories, & fittings; Brackets/In-wall carrier; toilet sensor - sensor activated w.c. flushometer (concealed toilet flush valve) AC version 158mm x 158mm L Adjustable at 4L, 6L water pressure at 0.05-0.86 Mpa; Hygiene Spray (bidet)- Stainless Steel 304 w/ hose & bracket; Lavatory - wash basin under counter w/ cefiontect glaze 600x 422x209mm w/ complete fitting and accessories; Lavatory Faucet - chrome sensor faucet, single hole basin mixer, w/ angle valve & flexible hose; Lavatory- W430xL500 wash basin wall-hung w/ necessary fittings & access.; Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose selectronic waterflow; Urinal - wall hung, BD-back inlet 460x374x690mm w/ concealed urinal flush valve (w/ manual button); Kids Urinal - wall-hung, BD-back inlet 350x320x605mm w/concealed urinal flush valve (w/ manual button 160x160x140mm); Facial Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm); Full Body Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm).

Janitor Sink - Fiberglass slop-laundry sink w/ lever type chrome handle faucet; Diaper Change - Horizontal folding type, wall-mounted W893xH661mmx102mm High density polyethylene w/ microban; Child Protection Seat - Vertical compact fold-away design long base; Hand Dryer - Double sided automatic jet speed touch free hand dryer infra-red activation; Paper Towel Dispenser / Waste Receptacle combined - recessed; Paper Towel Dispenser - Rolled Sensor-

type; W.C. Grab Bar - Wall to Wall type Anti-Bacterial ABS Grab Bar; W.C. Grab Bar - Flip-up type Anti-Bacterial ABS Grab Bar (Side); Floor Drain - SS, pop-up floor drain strainer, (150 x 150mm); Faucet w/ Foot Rest - Lever type handle sink tap w/ swivel spout; Shower Seat - Foldable wall-mounted ; Hand Sanitizer - Sensor-type sanitizer, battery-operated; Soap Dispenser - Sensor-type, battery-operated; Trash Bin (Step Can) - W168 x H361cm , 10L capacity, S.S. brushed, soft-close, fingerprint-proof, w/ plastic bag fixer; Trash Bin (Open Trash Can) - 6½ x 14" x 13½"H, 2.6 gal. profile open trash can, S.S. brushed, fingerprint proof, removable inner bucket including all necessary hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

XII PAINTING WORKS

A GYPSUM BOARD

This work involves supply of labor, materials and equipment of gypsum ceiling using 1-coat Flat latex Primer, 2-coats Latex Semi-Gloss, Gypsum Putty and accessories.

B CONCRETE WALL

This work involves supply of labor, materials and equipment of painting of concrete (walls) using 1-coat Flat latex Primer, 2-coats Latex Semi- Gloss, Masonry Putty, Concrete Neutralizer, Tinting colors, and accessories.

C FICEM BOARD

This work involves supply of labor, materials and equipment of ficem ceiling using 1-coat Flat latex Primer, 2-coats Latex Semi-Gloss and accessories.

D CEMENTITIOUS WATERPROOFING

This work involves supply of labor, materials and equipment of three (3) coats cementitious waterproofing including hardware accessories.

E STEEL

This work involves supply of labor, materials and equipment of steel (C-Channel, Steel Plates, bolts) using 1-coat Red Oxide Primer, 2-coats Quick Dry Enamel, Lacquer Thinner and accessories.

F GLASS

This work involves supply of labor, materials and equipment of glass using 1-coat Acrylic Primer, 2-coats Acrylic Topcoat Flat and accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

PREVENTION OF ACCIDENT AND PUBLIC NUISANCE

1 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.

2 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.

3 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.

PROJECT : : PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS

LOCATION : : NAIA TERMINAL 1, 2 & 3

SCOPE OF WORK

NAIA TERMINAL 3

CIVIL WORKS

I SITE WORKS

A TEMPORARY ENCLOSURE, PROTECTION AND SIGNAGES

This work includes furnishing of labor, materials, equipments and performing all operations required for temporary enclosure, protection and signages requirements of the project.

Temporary enclosures and protection- enclosures are 6mm thk. Marine Plywood w/ 32mmØ x 6m G.I Pipe, swivel clamp, base jack, portland cement, sand, gravel, and appropriate bracings and anchorage constructed to withstand wind pressure. Painted with two (2) coats flatwall enamel including paint roller and paint brush.

Signages includes 6' x 50m Tarpauline w/ printed signages to ensure the safety of passenger.

The contractor shall submit shop drawing of the enclosure before commencing work to be approved by the MIAA Civil Works Department.

B DEMOLITION, EXCAVATION, REMOVAL, HAULING TO DUMPSITE, CLEARING AND CLEANING

This work includes furnishing of labor, materials, equipments and performing all operations required for removal, hauling, demolition and disposal, site clearing/ cleaning.

Removal, Demolition, Hauling and Disposal - This work shall consist of the removal wholly or in part, demolition, and satisfactory disposal of all existing tiles, ceiling, walls, partition, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials.

All waste materials resulting from the removal, demolition work shall be dump in the approved disposal areas as directed by the Engineer. The manner of disposing of materials and location for such purpose shall not create unsightly or objectionable view.

All salvageable materials shall be properly turned over to MIAA Warehouse in coordination with Project In-charge. Debris shall be properly hauled to dumpsite and shall be done under the direct supervision of a qualified engineer. See approved plans and specifications.

Any damage to adjoining works or existing structures caused by the contractor shall be restored and/or replaced at his own expense in a manner and time accepted by the Authority.

Site Clearing/ Cleaning- This work shall consist of clearing/ cleaning, removing and disposing all foreign objects and debris, 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.

Prepare a shop drawing approved by MIAA Civil works after implementation of the project. See approved plans and specifications.

II FORMWORKS

This work includes furnishing of labor, materials, equipments and performing all operations required for formworks (Slab, Stiffener Column and Lintel Beam) requirements of the project.

Formworks are 6mm thk. Marine Plywood, 12mm thk. Marine Plywood, w/ 2" x 2" rough lumber, 2" x 3" rough lumber.

Scaffoldings system to be used must be appropriate for the height and load requirements of the project, erected with necessary braces, supports, locking pins, clamps, brackets, ladders, planks and anchorage. See approved plans and specifications.

III CONCRETING WORKS

This work includes furnishing of labor, materials, equipments and performing all operations required for Stiffener Columns and Lintel Beam.

Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

See approved plans and specifications.

IV MASONRY WORKS

This work involves supply of labor, equipment and materials of 6" thk CHB (Concrete Hollow Blocks) for retaining wall w/ 10mm dia. Vertical bar and 10mm dia. Horizontal bar.

Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

See approved plans and specifications.

V TILE WORKS

Supply of labor, equipment and materials of 0.6m x 0.6m Porcelain Homogenous Floor Tiles, 9.8mm thk. x 600mm x 600mm Porcelain Ceramic Floor Tiles, 0.3m x 0.6 Super White Polished Finish Porcelain Wall Tiles, 0.3m x 0.6m Natural Wengue Rectified Matt Finish Porcelain Wall Tiles, Portland Cement (40kg/bag), Sand, ABC Tile Adhesive (25kg/bag), ABC Tile Grout (2kg/bag), 4" Diamond Cutter and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

VI CEILING WORKS

Supply of labor, equipment and materials of 12mm thk x 1.2m x 2.4m Moist Shield Gypsum Board, 0.4mm thk x 25mm x 25mm x 3m Wall Angle, Expansion Shield, Steel Angle Bracket, Suspension Rod (4mm, 3.6m), Suspension Clip, Carrying Channel (30mm x 0.55mm), Carrying Joiner, Locking Key (23mm), Furring Channel (23mm x 0.45mm), Furring Joiner (23mm), Premium Jointing Compound (20kg/bag), Premix Compound (28kg), Paper Tape (75m/roll), Screw 1" (1 box / 1000 pcs) and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

VII DRYWALL PARTITION

This work involves supply of labor, materials and equipment for drywall using 6mmthk x 1.2m x 2.4m Ficem Board, 12mm thk x 1.2m x 2.4m Fiber Cement Board, 1mm thk x 35mm x 102mm x 3m U-Tracks, 1mm thk x 35mm x 102mm x 3m C-Studs, 2mm thk x 50mm x 100mm x 6m C-Channel, Mesh Tape (2" x 250 ft /roll), 1/8" x 3/8" Blind Rivets, Gypsum Screw, 1/8" x 1" Black Metal Screw, Premium Jointing Compound (20kg/bag), Wood Glue, Concrete Nail 2" and all hardware accessories.

VIII CUBICLE PARTITIONS

Supply of materials, fabrication, delivery, and installation of 12mm thk Compact grade laminate toilet partition system with complete accessories (Stainless steel hardware #304, Lever-type locks, Double hooks behind doors & Occupancy Indicators) (1 year warranty). See approved plans and specifications.

Supply, fabrication and installation of 12mm thk Synthetic stone countertop including 150mm Backsplash, 200mm Skirt, sealing, edge profile-single flat, holing (countertop and faucet) and all hardware accessories.

Also includes supply of labor, materials and equipment of 12mm thk x 4' x 8' Ficem Board, 20mm thk x 4' x 8' Marine Plywood, Ga. 20 2"x6" Metal Stud, Mesh Tape (2" x 250 ft /roll), 1/8" x 3/8" Blind Rivets, Gypsum Screw, Premium Jointing Compound (20kg/bag), Wood Glue, Concrete Nail 2", ABC Tile Adhesive (25kg/bag), ABC Tile Grout (2kg/bag), 4" Diamond Cutter and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

IX LAVATORY COUNTERS

A. Counter Top

This work involves supply, fabrication and installation of 12mm thk Synthetic stone countertop including 150mm Backsplash, 200mm Skirt, sealing, edge profile-single flat, holing (countertop and faucet) and all hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

B. Steel Framing

This work involves supply of labor, materials and equipment of 20mm thk x 4'x8' Marine Plywood, 1 1/2" Black Screw, Wood Glue, 2mm thk x 50mm x 100mm x 6m C-Channel, 12mm thk x 75mm Expansion Bolt, 10mm thk x L550mm x (H1=25mm; H2=50mm) Steel Plate, 10mm thk x 100mm x 150mm Steel Plate, Welding Rod, Oxygen (Refill), Acetylene (Refill) and all hardware accessories.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

C. Vanity and Ledge

This work involves supply, fabrication and installation of 12mm thk Synthetic Granite Stone, Black Galaxy including 100mm splash board, 200mm skirt and accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

D. Vanity Framing

This work involves supply of labor, materials and equipment of Vanity Framing using 20mm thk x 4'x8' Marine Plywood, 2mm thk x 50mm x 100mm x 6m C-Channel, 2" Concrete Nail, Mesh Tape (2" x 250 ft /roll), Gypsum Screw, Premium Jointing Compound (20kg/bag) including all hardware accessories.

X DOORS

Supply of labor, equipment and materials of Non-rated STEEL DOOR with Jamb (0.765m x 2.1m) 1-3/4" thk door w/ Ga. #18 face sheets, Ga. #16 edges, frames Ga. #16, receives phosphate treatment and rust inhibitive primer. Provide site-applied lacquer-enamel (duco) finish provided w/ #22 S.S. sheet satin finish baseboard, Sightproof stationary louvers, constructed of inverted v-shaped blades, formed of Ga. #18 cold rolled steel set into Ga. #16 steel frame, 1 set - Door closer, Parallel Arm, 1 set - Dorma lever handle D-type w/ both side key cylinder satin, S.S., 4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4") S.S., 4 - Wall anchors per jamb at hinge and strike levels, and floor anchors drilled for 9.525mm anchor bolts at bottom of each jam member;

Non-rated STEEL DOOR with Jamb (0.900m x 2.1m) 1-3/4" thk door w/ Ga. #18 face sheets, Ga. #16 edges, frames Ga. #16, receives phosphate treatment and rust inhibitive primer. Provide site-applied lacquer-enamel (duco) finish provided w/ #22 S.S. sheet satin finish baseboard, Sightproof stationary louvers, constructed of inverted v-shaped blades, formed of Ga. #18 cold rolled steel set into Ga. #16 steel frame, 1 set - Door closer, Parallel Arm, 1 set - Dorma lever handle D-type w/ both side key cylinder satin, S.S., 4 pcs - Ball-bearing butt. Hinges (4-1/2" x 4") S.S. 4 - Wall anchors per jamb at hinge and strike levels, and floor anchors drilled for 9.525mm anchor bolts at bottom of each jam member.

Also includes 300mm ht. New #22 S.S. Satin Fin. Baseboard and #22 S.S. Satin Fin. Door Trim including all hardware accessories.

Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

XI PLUMBING WORKS

A MISCELLANEOUS

This work involves supply of labor, materials and equipment of #22 S.S. Satin Fin. Tile Trim, Janitor's Shelf - includes 2-20mm thk Marine Plywood painted finish (white) with complete accessories (300mm x 1000mm), 4"thk. CHB, Portland Cement (40kg/bag), Sand, Gravel, 10mm dia. X 6m Deformed Bar Grade 275, 12mm dia. X 6m Deformed Bar Grade 275, 10mm Ø Expansion Shield, #16 G.I. Tie Wire.

Concrete mixture to be used is class "A". The reinforcing bar should be Grade 275. No metal reinforcement shall be installed in place unless it is free from rust, scale or other coating which will destroy the bond with the concrete. All steel reinforcing bar shall be accurately placed and secured against the displacement by tying them together at each bar intersection with #16 G.I. Tie wire.

All steel materials shall have a mill certificate conform to the requirements of AASHTO prior to installation. Verify actual dimensions prior to fabrication, bending and installation. Materials to be used shall conform to the sizes and design specified in the plans and shall be free from rust and deformities. . All welding works shall be done by skilled welder under the direct supervision of engineer in-charge. See approved plans and specifications

See approved plans and specifications.

B WATERLINE/ POTABLE WATER DISTRIBUTION SYSTEM

This work involves supply of labor, materials and equipment of cold waterline/ potable watedistribution system using PPR Pipe PN 20 - (40mmØ, 32Ø, 25mmØ, 20mmØ), gate valve (40mmØ, 32mmØ, 25mmØ, 20mmØ), Angle Valve (25mmØ, 20mmØ), Angle Valve (2-Way) - 25mmØ, PVC Pipe Fittings, PPR Pipe Cutter, Teplon Tape, Pipe Support and all hardware accessories.

C SEWERLINE/ WASTE WATERLINE

This work involves supply of labor, materials and equipment of sewerline/ wastewaterline using PVC Pipe Series 1000 - (100mmØ, 750mmØ, 50mmØ), PVC pipe fittings, 75mmØ S.S. Bottle Trap w/ Tailpiece, Single Tak Bottle Trap 1-1/2" w/ Tail Piece, pipe support, solvent cement and all hardware accessories

D PLUMBING FIXTURES

This work involves supply of labor, materials and equipment of plumbing fixtures using Water Closet- Water-saving wall-hung elongated (w/proguard) 556x376x400mm,3/4.5L Quite-closed seat w/complete accessories, & fittings; Brackets/In-wall carrier; toilet sensor - sensor activated w.c. flushometer (concealed toilet flush valve) AC version 158mm x 158mm L Adjustable at 4L, 6L water pressuer at 0.05-0.86 Mpa; Hygiene Spray (bidet)- Stainless Steel 304 w/ hose & bracket; Lavatory - wash basin under counter w/ cefiontect glaze 600x 422x209mm w/ complete fiiting and accessories; Lavatory Faucet - chrome sensor faucet, single hole basin mixer, w/ angle valve & flexible hose; Lavatory- W430xL500 wash basin wall-hung w/ necessary fittings & access.; Lavatory Faucet - chrome sensor faucet, single hole basin mixer w/ angle valve & flexible hose selectronic waterflow; Urinal - wall hung, BD-back inlet 460x374x690mm w/ concealed urinal flush valve (w/ manual button); Kids Urinal - wall-hung, BD-back inlet

350x320x605mm w/concealed urinal flush valve (w/ manual button 160x160x140mm); Facial Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 400 x 1450mm); Full Body Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 800 x 1900mm); Vanity Glass Mirror - Wall mounted, frameless, copper plated, water resistant glass mirror on 6mm thk marine plywood backing on 20mm thk laminated marine plywood framing, fixed mounted by adhesive w/ S.S. T304 flat bar trim (6mm thk x 1050 x 2800mm);

Janitor Sink - Fiberglass slop-laundry sink w/ lever type chrome handle faucet; Diaper Change - Horizontal folding type, wall-mounted W893xH661mmx102mm High density polyethylene w/ microban; Child Protection Seat - Vertical compact fold-away design long base; Hand Dryer - Double sided automatic jet speed touch free hand dryer infra-red activation; Paper Towel Dispenser / Waste Receptacle combined - recessed; Paper Towel Dispenser - Rolled Sensor-type; W.C. Grab Bar - Wall to Wall type Anti-Bacterial ABS Grab Bar; W.C. Grab Bar - Flip-up type Anti-Bacterial ABS Grab Bar (Side); Floor Drain - SS, pop-up floor drain strainer, (150 x 150mm); Faucet w/ Foot Rest - Lever type handle sink tap w/ swivel spout; Shower Seat - Foldable wall-mounted ; Hand Sanitizer - Sensor-type sanitizer, battery-operated; Soap Dispenser - Sensor-type, battery-operated; Trash Bin (Step Can) - W168 x H361cm , 10L capacity, S.S. brushed, soft-close, fingerprint-proof, w/ plastic bag fixer; Trash Bin (Open Trash Can) - 6½ x 14" x 13½"H, 2.6 gal. profile open trash can, S.S. brushed, fingerprint proof, removable inner bucket including all necessary hardware accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

XII PAINTING WORKS

A GYPSUM BOARD

This work involves supply of labor, materials and equipment of gypsum ceiling using 1-coat Flat latex Primer, 2-coats Latex Semi-Gloss, Gypsum Putty and accessories.

B CONCRETE WALL

This work involves supply of labor, materials and equipment of painting of concrete (walls) using 1-coat Flat latex Primer, 2-coats Latex Semi- Gloss, Masonry Putty, Concrete Neutralizer, Tinting colors, and accessories.

C FICEM BOARD

This work involves supply of labor, materials and equipment of ficem ceiling using 1-coat Flat latex Primer, 2-coats Latex Semi-Gloss and accessories.

D MARINE PLYWOOD

This work involves supply of labor, materials and equipment of ficem ceiling using 1-coat Flatwall Enamel, 2-coats Quick Dry Enamel and accessories.

E CEMENTITIOUS WATERPROOFING

This work involves supply of labor, materials and equipment of three (3) coats cementitious waterproofing including hardware accessories.

F STEEL

This work involves supply of labor, materials and equipment of steel (C-Channel, Steel Plates, bolts) using 1-coat Red Oxide Primer, 2-coats Quick Dry Enamel, Lacquer Thinner and accessories.

The Contractor shall submit sample/ color scheme/ concept board for the approval of MIAA prior to installation. See approved plans and specifications.

PREVENTION OF ACCIDENT AND PUBLIC NUISANCE

1 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.

2 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.

3 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.

Project: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS
Location: NAIA TERMINAL 1, 2 & 3

GENERAL NOTES

I. TECHNICAL GUIDELINES

- 1) It is assumed that the bidder shall have full knowledge of the work and the site condition. Shall have thoroughly reviewed the plans, specifications, and bid documents, and thus warrants the availability of the materials, labor and equipment upon submission of his bid proposal.
- 2) The scope of work shall not in any way limit the true intent of the plans and specifications. It shall be the responsibility of the contractor to incorporate in his work any materials and other incidental he deems necessary to satisfy the true intent of the project and complete the same to the best Engineering standard and practices.
- 3) All dimensions shown in the plans shall be verified at the site before commencing work. Any discrepancies shall be reported to the MIAA project engineer/architect for clarification.
4. An as-built plan in A1 (20" x 30") size shall be submitted by the contractor to the MIAA for approval after the completion of the project (1 original copy in tracing paper and 1 copy in blueprint). CADD file in USB is also required to be submitted.

II. CONTRACTOR'S ELIGIBILITY

- 1) The prospective bidder must have a valid PCAB license of at least Category B with size range Medium A.
License Particular : General Building B
- 2) The prospective bidder/s must have an experience in the General Building Construction involving Civil and Architectural Works, Electrical Works and Mechanical Works.
- 3) The prospective bidder/s must have completed a single contract that is similar to this project with a project cost of at least 50% of the project ABC.
- 4) Similar project is defined as having as completed project particularly the Construction of a Building. Provided that only comfort room components of a building shall be considered in the determination of the SLCC requirement.
- 5) Submitted similar project are required to include detailed costing of the project showing the items for the particulars.
- 6) The prospective bidder is required to submit brochures/ catalogues of material used with prescribed specifications for major items (Tiles Works, Cubicle Partition, Lavatory Counters, Doors, Plumbing Fixtures, Plumbing Waterline, Plumbing Sewerline, Seismic Expansion Joint and Cover, Steel Decking, Air-conditioning, Ventilating/ Exhaust).
- 7) The prospective bidder's indirect cost of the project should not exceed 10% OCM and 8% Profit of the estimated direct cost (EDC).

III. RESPONSIBILITY OF CONTRACTOR

- 1) The contractor shall provide appropriate enclosures and informative/warning signage in all construction/working areas. Coordination with MIAA Engineering, MIAA T1, T2 & T3's

- Administration, Operation and Security offices shall be made to ensure no violation on operations, security and safety is made during the duration of the project.
- 2) Contractor is expected to exercise caution in the implementation of the construction/ installation work to safeguard life and avoid damage to adjoining existing structures / utilities. It shall be the responsibility of the contractor to verify presence of utility lines within the area to avoid damage to utility lines.
 - 3) Prior to installation/construction the item/materials to be installed shall have an approval from the Project Engineer and/or Architect-in-Charge of construction to ensure that the item/materials comply with the specifications.
 - 4) The contractor shall be solely responsible for any and all injuries to persons and/or damage to properties caused by the work or by his men and the contractor shall be solely liable for any claims as a result of injury and/or damages. The contractor shall indemnify the authority against any and all claims arising from injuries or damage to property caused by the project.
 - 5) The contractor shall coordinate all aspects of works with other construction trade in order to ensure a harmonious progress without interruptions, delays or modifications to work already completed.
 - 6) Before the start of the project, a pre-construction meeting shall be done to discuss house rules, entry pass requirements, safety and security concerns, schedule of works/activities, project timeline, work methodologies, contractors temporary facilities among others.
 - 7) All necessary additional materials and equipment required to complete the project will be in expense of the Contractor at no cost to MIAA.
 - 8) The contractor shall secure building permits, clearances and other government fees as a requirement for the project.
 - 9) Terminal 2 - The contractor shall prepare/ submit the necessary structural analyses, calculations, and design of structural members, including foundation, columns, beams, shear walls, seismic expansion joint per National Building Code of the Philippines, and other relevant codes prior to the implementation of the project. In addition, the structure's design shall consider the seismic and wind load requirements of the area (NAIA Terminal 2) to attain the optimum safety of the whole structure and minimize possible earthquake/ typhoon damage. The Contractor shall prepare the structural design of the building based on the data obtained from MIAA plans, site investigations, survey of existing site conditions and other investigation necessary in standard engineering practice to ensure safety of the structure. Design loads shall be derived based on applicable provisions of the 2015 7th Edition National Structural Code of the Philippines, Volume 1 – Buildings, Tower, and other Vertical Structures. At the end of the design stage, the Contractor is expected to develop all the required design construction plans. The contractor shall submit structural design plans and analysis with signed and sealed by structural engineer with the approval of MIAA Authority. The structural engineer shall supervise the construction of structural design phase of NAIA Terminal 2 Comfort Rooms.

IV. PROJECT SUPERVISION/PERSONNEL

The prospective bidder/s is/are required to have minimum technical personnel to be assigned to the project namely:

- 1) One (1) Structural Engineer for T2- duly licensed and have at least Five (5) Structural Analysis Projects and at least Three (3) years' experience in Structural Design and

Construction hence, appropriate license (photocopy) shall be submitted together with the bid.

- 2) Three (3) Project Engineer/Architect - should be a duly registered Civil Engineer or Architect and have at least Five (5) years' experience in General Building Construction to supervise the project hence, appropriate license (photocopy) shall be submitted together with the bid.
- 3) Six (6) Project Foremen - have at least Ten (10) years' experience in General Building Construction.
- 4) Six (6) Safety Officer – must have Certificate on Construction Occupational Safety and Health (COSH) from DOLE or its accredited training center, to be submitted by the bidder as a post qualification requirement.

V. QUALITY OF MATERIALS AND WORKMANSHIP

- 1) All materials to be used/installed shall be brand new and shall be a manufacturers standard product complying with the applicable specifications.
- 2) All materials and fixtures shall be installed in a neat and workman-like manner.
- 3) All materials and fixtures shall be checked by MIAA project engineer/architect prior to installation to ensure said materials/fixtures meet the requirements and standards.
- 4) MIAA reserves the right to reject the project in whole or in part due to poor workmanship or inferior quality of materials used.
- 5) Then Contractor shall guarantee his work (Civil Works – materials and workmanship) for a period of one (1) year from completion of the project. Noted defects within the aforesaid period shall be repaired by the contractor at his expense.

VI. PREVENTION OF ACCIDENT AND PUBLIC NUISANCE

1. 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.
2. The contractor shall ensure that his workmen are aware, and shall so instruct the workmen, of good and safe working practices.
3. 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.
4. The Contractors/ Safety Officer shall formulate a safety plan for work at the site provide proper safety and protection to life, limb and property especially at such places as exterior walls, roof decks and apron areas.

VI. COMPLETION

- 1) The project shall be completed within Two Hundred Twenty Four (224) calendar days period after receipt of the NTP/Contract from MIAA.

PROJECT: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT

LOCATION: NAIA TERMINAL 1, 2 AND 3

II- ELECTRICAL WORKS

A. EAST AND WEST ARRIVAL AREA, NAIA TERMINAL 1

SCOPE OF WORK

All electrical works shall include but not limited to the following items of works:

1. Dismantling of existing conduits, wirings, lighting fixtures, and other appurtenances.
2. Supply and installation of electrical conduits and boxes for proposed lighting, proposed convenience outlets and sensors.
3. Supply and installation feeders, conductors and appropriate conduits.
4. Supply and installation of electrical wirings for the proposed lighting and power circuit.
5. Supply and installation of lighting fixtures and wiring devices (switches and convenience outlets).
6. Supply and installation of Panel Boards.
7. Termination and commissioning

It shall also include electrical works even not stated above but are required and necessary for the intent and completion of this project.

GENERAL NOTES

1. The contractor shall be responsible to make certain that his personnel shall observe all MIAA rules and regulations governing movement and parking of equipment and vehicles with the MIAA vicinity.
2. The contractor shall provide all necessary supervision, tools, materials and equipment for the proper implementation of the project.
3. The contractor shall submit as built-in plan.
4. Damage to life and property within the vicinity of work caused by the operation of the contractor shall be sole responsibility of the contractor.
5. The contractor shall guarantee electrical works are free from grounds and from all defective workmanship and materials and will remain so far for a period of one (1) year from the date of acceptance.
6. The contractor shall remedy at his own expense any defects appearing within the foresaid period.
7. All works and materials not included in the list but found necessary to complete the work shall be for the account of the contractor.
8. The contractor shall coordinate with the Electrical Division during the implementation of this project.
9. Samples are to be submitted for all materials listed in the bill of materials, for verification and approval.
10. Submission of Waste materials to MIAA Warehouse.

**PROJECT: PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT
LOCATION: NAIA TERMINAL 1, 2 AND 3**

II- ELECTRICAL WORKS

B. EAST AND WEST DEPARTURE AREA, NAIA TERMINAL 1

SCOPE OF WORK

All electrical works shall include but not limited to the following items of works:

1. Dismantling of existing conduits, wirings, lighting fixtures, and other appurtenances.
2. Supply and installation of electrical conduits and boxes for proposed lighting, proposed convenience outlets and sensors.
3. Supply and installation feeders, conductors and appropriate conduits.
4. Supply and installation of electrical wirings for the proposed lighting and power circuit.
5. Supply and installation of lighting fixtures and wiring devices (switches and convenience outlets).
6. Supply and installation of Panel Boards.
7. Termination and commissioning

It shall also include electrical works even not stated above but are required and necessary for the intent and completion of this project.

GENERAL NOTES

1. The contractor shall be responsible to make certain that his personnel shall observe all MIAA rules and regulations governing movement and parking of equipment and vehicles with the MIAA vicinity.
2. The contractor shall provide all necessary supervision, tools, materials and equipment for the proper implementation of the project.
3. The contractor shall submit as built-in plan.
4. Damage to life and property within the vicinity of work caused by the operation of the contractor shall be sole responsibility of the contractor.
5. The contractor shall guarantee electrical works are free from grounds and from all defective workmanship and materials and will remain so far for a period of one (1) year from the date of acceptance.
6. The contractor shall remedy at his own expense any defects appearing within the foresaid period.
7. All works and materials not included in the list but found necessary to complete the work shall be for the account of the contractor.
8. The contractor shall coordinate with the Electrical Division during the implementation of this project.
9. Submission of Waste materials to MIAA Warehouse.

Project: **PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS AT NAIA TERMINAL 1, 2, AND 3.**

Location : **NAIA TERMINAL 2**

SCOPE OF WORK

All electrical works shall encompass, but are not limited to, the following:

1. **Electrical Conduits and Pullboxes:** Supply and installation for the proposed convenience outlets and lighting.
2. **Electrical Wiring:** Installation for the proposed lighting and power circuits.
3. **Lighting Fixtures and Devices:** Supply and installation based on the Bill of Materials (BOM).
4. **Panel Board:** Installation for the proposed electrical circuit.
5. **Testing and Commissioning:** Ensuring all systems are operational and meet required standards.

Additionally, the scope shall include any other electrical works not explicitly mentioned above but are necessary for the successful completion of the project.

GENERAL NOTES:

1. The contractor shall be accountable for making certain that his personnel shall observe all MIAA rules and regulations governing movement and parking of equipment and vehicles within the MIAA vicinity.
2. The contractor shall impart all necessary supervision and tools, materials and equipment for the proper implementation of the project.
3. The contractor shall not intervene with any electrical service in the vicinity presently connected without the consent of MIAA representative and if there will be such interruption it will be done with at least possible time.
4. The contractor shall submit as-built plan.
5. All tasks herein shall be done under supervision of at least one Registered Electrical Engineer (REE) with a proper training certificate of BOSH/COSH.
6. The contractor shall claim that all electrical works are free from grounds and from all detective workmanship and materials and will remain so far for a period of one (1) year from the date of acceptance.
7. All works, materials and services which are not specifically mentioned herein, but are necessary shall be furnished by the contractor at no cost to MIAA.
8. All works and materials not included in the list but found necessary to complete the work shall be for the account of the contractor.
9. Any damage to life and property caused by the contractor's operation within the vicinity of the facility covered in the project shall be the sole responsibility of the contractor.
10. The contractor must present a copy of the work accomplishment report, test results on testing, commissioning, and termination, and photos of work activities.

Project: **PROPOSED CONSTRUCTION OF ADDITIONAL COMFORT ROOMS**

Location: **NAIA TERMINAL 1, 2, AND 3**

II – ELECTRICAL WORKS

NAIA TERMINAL 3

A. SCOPE OF WORK

The project covers the supply, installation, testing and commissioning of electrical materials, devices, equipment, labor, and other incidental services and materials for the electrical works for the Proposed Construction of Additional Comfort Rooms at NAIA Terminal 3.

It shall include but not limited to the following items of work:

1. Mobilization
2. Site inspection and surveying works
3. Supply and installation of cables, boxes, panelboards, and conduits.
4. Testing, Termination, and Commissioning
5. Demobilization

All works, materials and services which are not specifically mentioned herein but are necessary shall be furnished by the contractor at no cost to MIAA.

B. GENERAL REQUIREMENT

- 1) All works, equipment and accessories in this project shall be in accordance with, but not limited to, the latest issues of Philippine Electrical Code (PEC) Part 1, National Building Code and other local and international applicable standards unless otherwise stated in this specification.
- 2) Equipment installation shall be done in accordance with the work standards set for the particular equipment installed.
- 3) All works herein shall be done under supervision of at least one Registered Electrical Engineer (REE) with a training certificate of BOSH/COSH.
- 4) The contractor shall guarantee that all works and goods shall be free from defect in workmanship and electrical defects within a warranty period of one (1) year.
- 5) Any item found to be defective within the aforementioned period, the contractor shall immediately replace the said item/s at their own expense and at no cost to MIAA.
- 6) Any damage to life and property caused by the contractor's operation within the vicinity of the facility covered the project shall be the sole responsibility of the contractor.
- 7) The contractor shall not interrupt any electrical service in the vicinity presently connected without the consent of MIAA representative and if there will be such interruption it will be done with at least possible time.
- 8) All unserviceable materials from the project shall be properly turned over to MIAA Warehouse prior to the acceptance of the project.
- 9) All works, materials and services which are not specifically mentioned herein, but are necessary shall be furnished by the contractor at no cost to MIAA.
- 10) The contractor must submit a copy of work accomplishment report, test results on testing, commissioning, and termination, and photos of work activities.

X. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

Technical Documents

- (b) 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**
- (c) 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**
- (d) Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**
- (e) 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; **and**
- (f) 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**
- (g) 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

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

Class “B” Documents

- (i) 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

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

Other documentary requirements under RA No. 9184

- (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (l) 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**
- (m) Cash Flow by Quarter.

Republic of the Philippines



Government Procurement Policy Board