



**General Bid Bulletin No. 12**

29 November 2021

**METRO MANILA SUBWAY PROJECT PHASE I**

**PACKAGE CP103:  
TWO UNDERGROUND STATIONS (ANONAS AND KATIPUNAN)  
AND TUNNELS  
(IFB No: 21-035-6)**

**TO ALL PROSPECTIVE BIDDERS:**

This General Bid Bulletin is issued to amend/clarify certain provisions in the Bidding Documents for the above-mentioned Project. Please refer to the attached Annexes of this General Bid Bulletin for details:

1. Annex "A" — Answers to Queries from Prospective Bidders including Clarifications to the Bidding Documents.
2. Annex "B" — Addendum to the Bidding Documents
3. Annex "C" — Revised pages of the Bidding Documents

All other portions of the Bidding Documents not affected by these revisions, amendments and/or clarifications shall remain unchanged.

Revisions/amendments/clarifications made herein shall be conserved as an integral part of the Bidding Documents of this Project

For your guidance and information.

For the Bids and Award Committee

**SIGNATURE REDACTED**

**WEBSTER M LAUREÑANA**  
Chairperson

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
----------	--------------------------	---------	----------

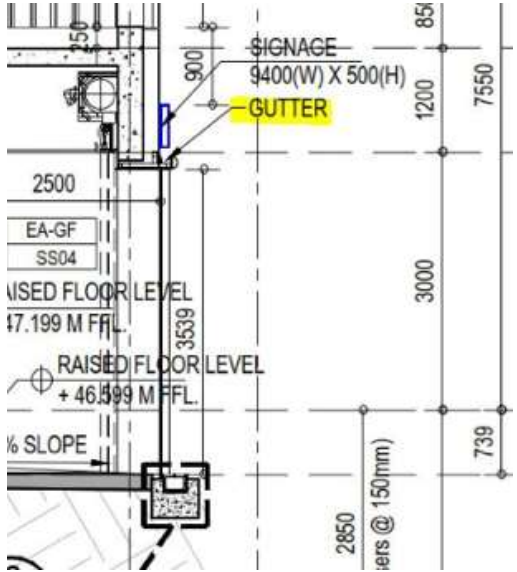
*Volume I Part1: Bid Procedures*

1.	<p>Volume 1 Part 1 Section IV Bidding Forms Page BF-10 Form of Bid Security (Bank Guarantee) Beneficiary: Procurement Service PS Complex, RR Road Cristobal Street Paco, Manila 1007 Philippines</p>	<p>The Bidder would like to confirm if the "Beneficiary" portion in page BF-10 for the Bid Security is correct.</p> <p>If not, please provide the correct "Beneficiary" name and address intended for CP103.</p>	<p>The "Beneficiary" portion in page BF-10 for the Bid Security is correct.</p>
2.	<p>Page No. EQC 5 1.1.8.5 The Bidder's proposed Outline Risk Management Plan shall demonstrate appropriateness of plan, organization and methodology to perform risk management. Specific COVID-19 Risk Management Plan and implementation proposals to...</p> <p>Page BF 49 5. Outline Risk Management Plan The Bidder shall provide a standalone COVID-19 Risk Management plan and its proposed implementation. This shall include for...</p>	<p>According to EQC 1.1.8.5, it says "The Bidder's proposed Outline Risk Management Plan shall demonstrate appropriateness of plan, organization and methodology to perform risk management."</p> <p>However, in the instructions of 5. Outline Risk Management Plan of Page BF-49, it is explained only for COVID-19 Risk Management plan.</p> <p>Please clarify whether only COVID-19 Risk Management plan is enough or not?</p>	<p>The Covid 19 Risk Management Plan is supplementary or additional to the Contractor's RMP which is required to identify any potential risk (not limited to Covid 19) and mitigation to control that specific risk as stipulated under the Section VI Works Requirements General Specifications (GS) 109 RISK MANAGEMENT</p>
3.	<p>BF-50, BF-52, Technical Bid: Contents No. 8</p>	<p>The Bidder would like to confirm its understanding that if the Bidder already provided a complete list and detailed</p>	<p>The Bidder's understanding is correct. However, the Bidder is reminded to confirm if there is no recommended spare parts etc."</p>

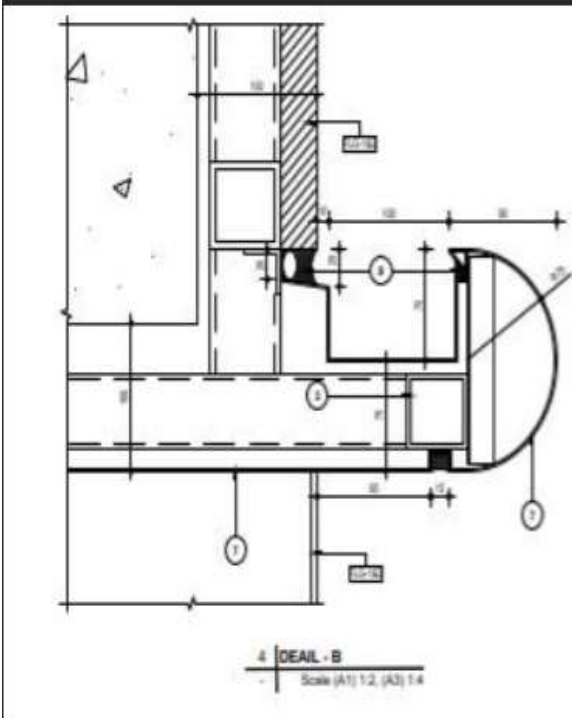
<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	<p>“List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment”, Technical Bid: Contents No. 9 “List of Recommended Spare Parts and Special Tools to be provided upon receipt of Employer’s Instruction”,</p> <p>and</p> <p>BF-66, BF-69 Price Bid: Contents No. 2 “Price List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment”,</p> <p>Price Bid: Contents No. 3 “Price List of Recommended Spare Part and Special Tools to be provided upon receipt of Employer’s Instruction”</p>	<p>information for Technical Bid: Contents No. 8 “List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment” and there is nothing to recommend for the Technical Bid: Content No. 9 “List of Recommended Spare Parts and Special Tools to be provided upon receipt of Employer’s Instruction”, then it is not necessary to fill-up or to provide details for the Technical Bid: Content No. 9 “List of Recommended Spare Parts and Special Tools to be provided upon receipt of Employer’s Instruction”.</p> <p>Same manner as above for Price Bid: Contents No. 2 “Price List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment” and Price Bid: Contents No. 3 “Price List of Recommended Spare Part and Special Tools to be provided upon receipt of Employer’s Instruction”.</p>	
<b><i>Volume IA Bill of Quantities (BOQ)</i></b>			
4.	<p>BOQ-277 BOQ-282 BOQ-288 Builder's work in connection with services (3%)</p>	<p>Please advise to which Pay Item we can refer this 3%.</p>	<p>No pay Item Number provided in TS. Builder's work in connection with services (3%) is the designer's assumption. BOQ to update description.</p>
5.	<p>Bill of Quantities Aluminum Bandless Gutter</p>	<p>At Bill of quantities, Pay item 1017(1)b Aluminum Bandless Gutter (4set) is indicated</p>	<p>Refer to drawing on Entrance, section for detail as shown below(STN-AR-A-KP-9112), Roof Level Plan</p>

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
----------	--------------------------	---------	----------

		<p>at Bill No.4B. Please provide construction range for this item because we cannot find this in the drawings.</p>	<p>and Entrance Terrace Level Plan for the extent.</p> <p>STN-AR-A-EA/QA/KP/AN-6000 to 7000 po for entrance elevations.</p>  <p>STN-AR-A-EA/QA/KP/AN-9112 for the typical details.</p>
--	--	--	--

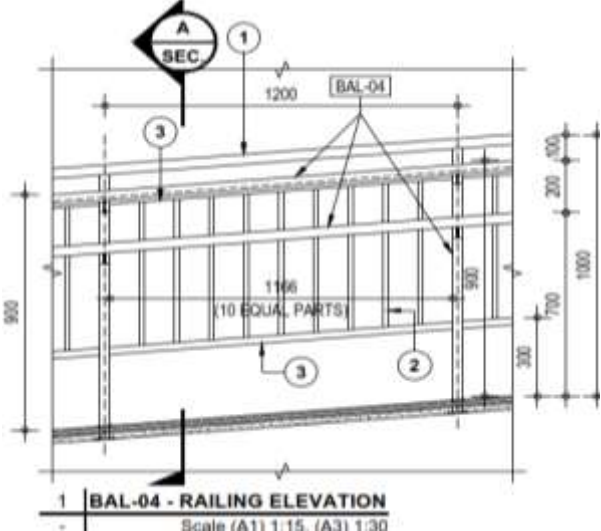
**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
6.	Pay item 1027(1)	At Bill of quantities, Pay item 1027(1) Cement Plaster Finish is indicated. May we assume that this item is also used as cement plaster groundworks for paint, tiles, stones, waterproofing, glasswool and other finishes that requires plastering groundworks?	For pay item number, applicable to any type of wall plastering, except for stone cladding.
7.	BOQ-61 / Pay Item 1018 (3) b6 at Katipunan Station	Please confirm if the unit for Granite Stone Polished - 600x150x25 is in LM or M2?	The unit shall be in linear meter (lnm); Anonas DPWH BOQ shall update into M2.

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
8.	Tunnel Lighting Bill no.8 Unit – length 12,150m	Please explain, meaning 12,150m. Is it tunnel length ? If answer is Yes, Is it remeasurement based on Tunnel length per meter ?	12,510m is tunnel length. What is your intention of "remeasurement"?
9.	Stainless Steel Guardrail	At Bill of Quantities Bill No.4A & 4B, Pay Item No. 1051 (5) a5 Stainless Steel Guardrail is indicated, Please provide its construction range.	ARCH Pay Item No. 1051 (5) a5 Stainless Steel Guardrail is Bal-04 in the Architectural drawings as shown below. Drawing references: STN-AR-A-KP-6034 STN-AR-A-AN-6001 Typical Details: STN-AR-A-KP/ AN-9190

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
10.	BOQ-43, 55 Part A Earthworks: Trimming Works, 803 (2)	The Bidder could not find TS No. 803.  The Bidder would like to request the Employer to provide the work description for this item.	Technical Description for "Trimming Works" shall be referred to the following clause: TS Section 803.3.2.1.2 and TS Section 803.3.3
11.	BOQ -47, 59 Part D1 Masonry Works: CHB Load Bearing (including Reinforcing Steel) 150mm, 1046 (1) a2	The Bidder would like to confirm if is it correct that Lintel for M&E opening is measured in this item as well as the pipe sleeve, mastic sealant and concrete filler.  The Bidder would like to clarify that this BOQ No. shall include these items or not.	Included in Archi scope of works.
12.	Bill of Quantities Item No. 1033 (3) Catwalk for Equipment Maintenance	Please provide the detailed drawings, location and quantity of catwalk for equipment maintenance.	Please refer to the Attachment BOQ Quantity: 1 lot Take-off/measurement: AN 65.24m and KP120.21m

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>																							
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>																				
13.	General Bid Bulletin No. 8 Page 33 of 76 Item No.85 Protective Coatings (Anti-Graffiti)	It was clarified in GBB No.8 that Anti-Graffiti coatings is included in the scope of CP103 Contractor.  Please provide reference drawings showing the location to where anti-graffiti coating is required. Also advise which BOQ Pay Item Number it should be included.	1. The range of the coating shall be on external wall, roll-up shutter and glass window of at-grade entrance including ancillary buildings where facing to public space / accessible from side walk. The application in height will be from ground level to top of parapet of 1story high. Drawing shall be updated to indicate above extent. 2. Pay-item to be allocated accordingly. 3. Ts shall be updated for such exterior materials ; Stone, Glass and painted steel.																				
14.	1047 (2) Structural Steel	The Bidder estimated the quantity of structural steel based on Structural Drawings STA-S-AN-3040 to 3043, STA-S-AN-3048 to 3050, STA-S-AN-3072 to 3074, STA-S-AN-3100 to 3111, STA-S-KP-3023 to 3025, STA-S-KP-3029 to 3035, STA-S-KP-3038 and STA-S-KP-3092 to 3110, however, the calculated quantity is much lower than the BOQ.  The Bidder would like to request the Employer to inform the reference drawings to where these structural members should be referred to.	1. Outdoor Area (Equipment Area) 2. Elevators 3. Ceiling Hangers Attached sheet "Annex1" is for further clarification.																				
15.	Granite Anti-slip Chamfered Nosing	At Bill of quantities Bill No.7B, Pay item 1018(5)c Jetblack Granite Anti-slip Chamfered Nosing 70x600x20mm is indicated. Please also include this item at Bill No.4A, 4B, 7A, and 7C	BOQ to be updated. Design team to check if item is included in the drawings.																				
16.	Guardrail	At Bill of quantities, Pay item 1051(5) Guardrail Hot-dip galvanized mild steel railing is indicated at Bill No.7A and 7C but not included at Bill No.7B. Please also include this item at Bill No.7B Bill of Quantities.	Already included in Bill 7B.  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: left;">Miscellaneous Structures</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1051</td> <td style="text-align: center;">1051</td> <td>Expanded Security Mesh</td> <td style="text-align: center;">m<sup>2</sup></td> </tr> <tr> <td style="text-align: center;">1051</td> <td style="text-align: center;">1051</td> <td>Wire Mesh framed angle bar</td> <td style="text-align: center;">m<sup>2</sup></td> </tr> <tr> <td style="text-align: center;">1051</td> <td style="text-align: center;">1051 (1) a</td> <td>50mm dia. Stainless Steel Railing, Halfline Finish</td> <td style="text-align: center;">m</td> </tr> <tr> <td style="text-align: center;">1051</td> <td style="text-align: center;">1051 (5)</td> <td>50mm dia. Hot-dip Galvanized Mild Steel Railing</td> <td style="text-align: center;">m</td> </tr> </tbody> </table>	Miscellaneous Structures				1051	1051	Expanded Security Mesh	m <sup>2</sup>	1051	1051	Wire Mesh framed angle bar	m <sup>2</sup>	1051	1051 (1) a	50mm dia. Stainless Steel Railing, Halfline Finish	m	1051	1051 (5)	50mm dia. Hot-dip Galvanized Mild Steel Railing	m
Miscellaneous Structures																							
1051	1051	Expanded Security Mesh	m <sup>2</sup>																				
1051	1051	Wire Mesh framed angle bar	m <sup>2</sup>																				
1051	1051 (1) a	50mm dia. Stainless Steel Railing, Halfline Finish	m																				
1051	1051 (5)	50mm dia. Hot-dip Galvanized Mild Steel Railing	m																				



<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
17.	Non-skid asphalt tape	At Bill of Quantities Bill No.7A & 7C Non-skid asphalt tape is indicated but nowhere to be found in the drawings. Please provide construction range in the drawings. Moreover please also add this item in BOQ Bill No. 7B if necessary.	BOQ has been updated. Item is updated to 70X600X20Mm Jetblack Granite Anti-Slip With Chamfered Flame Finish - Stair Nosing.
18.	Mention in the BOQ Required panel Detail	May we request for a Load Schedule / Single Line Diagram for the following Panelboards. They are included in BOQ but no LS and SLD are provided for these particular items	Refer to STN-MEP-BMS-AN-2041
19.	MATV System "STN-MEP-ELV-AN-2047 STN-MEP-ELV-AN-3700, 3701, 3702, 3703, 3704, 3705, 3710, 3711, 3712, etc. TS-MEP p. 204"	Master Antenna Television System is indicated in the Technical Specifications and Bid Drawings but it is not reflected in the BOQ provided. Please confirm.	Master Antenna Television System is a scope of work for not MEP but Telephone Service Provider. Please refer to latest TS
20.	BOQ-155 and BOQ-248 Drain channels (open canals); serving station entrances excluding of gratings	Please advise if the following items are included in Pay Item - drain channels. 1. smooth precast polymer trench body 2. floor gutter exposed concrete to receive bituminous waterproofing 3.floor gutter concrete steel trowel 4.WPS-01 bituminous waterproofing	item 1 & 2 included in MEFPS while item 3&4 included in Archi.
21.	BOQ-273/ Bill No. 7A BOQ-279/ Bill No. 7B BOQ-284/ Bill No. 7C Pay Item 101(1) Removal of Structure & Obstructions and Relocation	We understand that the existing structures and obstructions in the Site will be demolished / removed by the Employer as pre-construction works prior to the Commencement Date, but if there is anything left uncompleted, it will be demolished / removed by the Contractor in accordance with the Engineer's instruction and will be settled by Provisional Sum.	Removal of structure and obstructions and Restoration at Pedestrian Bridges are not covered by the Provisional Sum.

**Metro Manila Subway Project Phase 1  
PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		If this understanding is correct, we consider that the Pay Item No. 101(1) "Removal of Structure & Obstruction and Relocation" set out in the Bill Nos. 7A, 7B and 7C are unnecessary. Please clarify that.	
22.	Bill NO.5A STATIONS E & M WORKS (ANONAS STATION)	There are some items that are not shown in the BOQ but can be picked up from the drawing. For such items, may we add such items to the bid BOQ, and enter the quantity and unit rate?	Please refer to the latest BOQ in Attachment .
23.	General Lighting and Power "Allow for the provision " items AN Station Lighting fixtures for Elevator Car including necessary controls, conduits and wirings as required	No information. To be provided detail requirements.	Elevator Car light fixture including necessary controls shall be under vendor's scope.
24.	General Lighting and Power "Allow for the provision " items AN Station Lighting fixtures for Elevator Car including necessary controls, conduits and wirings as required	No information. To be provided detail requirements.	Elevator Car light fixture including necessary controls shall be under vendor's scope.
25.	TUNNEL VENTILATION SYSTEM "Allow for the provision " items AN Station Tunnel ventilation ducts and ancillaries including grilles, dampers, flanges, connections and all other necessary accessories	No information. To be provided detail requirements.	Grills, flanges, connections etc. are not separate BOQ items. To be considered along with Damper or Fan cost.
26.	WET PIPE SPRINKLER SYSTEM "Allow for the provision " items	No information. To be provided detail requirements.	Allowance only to complete the System

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	AN Station Electrical connection from floor control assembly to FACP riser including wires, conduits and all necessary accessories to complete the system	It shall be under FDAS. Please mention requirement and revise BOQ.	
27.	WET PIPE SPRINKLER SYSTEM "Allow for the provision " items AN Station Drainpipe connection to sump pit	No information. To be provided detail requirements.	Drain Pipe to be connected to the nearest Drain.
28.	STORM DRAINAGE SYSTEM "Allow for the provision " items AN Station Elevator/Escalator pit pump complete with all necessary pipeworks and connections	No information. To be provided detail requirements.	All escalator & elevator sump pump are removed. No need to provide specific drawings
29.	TUNNEL DRAINAGE SYSTEM "Allow for the provision " items AN Station Tunnel drainage system pumps including, pipes fittings, valves, pumps and all other necessary accessories to complete the system	Based on Civil information and tunnel drainage DWGs, We understood that tunnel drainage system was not provided.	There is no tunnel section at AN station.
30.	MECHANICAL VENTILATION SYSTEM "Allow for the provision " items KP Station Fresh Filter and Exhaust Filter; including all necessary connections, flanges and adaptors	No information. To be provided detail requirements.	Refer latest Tender drawings

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
31.	<p><b>MECHANICAL VENTILATION SYSTEM</b> "Allow for the provision " items KP Station</p> <p>Allowance for ductworks including ducts, fittings, insulation, dampers, grilles and other necessary accessories to make the equipment/system work. for KP-MZ-IU-1A/1B serving Electrical Supply Room</p> <p>for KP-MZ-IU-2A/2B serving UPS room</p> <p>for KP-MZ-IU-3A/3B serving TUR room</p> <p>for KP-MZ-IU-4A/4B/4C serving TER room</p> <p>for KP-MZ-IU-5A/5B serving SUR room</p> <p>for KP-MZ-IU-6A/6B serving SER room</p> <p>for KP-MZ-IU-7A/7B serving AFC</p>	<p>Not mentioned AC ducting and accessories. To be provided detail requirements.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Not mentioned AC ducting and accessories.</p> <p>Mentioned about Anonas St ? Not mentioned AC ducting and accessories. Equipment List, BOQ and Layout DWG were not same information.</p>	<p>Refer latest Tender drawings in Annex</p>

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	room  for KP-MZ-IU-8A/8B/8C serving SSS room  for AN-MZ-IU-10A-10G serving TSS room		
32.	AIR CONDITIONING SYSTEM "Allow for the provision " items KP Station Pressure relief grille; including all necessary connections, flanges and adaptors	No information. To be provided detail requirements.	Detail requirements shall be referred from the Tender drawings & Technical specifications
33.	TUNNEL DRAINAGE SYSTEM "Allow for the provision " items KP Station Tunnel drainage system pumps including, pipes fittings, valves, pumps and all other necessary accessories to complete the system	Based on Civil information and tunnel drainage DWGs, We understood that tunnel drainage pit was 1 location only and installed drainage pump up pipe until KP station under plat form	There is only one sump pit and 2 submersible pumps at one location only.
34.	BOQ of MEP works Qty and Description "CP103 BOQ table_29Mar2021"	There are some discrepancies between the distributed BOQ "CP103 BOQ table_29Mar2021" and the contents of the drawing. If a revised BOQ had been prepared, please provide it.	Please refer to the latest updated BOQ
35.	"01_CP103_P1_S(IA)_(BF-BOQ)_8June2021.pdf" and "CP103 BOQ table_29Mar2021.xlsx"	There is a discrepancy between the bidding document "01_CP103_P1_S (IA) _ (BF-BOQ)_8June2021.pdf" and the Excel data BQ "CP103 BOQ table_29Mar2021.xlsx" distributed at the same time as GBB5.	Refer to updated BOQ sheet as the latest.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		In this regard, we would like to request you again to issue revised and updated BQ officially as soon as possible for our accurate price submission.	
36.	BOQ-263, 280 Part D.1 Structural Works, Concrete Accessories,901	The Bidder could not find related drawing which indicate Concrete Accessories to take off the quantities for this item.  The Bidder would like to request the Employer to provide related document/information.	Concrete Accessories can be found at the Road Pavement at Bus Bay. Please see screenshot of construction joint details and consideration of concrete accessories. Also please see NRM BOQ for the items of accessories. Drawing No. SPL-C-RD-KP-1035
37.	BOQ-266, 271 Part D.3 Miscellaneous Works, Builder's works in connection to services, 1200 No item description in TS No. 1200 is found with unit is ls.	The Bidder would like to request the Employer to provide percentages as same manner in BOQ No. 277, 288.	An allowance of 3% of the total amount of services is provided.
38.	BOQ-266, 271 Part A Earthwork: Removal of Structure & Obstructions and Restoration, 101 (1)	The Bidder could not find related drawings for existing services to be removed.  The Bidder would like to request the Employer to provide related drawings.	An allowance for this item is provided. Please refer to the bidding documents for your estimation.
39.	BOQ-276, 287 Non-skid asphalt tape	The Bidder could not find related TS and drawings.  The Bidder would like to request the Employer to provide related TS and drawing.	Please refer to Stair Detail 01 Drawing No SPL-PB1-A-AN-2011 and SPL-PB1-A-KP-2027. TS to provide specifications and pay item no.
40.	Volume IA Part 1 Bill of Quantities (BOQ),  Volume II Part 2	The Bidder would like to clarify that the Bidder shall follow the BOQ number and items name instead of the Technical Specification (TS) MEP.	Please refer to latest updated BOQ

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	<p>Section VI: Technical Specifications (TS) 3: Mechanical, Electrical and Plumbing BOQ-123, Pay item no. 1112 (lan) AS-MZ-MDB-01 Page 94 1112.4.2 Basis of Payment</p> <p>There is a discrepancy in the TS and BOQ.</p> <p>In the Technical Specification, it is indicated that the panelboard name is 1112(1)a OS-MZ-MDB-01, while in the BOQ it is indicated 1112 (lan) AS-MZ-MDB-01. In addition, same situation with other panelboards.</p>		
41.	<p>Volume 1A Part 1 Bill of Quantities (BOQ) BOQ-264 Outdoor Fitness Equipment</p>	<p>In the BOQ of Anonas Station Plaza, 1 pc of outdoor fitness equipment is required.</p> <p>Please clarify what kind of outdoor fitness equipment including its specifications is required.</p>	<p>Please find the revised drawings SPL-A-LA-AN-2702.</p>
42.	<p>BOQ-264 Outdoor Play Equipment</p>	<p>In the BOQ of Anonas Station Plaza, 1 pc of outdoor play equipment is required.</p> <p>Please clarify what kind of outdoor play equipment including its specifications is required.</p>	<p>Please find the revised drawings SPL-A-LA-AN-2701.</p>

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
43.	Volume IA Part I Bill of Quantities (BOQ): BOQ Item "Builder's work in connection to services" BOQ Item "Builder's works in connection to services"	The Bidder would like to request the Employer to please advise what considerations should be included in costing for this pay item.	Allowance only for the tapping and connection.
44.	Volume IA Part I Bill of Quantities (BOQ): Pedestrian Bridge - Bill of Quantities 101 (1) Removal of Structure & Obstructions and Restoration BOQ: Pedestrian Bridge - Bill of Quantities 101 (1) Removal of Structure & Obstructions and Restoration	The Bidder would like to clarify the structure to be removed and restored. Please provide.  Please confirm that removal of structure and obstructions and Restoration at Pedestrian Bridges are not covered by the Provisional Sum.	Your understanding is correct. Removal of structure and obstructions and Restoration at Pedestrian Bridges are not covered by the Provisional Sum.
45.	WET PIPE SPRINKLER SYSTEM "Allow for the provision " items KP Station Drainpipe connection to sump pit	No information. To be provided detail requirements.	Drainpipe to be connected to the nearest drain.
46.	STORM DRAINAGE SYSTEM "Allow for the provision " items KP Station Elevator/Escalator pit pump complete with all necessary pipeworks and connections	No information. To be provided detail requirements.	All escalator & elevator sump pump are removed. No need to provide specific drawings
47.	MEP TS 1223.2.1 (11) Glass Wool Acoustic Panel	In GBB 8 Item 172. Response are; 1. Follow manufacturers detail as per Arc TS 1031 & MEP TS 1223 2. Follow 52.4mm thickness NRC-0.95 in line with TS MEP 1223.2.1	Please use Arch TS and refer to Section 1031.2.2.1



<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		<p>The Bidder checked the MEP TS 1223.2.1 (11) where the material and fixing method of acoustic lining for wall and ceiling are clearly stated. Therefore, the Bidder would like to confirm if this statement can follow for the Work Package with pay item 1031 (1)c "Acoustic Galss Wool Acoustic Panel" in lieu of Arch TS 1031. Please advise.</p> <p>MEP 1223.2.1 (11) Acoustic Lining/ Treatment of Equipment Rooms: The walls and ceiling of AHU and Chiller plant room shall be provided with fix resin bonded glass wool 50mm thick of density 32 kg/m<sup>3</sup> for acoustic lining as per following specifications:</p> <p>(a) Installation:</p> <ul style="list-style-type: none"> <li>(i) Clean the surface</li> <li>(ii) Fix section (size 25 x 50 x 50 x 50 x 25mm) fabricated out of 24G GI frame with spacing not more than 600mm x 600mm center to center to be laid in horizontal and vertical formation.</li> <li>(iii) Fix resin bonded glass wool 50mm thick of density of 32 kg/m<sup>3</sup> in the GI frame and cover with tissue paper.</li> <li>(iv) Cover the insulation with 0.8mm perforated aluminum sheet with at least 20% perforation.</li> <li>(v) Cover the joints in aluminum sheet with 25mm x 1mm aluminum beading secured with GI frame by means of steel screws.</li> </ul>	

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		(Please note, the Bidder reviewed the Arch TS 1031 and the specification calls for a high end materials that usually used for public areas).	
48.	GBB NO. 9 & 10, Bill No.2A & 2B	The modified BoQ issued in GBB10 does not reflect the same made in GBB9 previously. Please see the Attachement 05-1 and 05-2 which are highlighted by red cloud mark. Please clarify the latest BoQ.	Please refer to BOQ in Attachment
<b><i>Volume II Works Requirements Section VI Works Requirements – General Specification (GS)</i></b>			
49.	128DEFECTS LIABILITY 138 SUPPLY OF SPARE PARTS, SPECIAL TOOLS, TEST EQUIPMENT AND CONSUMABLE Spare Parts requirement.	Spare Parts requirement. 128.1 General :The Warranty Period for contractual spare parts, . . . . . shall be thirty-six (36) months 138.1 Details of Supply (b)-(ii) :Contract Spares for 2 years (d):recommend spare parts and consumables . . . . . for two (2) years after the expiry of the Defect Notification Period.  Please clarify, including contract and recommend (not including contract) spare parts.	In the specifications, the warranty period for contractual spare parts is 3 years and Defect Notification Period is 2 years. A and B are different contents.
50.	Volume II Part 2 Section VI General Specifications (GS) App 8-48 Appendix 8 – Annex 1 1.6 BIM Uses	The Bidder would like to clarify if what are to include and exclude on the list of BIM Uses that will use/will be applicable on the project.	Please refer to Attachment. (For additional references, please refer to App 8-33 Appendix 8 – Annex 1 1.3.2 Level of Development Matrix)

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
51.	Page 105/ GS118.11.1(d) Special Provisions Method of Measurement	The Bidder's understanding is that GS118.11.1(d) is applied to G118(1), G118(3), G118(4). G118(2) shall be fully paid upon the Engineer's approval of the Contractor's Environmental Management and Monitoring Plan. Please confirm.	Yes, basically confirm. FYI, regarding EGF (118(4)), Five Million Pesos (5,000,000 PhP) per contract package will be set aside as Cash Fund. This will be required per contract package from each contractor, according to "Revised EIS" (Environmental Performance Report and Management Plan Volume 1 Main Report, September 27, 2019). The Environmental Guarantee Fund (EGF) shall be established and used for the following risk-management purposes while MMSP construction starts and is ongoing. This Five Million Pesos (5,000,000 PhP) needs to be stand by for quick action. Please propose in your financial bid accordingly. In addition, please arrange this amount of cash, even if the payment from DOTr can not be done before the starting of MMSP construction.
52.	116.4.4 Costs of Employer's and/or Engineer's Attendance at FAT FAT attendance allowance	Employer's attendance for Factory acceptance Test. It is 4 persons. Please advice, rate of " pocket (per-diem) allowance per day for a person	Yes, 4 people is correct. Per-diem to be provided by Contractor
53.	Maintenance requirement	Maintenance requirement No requirement for maintenance for this contract except Elevator and escalator system. Please clarify.	It is described in GS137 TRAINING AND TRANSFER OF KNOWLEDGE AND SKILLS
54.	02_CP103_PS_S(VI)_(WR)_1(GS)_23 Mar2021 116.4.1 Requirement for FAT (a) Electrical/Mechanical (xiv) FHU (Fire Hydrant System)	Please confirm our understanding that Requirement for FAT for FHU (Fire Hydrant System) is referring to External FHU located at Station Plaza only and does not include Wet Pipe Sprinkler (1202) & Standpipes and Hose Assemblies (1240) inside Anonas and Katipunan Stations and Tunnels described in	FHU (Fire Hydrant System) constitutes the system including the inside of the station. It does not refer only to the outside.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		MEP technical specification.	
<b><i>Volume II Works Requirements Section VI Works Requirements – Technical Specification (TS)</i></b>			
55.	Vol. II , Sec.VI Technical Specification Changes in Design contract documents	<p>As per MEP TS General Requirement 101.1.1 Code and Regulation states "(b) Should any change in the Drawings or Specifications be required to comply with governmental regulations, the Contractor shall notify the Engineer prior to Execution of the Works. The Work shall be carried out according to the requirements of such regulations/code in accordance with the instruction of the Engineer and at no additional cost to the Employer."</p> <p>Please verify our understanding that the Contractor shall not include in it's Tender any cost that will cover changes/variations during the construction stage that could come up because the design (Contract drawings and documents as issued by the Client) to a certain extent is found to be not complying to government regulation or not complying due to the changes in relevant government regulation.</p>	<p>In case any Drawings, Specifications and any other documents prepared by the Employer is modified or changed by the Employer or the Engineer after signing the Contract due to reasons not attributable to the Contractor, any impacts by such modification or changes will be settled in accordance with Clause 13 and Sub-Clause 20.1. Please see Annex B.</p>
56.	Volume II Part 2 Technical Specification (TS) 4: Underground Structures Section 2003.3 Method of Measurement for Excavation and Backfilling at Entrance	The Bidder would like to request the Employer to elaborate the method of measurement for excavation and backfilling at entrance and ventilation shafts/ ducts. It is mentioned in TS 2003.3.1 2) (b) that "the quantity shall be measured geometrically in cubic meter of the work". It is the Bidder's understanding that the	Please refer to Attachment of GBB 10.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	and Ventilation Shafts/ Ducts	volume of excavation will be measured from the existing ground level to the bottom of Lean Concrete and the vertical plane shall be the perimeter of the base of the structure. Following the Bidder's understanding, the quantity in the BOQ is much higher than our calculation. To enable the Bidder to submit a competitive proposal, we would like to request the Employer to confirm our understanding of the Method of Measurement. If Bidder's interpretation is correct, please provide the correct quantity in the BOQ. Otherwise, please explain the calculation method.	
57.	Page 20/ 2001.4.1 5) Demolition, Site Clearance, Hoardings and Reinstatement - Method of Measurement Clearing and Grubbing (b) The quantity shall be measured in square meter according to the areas from which all surface objects and all trees, stumps, roots and other protruding obstructions (except those designated to leave as they are) have been cleared and/or grubbed, or mowed (as required) and at which the objects designated to leave as they are preserved from injury and defacement.	Please clarify that tree cutting works in the Site will be performed by other contractor prior to the Commencement Date.	.Yes. tree cutting works in the Site will be performed by other contractor prior to the Commencement Date
58.	Vol. II , Sec.VI General Specification,	We wish to obtain clarification on the MEP	(Refer to GS 119.3.2 Working Drawing -- Contractor

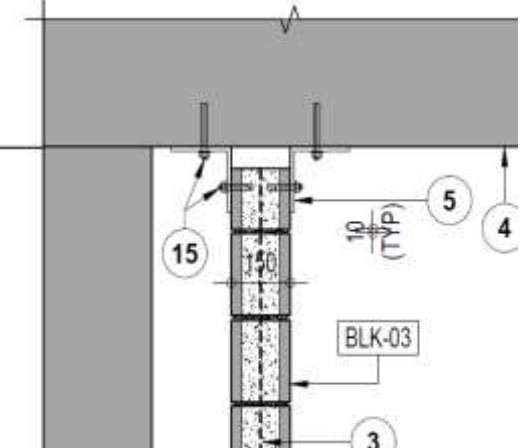
<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	Technical Specification MEP Design Scope	design scope. Appendix 1 (Scope of Works) of the General Specifications, section 2.2.(3) (E&M Works), item (a) defines the scope as the 'design and manufacture, installation and commissioning of the E&M station and tunnel works'. However, we understand the project is essentially a 'construction-only' contract, and that any design scope is limited to where specifically defined in the more detailed technical specifications. We note also that in the same Appendix 1, for the Underground Stations and Tunnel structures, no reference is made to 'design'. Referring to Volume II, PART 2 of the Works Requirements, Section VI Technical Specifications (TS) 3: Mechanical, Electrical and Plumbing, the General Requirements make no clear reference to any detailed Employers Requirements or Design Criteria from which the Contractor would otherwise need to carry out any design, and for items such as the Tunnel Ventilation System and Smoke Control System, it also refers to them as already having been designed (by the Employer's consultants).	shall follow GS115) GS Appendix 1 Scope of Work "design and manufacture, installation and commissioning of the E&M station and tunnel works'. .." to be amended as "Supply, Installation, commission of E&M Station and Tunnel.." Please see Annex B The Working drawing to be provided by Contractor as specified in TS, Section 6 Work Requirement Article 3
59.	Vol. II , Sec.VI General Specification, Technical Specification MEP Design Scope	Furthermore, when we refer to the more detailed Technical Specifications for each MEP work item, the scope of any 'Contractor's Design appears quite limited, typically to what may be generally considered as specialist 'shop-drawing level' detailed design and the detailing of equipment, anchoring, etc. Thus, we request the Employer to clarify the intent of the wording in	(Refer to GS 119.3.2 Working Drawing -- Contractor shall follow GS115) GS Appendix 1 Scope of Work "design and manufacture, installation and commissioning of the E&M station and tunnel works'. .." to be amended as "Supply, Installation commissioning of E&M Station and Tunnel.." Please see Annex B The Working drawing to be provided by Contractor as

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		the Appendix 1 Scope of Work document for MEP (E&M) works. We believe the use of word 'design' in the context of Appendix 1 (MEP Scope of Work) is intended to be limited 'to the extent specified (as in the requirements of the Technical Specifications)', and not for the Contractor to undertake and take responsibility for the MEP design, as the wording in Appendix 1 by itself might otherwise imply. Clearly, if the latter, this could have a major impact on the Contractor's tender price and proposed schedule, so we respectfully request that the Employer's response and clarification to this question be made sufficiently clear, with no ambiguity, so as to avoid any potential misunderstanding.	specified in TS, Section 6 Work Requirement Article 3
60.	TS Page No. 237 GL-05 12mm thk. toughened glass with custom designed security film	Glass Partition at Paid and Unpaid is GL-05 12mm thk. toughened glass. Please confirm if the design of glass thickness and glass configuration is adequate.  Further, please confirm the requirement for the custom design security film.	The glass GL-05 is 16mm thick of Fully Tempered Glass. Updated TS and drawing has been provided in July Submission. The custom design security film is required. <i>GL-05 16 mm thick full-tempered glass with custom-designed security film at 3.20m height for partition at concourse level.</i>
61.	Page No. 777 to 778 Spare parts Appendix 4 - Specifications for Architectural Spare Materials  Stock 1 - CP103 Architectural Spare Materials Tabulation	The Estimated Qty for Granite Tiles in Table Stock 1 - CP103 Architectural Spare Materials Tabulation does not match the quantities indicated in BOQ.  Please clarify.	The costs of each spare materials are calculated based on the quantity shown in the tabulation, and then combined all together for total amount of the costs as Lump Sum.

<b>Metro Manila Subway Project Phase 1</b> <b>PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
62.	<p>TS 1027.2.3 Movement joint</p> <p>2)\Movement Joints a) External render shall incorporate flexible external joints with sealant and compressible joint-filler and bond-breaker. b) Stainless steel render beads shall be provided to both sides of movement joint. c) Primary movement joints with internal plaster. d) 50 mm gasket seal on extruded aluminum assembly.</p>	<p>Please provide us details for Movement Joints such as interval spacing, depth, width etc.</p>	<p>TS shall be updated as following description.</p> <p>2) Movement Joints a) Fabricated from zinc or zinc-coated galvanized steel: one-piece-type, 500mm folded pair of unperforated screeds in M-shaped configuration: with perforated flanges and removal protective tape on plaster face joints with sealant and compressible joint-filler and bond breaker.</p> <p>b) Install control joints in specific locations as required to delineate plasterwork into area (panels) of the following maximum sizes: (i) Vertical Surface 13.4 sq.m (ii) Horizontal and other Nonvertical Surfaces: 9.3 sq.m</p> <p>c) At distances between control joints of not greater than 5.5 m on center. d)As required to delineate plasterwork into areas (panels) with length-to-width ratios of not greater than 2.1</p>
63.	<p>TS page 473 Insulation TS 1046.2.2</p> <p>Fire Requirements i) Ensure that insulation used within the building is non-combustible.</p>	<p>We understand that insulation is required to fill in the gap between concrete slab and block works. If yes, please provide us type of insulation and density to be used.</p>	<p>For fire stop material, refer to Section 1046.2.3.6.b</p>



**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
64.	<p>TS Page No. 51 Clause C01.6.5.d(i) Spares/ Architectural Spare Materials Management Plan Basis of Payment</p> <p>"The quantity measured as prescribed in below shall be paid for at the contract unit price (BOQ) for architectural spare materials, which price and payment shall be full compensation for the works under this section including furnishing and installation of all materials, labor, equipment, tools and incidentals necessary to complete the work</p>	<p>Please confirm if the rates for contract spares and consumable spares Should include the installation and equipment rate.</p>	<p>Material Rates only, equipment and installation are both excluded in the rates.</p>

**Metro Manila Subway Project Phase 1  
PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	prescribed in this section in all respects, duly complying with the Contract documents including the Drawings."		
65.	Steel Doors and Frames (Anonas and Katipunan) 1006.2.1.d Product Selection (Acoustic Performance)	<p>According to TS 1006.2.1.d.ii Door leaf size and dimension shall be as shown on the Drawings, fabricated from 2.0 mm thick steel sheet filled with sound absorbing and damping elements.</p> <p>Per drawing schedule, the door material of the following sound proof doors are 1.2mm thick only.</p> <ol style="list-style-type: none"> <li>1. Electrical Room (Door Type T2A, T2F,T5, and T5A)</li> <li>2. Mechanical Room (Door Type T9 and T5)</li> <li>3. Operation Room (Door Type T5)</li> </ol> <p>Please confirm which metal thickness shall govern.</p>	Drawing thickness to govern
66.	TS 1804.2.2 Item 4 (Page 560) EWL-01 Metal Louvers - Noise Regeneration	<p>Noise regeneration is part of the performance requirement of the louver. Therefore, EWL-01 would need to have an acoustic louver incorporated with the storm proof louver. However the detail shown in STN-AR-A-AN-9240 does not reflect this requirement.</p> <p>Please advise</p>	STN-AR-A-AN-9240 shows louver for where noise is not generated. Noise barrier is indicated STN-AR-A-AN-9241 for the noise regeneration concern.
67.	TS Architecture 381	Requirements for Anti-Graffiti Coatings are specified in the Technical Specifications item 1032 and considered to be included in the scope	1. The range of the coating shall be on external wall, roll-up shutter and glass window of at-grade entrance including ancillary buildings where facing to public

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	Protective Coatings (Anti-Graffiti)	of works based on GBB8 No.85. Please provide its Pay Item in the BOQ and its construction range.	space / accessible from side walk. The application in height will be from ground level to top of parapet of 1story high. Drawing shall be updated to indicate above extent. 2.Pay-item to be allocated accordingly. 3.Ts shall be updated for such materials ; Stone, Glass and painted steel.
68.	Vol. II , Sec.VI Technical Specification Independent 3rd Party Commissioning	In relation to Item No. 74&75 of GBB No.8,  As per TS_MEP , we note the following work items have requirement for an Independent 3rd Party for Commissioning works.  I. Station Building /Mechanical - Commissioning 1. TS 1201 - Water pumping systems 2. TS 1225 - Testing and Commissioning 3. TS 1236 - Packaged Type Sewer Treatment Plant 4. TS 1237 Water Supply and Pipe Works  II. Pedestrian / Electrical - Commissioning and Field Inspection 1. TS 2322 (Pedestrian Bridge) - Electrical Works  III. Station Building /Electrial None required per TS  IV. Pedestrian/Mechanical	1. For Item No. II, per TS 2322, field inspection is confirmed and all tests required under this Part #23 are to be carried out and performed by testing firms.  2. For Item Nos. III and IV, the required 3rd party and/or testing agency are, BMS and LV power cables.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		<p>None required per TS</p> <p>Please confirm that we shall also provide for III &amp; IV independent 3rd Party for Commissioning works.</p> <p>Also confirm we need Field inspection for II .</p>	
69.	4: Underground Structures Page 177 / TS 2100.6.14 Water tightness of Tunnel	<p>Under a strict construction management to be performed at the Site, it can be anticipated that the standard for the water tightness of tunnel provided in TS2100.6.14 will be satisfied. However, should such moisture characteristics as provided therein be observed at the segments and/or joint in tunnel, technical measures such as water conveyance and others will be discussed and agreed among the Parties concerned. Please clarify such approach will be agreeable by the Employer.</p>	Proposed such approach will be agreeable.
70.	Vol. II , Sec.VI Technical Specification Changes in Design contract documents	<p>As per General Requirement 101.1.1 Code and Regulation</p> <p>"(b) Should any change in the Drawings or Specifications be required to comply with governmental regulations, the Contractor shall notify the Engineer prior to Execution of the Works.</p> <p>The Work shall be carried out according to the requirements of such regulations/code in accordance with the instruction of the Engineer and at no additional cost to the Employer."</p> <p>Is it correct to understand that the drawings and</p>	Please refer to Annex B of GBB 12

<b>Metro Manila Subway Project Phase 1</b> <b>PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		specifications in the bid documents comply with the current government regulations and that the cost of responding to future regulatory changes need not be included in the amount?	
71.	4: Underground Structures Page 33 / TS 2004.5.1 Integrity Test for Diaphragm Wall	TS2004.5.1 specifies the integrity test for completed Diaphragm Wall shall be carried out in accordance with approved method set out in ASTM D4428 and D5882 respectively. We consider Cross Sonic Logging Test (CSL) to be more appropriate for D-Wall than transient vibration testing (Low Strain Integrity Test) specified in the above TS. Therefore we understand transient vibration testing will not be required. Please clarify the said consideration is acceptable for you.	Crosshole Sonic logging Test is acceptable. Contractor shall submit method of testing for Engineer's approval prior to proceed for test
72.	GBB10- Item 76 WPS-01 Bituminous Waterproofing	Reference to bituminous waterproofing (WPS-01) thickness = 8 mm in GBB 10-Item 76.  Please advise the product name which was used as the basis of design in order for the bidder to price based on the same product or an equivalent.	Bidder to consider the product which satisfies TS section 1016 requirement for pricing of WPS-01 (asphlat membrane waterproofing system).
73.	TS 1006.2.1.2a Fluorourethane Baked Finish for Steel Doors	Steel Door Specification mentions fluorourethane Baked Finish ( Section 1006.2.1 Part 2a)  Section 1006 .2.4 Part 2 mentions that the Baked Enamel to be in accordance to AAMA 2603  However, the performance requirement for	Refer to AAMA 2605

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		<p>AAMA 2603 is for Polyester Coating. Fluorourethane baked finish refers to performance requirement based on AAMA 2605 which is more durable and gives better colour and gloss retention.</p> <p>Please advise which AAMA standard should the bidder follow.</p>	
74.	TS 1006.2.3 Steel Door Paint Requirement	<p>Please advise the performance requirement needed based on ANSI/SDI A250.3 (1006.2.3) such as:</p> <p>i) Salt Spray Test ii) Humidity Test iii) Weathering Test (Color &amp; Gloss Retention)</p>	All the Performance requirements as mentioned in ANSI/SDI A250.3 for factory applied paint finish are to be met including the specified test indicated in the query.
75.	Vol. II , Sec.VI Technical Specification Tunnel Ventilation System	<p>As per GBB No. 8 Item No.82 , Contractor need refer to TS General Requirement 101.1.1 , with the contents described are as follows.</p> <p>General Requirements: The works in this section shall include the furnishing and installation of all items, including every article, device or accessory (whether or not specifically called for by item) reasonably necessary to facilitate each system's functionality as indicated by the design (Contract Drawings and Documents) and the equipment specified.</p> <p>Design Principle Functionality: Simplicity: Reliability:</p>	Yes. The bidder's understanding is correct.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		<p>Efficiency: Maintainability: Standard Product: Server Hardware and Workstation: System Software Architecture:</p> <p>Therefore, is it correct to understand that if changes become necessary, the contract terms should be agreed upon with the engineer before construction?</p>	
76.	Tunnel drainage	Please provide dedicated specification for drainage system in tunnel works.	Specifications are common for Tunnel and Stations. However, Tunnel drainage system embedded in civil structure refer to civil drawing.
77.	<p>(WR)_4(TS_MEP)_1Mar2021 Part 12 Mech 1213.1.5 Warranty (a) (b) and © a) The AC units shall be covered by the manufacturer's limited warranty for a period of one (1) year parts and six (6) year compressor to the owner from date of installation. (b) Then the units shall be covered by an extended manufacturer's limited warranty for a period of ten (10) years to the owner from date of installation. (c) In addition, the compressor shall have a manufacturer's limited warranty for a period of five (5) years to the owner from date of installation.</p>	<p>Kindly clarify what is the difference between warranty (a) and warranty (b)(c). Does this mean that the A/C warranty is 11 years?</p>	All items are after the installation date and are not added together.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
78.	(WR)_4(TS_MEP)_1Mar2021 Part 12 Mech TS 1223 1223 Acoustic Treatment and Vibration Control 1223.2.1 Technical Requirements 11. Acoustic Lining / Treatment of Equipment Room	Reference to MEP technical specification, the walls and ceiling of AHU and Chiller rooms shall be provided with acoustic treatment as specified. However, architectural finishing schedule drawings in Anonas and Katipunan stations (STR-AR-A-AN-0501 & STN-AR-A-KP-0501 ) are inconsistent. (ceiling treatment not specified and wall treatment missing in some rooms) Please confirm if architectural finishing for ceiling and wall treatment for AHU and indoor chiller rooms are required or contractor is to provide treatment as specified in architectural finishing schedule.	In current layout, there are no specific rooms designated for AHU and Chiller only in which acoustic treatment is required.
79.	CP103_MEP Drawings_Katipunan Station Water supply drawing	Please provide Water supply system drawing no. STN-MEP-PLD-KP-3112 as listed on Drawing list STN-MEP-PLD-KP-0101.	Missing drawing are provided. Refer to Attachment
80.	(WR)_4(TS_MEP)_1Mar2021 Part 12 General Requirements and Appendix 1 Supply of Spare Parts, Special Tools, Test Equipment and Consumable Indicative Contract Spares - Appendix 1 - Specifications for MEPF Spare Materials	Reference to spare quantities provided in MEP technical specification, please confirm that quantities specified in Appendix 1 are contractual spare quantity for 1 typical station only. (station, plaza, pedestrian bridge and tunnels of 1 station).	Yes, it is for 1 station
81.	(WR)_4(TS_MEP)_1Mar2021 Part 11 1114 UPS UPS BACK UP TIME	IN THE TECHNICAL SPECIFICATIONS AND DRAWING, THE BACK UP TIME OF THE UPS IS NOT INDICATED. HOW MUCH BACK UP TIME US REQUIRED FOR THE UPS? (5 MINS., 15 MINS, 30 MINS) PLEASE SPECIFY.	Backup time for UPS is 120 min mentioned in TS.
82.	Vol. II , Sec.VI Technical Specification; Part 1226.1.2	Please confirm that the SES ( Subway Environmental Simulation) shall only be	SES is already conducted as per current Tunnel and Station geomterty



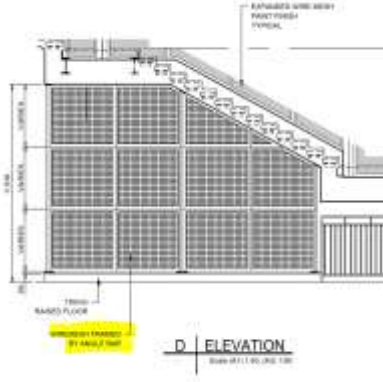
<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	SES Tunnel Ventilation System	undertaken and provided during post contract period.	
83.	Page 6 / TS 101.4 ; Basis of Payment : Pay Item 101(2) Removal of Existing Pedestrian Bridge	We understand that the existing pedestrian bridge removal at Katipunan and Anonas Station is not our scope of works, as the pay items 101(2), "Removal of Existing Bridges, Culverts, and other Drainage Structures" is not specified in Bill No.7 of BOQ. Please confirm.	Removal of structure and obstructions and Restoration at Pedestrian Bridges are not covered by the Provisional Sum.
84.	Page No. (iv & vi) TABLE OF CONTENTS	Please clarify the following pay items as this are indicated as "NOT USED" in the technical specification but it has a quantity on the BOQ: a. 1013 Corrugated Metal Roofing b. 1014 Prepainted Metal Sheets c. 1015 Clay Roof Tile d. 1036 Polycarbonate Sheets/Panels	Those quantity in BOQ are not Arch scope of works. Confirm Ped scope. a. Pay item 1013 under Station Plaza and Pedestrian Bridge b. Pay item 1014 under Pedestrian Bridge c. Pay item 1014 under Station Plaza d. Pay item 1036 under Pedestrian Bridge
85.	Roll-Up Shutter Doors Codes and Standards	Will the products be approved and be able to used for this project if they comply with "Fire Prevention Standards for Underground Stations (Japan)" OR other standard listed in specification, i.e. ASTM, NFPA, UL and CPSC. Please clarify.	Basically, Fire rated roll-up shutter shall comply with requirement in "Fire Prevention Standards for Underground Stations (Japan)". In principal, Products shall comply with the listed Codes and Standards indicated in the TS section. The Codes and Standards are dependent on the material type to be tested. As local reference standard, ASTM is also required to comply, or otherwise UL to be alternative standard under the Engineer's approval. CPSC is not required for this product
86.	Smoke Curtain 1810.1.5 Quality Assurance	Will the products be approved and be able to used for this project if they comply with "Manufacturer's specifications of experienced reputable manufacturer in Japan" (No UL label)?	"Manufacturer's specifications of experienced reputable manufacturer in Japan" is not described in TS Section 1810.1.5. also 1801.1 General. Recommended manufacturer by the Contractor shall comply with the TS Section 1810.5.1. Manufacturer's


<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		Please clarify.	qualifications, and products comply with ASTM as local reference standard, or otherwise UL to be alternative standard, for approval.
87.	Vol. II , Sec.VI Technical Specification Warranty	<p>In relation to Item No. 27 of GBB No.5, we like to verify as follows:</p> <p>As per TS_MEP the following have warranty periods stated as:</p> <ol style="list-style-type: none"> <li>01. Ligthing sys. ( TS 1118)- 5 years</li> <li>02.Lighting control sys. (TS 1119) - 3 years</li> <li>03. Access and Control sys. (TS 1124) - 1 year</li> <li>04. Water pumping sys. (TS 1201) - 1 year</li> <li>05. VRF AC (TS 1213) - 1 year limited warranty &amp; parts warranty ; 6 years for compressor.</li> <li>06. Fan Coil Unit (TS 1214) - 1 year</li> <li>07. AHU (TS 1215) - 1 year</li> <li>08. Fans (TS 1216) - 1 year</li> <li>09. Chilled water pumps(TS 1217)- 1 year</li> <li>10. Condeser water pumps (TS1218) - 1 year</li> <li>11. Cooling tower (TS1219)- 5 years</li> <li>12. Aircooled Chiller (TS1220)- 1 year; compressor 5 years</li> <li>13. Water cooled Chillers (TS 1221) - 1 year, Compressor 5 years, refrigerant - 5 years</li> <li>14. Fan TVS (TS 1227) - 1 year</li> <li>15. Mot. Smoke/Fire Damper TVS (TS1228) - 1 year</li> <li>16. Sound Attenuator TVS (TS1229) -1 year</li> <li>17. Sensors TVS (TS1230) - 1 year</li> <li>18. Ductwork TVS (TS1231) -1 year</li> </ol>	Warranty clauses are defined in other Contractual Conditions of the Tender and individual equipment warranty are also get covered by those conditions.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		<p>19. VSD TVS (TS 1232)- 1 year 20. Water Storage/Sewage Tanks (TS 1238)- 1 year 21. Plumbing fixture/Sanitary Wares (Archi TS 1002) - 10 years. The others TS items under MEP,not enumerated above, have not specified particular warranty periods.</p> <p>Also as per GS, the DNP shall be twenty four (24) months from the date of the Taking Over certificate.</p> <p>Please confirm if we should follow the warranty periods per TS as we have listed above or we follow the warranty period per GS of twenty four (24) months.</p>	
88.	Vol. II , Sec.VI Technical Specification MEP Tunnel Fire Protection	<p>Please confirm if Work Requirement TS 1240- Standpipe and Hose Assemblies shall be the reference TS for Tunnel fire protection works?</p> <p>If otherwise, please provide a dedicated TS for tunnel fire protection.</p>	TS for Wet Stand Pipe in tunnel section is the same as 1240.
89.	Vol. II , Sec.VI Technical Specification MEP SES report	<p>In connection to reply to Item 76 of GBB No. 8, it was mentioned that " The SES report should be read alongside the following design reports: 1. VAC, TVS, SCADA and CFD ( 3D Simulation)" . Please confirm that these reports (VAC,TVS, SCADA, CFD) will be provided by the Client's Design team to the Contractor to use as</p>	>SES has already been conducted, Tunnel Ventilation System mode table is included in BMS drawing..

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
90.	Vol. II , Sec.VI Technical Specification Changes in Design contract documents	<p>reference for preparing the SES report?</p> <p>As per MEP TS General Requirement 101.1.1 Code and Regulation "The works in this section shall include the furnishing and installation of all items, including every article, device or accessory (whether or not specifically called for by item) reasonably necessary to facilitate each system's functionality as indicated by the design (Contract Drawings and Documents) and the equipment specified. "</p> <p>In related to the above provision that suggest build only scope, please verify our understanding that Contractor's MEP Design related works are only the following items :</p> <p>1. For Tunnel lighting ; create a scenario based on the lux level per TS ( implying to design work ) in reference to Item No.81 of GBB No. 8 2. For Tunnel Ventilation System ; presentation of reports and studies related to the Design ( Contract drawings and documents as issued by Client) and as prescribed in Item No.76 of GBB No. 8</p>	TS 101.1.1 states not Design & Build but the construction only. Regarding GBB description, JDT cannot say anything.
91.	Section VI (TS) 3. Mechanical, Electrical and Plumbing, 420, 432, 447, 457, 467 1214.1.9, 1215.1.10, 1216.1.8, 1217.1.6, 1218.1.6	Kindly define the condition of "specified period" for Special Warranty for: TS1214: Fan Coil Unit TS1215: Air Handling Unit TS1216: FAN TS1217: Chilled Water Pump TS1218: Condenser Water Pump	Specified period is referring to the warranty period extension agreement between manufacturer and owner after the warranty period.

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	(b) Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of fan units that fails in materials or workmanship within specified period.		
<p><i>Volume III Part2: Works Requirements</i> <b>Works Requirements – Employer’s Drawings (DRW)</b></p>			
92.	< PEDESTRIAN BRIDGE 1 (ANONAS) > Wire Mesh Framed angle bar	At Bill of Quantities, Wire Mesh Framed angle bar is indicated but no where to be found in drawing plan, please provide construction range.	<p>Refer to SPL-PB1-A-AN-2013. Refer to revised BOQ in Attachment.</p>  <p>Updated to "EXPANDED SECURITY MESH, GAUGE 16, PRE-PAINTED FINISH (WHITE COLOR) TYPICAL"</p>

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
			
93.	< PEDESTRIAN BRIDGE 1 (KATIPUNAN) > Wire Mesh Framed angle bar	At Bill of Quantities, Wire Mesh Framed angle bar is indicated but no where to be found in drawing plan, please provide construction range.	Refer to SPL-PB1-A-KP-2032 . Refer to the revised BOQ in Attachment..
94.	< PEDESTRIAN BRIDGE 2 (KATIPUNAN) > Wire Mesh Framed angle bar	At Bill of Quantities, Wire Mesh Framed angle bar is indicated but no where to be found in drawing plan, please provide construction range.	Refer to SPL-PB2-A-KP-2013 Refer to the revised BOQ in Attachment.
95.	STN-AR-A-AN-9180 SS Pedestrian Grating	Please provide complete detail and thickness of Bolt Down Stainless Steel Bar Grate Traffic, Pedestrian Rated.	Please refer to drawing 9330 typical detail of SS grating indicating the complete detail and 5mm thickness non-perforated stainless steel grating milled finish to comply slip resistance requirements.
96.	Drawing STN-AR-A-AN-9412, 9413 STN-AR-A-KP-9412, 9413 Crane Hoist Assembly	According to drawings, there are 5 double crane rails and 1 single crane rail in each station. Please confirm.  Please provide also the maximum capacity of moving hoist beam with hook assembly. At Grid 18-19 and grid 30-31, it was clearly noted that maximum capacity is 25ton, but single rail at	Yes, 5 double crane rails (TTS - 2nos, Generator - 1 no, Access hatch -2 nos) and single rail (SSS - 1 no) are provided in each station. Moving hoist beam is only at TSS & Generator room and its maximum capacity is provided in dwg 9412, 9413 (TSS at grid 30-32 is 25 ton capacity Generator room at grid 18-19 is 25 ton capacity) Lifting hook details are provided in Detail A, 9412.

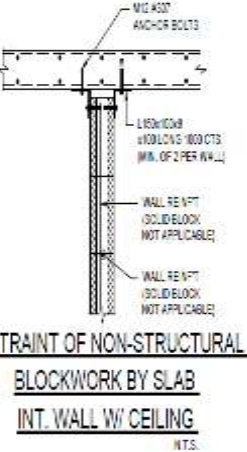
<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		grid 25-26 and double rail at grid 4 and grid 35-36, no details were shown.	
97.	Volume 3 Part 2 Section VI Works Requirements- Employer's Drawings (DRW): Combined Utility Drawings UT-AN-0002 Drawing No. UT-AN-0002 Existing Underground Utility Map – Anonas Station	A. Luna Street at Anonas Station: There are any residences on the south side of Anonas Station. In addition, there are also existing water pipes, Telecom Cables, and other utility lines embanked in A. Luna Street.  The Bidder would like to confirm if the structures (residences) and obstructions can be removed or relocated by the Employer by the time needed by the Contractor?	Regarding residences, DOTr is currently in negotiation with stakeholders and L / A is proceeding. Regarding utilities, Negotiations with all agents have been completed. Construction for relocation is under preparation. Please make the construction plan based on the bidding documents.
98.	Volume 4 Part 3 Section VIII Particular Conditions (PC) Part A: Contract Data, PC-2 to PC-3,  General Conditions (GC) 8.1 Commencement of Works, Page 31,  General Bid Bulletin (GBB) No. 10, Item No. 5 Page 2 of 34  In the Particular Conditions (PC): Sub-clause 2.1 Time for Access to the Site: Within 2 weeks after Commencement Date,	1. Can the Bidder consider that on the given target date of Commencement (1st December 2022), all Land Acquisition of the Employer for the Right of Way (ROW) is completed for CP103 Contractor use.  2. In case of delay land handover to the Contractor from the date of Commencement of Works, the Bidder understands that the Contractor will also adjust the work activities completion dates in reference to the Original Schedule required by the Employer.	1. The Bidder is reminded that the assumed Commencement Date stated in Item No.5 in GBB No. 10 was published for the purpose of helping the Bidder base the Bid Programme on it. Land acquisition and any other works related to provisions of Site Access have been and will be continued toward satisfaction of requirements of Bidding Documents and the Contract. 2. In case it is found that any adjustment is necessary with respect to Key Dates and/or Time for Completion during the contract negotiation and/or during contract implementation for any reason, such adjustment will be made to the extent reasonable and necessary through mutual

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	<p>Sub-clause 8.1 (c) Commencement of Works: Within two (2) weeks after Commencement Date,</p> <p>In the General Conditions (GC) 8.1: (c) except if otherwise specified in the Contract Data, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works;</p> <p>Response in GBB No. 10, Item no. 5: "For Bid purposes, the target Commencement Date to be 1st December 2022"</p>		<p>consultation in accordance with the provisions of the Contract including Sub-Clauses 2.1 and 8.4.</p>
99.	<p>STN-AR-A-AN-7007 STN-AR-A-KP-7008 STN-AR-A-AN-9300 STN-AR-A-KP-9300 GL-05 Thickness and Specification Glass Door</p>	<p>There appears to be a conflict in the glass thickness and its specification in the drawings.</p> <p>In the Door Schedule shown in drawing STN-AR-A-AN-7007, Door type T7 mentions "Glass: Tempered Fire Glass Panel t=16mm Fire Glass Panel with Security Film.</p> <p>However, in drawing STN-AR-A-AN-9300, GL-05 for the glass doors is mentioned as 12mm thk. toughened glass with design film.</p>	<p>Door Schedule drawings has been updated in July submissdion as 16mm the same as GL-05. .</p>



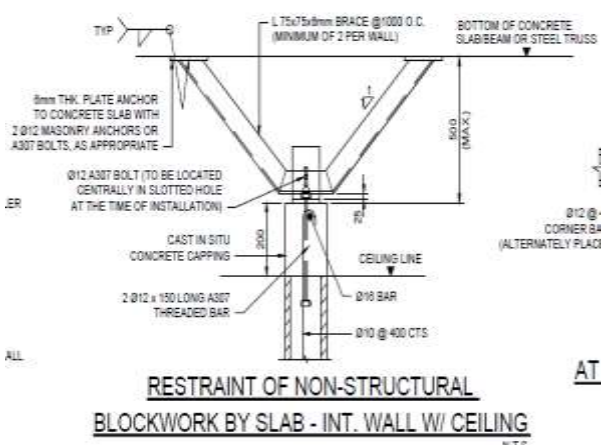
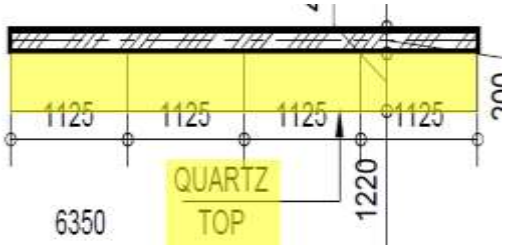
<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		Please advise which thickness and specification shall be followed for both stations.	
100.	STN-AR-A-KP-9130 and ST-AR-A-AN-9130 Access Panel Fire Rated Glass Access panel 1100 x 500mm	For the Fire Rated Glass Access panel 1100 x 500mm at Platform Level as shown in drawing STN-AR-A-KP-9130 and ST-AR-A-AN-9130 please confirm if we can assume it to be GL -04. Please confirm also the opening and closing mechanism requirement.	It is GL-04. Opening mechanism is through hinges with closer, and pull handle. Final selection of mechanism shall be as per selected manufacturer's specification.
101.	STN-AR-A-AN-9001 STN-AR-A-KP-9001 STA-S-AN-3010 STA-S-KP-3010 Top attachment angle	1. There is a conflict in the angle size for the termination of the blockwork.  a) Architectural drawing - L 150 x 150 x 8 b) Structural drawing - L 150 x 100 x 8 x 100mm long  Please advise which size to follow.  2. Based on the structure drawing, the bidder understands that these angles are not continuous. Therefore, please confirm that the spacing of angle bar is 1000mm O.C.	1. Architecture drawings shall be corrected to indicate dimensions as per structure drawings. 2. As indicated in the detail, it is confirmed that the interval of angle bar is at every 1000mm O.C. 3. For general partition wall purposes, the intumescent painting is required on the angle bar.

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

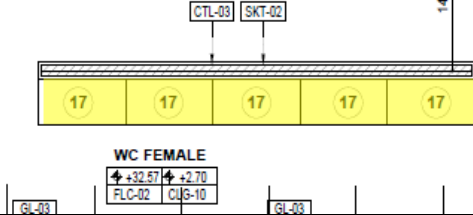
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		<p style="text-align: center;">N.T.S.</p>  <p style="text-align: center;">3. The solid blocks 150mm and 175mm need to be 2hr and 3hr fire rated respectively. Do we need to apply intumescent paint for angle bars on fire rating blockwalls?</p>	
102.	STA-S-AN-3010 STA-S-KP-3010 Restraint of Non-Structural Blockworks	Please advise the room/areas require this type of detail.	The detail is used in janitor room wall at platform level which has a low height gypsum wall

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
----------	--------------------------	---------	----------

			
103.	<p>STN-AR-A-KP-1203 STN-AR-A-KP-5100 STN-AR-A-KP-5104</p> <p>STN-AR-A-AN-5105 STN-AR-A-AN-5108</p> <p>Powder Space Counter</p>	<p>Kindly Confirm the Material and detail for the Powder Space Counter.</p> <p>As per the Drawing No. STN-AR-A-KP-1203, It is Quartz Top, but when it is viewed on the Enlarge Public Toilet Drawing STN-AR-A-KP-5100 Section 4/5104, No Quartz Counter is Shown.</p> 	<p>The Enlarge Public Toilet Drawing and elevation shall be updated to show powder space counter.</p> <p>Material of the conter is Quartz Counter and detail of the counter shall be updated.</p>

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		<p>Also Drawing No. STN-AR-A-AN-5105 shows a Powder Space but no Powder Space shown on Elevation STN-AR-A-AN-5108. Kindly confirm the material and detail of the powder space.</p> 	
104.	STN-AR-A-KP-9640 STN-AR-A-AN-9640 Kitchen Equipment.	<p>Please confirm the Specification (Model, and Brand) for the following Kitchen Equipment</p> <p>Kindy confirm also the Pay Item..</p> <p>(10) Induction Cook - Please confirm the Specification and the method of Installation, as shown in Elevation it is on top of the countertop. Is it Embedded or movable? Please clarify.</p> <p>Sink and Drainer</p> <p>Overn / Grill</p> <p>and Cooker Hood</p>	<p>Refer to following specifications, Sink and Drainer; Stainless Steel 304, dimension shall be indicated in updated drawings.</p> <p>Overn / Grill; to be cancelled, induction cokker; embedded type, Max power @ 2800 Watts, with Auto-off Feature with two (2) kooking heaters</p> <p>Cooker Hood; powder Coat finish stainless steel 304, Air Extract @210 m<sup>3</sup>/h maximum air capacity</p> <p>Detail drawings shall be updated for further clarifications.</p>
105.	STN-AR-A-KP-7007 STN-AR-A-AN-7007 Lock type -BMS	<p>Please confirm the meaning of Lock-type-BMS. TS Specification 1818 does not mentioned about BMS. Please clarify the type of lock, and the</p>	<p>Type of lock is electlic magnetic lock or equivalent type controlled by BMS.</p> <p>TS shall be updated.</p>

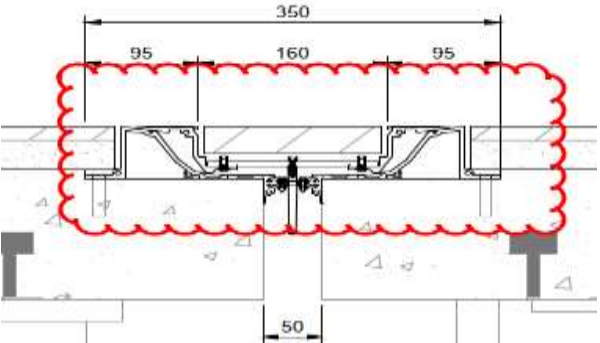
<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	Door No. KP-B1F/D-18 and Door No. AN-B1F/D-36	Acronym BMS Stands for.	BMS is Building Maintenance System under the scope of MEP.
106.	STN-AR-AN-9420 STN-AR-AN-7102 Wall Access panel Detail	1. Typical details of Wall Access Panel shows a Jack-Up Machine, Please provide details of jack-up machine such as size, capacity and quantity.  2. For Wall Access Panel Type T1, there is a Steel Mesh shown in the drawing. The bidder opines that the steel mesh might be a source for foul smell and insect infiltration.	1. Jackup machine is already tagged as 24 in drawing STN-AR-A-KP-9420. 2. The steel mesh indicated in the detail shall be cancelled out. Typical detail shall be updated.
107.	GBB No. 08 Item 70 CTL - 04	The response in GBB No. 8, Item 70 states "the concrete back-filling behind stone cladding to be revised to metal sub-frame stone cladding".  However, there is also a concrete backfilling (ie. 70mm additional concrete) for CTL-04 (1m x 3m x 6mm thk Ceramic Tile).  Therefore, will there also be a metal sub-frame to fix these tiles?  Please advise.	The concrete back-filling behind ceramic tile CTL-04 to be revised to metal sub-frame. Drawing number 9002 to be revised to indicate steel subframe.
108.	8_CP103_P2_S(VI)_ (WR)_6(ED)_3Mar2021_01_Civil_GN/ Dwg. No.: GN-CE-CD-0014 ~ 0018 FACILITIES GENERAL DRAWING EVACUATION PASSAGE BY CIVIL and TROUGH DECK BY CIVIL	There is no detail in the Specifications / Drawings about the isolation seal which should be provided to prevent from direct contact of two dissimilar steel materials at the tunnel internal steel structures (Evacuation passage, TBM Trough deck and etc.), even though they are permanent structures. Please clarify what kind of material, size, dimension and formation	The contractor is required to install an isolation seal to prevent the two materials from coming into direct contact with each other. Before supply materials, CP103 contractor and CP106 contractor will be coordinated to the materials.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	Isolation Seal to prevent the two dissimilar metal materials from coming into direct contact with each other not to occur galvanic corrosion This is Re-QUERIES to your RESPONSE of Item No.122 in General Bid Bulletin No.8 Annex "A" (11 Oct. 2021).	for the said isolation seal with drawing.	
109.	<p>Volume 3 Part 2 Section VI Works Requirements-Employer's Drawings (DRW): Combined Drawings Anonas Station Anonas Station: STN-AR-A-AN-7006, 7007, 7008, 7009 and 7010, Anonas Station Door and Ironmongery Schedule, And</p> <p>Volume 3 Part 2 Section VI Works Requirements-Employer's Drawings (DRW): Combined Drawings Katipunan Station Katipunan Station: STN-AR-A-KP-7007, 7008, 7009 and 7010 Katipunan Station Door and Ironmongery Schedule</p>	<p>1.The Bidder would like to ask if the Employer has a preferred "Brand" of Door Locks for Steel Doors and Frame, in case that the Employer wants a Single Brand for all Door Locks of Contract Packages under the MMSP Phase 1 in consideration for the Master Keying Requirement.</p> <p>2.The Bidder would like to clarify the Employer's preferred/required Stainless Steel (SUS) finish for the hardware and accessories of steel doors and frames such as Kick Plates, Push Plates, Lever Handles with plates, Cylindrical Lock with sensor, and other accessories.</p> <p>3.The Bidder would like to ask the Lock function Codes of each Cylindrical Locks of each Door Type for Anonas Station  and also Lock Function Code of each door type for Katipunan Station</p>	<p>1. Manufacturer qualification criteria is specified in TS 1004 without no specific 'brand' preference. Awarded contractor will submit the material data and manufacturer information for Engineer /DOTr approval.</p> <p>2. No. Refer TS section 1004.2.4 materials, where finishes of all door hardware are identified.</p> <p>3. Refer to TS 1004.3.7. Table 1004-1 (hardware sets), which identifies each hardware set with lock types</p> <p>4. Door closer type should be In accordance with BHMA A156.4; rack-and-pinion hydraulic type as outlined in TS section 1004.2.4 (4) surface closers.</p>

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		4. With regards to the Door Closer requirement of the Steel Doors, the Bidder would like to clarify if there is a requirement for a Regular Arm, Parallel Arm and a Hold-Open Type of Door Closer. If Yes, the Bidder would like to ask for the Door Closer Type of each door to be used for Anonas and Katipunan Station.	
110.	DNP 2years and Equipment warranty stated in Technical specification GBB 5 itemno.24 All provisions stipulated in the Technical Specifications shall prevail, provide us manufacturer complying the statement.	Some equipment warranty was stated more than 2 years. (for example Lighting Fixture 5 years. Sanitary fixture 10 years ) in the technical specification. Please clarify about payment of retention money. Is it following General Condition based on "Contract amount" ? -first half of retention money will be made payment when the taking over certificate has been issued and second half will be made payment when issue bank guaranty.	It is apparent that Defects Notification Periods referred to in Sub-Clause 14.9 [Payment of Retention Money] shall be two (2) years calculated from the date on which the Works or Section is completed as certified under Sub-Clause 10.1 [Taking Over of the Works and Sections] in accordance with Sub-Clause 1.1.3.7 and Contract Data 1.1.3.7 irrespective of any warranties of some items of equipment.
111.	20 / Ped_AN /SPL-PB1-A-AN-2014, 21 / Ped_KP /SPL-PB1-A-KP-2014 Tempered Safety Glass	At SPL-PB1-A-AN-2014 ANONAS STATION PEDESTRIAN BRIDGE 1 ELEVATOR TYPICAL DETAILS and SPL-PB1-A-KP-2014 KATIPUNAN AVENUE STATION PEDESTRIAN BRIDGE 2 ELEVATOR TYPICAL DETAILS, may we assume that Tempered Safety Glass to be included at MECHANICAL WORKS - ELEVATORS under Elevator finishes?	Tempered Safety Glass is included in Elevator Finishes.

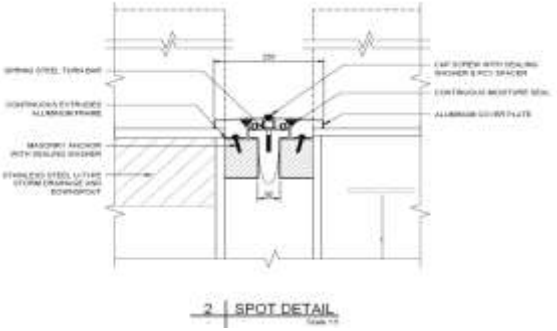
**Metro Manila Subway Project Phase 1  
PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
----------	--------------------------	---------	----------



		<p>If not please state which pay item at the Bill of Quantities should we include this Tempered Safety Glass Wall for elevator.</p>					
112.	14 / Arch_PB / SPL-PB1-A-KP-2033 Expansion Joint Cover	<p>At SPL-PB1-A-KP-2033 KATIPUNAN AVENUE STATION PEDESTRIAN BRIDGE 1 SEISMIC GAP TYPICAL DETAILS &lt;1-SPOT DETAIL&gt; Please add the item below as Expansion Joint Cover(Aluminum extruded W=350mm Ready-made product) to the Bill of quantities.</p> 	<p>Already included in Pay item no 2301 (2) Concrete Accessories..</p> <table border="1" data-bbox="1402 560 1939 619"> <tr> <td>2301</td> <td>2301 (2)</td> <td>Concrete Accessories</td> <td>ls</td> </tr> </table>	2301	2301 (2)	Concrete Accessories	ls
2301	2301 (2)	Concrete Accessories	ls				
113.	14 / Arch_PB / SPL-PB1-A-KP-2033 Seismic Gap Cover	<p>At SPL-PB1-A-KP-2033 KATIPUNAN AVENUE STATION PEDESTRIAN BRIDGE 1 SEISMIC GAP TYPICAL DETAILS &lt;1-SPOT DETAIL&gt; Please add the item below as Seismic Gap Cover (Aluminum Cover Plate W=250mm Cap Screw with sealing washer and PCV Space) to the Bill of quantities.</p>	<p>Already included in Pay item no 2301 (2) Concrete Accessories.</p> <table border="1" data-bbox="1402 1206 1939 1265"> <tr> <td>2301</td> <td>2301 (2)</td> <td>Concrete Accessories</td> <td>ls</td> </tr> </table>	2301	2301 (2)	Concrete Accessories	ls
2301	2301 (2)	Concrete Accessories	ls				



**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
114.	SPL-PB1-A-AN-2003, 2010, 2011 SPL-PB1-A-KP-2003-2010, 2027-2029 BOQ-276, 281, 287 Yellow Tactiles at Pedestrian Bridges	<p>Please provide the Specifications for Yellow Directional Tactile and Yellow Hazard Warning Tactiles at Pedestrian Bridges as shown in Drwg Nos. SPL-PB1-A-AN-2003, 2010, 2011 and SPL-PB1-A-KP-2003-2010, 2027-2029.</p> <p>Kindly clarify if it is on top of the Granite or in-between of Granites.</p>	Tactiles are in between granite tiles. Specifications for Tactile was provided under Section 1018 Ceramic Tiles
115.	SPL-PB1-A-LP-2004 Braille Tactile Blocks	<p>Please clarify if Braille Tactile Block is the 300x300mm Yellow Hazard Warning Tactile as they are both pointing to same location. If not, please provide the Specifications, Drawing Detail and Pay Item for Braille Tactile Block</p>	<p>We confirm that Braille Tactile was replaced by Yellow Hazard Warning Tactile. Yellow Hazard Warning Tactile will govern.</p> <p>Considered as the same item in the AN PB1 BOQ.</p>

**Metro Manila Subway Project Phase 1**  
**PACKAGE CP103 (Anonas and Katipunan)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
116.	STN-AR-A-KP-9251, 9252, 9191 STN-AR-A-AN-9251, 9252, 9191 BAL-05, BAL-03A BAL-03B	Baluster-03A, 03B, and 05 Indicates 12mm thk tempered glass railing with design film. Please confirm the Design Film Specification.  	Specifications for BAL-03a, BAL-03B, and BAL-05 updated as per latest submission in Sept 2021. Identified railings are provided with custom-designed security film which shall have safety functions for recognition of the glass and anti-scattering in breakage.
117.	SPL-PB1-A-KP-2033 Seismic Gap Detail	In Katipunan Pedestrian Bridge 1 Expansion Joint/Seismic Gap shown in drawing but not found in BOQ. But in Specification it is mentioned (NOT USED).  Please advise if this is not part of scope or if need to include please provide pay item in BOQ.	Seismic Gap is included under pay item 2301 (2).
118.	SPL-A-PS--KP-2011 SPL-A-PS-KP-2012 SPL-A-PS-KP-4011 Steel Louvers at Station Plaza	Please provide the Drawing Details and Specification for Steel Louvers at Station Plaza shown at Drawing Nos. SPL-A-PS-KP-2011, 2012 & 4011	Details and Specification for Steel Louvers are shown in the revised SPL-A-PS-KP-2012.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
119.	SPL-PB1-A-AN-2014 SPL-PB1-A-KP-2014 10MM thick U-type stainless steel Inside Gutter	Please confirm whether 10mm thick stainless steel gutter is correct.	10mm thick stainless steel gutter is correct
120.	SPL-PB2-A-KP-2010(PLANS) SPL-PB1-A-AN-2009(PLANS) Flashing	Please clarify the thickness of flashing to be used.	Stainless steel flashing gauge 26 (minimum 0.48mm THK).
121.	8_CP103_P2_S(VI)_ (WR)_6(ED)_30S ep2020_20_Ped _AN & KP Rainspout piping Pump up drain pipe	Please provide piping material specification for Rainspout piping for Pedestrian Bridge. And reconfirm, pump up drain pipr for ELV pit was stated SUS in General Notes. Can we use PVC pipe ?	Retain SUS Material as per general notes
122.	8_CP103_P2_S(VI)_ (WR)_6(ED)_30S ep2020_20_Ped _AN & KP Storm water system DWGs	We could not read the characters. -STORM DRAINAGE SCHEMATIC DIAGRAM -EQUIPMENT SCHEDULE, GENERAL NOTES, ABBREVIATIONS & LEGEND Please re-issue.	Revised drawings attached: SPL-PB1-P-AN, SPL-PB1-P-KP and SPL-PB2-P-KP.
123.	STN-AR-A-AN-9062 STN-AR-A-KP-9062  STN-AR-A-AN-9700 STN-AR-A-AN-9671 STN-AR-A-KP-9700 STN-AR-A-KP-9671 STN-AR-A-KP-9131  SPL-A-PS-KP-2011, 2012 & 4011	The Bidder understands that the AMCA certification is required for the EWL -01 Louvers. However, is this ACMA certification also required for all the other type of louvers (as below)? a) Louvers at Toilet b) Louvers at EV Shafts c) Louvers at plaza d) Louvers at Pedestrian Bridges	Yes, the AMCA certification is required for other louvers.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	SPL-PB1-A-AN-2014 & 6003 SPL-PB1-A-KP-2014 & 6003 AMCA Requirements at Louvers		
124.	STN-AR-A-AN-9003 STN-AR-A-KP-9003 Granite Fixing Detail	Please clarify the 30mm / 10mm gap between concrete wall and 60x60x5mm Backing Frame. How would the backing frame be fixed to the wall?	30mm/10mm gap is provide for tolerance of concrete wall. The backing frame of 60mmx60mmx5mm shall be fixed by steel angle with mechanical post-installed anchor on to concrete wall / lintel behind.
125.	STN-AR-A-AN-9003 STN-AR-A-KP-9003 Granite Fixing Detail	What is the size of Bolt connecting the 60x30x3.2thk Galvanized and 4.5mm thk Steel Plate Glavanized	M-5 SS bolts are used to connect steel plates. M-5 SS bolts have nominal diameter of 5mm. Final verification on size shall be made based on approved subcontractor specification.
126.	STN-AR-A-AN-9003 STN-AR-A-KP-9003 Granite Fixing Detail	Item 3-Bolt is Stainless Steel while Item 2- Steel Plate is Galvanized. Contact between these dissimilar metals (i.e.the stainless and GI materials) wil eventually corrode and compromise the stone fixing system. Please advise.	Bolts are more likely to damage easily. Hence SS bolts are used to prevent corrosion on bolt. In addition, entire amount/ weight of the plate is dominant than bolt, thus it is thought that corrode not be occurred at this internal cladding fixation. Final specification shall be made based on approved subcontractor's verification.
127.	STN-AR-A-AN-9003 STN-AR-A-KP-9003 Granite Fixing Detail	What is the size of Plate highlighted below.	4.5 mm thick galvanized steel plate
128.	STN-AR-A-AN-7022 STN-AR-A-KP-7021 100x120mm SUS FRAME AND 100x120mm MULLION AND 50x120mm SUS MULLION	Please confirm the thickness of the 100x120mm SUS FRAME AND 100x120mm SUS MULLION AND 50X120mm SUS MULLION for all the Stainless Steel Windows (GL-06)	Thickness of SUS frame and SUS mullion is 5mm.
129.	STN-AR-A-KP/AN-0200 Fluoro-resin based paint	Please provide us Pay Item for fluoro-resin based paint.	Fluoro-resin based paint shall be discarded from KP/AN-0200.
130.	GBB 8 Item 63	In reference to the reply of the Client on GBB 8	In reference to the reply of the Client on GBB 8 Item

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	STN-AR-A-AN-7013 STN-AR-A-KP-7013 STN-AR-A-AN-0201, STN-AR-A-KP-0201 Glass Door Specification	Item 63, we would like to know the Glass Type and its thickness to be used for the Glass Doors.  As per the Specification indicated in the Summary of Specifications STN-AR-A-AN-0201 and STN-AR-A-KP-0201 as "16mm tempered glass panels with 4-mil security film".  But the 16mm thk. is not available in the market. 15mm thk. is available and the next size is 19mm thk. Shall we use 15mm thk tempered glass panels with 4-mil security film? Please verify.	63, we would like to know the Glass Type and its thickness to be used for the Glass Doors.  As per the Specification indicated in the Summary of Specifications STN-AR-A-AN-0201 and STN-AR-A-KP-0201 as "16mm tempered glass panels with 4-mil security film".  But the 16mm thk. is not available in the market. 15mm thk. is available and the next size is 19mm thk. Shall we use 15mm thk tempered glass panels with 4-mil security film? Please verify.
131.	Drawing Nos SPL-A-BS-AN-2021; SPL-A-BS-KP-2012; SPL-A-PS-KP-2011; STA-S-KP-3120; STA-S-AN-3115 Pump Room and Bus Shelter at Station Plaza and Bio-septic Tank	The Bidder would like to request to please clarify which BOQ pay item these structures shall be charged.	Pump Room and Bus Shelter is priced by elements Earthworks - [ 103 (1), 802 (1), 105 (1), 202] Structural - [400(1), 400(6), 400(7), 402(2), 402(1), 405 (1) ] Architectural - [ 403 (1), 1015-A, 1013 (2c), 1016, 1032(a), Handrails, Doors, Plain Concrete Finish with Hardener ]
132.	Volume III Part 2 Work Requirements Employer's Drawing (DRW) SPL-C-GN-KP-1004 Katipunan Station Plaza Drawing No: SPL-C-GN-KP-1004	Based on the perspective drawing of Katipunan Station, it seems that all roads for the site development of the station are provided with Asphalt Pavement. Kindly confirm if the bidders understanding is correct. If yes, may we request for a roadwork detailed drawing with the provision of Asphalt Pavement and may we ask on what pay item does the Asphalt Pavement is included in the BOQ.	BOQ only considered PCC Pavement as per detail; PCC pavement will govern as per design drawings
133.	drawings and specifications relating	We imagine it might be referring to the	SES has already been conducted, Tunnel Ventilation

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	to the TVS works	drawings and specifications relating to the TVS works, but we do not understand how simply submitting a list of such documents would be useful. Or is the intent for the Contractor to submit a list showing that he has reviewed all the related TVS design documents (drawings, specifications) contained in the contract, and that related works/equipment he plans to install for the TVS complies with the requirements contained within such listed documents? In any case, the current wording in the Specification is not clear, and we request to be provided with a more clear description of what the Contractor is required to submit.	System mode table is included in BMS drawing
134.	GBB 8 Item 63  STN-AR-A-AN-7013 STN-AR-A-KP-7013 STN-AR-A-AN-0201, STN-AR-A-KP-0201 Glass Door Specification	In reference to the reply of the Client on GBB 8 Item 63, we would like to know the Glass Type and its thickness to be used for the Glass Doors.  As per the Specification indicated in the Summary of Specifications STN-AR-A-AN-0201 and STN-AR-A-KP-0201 as "16mm tempered glass panels with 4-mil security film".  But the 16mm thk. is not available in the market. 15mm thk. is available and the next size is 19mm thk. Shall we use 15mm thk tempered glass panels with 4-mil security film? Please verify.	The 16mm thick tempered glass panels are available in the local market of Philippines.
135.	STN-AR-A-AN-9060 Aluminum Composite Panel	1mm thick Aluminum Composite Panel is not available in the market. In lieu we are	The 1mm thick Aluminum Pane is available in the local market of Philippine.

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
		proposing a 1mm thick Aluminum panel. Please advise if this is acceptable for tender purpose	
136.	GBB NO. 10 Item 54 GL-06. Double Glazed Window	<p>Further to the Client reply to our clarification thru GBB NO. 10 Item 54 to follow double glazed windows as per Specification 1817.1.1 Item 2a for GL-06. We would like to know the Glass configuration of the double Glazed window and its thickness.</p> <p>TS 1012.2.1. f) indicates "GL-06 - tempered glass panels, 18mm thick with custom-designed security film".</p> <p>Therefore, please advise the thickness for the 1st glass panel, the air-space and the 2nd glass panel.</p>	In the latest document, the description of GL-06- "18mm thick Tempered glass panels" is consistent through drawings and technical specification.
<b><i>Volume IV Part3: Conditions of Contract and Contract Forms</i></b>			
137.	Page-PC-6/ ATTACHMENT 1 TO PART A : CONTRACT DATA OF PARTICULAR CONDITIONS OF CONTRACTS SCHEDULE OF KEY DATES -KD2	Please clarify when CP103 Contractor can start the removal work of temporary power, ventilation and water supply, temporary drainage system, temporary fire fighting systems to be provided for CP106 System Contractor; and if CP103 Contractor can utilize the permanent tracks for the said removal.	<p>Please refer to Volume II General Specifications Appendix 11 Section 1.1. The bidder shall discuss with CP106 Contractor and determine when permanent services of both Civil Contractor and CP106 would be available during the implementation phase. Bidder to recognize that Permanent facilities are not only dependent on CP106 scope of work.</p> <p>The use of any asset installed by CP106 shall be directly coordinated and approved between CP106 and Civil contractors. The engineer and the employer have no authority for this arrangement. find the clause.</p>
138.	GBB No. 10, Page 12 of 34,	In GBB 10, Item no. 37, the Employer informed that Professional Indemnity Insurance (PII) of	The Bidder is required to prepare Bids complying with the requirements in Bidding Documents. It should be

<b>Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	<p>Volume II Part 2 General Specifications (GS) 120.2 Insurances, Page 129, 120.2 Insurances,</p> <p>Volume IV Part 3 Section VIII – Particular Conditions (PC) Attachment 4 – to Part A Schedule of Insurances Page PC-12 Attachment 4 – to Part A Schedule of Insurances</p> <p>Employer’s Response in GBB No. 10, Item No. 37: “Bidder’s understanding is not correct. The Bidder / Contractor is required to carry out design of major Temporary Works including temporary works for excavation of station box etc. as set forth in General Specification and/or Technical Specification. As such, the indicated Professional Indemnity Insurance is required.”</p>	<p>USD 25 million minimum limit is required and it shall be maintained until 2 years after the expiry of Defects Notification Period (DNP).</p> <p>Furthermore, the Employer also confirmed Bidder’s understanding that the design scope of the Bidder/ Contractor is for temporary works only. On that note, PII of USD 25 million minimum limit and extended until 2 years after DNP is not necessary. Temporary works will be demolished soon as the permanent works are completed.</p> <p>Please confirm that PII is not required. Or if required for temporary works, it should not extend until DNP and the minimum limit required shall be reduced. The Employer is kindly requested to inform the revised requirement for Professional Indemnity Insurance, if any.</p>	<p>noted again that the Contractor will be required to carry out design of major Temporary Works as set forth in General Specification and/or Technical Specification.</p>



Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)		
ITEM NO.	REFERENCE CLAUSE/SECTION	ADDENDUM No. 12
<i>Volume IA Bill of Quantities (BOQ)</i>		
1.	BOQ Bill of No1, 2bc, 3, 4A,4B, 5A, 5B, 8	Refer to the latest versions of BOQ Bill of No1, 2bc, 3, 4A,4B, 5A, 5B, 8.
<i>Volume II. Part 2: Works Requirements Section VI: Works Requirements, General Specifications</i>		
2.	Volume II Part 2 WORKS REQUIREMENTS Section VI Works Requirements General Specifications APPENDIX 1 SCOPE OF WORKS item 2.2 Building Works 3) Electrical and Mechanical (E&M) Works a) Electrical, Mechanical, and Plumbing System Page Appendix 1-5	<b>Please delete the phrase of "Design and Manufacture" and substitute with the word "Supply" in Item 2.2 Building Works 3) Electrical and Mechanical (E&amp;M) Works a) Electrical, Mechanical, and Plumbing System</b>  (b) 3) Electrical and Mechanical (E&M) Works a) Electrical, Mechanical, and Plumbing System <del>Design and manufacture</del> , <b>Supply</b> , installation, testing and commissioning of the E&M station and E&M tunnel shall comprise, but not be limited to, the following:
<i>Volume II. Part 2: Works Requirements Section VI: Works Requirements, Technical Specifications 3: Mechanical, Electrical and Plumbing</i>		
3.	Volume II. Part 2: Works Requirements/Technical Specifications 3: Mechanical, Electrical and Plumbing Page 14, I01.1.1 Design Principle, Code and Regulation	<b>Please delete the phrase of "and at no additional cost to the Employer." in Item (b) of I01.1.1 Design Principle, Code and Regulation as follows:</b>  (b) Should any change in the Drawings or Specifications be required to comply with governmental regulations, the Contractor shall notify the Engineer prior to Execution of the Work. The Work shall be carried out according to the requirements of such regulations/code in accordance with the instruction of the Engineer <del>and at no additional cost to the Employer.</del>

**Annex "B"**

Refer to the revised TS and drawings in Attachment.


<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
4.	Coverpage Date	PDF – Page 1  March 2021	PDF – Page 1 (Updated Date)  September 2021
5.	List of Abbreviations	PDF -Page 23  <Non-existing Item>	PDF – Page 23 (Additional Abbreviations)  SUS Stainless Steel
6.	Section 1004.2.4.17	PDF – Page 193  staineless	PDF – Page 195 (Spelling Correction)  stainless
7.	Section 1012.2.1.1.b	PDF – Page 253  safely	PDF – Page 257 (Revised description)  safety
8.	Section 1012.2.1.1.d	PDF – Page 253  2-6 mm thick 2-hour fire-resistive laminated glass	PDF – Page 257 (Revised Specifications)  25 mm (12mm + 1.52 PVB + 12mm) 2-hour fire-resistive full-tempered laminated glass
9.	Section 1012.2.1.1.e	PDF - Page 253  12 mm thick toughened	PDF - Page 257 (Revised Description)  16 mm thick full-tempered
10.	Section 1012.2.4.2.a	PDF – Page 256  Toughened	PDF -Page 260 (Revised Description)  Tempered
11.	Section 1012.2.4.2.b.ii	PDF – Page 257  toughened	PDF – Page 261 (Revised Description)  full-tempered

Volume II Part 2: Works Requirements >> Section VI Works Requirements >> Technical Specifications															
No.	Reference	Original	Corrected, Supplemented or Modified												
12.	Section 1012.2.4.d.i	PDF – Page 258  Fire-Rated Fire-protection-rated	PDF – Page 262 (Revised Description)  Fire-Resistive Fire-resistive												
13.	Section 1012.2.7.3	PDF – Page 261  Toughened/Tempered	PDF – Page 265 (Revised Description)  Tempered												
14.	Section 1012.4.2	PDF - Page 267 <table border="1" data-bbox="477 608 1111 711"> <tr> <td>1012 (9) a1</td> <td>Fire Rated Laminated Glass – 2-6mm with Polyvinyl Butyral Film Interlayer and Security Film</td> <td>Square Meter</td> </tr> <tr> <td>1012 (10) a1</td> <td>Toughened Glass – 12 mm with Frosted Film</td> <td>Square Meter</td> </tr> </table>	1012 (9) a1	Fire Rated Laminated Glass – 2-6mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter	1012 (10) a1	Toughened Glass – 12 mm with Frosted Film	Square Meter	PDF - Page 271 (Revised Description) <table border="1" data-bbox="1234 608 1868 711"> <tr> <td>1012 (9) a1</td> <td>Fire-Resistive Laminated Glass – 25mm with Polyvinyl Butyral Film Interlayer and Security Film</td> <td>Square Meter</td> </tr> <tr> <td>1012 (10) a1</td> <td>Tempered Glass – 16 mm with Security Film</td> <td>Square Meter</td> </tr> </table>	1012 (9) a1	Fire-Resistive Laminated Glass – 25mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter	1012 (10) a1	Tempered Glass – 16 mm with Security Film	Square Meter
1012 (9) a1	Fire Rated Laminated Glass – 2-6mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter													
1012 (10) a1	Toughened Glass – 12 mm with Frosted Film	Square Meter													
1012 (9) a1	Fire-Resistive Laminated Glass – 25mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter													
1012 (10) a1	Tempered Glass – 16 mm with Security Film	Square Meter													
15.	Section 1031.1.5 Codes and Standards	PDF – Page 389  <Non-Existing Item>	PDF – Page 393 (Additional Codes and Standards)  <b>ASTM International (ASTM)</b> ASTM E136 Standard Test Method for Behavior Of Materials In A Vertical Tube Furnace At 750oC ASTM C167-2009 Standard Test Method for Thickness and Density of Blanket or Batt Thermal Insulations. ASTM C518-2010 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus. ASTM C665-2011 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing. ASTM C795-2013 Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel. ASTM E413-2010 Classification for Rating Sound Insulation. ASTM E1050-2012 Standard Test Method for Impedance and Absorption of Acoustical Materials Using a Tube, Two Microphones and a Digital Frequency Analysis System.  <b>Underwriters' Laboratories (UL)</b>												

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			UL 181-2005 Factory-Made Air Ducts and Connectors.
16.	Section 1031.2.1.1	PDF – Page 390  <Non-Existing Item>	PDF – Page 395 (Additional Description)  c) Size, profile and configurations: As indicated in the Drawings. d) Methods of connection and fixings: As indicated in the Drawings.
17.	Section 1031.2.2.1 Performance Requirements	PDF – Page 390  1) Glass Wool Acoustic Panel a) Acoustical Performance: Derived from tests conducted according to ASTM C 423 on a Type D5 mounting by a National Voluntary Accreditation Program (NVLAP) accredited laboratory (i) 27 mm Thickness Noise Reduction Coefficient (NRC) - 0.75. (ii) 52.4 mm Thickness NRC - 0.95 b) Fire Performance: Each component shall have been tested according to ASTM E 84 and has a Class I/A rating.	PDF – Page 395 (Revised Description)  1) Glasswool Blanket with Glass Fiber Cloth a) Lightweight glasswool blanket with glass fiber cloth for firestopping to ASTM C 612 that provides fire resistance to ASTM E 136 and sound control to ASTM C 423. (i) Fire performance: (1) Non-combustibility: To ASTM E 136. (2) Surface Burning Characteristics: To ASTM E 84. Flame spread: 0. Smoke developed: 0 (3) Smoulder resistance: 0.01 percent to ASTM C 612. (ii) Acoustical Performance: (1) Airborne sound transmission loss: To ASTM E90. (2) Rating sound insulation: To ASTM E413. (3) Sound absorption coefficient: To ASTM C423 for 50mm thickness, NRC 1.00. (iii) Moisture Absorption: 95% relative humidity to ASTM C 1104/C 1104M. (iv) Impedance and absorption of acoustic materials: To ASTM E1050. (v) Air erosion velocity: 5.08 m/s maximum to UL 181. (vi) Thermal resistance: To ASTM C518. (vii) Corrosive resistance: To ASTM C665, Corrosive to steel - Pass. (viii) Stainless steel stress corrosion: To ASTM C795. (ix) Density: To ASTM C 303, 32 kg/m3

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			(x) Recycled content: 16 % minimum.
18.	Section 1031.2.2.2.b.ii	PDF – Page 391  to be	PDF – Page 396 (Revised description)  shall be
19.	Section 1031.2.3.1 Materials	PDF – Page 392  <Non-existing Item>	PDF – Page 397 (Additional Specifications)  a) Non-combustible, lightweight, glasswool blanket with glass fiber cloth for firestopping to ASTM C 612, that provides fire resistance to ASTM E136 and a sound control to ASTM C423. b) Standards Factory Applied Facing: Interwoven fiberglass material cover.
20.	Section 1031.2.3.1.c Materials	PDF – Page 392  Panels shall be constructed of high-density glass wool with resin hardened edges.	PDF – Page 394 (Revised description)  Panels shall be constructed of high-density glass wool with glass fiber cloth cover and stainless steel edge trim.
21.	Section 1031.2.3.1.d Materials	PDF – Page 392  Mounting: Standard wall mountings include spot adhesive with optional impaling clips, Z-clip, hook & loop, and magnetic fasteners. Wall bar to wall bar is recommended for ceiling mounting.	PDF – Page 397 (Revised Specifications)  Mounting: Standard wall mountings include spot adhesive with impaling pins and washers.
22.	Section 1031.2.3.2.b.i	PDF – Page 392  on drawings	PDF – Page 397 (Revised description)  on the Drawings
23.	Section 1031.2.3.2.b.ii	PDF – Page 392  specifications	PDF – Page 397 (Revised description)  Specifications
24.	Section 1051.1.1.2	PDF – Page 532  <Non-existing Item>	PDF – Page 537 (Additional Description)  b) TS Section 1012 Glass and Glazing

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
25.	Section 1051.2.1.5.a 1051.2.1.6.a 1051.2.1.8.a 1051.2.1.9.a	PDF – Page 535 - 536  <Non-existing Item>	PDF – Page 540 - 542 (Additional Description)  (refer to TS Section 1012.2.1)
26.	Section 1051.2.1.5.c 1051.2.1.6.c 1051.2.1.7.c 1051.2.1.9.c 1051.2.1.10.c 1051.2.1.11.c 1051.2.1.12.c	PDF – Page 535 - 537  handrail	PDF – Page 540 - 543 (Revised Description)  top rail
27.	Section 1051.2.1.5.b	PDF - Page 535  12 mm thick tempered glass panels with custom-design security film	PDF - Page 540 (Revised Description)  21.52 mm thick full-tempered glass panel with 1.52 (PVB) polyvinyl butyral film interlayer and
28.	Section 1051.2.1.6.b	PDF – Page 536  12 mm thick tempered glass panel with custom-designed security film.	PDF – Page 541 (Revised Description)  21.52 mm thick full-tempered glass panel with 1.52 (PVB) polyvinyl butyral film interlayer and custom-designed security film.
29.	Section 1051.2.1.8	PDF - Page 536  <Non-existing Item>	PDF - Page 541(Additional Railing Specifications)  BAL-05 Glass Railing  a. Description: Fully tempered laminated glass railing (refer to TS Section 1012.2.1) , including all necessary fastenings, bracketing and accessories required to complete the installation.  b. Material: 12 mm thick full-tempered laminated glass with 1.52 (PVB) polyvinyl butyral film interlayer and custom-designed security film at 1200mm height.

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			c. Fastenings: All fastenings shall be concealed. d. Sealant: Refer to TS Section 1815 Sealants. e. Sizes, profile and configurations: As indicated in the Drawings. f. Methods of connection and fixings; As indicated in the Drawings.
30.	Section 1051.2.1.9	PDF - Page 536 BAL-05	PDF - Page 542 (Revised Description) BAL-05a
31.	Section 1051.2.1.9.b	PDF - Page 536 12 mm thick tempered glass with custom-design security film	PDF - Page 542 (Revised Description) 12 mm thick full-tempered laminated glass with 1.52 (PVB) polyvinyl butyral film interlayer and custom-designed security film.
32.	Section 1051.2.1.12.a	PDF – Page 537 Steel	PDF – Page 542 (Additional Description) Stainless steel
33.	Section 1051.2.1.13	PDF – Page 537 Stainless	PDF – Page 543 (Additional Description) Stainless Steel
34.	Section 1051.4.2	PDF - Page 543 <Non-existing Item>	PDF - Page 548 (New Payitem for BAL-05) 
35.	Section 1813.1 General	PDF – Page 651 CP106	PDF – Page 656 (Additional Description) CP106 Contractor

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
36.	Section 1051.2.1.12	PDF – Page 537  Stainless Steel Handrail	PDF - Page 542 (Revised Description)  Shortcut Prevention Stainless Steel Railing
37.	Section 1804.2.2.2	PDF – Page 576  Polyvinylidene fluoride (PVF2)-coated	PDF - Page 581(Revised Description)  powder-coated
38.	Section 1805.2.1.2.g	PDF – Page 583  SS.316L	PDF - Page 588 (Revised Description)  Type 340
39.	Cover Page	PDF – Page 1  THE	PDF – Page 1  <Omitted>
40.	C01.2.12 Codes, Standards and Regulations	PDF – Page 42  Non-existing item	PDF – Page 43 (Additional Description)  12) As needed for smooth execution and completion of the whole of the Works of this Package, the Contractor shall verify the proposed designs and dimensions shown on both the Drawings for the architectural works and the Drawings for the related underground civil works such as the underground station boxes, station entrances and various shafts, to confirm full compatibility of the proposed Employer's designs and dimensions of the architectural works with those of the related underground civil works. Cause all of the relevant disciplines of the Contractor (e. g. architecture and civil disciplines) to cooperate with the Engineer in his coordination efforts in this regard. Promptly discuss with the Engineer as needed to solve any design/dimension discrepancy, incompatibility, ambiguity or other problems found during the above verification services or encountered on the work sites.  13) As needed for smooth execution and completion of the whole of the Works of this Package, the Contractor shall verify the proposed designs and dimensions shown on both the Drawings for the architectural works and the Drawings for the related ground civil works in the vicinity of the buildings (i. e. station plazas, sidewalks, driveways, etc. within the Works boundary)



<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			<p>such as the pavements, drainage systems and ground levels, to confirm full compatibility of the proposed Employer's designs and dimensions of the architectural works with those of the related ground civil works. Cause all of the relevant disciplines of the Contractor (e. g. architecture and civil disciplines) to cooperate with the Engineer in his coordination efforts in this regard. Promptly discuss with the Engineer as needed to solve any design/dimension discrepancy, incompatibility, ambiguity or other problems found during the above verification services or encountered on the work sites.</p> <p>14) As needed for smooth execution and completion of the whole of the Works of this Package, the Contractor shall verify the proposed Employer's designs and dimensions shown on both the Drawings for the architectural works and the Drawings for the related MEP works such as the elevators, escalators and other MEP equipment, preferably after the Contractor's appointment of manufacturers/suppliers of the respective MEP equipment, to confirm full compatibility of so-selected MEP equipment with the proposed designs and dimensions of the relevant architectural and civil works. Cause all of the relevant disciplines of the Contractor (e. g. architecture, civil and MEP disciplines) to cooperate with the Engineer in his coordination efforts in this regard. Promptly discuss with the Engineer as needed to solve any design/dimension discrepancy, incompatibility or ambiguity or other problems found during the above verification services or encountered on the work sites.</p>
41.	Section 1011.1.2.2.a.ii Summary	PDF – Page 229  Non-existing item	PDF – Page 231 (Additional Product)  (ii) Automatic Fire Curtain
42.	Section 1011.1.6.6 Codes and Standards	PDF – Page 231  Non-existing item	PDF – Page 234 (Additional Description)  6. German Institute for Standardization (DIN) DIN 4102-2-A2 Behavior of Building Materials and Components in Fire - Building Components According
43.	Section 1011.2.1.2.b	PDF – Page 234	PDF – Page 236

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
	Products	to	<Omitted>
44.	Section 1011.2.1.3.b Products	PDF – Page 234  to	PDF – Page 236  <Omitted>
45.	Section 1011.2.2.4 Product Selection	PDF – Page 235  Non-existing item	PDF – Page 237 (Additional Product Selections)  4) Automatic Fire Curtain a) Description: Automatic fire curtain room sealing with rod guiding including an access door and accessories for complete assembly. b) Manufacturer: Shall be proposed by the Contractor and to be consented by the Engineer. c) Fire Curtain Material: Stainless steel-reinforced glass fiber fabric with a fire-retardant Aluminum-filled polyurethane coating fabric from glass filament with stainless steel, non-flammable conforming to DIN 4102-2-A2 for 2 Hour fire protection. Fabric 640 GSM. d) Curtain Jamb Guides: Galvanized steel with exposed finish matching fire curtain. e) Hood Material: Galvanized steel matching fire curtain material and finish. f) Motor: Tubular motor 230V standard/ or failsafe. g) Fire Curtain Finish: Factory-finish. Manufacturer's standard color as approved by the Engineer.
46.	Section 1011.2.3.4 Performance Requirments	PDF – Page 236  Non-existing item	PDF – Page 239 (Additional Product Description)  4) Automatic Fire Curtain Assemblies: Provide emergency pull-back switch on both side of the fire curtain. The control panel should contain a backup battery system. On normal operating conditions, the curtains will be held in the re-traced position via the motors operating at stall voltage. Upon receiving signal from the detector, the control panel will remove the supply voltage and the curtain shall descend under the power of gravity in a controlled manner. The fire curtain should reset automatically when the control panel is reset. Battery must be 24volts.  a) Provide the Engineer with copies of test certificates prior to manufacture.

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			<p>b) Smoke Control: Where indicated and in corridors and smoke barriers, provide doors that are listed and labeled with the letter "S" on the fire-rating label by a qualified testing agency for smoke- and draft-control based on testing according to UBC Standard 7-2 and UL 1784; with maximum air-leakage rate of 0.01524 m<sup>3</sup>/sec per m<sup>2</sup> of door opening at 24.9Pa pressure for both ambient and elevated temperature tests. Install and use in accordance with NFPA 105.</p> <p>c) Assemblies shall achieve the fire rating indicated in the Drawings.</p> <p>d) Assemblies shall be marked with a label or plug to confirm conformance to the NFPA requirements. Gravity fail safe system to be designed to ensure that even with a total power failure the curtain will still close down into a protection mode. A weighted bottom bar shall be provided to ensure correct operation.</p>
47.	Section 1011.2.4 Materials	PDF – Page 238  Non-existing item	<p>PDF – Page 242 (Additional Product Description)</p> <p>3) Automatic Fire Curtain</p> <p>a) Lateral Guide: Two-part guide rail galvanized sheet steel, w x h 83 mm x 54 mm with internal guide rod Ø 14 mm made of stainless steel</p> <p>b) Cover: Two-part, housing made of galvanized sheet steel</p> <p>c) Cloth Shaft: Ø 85 mm galvanized steel sheet with groove to accommodate curtain. Store shaft via rotatable double rollers in the area of the vertical seams of the curtain.</p> <p>d) Side Bearing: Galvanized sheet steel, with sliding holder for shaft, drive and cover.</p> <p>e) Covering: Wire-reinforced glass filament fabric according to DIN 4102-2-A2, silicon coated on both sides, weight approx. 810g/m<sup>2</sup>, assembled in one piece, no sewing on the construction site.</p>
48.	Section 1011.2.5.3 Fabrication	PDF – Page 243  Non-existing item	<p>PDF – Page 246 (Additional Product Description)</p> <p>3) Automatic Fire Curtains</p> <p>a) Door Curtains</p>

Volume II Part 2: Works Requirements >> Section VI Works Requirements >> Technical Specifications			
No.	Reference	Original	Corrected, Supplemented or Modified
			<p>(i) Fabricate automatic fire curtains of stainless steel-reinforced glass fiber, designed to withstand wind loading indicated, in a continuous length for width of opening without splices. Provide fire curtain thickness and mechanical properties as required and as approved by the Engineer for performance, size, and type of door indicated on the Drawings.</p> <p>(ii) Bottom Bar: Equip each automatic fire curtain bottom bar with a replaceable, adjustable, continuous, compressible gasket of flexible vinyl, rubber, or neoprene as a cushion bumper.</p> <p>(iii) Curtain Jamb Guides: Manufacturer's standard angles or channels with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain, and if required a continuous bar for holding windlocks.</p> <p>b) Curtain Accessories</p> <p>(i) Smoke Seals: Equip each automatic fire curtain with smoke seal perimeter gaskets for smoke and draft control as required for listing and labeling by a qualified testing agency.</p> <p>c) Hood: Form sheet metal hood to entirely enclose coiled fire curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting which projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.</p> <p>d) Electrical Operation: Drive by a 24V DC tubular motor installed in the cloth shaft, with limit switch for right and left running for exact adjustment of the drain length, with connection cable approx. 3m.</p>
49.	Section 1011.2.7 Source Quality Control	PDF – Page 244  Non-existing item	<p>PDF – Page 248 (Additional Product Description)</p> <p>3) Automatic Fire Curtain</p> <p>a) Submit industry-recognized independent third party's certification indicating compliance with the specified performance.</p> <p>b) Sealants: Submit written confirmation from the sealant manufacturer to the Engineer for consideration as to the suitability of the sealant for the application intended.</p>

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>						
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>			
			c) Obtain all automatic fire curtains from single source from single manufacturer.			
50.	Section 1011.4.2 Basis of Payment	PDF – Page 248  Non-existing item	PDF – Page 252 (Additional Product Payitem)  <table border="1"> <tr> <td>1011 (f) d</td> <td>Automatic Fire Curtain</td> <td>Square Meter</td> </tr> </table>	1011 (f) d	Automatic Fire Curtain	Square Meter
1011 (f) d	Automatic Fire Curtain	Square Meter				
51.	Section 1031.1.1.1.a	PDF – Page 388  a) Glass Wool Acoustic Panel	PDF – Page 392 (Revised Product Description)  a) Glasswool Blanket with Glass Fiber Cloth			
52.	Section 1031.2.1.1 Product Selection	PDF – Page 390  a) Glass Wool Acoustic Panel	PDF – Page 395(Revised Product Description)  a) Glasswool Blanket with Glass Fiber Cloth			
53.	Section 1031.4.2 Basis of Payment	PDF – Page 396  Glass Wool Acoustic Panel	PDF – Page 401 (Revised Product Payitem)  <table border="1"> <tr> <td>1031 (f) c</td> <td>Glasswool Blanket with Glass Fiber Cloth</td> <td>Square Meter</td> </tr> </table>	1031 (f) c	Glasswool Blanket with Glass Fiber Cloth	Square Meter
1031 (f) c	Glasswool Blanket with Glass Fiber Cloth	Square Meter				
54.	Section 1813.2.2.8 Performance Requirements	PDF – Page 658  8)Wind Pressure: Signage to withstand wind pressure between +300Pa and -300Pa with anti-wind pressure in train track	PDF – Page 663 (Additional Description)  8) Wind Pressure: Signage to withstand wind pressure between +300Pa and -300Pa with anti-wind pressure in train track including signage sub-frame/substrate materials as identified in the Drawings.			
55.	Appendix 3 Station Sign Standards Manual	PDF – Page 771 - 790  Updated image reference based on 27 August 2021 Station Sign Standards Manual	PDF – Page 776 - 795  Updated image reference based on 27 August 2021 Station Sign Standards Manual			
56.	Section 1006.2.1.4.d.ii	PDF - Page 210  2.0 mm	PDF - Page 212 (Revised Description)  1.2 mm			

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
57.	Section 1012.2.3.7 Performance Requirement	PDF - Page 255  <Non-existing Item>	PDF - Page 259 (Additional Description)  7) Custom-Designed Security Film: Film material shall consist of an optically clear polyester film, consisting of co-extruded micro-layers, with a durable acrylic abrasion resistant coating over one surface, and a UV stabilized pressure sensitive adhesive on the other. Film shall have a nominal thickness of 8 mils, total construction with adhesive of 9mils. Film color and design shall be selected from Manufacturer's standard catalogue and shall be approved by the Engineer.
58.	Section 1016.2.1.2.b	PDF - Page 276  8.0mm	PDF - Page 280 (Revised Description)  2.0mm
59.	Section 1016.2.1.3.b	PDF - Page 277  2.0mm	PDF - Page 281 (Revised Description)  5.0mm
60.	Section 1027.2.3.2 Movement joints	PDF - Page 365  a) External render shall incorporate flexible external joints with sealant and compressible joint-filler and bond-breaker. b) Stainless steel render beads shall be provided to both sides of movement joint. c) Primary movement joints with internal plaster. d) 50 mm gasket seal on extruded aluminum assembly.	PDF - Page 369 (Updated Description)  a. Fabricated from zinc or zinc-coated galvanized steel; one-piece-type, 50mm folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face joints with sealant and compressible joint-filler and bond breaker. b. Install control joints in specific locations As required to delineate plasterwork into areas (panels) of the following maximum sizes: 1. Vertical Surfaces: 13.4 sq. m 2. Horizontal and other Nonvertical Surfaces: 9.3 sq. m c. At distances between control joints of not greater than 18 feet (5.5 m) o.c. d. As required to delineate plasterwork into areas (panels) with length-to-width ratios of not greater than 2:1. e. Establish movement joints with double casing beads butted tight. Set both beads over 150mm wide strip of polyethylene sheet for air seal continuity. f. Coordinate joint placement with other related work.

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>						
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>			
61.	Section 1032.2.1.1.e	PDF - Page 404  <Non-existing Item>	PDF - Page 410 (Additional Product Selection)  e) Anti-Graffiti Coating (i) Description: Heavy duty anti-graffiti solvent coating applied to locations indicated on the Drawings suitable to surfaces including concrete, brick, metal, glass, and tile (ii) Manufacturer: As approved by the Engineer. (iii) Substrate: As indicated on the Drawings. (iv) Color: Clear, Matte Finish (v) Preparation: In accordance with the paint manufacturer's recommendations. (vi) Application: Roller, brush or spray			
62.	Section 1032.4.2	PDF - Page 415  <Non-existing Pay Item>	PDF - Page 421 (New Pay Item)  <table border="1" data-bbox="1227 804 1861 847"> <tr> <td>1032 (6)</td> <td>Anti-Graffiti Coating</td> <td>Square Meter</td> </tr> </table>	1032 (6)	Anti-Graffiti Coating	Square Meter
1032 (6)	Anti-Graffiti Coating	Square Meter				
63.	Section 1041.2.1.2.d 1041.2.1.3.d	PDF - Page 469  76	PDF - Page 475 (Revised Description)  78			
64.	1041.3.4 Fixing of Wall Stud	PDF - Page 474  610	PDF - Page 480 (Revised Description)  360			
65.	Section 1805.2.1.3.c AFC Floor Cover	PDF - Page 583  <Non-existing Item>	PDF - Page 589 (Additional Description)  c) Material : Stainless Steel Type 304			
66.	Section 1805.2.2.1.c.i	PDF - Page 583  stainless steel grade 316	PDF - Page 590 (Revised Description)  stainless steel grade Type 304			

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
67.	Section 1811.2.1.1.b 1811.2.1.2.b 1811.2.1.3.b Product Selections	PDF - Page 627  b) Material : Aluminum	PDF - Page 633 (Revised Description)  b) Material : Aluminum – 1mm thick
68.	Section 1811.2.1.4.b 1811.2.1.5.b 1811.2.1.6.b 1811.2.1.7.b 1811.2.1.8.b 1811.2.1.9.b Product Selections	PDF - Page 628-629  <Non-existing Item>	PDF - Page 634-635 (Additional Description)  b) Material : Aluminum – 1mm thick
69.	Section 1811.2.1.10.b 1811.2.1.11.b Product Selections	PDF - Page 629  <Non-existing Item>	PDF - Page 635 (Additional Description)  b) Material : Stainless Steel, Type 304
70.	Section 1811.2.3.6.b	PDF - Page 631  The ceiling assemblies shall be fire resistant in accordance with the NFPA 251.	PDF - Page 637  <Omitted>
71.	Section 1812.2.1.4.b Buil-ins	PDF - Page 648  <Non-existing Item>	PDF - Page 655 (Additional Description)  b) Lactation Room Cabinet (i) Location: Lactation Room (ii) Description: High-density Particle (HDP) board in laminate finish including all necessary fastenings, bracketing and accessories required to



**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Technical Specifications</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			complete the installation. (iii) Finish: Laminate finish frame and quartz countertop as indicated in the Drawings. (iv) Accessories: Built-in handles and keylock. (v) Sizes, Profile and configurations: As indicated in the Drawings. (vi) Methods of connection and fixings: As indicated in the Drawings.
72.	Section 1814.2.3.1	PDF - Page 668  Zinc-coated (Galvanized) Steel Sheet	PDF - Page 675 (Revised Description)  Galvanized Steel Fluorourethane Baked Finish

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
73.	No. GN-CE-CD-0021,0026~0027		Adjusted styles
74.	No. GN-CE-CD-0015~0016,0018		Changed fillet
75.	No. GN-CE-CD-0017		Changed fillet and added dimension
76.	No. STN-CE-AN-0308,0314,0319		Revised the KEYPLAN

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
77.	No. STN-CE-AN-0324,0328		Revised ESC support and cross section
78.	No. STN-CE-AN-0020		Revised table
79.	No. STN-CE-AN-0001,0007,0116		Revised column
80.	No. STN-CE-AN-0011,0024,0026,0030,0031,0035,0137~0138		Revised column capital
81.	No. STN-CE-AN-0013		Revised column capital and ESC support
82.	No. STN-CE-AN-0014,0313~0316,0318~0319,0323,0325,0327,0329		Revised ESC support
83.	No. STN-CE-AN-0328,0330		Revised cross section

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
84.	No.STN-CE-AN-0309		Added wall
85.	No.STN-CE-AN-0301,0304,0305,0306,0308		Added and revised wall
86.	No.STN-CE-AN-0134		Deleted coupler
87.	No.STN-CE-AN-0216~0218		Added dowel bars
88.	No.STN-CE-AN-0310		Adjusted styles
89.	No.STN-CE-AN-0001,0004,0006,0024,0027,0901,0902		Adjusted position of staircase
90.	No.STN-CE-AN-0008,0022		Adjusted position of staircase and added opening

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
91.	No.STN-CE-AN-0010,0023,0032,0033		Added opening
92.	No.STN-CE-AN-0013,0014,0304,0305		Added opening for evacuation passages
93.	No.STN-CE-AN-0107,0108,0109,0110		Adjusted keyplan style
94.	No.STN-CE-AN-0111,0116,0125,0126,0134,0135		Added note
95.	No.STN-CE-AN-0313,0315,0318,0323,0325,0326,0327,0329,0330		Adjusted cutout of escalator
96.	No. STN-CE-KP-0024		Revised table
97.	No. STN-CE-KP-0104		Deleted coupler
98.	No. STN-CE-KP-0015~0017,0316,0318,		Revised ESC support

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
	0323,0325		
99.	No. STN-CE-KP-0036,0040,0122~0123		Revised column capital
100.	No. STN-CE-KP-0116,0311		Adjusted styles
101.	No. STN-CE-KP-0301,0304~0305,0306,0309		Added and revised wall
102.	No. STN-CE-KP-0310		Added wall
103.	No. STN-CE-KP-0324		Revised ESC support and cross section
104.	No. STN-CE-KP-0113,0114		Revised covering of re-bar
105.	No. STN-CE-KP-0010,0015,0016,0017,0304,0305		Added opening for evacuation passages

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
106.	No. STN-CE-KP-0104,0110,0111,0119,0120		Added note
107.	No. STN-CE-KP-0316,0318,0323,0325,0326		Adjusted cutout of escalator
108.	<b>Reference</b>	<b>Original (30 Sep 2020)</b>	<b>Corrected, Supplemented or Modified (DD MM 2020)</b>
109.	No. TN-CE-TBM-0015		Added to note
110.	No. TN-CE-TBM-0065		Changed the layout of the drawing
111.	No. TN-CE-TBM-0066		Reinforcement detail added
112.	No. TN-CE-PIT-0001, 0005~0008		Revised notation
113.	No. TN-CE-PIT-0002, 0003		Changed bar arrangement

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
114.	No. TN-CE-PIT-0004		Revised section
115.	STN-AR-A-AN/ KP-0002	General Notes	Updated note regarding fire protection
116.	STN-AR-A-AN/ KP-0201	Specification of the escalator details and the toilet fixtures	Updated both to match the current drawing status
117.	STN-AR-A-AN/ KP-0300-301	Area schedule was combined for station box and outdoor areas	Separated the areas of the station box and the outdoor equipment area
118.	STN-AR-A-AN/ KP-0500	Height of FVF-01 missing	Added flooring height of FVF-01
119.	STN-AR-A-AN/ KP-0600-602	Evacuation distance	Evacuation distance from the machine room area added
120.	STN-AR-A-AN/ KP-Plans	<ul style="list-style-type: none"> <li>-Ramp length</li> <li>-Male WC toilet layout</li> <li>-Station Control Room and Fire Equipment Space</li> <li>-Beam and wall locations</li> <li>-Column sizes in the station box</li> <li>-PSD gates</li> </ul>	<ul style="list-style-type: none"> <li>-Ramp length updated according to BP 344</li> <li>-Revised the Male WC toilet layout to increase space between the urinal and the WC cubical.</li> <li>-Updated the drawings to reflect the additional Station Control Room and the Fire Equipment Area.</li> <li>-The additional beams and walls have been updated according to the civil drawings</li> <li>-Updated column sizes and shape according to the station box</li> <li>-Updated PSD gates according to railway systems</li> </ul>
121.	STN-AR-A-AN/ KP-2050		New drawing added to reflect the RCP fixtures in a legend
122.	STN-AR-A-AN/ KP-2903	Wall elevations	Wall elevations to match JDT comments
123.	STN-AR-A-AN/ KP-9500	Toilet detail	Toilet detail updated to reflect fixing detail

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
124.	STN-AR-A-AN-9700	Elevator detail	The suspended pit Elevator detail is updated
125.	STN-AR-A-AN/KP-9001	U track and stud thickness	The U track and stud thickness has been updated to 76mm
126.	STN-AR-A-AN/KP -9190	Handrail height	Handrail height updated to 700mm
127.	STN-AR-A-AN/KP -9191	Handrail height	Handrail height updated to 700mm
128.	STN-AR-A-AN/KP -9220	Cat ladder height	Cat ladder height revised to 6m height
129.	STN-AR-A-AN/KP -9230	Bird Mesh	Mesh description changed to insect screen to match with the TS and BOQ document
130.	STN-AR-A-AN/KP -ES details	Railing extension	Dimensions added to indicate the 300mm and 600mm extension.
131.	STN-AR-A-AN/KP -0201,0500,0501	<ol style="list-style-type: none"> <li>1. In Door and windows, 7 items and specification were mentioned</li> <li>2. Toilet Fixtures specification</li> <li>3. In finishing schedule, FVF-01 height was not mentioned as well as thickness was not specified in CLG -10</li> </ol>	<ol style="list-style-type: none"> <li>1. a) Hollow core steel door, louver door, roll up door and door frames are removed.</li> <li>b) 1.6 mm thick galvanized steel has been added in steel door and fire rated steel door panel.</li> <li>c) In Window item, SUS frame is mentioned.</li> <li>2. The specifications are updated according to the latest material and type of sanitary ware are using.</li> <li>3. In FVF-01 300mm height is included and 10mm thickness is also included in CLG-10</li> </ol>
132.	STN-AR-A-AN/KP -1:400	1.In VRF cooling tower unit. extruded aluminum vertical louvers were provided in the fence area.	1. Noise barrier detail is added instead of fence in the cooling tower unit.



<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
	PLANS & SECTIONS	2.The width of the wall was 200mm in the emergency staircase area. 3.Wall chamfer detail 4. Emergency staircase 5.Maintanace door in B2F level opening to the staircase 6.Civil Dwg 7.Ceiling Height	2.Emergency staircase wall is updated to 300mm. . 3. In B1F level the detail which was shown in the detailing sheet is reflected same on the architectural drawing. 4. Two walls are added just beside the door to secure fire compartment. 5.Railing is provided Infront of the maintenance door in B2F level. 6.Architectural drawing is updated according to the civil. 7.Ceiling Height is updated to 3000mm clear and then 300mm after ceiling.
133.	STN-AR-A-AN/KP -1:100 PLANS & SECTIONS	1. Height and thickness was not mentioned in the finishing schedule 2. MEP fixture were not included in the cross section 3.1500mm clear space was not provided 4.UP/DOWN tag placed in the ground plan at emergency staircase area. 5.In VRF cooling tower unit. extruded aluminum vertical louvers were provided in the fence area. 6.The width of the wall was 200mm in the emergency staircase area. 7.No stiffener wall was provided in ticket sales room and customer service room 8.Wall chamfer detail 9. Emergency staircase 10.Maintanace door in B2F level opening to the staircase 11.Long section no railing is shown in front of the maintenance door 12. Civil Dwg	1. 300mm height in FVF-01 and 10mm thick in CLG-10 is specified in the finishing schedule. 2. MEP fixture are shown in the cross section. 3. 1500mm clear space is provided in emergency staircase. 4.The UP/DOWN tag placed in the emergency staircase area is removed from the ground level plan 5. Noise barrier detail is added instead of fence in the cooling tower unit. 6.Emergency staircase wall is updated to 300mm. 7. RCC stiffener wall is provided in both the rooms. 8. In B1F level the detail which was shown in the detailing sheet is reflected same on the architectural drawing. 9. Two walls are added just beside the door to secure fire compartment. 10.Railing is provided Infront of the maintenance door in B2F level. 11.Long section railing is shown in front of the maintenance door 12.Drawings are updated according to civil drawing

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
134.	STN-AR-A- AN-4100-4103, 6041-6043,6051,6052 STN-AR-A- KP-4000-4003, 6040-6043	<ol style="list-style-type: none"> <li>1. 300mm and 600 mm extensions was not mentioned in emergency staircase.</li> <li>2. 900mm railing height was shown in emergency staircase and 710mm height for wall mounted railing</li> <li>3.1500mm clear space was not provided</li> <li>4.Emergency staircase wall</li> <li>5.1500mm clear semicircle</li> <li>6.Wet riser (LV) in the emergency staircase room</li> </ol>	<ol style="list-style-type: none"> <li>1. 300mm and 600mm extensions are drawn in the emergency staircase.</li> <li>2. Railing height is updated to 1060mm and 700mm.</li> <li>3. 1500mm clear space is provided in emergency staircase.</li> <li>4.The width of the emergency staircase wall is updated in the section</li> <li>5. 1500mm semicircle is provided also in the mid landing level.</li> <li>6. Wet risers (LV) are moved towards corner of the wall.</li> </ol>
135.	STN-AR-A- AN-5000-5003,5100-5109,5209-5213,5300,5301,5310 STN-AR-A- KP-5000-5005,5100-5104,5110-5112,5120-5121,5200-5202,5210-5212	<ol style="list-style-type: none"> <li>1. Cleaners sink in Janitor room.</li> <li>2. Sanitary ware legends</li> <li>3. Glass door in customer service room</li> <li>4.Toilet cubicle in public male toilet.</li> <li>5.Handicapped toilet room in Public toilet area (male&amp; female)</li> <li>6.Customer service room &amp; Ticket Sales room</li> </ol>	<ol style="list-style-type: none"> <li>1. Cleaners sink is provided in the Janitor room.</li> <li>2. Sanitary ware legend is updated; serial no. 7 is specified for cleaners sink.</li> <li>3. Fire rated door is provided in customer service room as well as RCC wall is given in ticket sale and customer service room due to which shutter size is reduced.</li> <li>4.The orientation of the public male toilet cubicle is revised.</li> <li>5.The room size of the handicapped toilet room is updated to 1700 x 1800mm</li> <li>6.RCC stiffener wall is added in the customer service &amp; ticket sales room.</li> </ol>
136.	STN-AR-A- AN-7000-7005,7006-7401	<ol style="list-style-type: none"> <li>1. Glass door was provided in customer service room</li> <li>2.Watertight doors</li> <li>3.RCC stiffener</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire rated door is provided in customer service room</li> <li>2. Watertight doors are shown.</li> <li>3.RCC stiffener wall is shown in ticket sales room &amp; customer service due to which shutter is reduced</li> </ol>

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
	STN-AR-A- KP-7000-7006,7007-7401	4.Fire shutter 5. Size of Access Panel 6. Sanitary ware schedule	4. Shutter width and section is updated 5. Size of the Access Panel updated to 500 x 875mm 6. Sanitary ware schedule updated to include cleaners sink and cleaners tap
137.	STN-AR-A- AN-8000-8260 STN-AR-A- KP-8000-8259	1. Customer service	1.Customer service information tag is updated according to the size of the counter window.
138.	STN-AR-A-AN/KP-9001	1. Sealant in wall type details	1.Fire sealant with backer rod is added.
139.	STN-AR-A-AN/KP-9062	1.Concourse false ceiling detail	1. Concourse false ceiling detail aluminum louver with insect net is updated to insect screen
140.	STN-AR-A-AN/KP -9064	1.Typical detail of platform false ceiling	1. A gap is provided between the C type bracket and the wall tile and the tile is raised up to 200mm.
141.	STN-AR-A-AN/KP -9110	1. Reinforced concrete stiffener was not included 2.Typical detail of fire shutter	1. Reinforced concrete stiffener is shown in the detail. 2.Wall above lintel is removed
142.	STN-AR-A-AN/KP -9131	1.Typical detail of lift smoke shutter	1. Insect screen was added in the description title.
143.	STN-AR-A-AN/KP -9151	1.Typical detail of dry wall jamb	1.Fire door jamb is added which is reflecting on the plan.
144.	STN-AR-A-AN/KP -9190-9192	1.Typical Detail of BAL-01a & BAL-05 railing 2.Typical details of BAL-01a,01b & BAL-05 railing	1.SS hairline finish is added and drain is updated in the section 2.New sheet has been added
145.	STN-AR-A-AN/KP -9220-9230	1. The term bird mesh was written in vertical louver detail	1. Bird mesh term is updated to insect screen.

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
146.	STN-AR-A-AN/KP - 9241	1. Typical Detail of Noise Barrier	1. New sheet has been added
147.	STN-AR-A-AN/KP - 9310	1. Typical detail of ticket counter window	1. Block wall has been updated to RCC concrete lintel and RCC drop wall
148.	STN-AR-A-AN/KP - 9670-9671	1. Typical detail of Elevator 02	1. Insect screen text has been added
149.	STN-AR-A-AN/KP - 9700	1. Typical detail of EV-01	1. Typical detail of EV-01
150.	STN-AR-A-AN/KP - 9810	1. Typical detail of emergency stair railing detail	1. Emergency stair railing is updated
151.	STN-AR-A-AN/KP - 9830	1. Typical detail of corner chamfer detail	1. Corner chamfer detail is updated and wall has been added
152.	STN-AR-A-AN/KP-0104,0501	1. Sheet added 2. Ceiling height and finishes	1. Typical details of removable handrail at public staircase. 2. In finishing schedule ceiling height is provided in entrance staircase and also WPS-01 wall finishes is added.
153.	STN-AR-A-AN/KP-0601,0802, PLANS & SECTIONS, DELIEVERY ROUTE, RCP, FLOOR FINISHES, ROOM DETAILS, WALL ELEVATION	1. Stiffner wall in customer service room was 600x600mm and in ticket sales room was 850x500mm 3. Fire shutter support column	1. Stiffener wall updated to 600x300mm and in L shaped room the corner column will remain intact 600x600mm in customer service and 850x300mm in ticket sales room. 3. Fire shutter support column is updated to 300 to 280mm and 20mm is required for isolation joint.
154.	STN-AR-A-AN/KP-ENTRANCE	1. Drain Channel 2. Emergency staircase	1. Drain channel detail is updated according to the typical detail (AN/KP-9180).

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
	&EMERGENCY STAIRCASE		2.Stiffner wall of 630x330mm is provided in the near emergency staircase at B1F level.
155.	STN-AR-A-AN/KP-DOOR DETAIL DWG	1. Access control 2.Fire shutter in customer service & ticket sales room	1. Access control for the emergency door got revised. 2.The length of the fire shutter got updated.
156.	STN-AR-A-AN/KP-9110	Typical Detail of Fire Shutter	1.Fire shutter support column got updated from 300mm to 280mm and 20mm is for isolation joint.
157.	STN-AR-A-AN/KP-9180	1.Typical detail of entrance parapet along with down take pipe	1.Drain channel updated.
158.	STN-AR-A-AN/KP-9191,9192	1.Typical detail of BAL-01b & BAL-05 railing 2.Material specification	1.wall finish WPS-01 (Cementitious waterproofing) has been added. 2.Sealeant has been added
159.	STN-AR-A-AN/KP-9230	1.Typical details of vertical louvers	1.Size of the Drain channel got revised.
160.	STN-AR-A-AN/KP-9830	1.Typical details of corner chamfer detail	1.Fire shutter support column got updated from 300mm to 280mm and 20mm is for isolation joint.
161.	STN-AR-A-AN/KP-9880	1.Typical details of removable handrail at public staircase	1. Typical details of removable handrail at public staircase drawing has been added
162.	STN-AR-A-AN/KP-1003 & 7001/7002	1.Customer service door	1. Both the doors of the customer service office is changed from a steel fire rated door to a steel fire rated door with vision panel (T2C).
163.	STN-AR-A-AN/KP-500	1.Description of BAL-03a 2.Description of BAL-03b 3. Description of GL-04	1. BAL-03a description updated to 38MM Ø SS Handrail with 21.52 MM THK (10MM+1.52PVB+10MM) Fully tempered (FT) Laminated Glass., H=1400 2. BAL-03b description updated to 21.52MM

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
			(10MM+1.52PVB+10MM) Fully tempered (FT) Laminated Glass, H=1200 Glass Panel size: 900 (W) x 1100 (H) 3. GL-04 description updated to 25 MM (12MM+1.52 PVB+12MM) 2-Hour Fire-Rated Fully Tempered Laminated Glass Panel Size: 1750 H X 1825 W (MAX)
164.	STN-AR-A-AN-0600-0602	1.Entrance 1 2.Emergency escape wall thickness 3. Shaft connections	1. Location of escalators in entrance 1 is updated to match with civil 1. Emergency escape wall thickness updated to match with structural drawings 3. Shaft connections updated to match with civil drawing
165.	STN-AR-A-KP-0600-0602	1.Entrance 4 2.Emergency escape wall thickness 3. Shaft connections	1. Profile of entrance 4 is updated to match with civil 1. Emergency escape wall thickness updated to match with structural drawings 3. Shaft connections updated to match with civil drawing
166.	STN-AR-A-AN-0801-0803	1.Entrance 1 2.Emergency escape wall thickness 3. Shaft connections 4.Elevator glass type	1. Location of escalators in entrance 1 is updated to match with civil 1. Emergency escape wall thickness updated to match with structural drawings 3. Shaft connections updated to match with civil drawing 4. The elevator glass type updated to fire resistance glass
167.	STN-AR-A-KP-0800-0803	1.Entrance 4 2.Emergency escape wall thickness 3. Shaft connections 4. Elevator glass type	1. Profile of entrance 4 is updated to match with civil 1. Emergency escape wall thickness updated to match with structural drawings 3. Shaft connections updated to match with civil drawing 4. The elevator glass type updated to fire resistance glass

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
168.	STN-AR-A-AN-1002	<ol style="list-style-type: none"> <li>1. Escalator locations</li> <li>2. Cut out sizes</li> </ol>	<ol style="list-style-type: none"> <li>1. Location of escalators in entrance 1 updated according to civil drawing</li> <li>2. Cut out size of entrance 2 updated according to civil drawing</li> </ol>
169.	STN-AR-A-KP-1000-1002	<ol style="list-style-type: none"> <li>1. Entrance 4 profile</li> </ol>	<ol style="list-style-type: none"> <li>1. Entrance 4 roof profile and elevator location updated according to civil drawing</li> </ol>
170.	STN-AR-A-AN-1003	<ol style="list-style-type: none"> <li>1. The wall thickness of the emergency escape staircase</li> <li>2. Floor drain in garbage room and next to urinal</li> </ol>	<ol style="list-style-type: none"> <li>1. Wall thickness of the Emergency Escape Staircase updated to match with civil cut out size</li> <li>2. Added floor drain in garbage room and urinals</li> </ol>
171.	STN-AR-A-KP-1003	<ol style="list-style-type: none"> <li>1. Door in security staff</li> <li>2. The wall thickness of the emergency escape staircase</li> <li>3. Floor drain in garbage room and next to urinal</li> <li>4. Shaft connections</li> </ol>	<ol style="list-style-type: none"> <li>1. Updated door location in the security staff area to achieve less than 15m of diagonal distance in the room</li> <li>2. Wall thickness of the Emergency Escape Staircase updated to match with civil cut out size</li> <li>3. Added floor drain in garbage room and urinals</li> <li>4. Shaft connections profile updated to match with civil</li> </ol>
172.	STN-AR-A-AN/KP-1004	<ol style="list-style-type: none"> <li>1. Door to machine and TVF room</li> <li>2. Shaft connections and column profile</li> <li>3. The wall thickness of the emergency escape staircase</li> </ol>	<ol style="list-style-type: none"> <li>1. The door detail leading to machine and TVF room has been updated to incorporate a smaller leaf for maintenance and evacuation purpose.</li> <li>2. Shaft connections and column profiles updated to match with civil drawings</li> <li>3. Wall thickness of the Emergency Escape Staircase updated to match with civil cut out size</li> </ol>
173.	STN-AR-A-AN/KP-1005	<ol style="list-style-type: none"> <li>1. Janitor room in platform level</li> <li>2. The wall thickness of the emergency escape staircase</li> </ol>	<ol style="list-style-type: none"> <li>1. Added 1m x 1m cut out to access the sump pit below</li> <li>2. Wall thickness of the Emergency Escape Staircase updated to match with civil cut out size</li> </ol>
174.	STN-AR-A-AN/KP-1006	<ol style="list-style-type: none"> <li>1. Tunnel separation wall</li> </ol>	<ol style="list-style-type: none"> <li>1. Updated the location of the tunnel separation wall according to civil</li> </ol>

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
175.	STN-AR-A-AN/KP-1011	1.Escalator pit 2.Emergency wall thickness	1. Updated escalator pit depth to match with civil 2. Updated the emergency staircase wall thickness to match with civil
176.	STN-AR-A-KP-1012	1.Shaft cut out in civil wall	1. The opening in the civil wall for shaft transfer updated to match with the civil drawing
177.	STN-AR-A-AN/KP-1600 - 1603	1.Location of the wall below the platform slab	1. Updated the location of the wall below the platform slab to match with civil
178.	STN-AR-A-AN/KP-1700 - 1703	1.Escalator pit 2.Emergency wall thickness	1. Updated escalator pit depth to match with civil 2. Updated the emergency staircase wall thickness to match with civil
179.	STN-AR-A-KP-1707	1.Shaft cut out in civil wall	1. The opening in the civil wall for shaft transfer updated to match with the civil drawing
180.	STN-AR-A-KP-2100, 2101, 2103, 2105 and 2106	1.False ceiling in station master room 2.Entrance 4 elevator profile 3. Emergency wall thickness 4.Station master false ceiling	1. The false ceiling in the station master room has been updated to CLG-07 2. The false ceiling in entrance 4 updated to match the profile in the civil drawing 3. Updated the emergency staircase wall thickness to match with civil 4. False ceiling in the station master room updated to CLG-07
181.	STN-AR-A-KP-2401	1.Flooring for entrance 4	1. Flooring of entrance 4 has been modified because of the change in the size of the entrance
182.	STN-AR-A-KP-2500, 2501, 2503 and 2505	1.FD locations in the flooring 2.Flooring of station master room 3. Emergency wall thickness	1. The FD locations have been updated in the flooring drawing to match with the plumbing drawing 2. Flooring of station master room updated to FVF-01 3. Updated the emergency staircase wall thickness to match with civil



<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
183.	STN-AR-A-AN-2902, 2905 – 2906 & 2914 STN-AR-A-KP-2902, 2906, 2913-2914 & 2916	1. Glass panel location 2. Customer service and ticket office counter	1. Updated the glass panel location to have the joint come over the center of the door opening. 2. The height of the normal counter in the ticket office and customer service was updated to 1000mm from FFL
184.	STN-AR-A-AN-4012 and 4014	1. Escalator and stair cut out size 2. Escalator pit depth 3. False ceiling profile	1. The cut-out size at B1F level updated to match with civil drawing 2. Elevator pit depth updated to match with civil 3. False ceiling profile updated due to the change in the cut-out size
185.	STN-AR-A-AN-4019	1. Escalator pit depth	1. Elevator pit depth updated to match with civil
186.	STN-AR-A-AN-4100-4103	1. Emergency staircase wall thickness	1. Revised the wall thickness of the emergency staircase to match with the civil drawing
187.	STN-AR-A-KP-4000-4003	1. Emergency staircase wall thickness	1. Revised the wall thickness of the emergency staircase to match with the civil drawing
188.	STN-AR-A-KP-4012	1. Escalator pit depth	1. Elevator pit depth updated to match with civil
189.	STN-AR-A-AN-4200	1. Ramp detail	1. Added upstand at the ramp railing according to local code requirement
190.	STN-AR-A-AN-5000-5105 and 5300-5310	1. Floor drain location under wash basin 2. Floor drain at urinal	1. The number of floor drains and location was updated according to the plumbing drawing in all the wet rooms

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
191.	STN-AR-A-KP-5000-5120 and 5300-5310	1.Floor drain location under wash basin 2.Floor drain at urinal	1. The number of floor drains and location was updated according to the plumbing drawing in all the wet rooms
192.	STN-AR-A-AN-5209 -5213	1.Customer service and ticket office counter	1. The height of the normal counter in the ticket office and customer service was updated to 1000mm from FFL
193.	STN-AR-A-KP-5200 -5212	1.Customer service and ticket office counter	1. The height of the normal counter in the ticket office and customer service was updated to 1000mm from FFL
194.	STN-AR-A- AN-6002-6007	1.Escalator location 2.Column configuration 3.False ceiling type 4.Escalator pit cut-out location	1. The escalator locations have been updated to match with the civil drawing 2. Column sizes and locations have been updated to match with the civil drawing 3. False ceiling at the entrance updated to CLG-01 4. Escalator pit location and size updated to match with civil drawing
195.	STN-AR-A- AN-6021-6022	1.Cut-out size for entrance 2 2.False ceiling type	1. The cut-out size for entrance 2 updated to match with civil drawing 2. False ceiling type updated to CLG-01
196.	STN-AR-A- AN-6032	1. Escalator location	1. The escalator locations have been updated to match with the civil drawing
197.	STN-AR-A- AN-6041	1.Cut-out next to emergency escape	1. Cut-out profile adjacent to emergency escape updated to match with civil drawing
198.	STN-AR-A- AN-6062	1.Cut-out size for entrance 2	1. The cut-out size for entrance 2 updated to match with civil drawing
199.	STN-AR-A- KP-6002, 6004 - 6006	1.Profile of power shaft	1. Profile of power shaft updated to match with civil drawing

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
200.	STN-AR-A- KP-6022 and 6026	1.Shaft connection	1. Profile of the shaft connection updated to match with the civil drawing
201.	STN-AR-A- KP-6030 - 6034	1.Entrance 4 profile	1. Complete entrance updated to match with civil drawing
202.	STN-AR-A- AN/KP-7013	1.Door detail for door type T-9	1. The door type T9 was updated to accommodate a single leaf door within a large leaf of the door for maintenance purpose.
203.	STN-AR-A- AN/KP-9030	1.Upstand detail for internal walls	1. Added two upstand details to indicate the detail of upstand at standalone 150mm block wall and 150mm cavity block wall
204.	STN-AR-A- AN/KP-9062	1.Glass thickness of GL-05	1. The glass thickness of GL-05 has been updated to 16mm thick
205.	STN-AR-A- AN/KP-9191	1.Handrail detail BAL-05	1. Handrail detail BAL-05 updated to indicate additional handrail for people to hold on to when the handrail of the escalator finishes and the cut out continues
206.	STN-AR-A- AN/KP-9192	1.Handrail detail BAL-05	1. Additional fixing details added to indicate the fixing of the additional handrail on BAL-05
207.	STN-AR-A- AN/KP-9250	1.Partition wall glass thickness	1. Partition wall glass thickness updated to 16mm thick
208.	STN-AR-A- AN/KP-9251	1.Glass thickness in BAL-03a	1. Glass thickness in BAL-03a updated to 38mm thick
209.	STN-AR-A- AN/KP-9252	1.Glass thickness in BAL-03b	1. Glass thickness in BAL-03b updated to 21.52mm thick
210.	STN-AR-A- AN/KP-9300	1.Glass thickness of the door separating the paid and unpaid area	1. The glass thickness of the door separating the paid and unpaid area has been increased to 16mm thick

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
211.	STN-AR-A- AN/KP-9610	1.Urinal partition wall material	1. Updated the material of the partition in the urinals from Quartz to Phenolic board
212.	STN-AR-A- AN/KP-9670 & 9671	11.Elevator detail 2.Glass thickness	1. Elevator glass fixing detail updated to spider fixing 2. Glass thickness updated to 25mm thick 2 fire rated fully tempered laminated glass
213.	STN-AR-A-AN/KP-0104	1.List of drawings	1.List of drawings updated with addition of drawing number 9132.
214.	STN-AR-A-AN/KP-9130 & 9131	1.Typical detail of elevator smoke shutter.	1.Elevation-A updated with glass joint line.
215.	STN-AR-A-AN/KP-9132	-	1.Elevator elevations
216.	STN-AR-A- AN/KP-9670	Glass fitting	Spider fitting is indicated in the detail
217.	STN-AR-A- AN/KP-9890	-	1.Detail of door with a pocket door for evacuation and maintenance purpose.
218.	STN-AR-A-KP-1003	1.Toilet in public male and female 2.Fire rated glass and shutter 3.Ticket office window 4.Scupper drain	1.Labelled the large toilet in the public male and female toilet as "Large Toilet" 2.Removed the fire rated glass from the multipurpose/ commercial area and added fire shutters with door. 3. Updated the length of the ticket office window to modularize the length 4.Added scupper drain in the machine room area
219.	STN-AR-A-AN-1003	1.Toilet in public male and female	1.Labelled the large toilet in the public male and female toilet as "Large Toilet"

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
220.	STN-AR-A-AN/KP-2905 & 2914	1.Glass panel size at public toilet	1.The glass panel length was updated from 1200mm to 1800mm
221.	STN-AR-A- AN/KP-9191	1.Detail B & D	1.Detail B & D is updated to indicate stainless steel plate along the escalator side
222.	STN-AR-A- AN/KP-1100-1503	1.Finish Legend	1.Description of BAL-03b, WPS-01 and 03 has been updated according to the detail drawings and finish schedule
223.	STN-AR-A- AN/KP-0501	1.Finish Schedule	1.Wall and floor water proofing finish is added in Security WC and Shower
224.	STN-AR-A- AN/KP-9330	1.Gutter width	1.Added the gutter width of 400mm
225.	STN-AR-A- AN/KP-6000-6038	1.Entrance Signage	1.The roof mounted signage has been removed from the entrance drawings to match with the signage schedule
226.	STN-AR-A- AN/KP-0104	1.Drawing list	1.Updated the drawing list to indicate the addition of the new detail drawings
227.	STN-AR-A-AN/KP-8055	1.Signage Fixing Detail	1.Removed the fixing detail of the roof mounted signage from the detail sheet
228.	STN-AR-A-AN-6002	1.Number of steps	1.Corrected the number of steps in section to match with the plan
229.	STN-AR-A- AN/KP-0200	1.Specification	1.Waterproofing from platform level has been removed 2.General item list has been updated
230.	STN-AR-A- AN/KP-0500	1.Finishing legend	1.The description of glass wool has been updated

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
231.	STN-AR-A-AN-1003	1.Ticket office table and chair location 2.Scupper drain and escalator/ elevator sump pit	1.The location of the table and chair in the ticket office has been updated to align with the window. 2.Removed the scupper drain at all entrances and the escalator and elevator sump pit
232.	STN-AR-A-KP-1003	1.Scupper drain and escalator/ elevator sump pit	1.Removed the scupper drain at all entrances and the escalator and elevator sump pit
233.	STN-AR-A-AN/KP-1004	1.Door indication 2.Pump room	1.The indication of the door leading to the machine room has been updated 2.Scupper drain in the pump room has been added to match with the MEP drawing
234.	STN-AR-A-AN/KP-1100 to 1504	1.Legend description	1.The description of the finishes has been updated to match with the finishing schedule
235.	STN-AR-A-AN-5209-5210	1.Ticket office layout	1.Ticket office layout updated to align the table and chair with the window and indicate the length of the ticket office
236.	STN-AR-A-KP-5200-5202	1.Ticket office detail	1.Updated the ticket office window length to modularize the glass size
237.	STN-AR-A-AN/KP-7002-7013	1.Door schedule 2.Ironmongery set	1.Door key plan updated to indicate the machine room door 2.Updated the ironmongery set for the machine room door
238.	STN-AR-A-KP-7018	1.Fire shutter	1.Added fire shutter detail of the fire shutter at the commercial area
239.	STN-AR-A-AN/KP-9002	1.Finish fixing detail	1.The fixing detail of the ceramic tile has been updated

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
240.	STN-AR-A-AN/KP-9130 to 9132	1.Fixing detail of fire curtain 2.Material finish above the elevator glass in platform level	1.Updated the fixing detail of the fire curtain 2.Updated the material finish to steel plate above the elevator in platform level
241.	STN-AR-A-AN/KP-9670 to 9671	1.Fixing detail of the fire curtain 2.Fixing detail of the spider fitting	1.Updated the fixing detail of the fire curtain at the elevator 2.Updated the spider fitting of the glass at the elevator
242.	STN-AR-A-AN/KP-9900	-	1.Added the detail of the ramp in the system room
243.	STN-AR-A- AN/KP-0104	1.Drawing list	1.Added new ramp detail drawing number
244.	STN-AR-A- AN/KP-0200	1.Specification sheet	1.Updated the specification title for concourse waterproofing and sealants to Gutter between Cavity wall and D-Wall 2.Updated the sets of blueprints being provided to the contractor
245.	STN-AR-A- AN/KP-1004	1.Ramp slope in system rooms	1.Updated the slope of the ramps in the system rooms
246.	STN-AR-A- AN/KP-7002 and 7021	1.Window schedule	1.Added the window schedule for the windows in the ticket office and customer service office
247.	STN-AR-A- AN-1003 and 5209	1.Ticket office counter location	1.Updated the location of the ticket office counter to modularize the layout
248.	STN-AR-A- AN/KP-7008, 7014 and 7007, 7014	1.Door at garbage room	1.The door at garbage room has been updated to indicate a fire rated grill for fresh air intake
249.	STN-AR-A-AN/KP-0200 & 0201	1.The waterproofing specification 2.Painting area	1.The location for each waterproofing has been added 2.A note to indicate the graffiti paint works on the external walls for

Volume II Part 2: Works Requirements >> Section VI Works Requirements >> Employer's Drawings			
No.	Reference	Original	Corrected, Supplemented or Modified
			the above ground structures has been added
250.	STN-AR-A- AN/KP-7008 to 7010	1.Door type	1.The door type for the janitor room, multipurpose toilet and large toilet has been modified and louver has been added.
251.	STN-AR-A- AN/KP-7014 to 7015	1.Door elevation	1.Door elevations modified to indicate the louvers
252.	STN-AR-A- AN/KP-7100 to 7101	1.Access panel	1.Height of the Wall access panel size changed to 580mm as the insect screen was removed
253.	STN-AR-A- AN/KP-7102	1.Access panel elevation	1.Elevation of the wall access panel modified according to the schedule
254.	STN-AR-A-AN/KP-7401	1.Lactation room furniture 2.Number of lockers	1.The fridge from the lactation room was removed 2.The description of number of lockers expanded
255.	STN-AR-A-AN-1003	1.MEP cut out 2.Entrance drain 3.Column profile	1.MEP cut out matched with civil drawing 2.Entrance drain added for drainage of the stairs 3.Column profile updated to match the civil drawings
256.	STN-AR-A-AN-1004	1.MEP cut out 2.Civil wall extent 3.VS/VE shaft profile	1.MEP cut out updated to match with civil drawing 2.Civil wall extended to match with civil 3.VS/VE shaft cut out size updated to match with civil
257.	STN-AR-A-AN-1005	1.Civil wall extent	1.The civil wall has been extended to match with the civil drawing
258.	STN-AR-A-AN-1011	1.Column Capital and base	1.Column capital and base has been updated to with the civil drawings



Volume II Part 2: Works Requirements >> Section VI Works Requirements >> Employer's Drawings			
No.	Reference	Original	Corrected, Supplemented or Modified
		2.Escalator supports 3.Level difference at B2F level	2.Escalators supports added according to civil drawings 3.Slab difference indicated according to the civil drawing
259.	STN-AR-A-AN/KP-5108 and 5102	1.Powder space	1.Powder space indicated in the elevations
260.	STN-AR-A-KP-1000 to 1002	1.Entrance 1 profile	1.Entrance 1 profile updated according to the civil cut outs
261.	STN-AR-A-KP-1003	1. Shaft profile 2.Drain channel at entrances 3.Commercial space	1.Shaft profiles have been updated according to the civil 2.Drain channels added at the entrance locations 3.Commercial space block wall removed, and fire shutters added
262.	STN-AR-A-KP-1004	1.Shaft profile	1.The shaft profile updated according to civil drawing
263.	STN-AR-A-KP-1011	1.PCC below escalators 2.Slab difference profile at B2F level	1.PCC below the escalators has been removed 2.Slab difference profile at B2F level has been updated according to the civil drawings
264.	STN-AR-A-AN/KP-9600	1.Wash basin and powder space	1.The powder space detail has been added and wash basin detail updated.
265.	STN-AR-A-AN/KP-9640	1.Pantry detail	1.Pantry detail updated according to indicate the embedded induction and removal oven
266.	STN-AR-A-AN/KP-9890	1.Machine room door	1.Machine room door updated to remove the 100mm sill
267.	STA-S-AN-3023	Entrance-01 Sections	4. Updated EV-01 Pit slab thickness to match Architectural Drawings
268.	STA-S-AN-3100	Lift EV-01 Shaft General Arrangement	3. Updated EV-01 Pit slab thickness to match Architectural Drawings

**Annex "B"**

<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>			
<b>No.</b>	<b>Reference</b>	<b>Original</b>	<b>Corrected, Supplemented or Modified</b>
269.	STA-S-KP-3125	Miscellaneous Details	2. Included details for the support of additional fire shutters
270.	KATIPUNAN STATION PLAZA SPL-A-PS-KP- 2012	N/A	Addition of the details for Steel Louvers, SPL-A-PS-KP-2012.
271.	ANONAS FOOTBRIDGE SPL-PB1-P-AN	N/A	Correction on garbled text, SPL-PB1-P-AN-5000 to 5008.
272.	KATIPUNAN FOOTBRIDGE SPL-PB1-P-KP and SPL-PB2-P- KP.	N/A	Correction on garbled text, SPL-PB1-P-KP-5000 to 5008, and SPL-PB2-P-KP-5000 to 5008.

<b>ERRATA to</b>		
<b>Volume II Part 2: Works Requirements &gt;&gt; Section VI Works Requirements &gt;&gt; Employer's Drawings</b>		
<b>No.</b>	<b>Bid Clarify/ GC Comment Doc Name</b>	<b>Correction</b>
<b>MEPF</b>		
273.	<b>Revised Drawing</b> <b>ANONAS STATION Drawings:</b> <b>STN-MEP-ELL-AN-2001-2</b> <b>STN-MEP-ELL-AN-2002-1</b> <b>STN-MEP-ELL-AN-2003-1</b> <b>STN-MEP-ELL-AN-2004-2</b>	20% Spare Capacity for Panel Added Scope Demarcation Updated Fire Panel Schematic Updated

**Annex "B"**

	<p>STN-MEP-ELL-AN-2005-3                  STN-MEP-ELL-AN-2006-3                  Katipunan Drawings:                  STN-MEP-ELL-KP-2001-2                  STN-MEP-ELL-KP-2002-1                  STN-MEP-ELL-KP-2003-1                  STN-MEP-ELL-KP-2004-3                  STN-MEP-ELL-KP-2005-1                  STN-MEP-ELL-KP-2006-1                  STN-MEP-ELL-KP-2006-2</p>	
<p>274.</p>	<p>ANONAS STATION Drawings:                  STN-MEP-ELL-TNL-AN-0101-0                  STN-MEP-ELL-TNL-AN-2001-0                  Katipunan Drawings:                  STN-MEP-ELL-TNL-KP-0101-0                  STN-MEP-ELL-TNL-KP-2001-0                  STN-MEP-ELL-TNL-KP-2002-0</p>	<p>Tunnel Lighting and Power schematic drawings added.</p>
<p>275.</p>	<p>Revised Drawing</p> <p>Anonas Drawings:      STN-MEP-FPS-AN-2201-2.                  STN-MEP-FPS-AN-3221-2.                  STN-MEP-FPS-AN-3224-2.                  STN-MEP-FPS-AN-3244-2.</p> <p>Katipunan Drawings:                  STN-MEP-FPS-KP-2201-2.                  STN-MEP-FPS-KP-3212-1.                  STN-MEP-FPS-KP-3215-1.                  STN-MEP-FPS-KP-3234-1.</p>	<p>FIRE PROTECTION SYSTEM: Sprinklers added in the BOH Toilet &amp; Shower Areas.                  FIRE PROTECTION SYSTEM: Sidewall Sprinklers added to the Janitor Room at Platform Level.</p>

**Annex "B"**

276.	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b> STN-MEP-STN-KP-0101-2</p> <p><b>Anonas Drawings:</b> STN-MEP-STN-AN-0101-6</p>	<p>PLUMBING SYSTEM, Drawing List updated due to addition of new drawings</p>
277.	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b> STN-MEP-STN-KP-4105-2 STN-MEP-STN-KP-4106-2</p> <p><b>Anonas Drawings:</b> STN-MEP-STN-AN-4105-6 STN-MEP-STN-AN-4106-6</p>	<p>PLUMBING SYSTEM, Addition Domestic water pump section details</p>
278.	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b> STN-MEP-STN-KP-4101-0 STN-MEP-STN-KP-4102-0 STN-MEP-STN-KP-4103-0 STN-MEP-STN-KP-4104-0</p> <p><b>Anonas Drawings:</b></p>	<p>PLUMBING SYSTEM, Addition of Isometric drawing</p>

**Annex "B"**

	<p>STN-MEP-STN-AN-4101-0                  STN-MEP-STN-AN-4102-0                  STN-MEP-STN-AN-4103-0                  STN-MEP-STN-AN-4104-0</p>	
279.	<p><b>Revised Drawing</b></p> <p>East Avenue Drawings:                  STN-MEP-STN-KP-5301-6</p> <p>Quezon Avenue Drawings:                  STN-MEP-STN-AN-5301-6</p>	<p>PLUMBING SYSTEM, Equipment Schedule update, SS tank for Janitor Room</p>
280.	<p><b>Revised Drawing</b></p> <p>Katipunan Drawings:                  STN-MEP-STN-KP-4301-0                  STN-MEP-STN-KP-4302-0                  STN-MEP-STN-KP-4303-0                  STN-MEP-STN-KP-4304-0</p> <p>Anonas Drawings:                  STN-MEP-STN-AN-4301-0                  STN-MEP-STN-AN-4302-0                  STN-MEP-STN-AN-4303-0                  STN-MEP-STN-AN-4304-0</p>	<p>PLUMBING SYSTEM, Addition of Isometric drawing</p>

**Annex "B"**

<p>281.</p>	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b> STN-MEP-STN-KP-0301-2</p> <p><b>Anonas Drawings:</b> STN-MEP-STN-AN-0301-6</p>	<p>PLUMBING SYSTEM, Drawing List updated due to addition of new drawings</p>
<p>282.</p>	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b> STN-MEP-STN-KP-5101 STN-MEP-STN-KP-5201 STN-MEP-STN-KP-5301</p> <p><b>Anonas Drawings:</b> STN-MEP-STN-AN-5101 STN-MEP-STN-AN-5201 STN-MEP-STN-AN-5301</p>	<p>PLUMBING SYSTEM, Equipment Schedule updated</p>
<p>283.</p>	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b> STN-MEP-PLD-KP-5301 STN-MEP-PLD-KP-5101</p> <p><b>Anonas Drawings:</b> STN-MEP-PLD-AN-5301 STN-MEP-PLD-AN-5101</p>	<p>PLUMBING SYSTEM, Equipment Schedule Updated</p>

**Annex "B"**

284.	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b>            STN-MEP-PLD-KP-2201            STN-MEP-PLD-KP-3230            STN-MEP-PLD-KP-3231            STN-MEP-PLD-KP-3232            STN-MEP-PLD-KP-3233            STN-MEP-PLD-KP-3234            STN-MEP-PLD-KP-3235</p> <p><b>Anonas Drawings:</b>            STN-MEP-PLD-AN-2201            STN-MEP-PLD-AN-3240            STN-MEP-PLD-AN-3241            STN-MEP-PLD-AN-3242            STN-MEP-PLD-AN-3243            STN-MEP-PLD-AN-3244</p>	<p>PLUMBING SYSTEM, FHC drain provided at platform level</p>
285.	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b>            STN-MEP-PLD-KP-3216            STN-MEP-PLD-KP-3224            STN-MEP-PLD-KP-3225            STN-MEP-PLD-KP-3235            STN-MEP-PLD-KP-3116</p>	<p>PLUMBING SYSTEM, Drain channel location in pump room updated</p>

**Annex "B"**

	<p><b>STN-MEP-PLD-KP-4105</b></p> <p><b>Anonas Drawings:</b>  <b>STN-MEP-PLD-AN-3233</b>  <b>STN-MEP-PLD-AN-3116</b>  <b>STN-MEP-PLD-AN-4105</b></p>	
286.	<p><b>Revised Drawing</b></p> <p><b>Katipunan Drawings:</b>  <b>STN-MEP-PLD-KP-3206</b>  <b>STN-MEP-PLD-KP-3226</b>  <b>STN-MEP-PLD-KP-3235</b>  <b>STN-MEP-PLD-KP-3215</b>  <b>STN-MEP-PLD-KP-3213</b>  <b>STN-MEP-PLD-KP-3212</b></p>	<p>PLUMBING SYSTEM, Drainage discharge pipe size updated</p>
287.	<p><b>Revised Drawing</b></p> <p><b>Anonas Drawings:</b>  <b>STN-MEP-PLD-AN-3211</b>  <b>STN-MEP-PLD-AN-3224</b></p>	<p>PLUMBING SYSTEM, 200mm wide drain channel in front of escalator &amp; escalator pit is deleted</p>
288.	<p><b>Revised Drawing</b></p> <p><b>CWD DRAWINGS:</b>  <b>STN-MEP-PLD-CWD-0100</b></p>	<p>PLUMBING SYSTEM, New Drawing Added</p>



**Annex "B"**

<p>289.</p>	<p><b>Revised Drawing</b></p> <p><b>CWD DRAWINGS:</b></p> <p><b>STN-MEP-PLD-CWD-1201</b></p>	<p>PLUMBING SYSTEM, Drainage System Typical Details</p>
<p>290.</p>	<p><b>Revised Drawing</b></p> <p><b>Anonas Drawings:</b></p> <p><b>STN-MEP-VAC-AN-5101-3</b>  <b>STN-MEP-VAC-AN-5102-2</b>  <b>STN-MEP-VAC-AN-5105-3</b>  <b>STN-MEP-VAC-AN-5106-2</b>  <b>STN-MEP-VAC-AN-3120-3</b>  <b>STN-MEP-VAC-AN-3130-3</b>  <b>STN-MEP-VAC-AN-3123-3</b>  <b>STN-MEP-VAC-AN-3133-3</b>  <b>STN-MEP-VAC-AN-3121-3124-2</b>  <b>STN-MEP-VAC-AN-3131-3134-2</b>  <b>STN-MEP-VAC-AN-3141-3144-2</b>  <b>STN-MEP-VAC-AN-3221-3224-2</b>  <b>STN-MEP-VAC-AN-3231-3234-2</b></p> <p><b>Katipunan Drawings:</b></p> <p><b>STN-MEP-VAC-KP-5101-3</b>  <b>STN-MEP-VAC-KP-5102-2</b></p>	<p>BOD added for all Duct Layouts  BOP added for all Chilled Water Piping Layouts  Update the schedule of WCC, ACC &amp; Pumps.  Update the AHU schedule.  Update the Indoor units &amp; Expansion Tank schedule.  Update the TVF Fans &amp; Damper schedule.  Update the Silencer schedule.  Update the ducting of toilet due to Architectural changes.  Architecture cut-out moved.  Add Door grill to garbage room.  Update the Cut out due to Architectural changes  Update the Cut out due to Architectural changes</p> <p>Update the drawing number.  Update the Condensate pipe detail.</p>

**Annex "B"**

<p>STN-MEP-VAC-KP-5104-2 STN-MEP-VAC-KP-5106-2 STN-MEP-VAC-KP-5108-1 STN-MEP-VAC-KP-3110-2 STN-MEP-VAC-KP-3120-2 STN-MEP-VAC-KP-3130-3 STN-MEP-VAC-KP-3112-2 STN-MEP-VAC-KP-3114-2 STN-MEP-VAC-KP-3123-2 STN-MEP-VAC-KP-3124-2 STN-MEP-VAC-KP-3132-3 STN-MEP-VAC-KP-3133-3 STN-MEP-VAC-KP-3112-3116-1 STN-MEP-VAC-KP-3122-3125-1 STN-MEP-VAC-KP-3131-3134-1 STN-MEP-VAC-KP-3212-3216-1 STN-MEP-VAC-KP-3222-3225-1</p> <p>CWD Drawings STN-MEP-VAC-CWD-1109-1 STN-MEP-VAC-CWD-1104-1</p>	
---	--

Schedule 3  
Provisional Sum

(PS1) Public Relations and Community Relations:

The Employer has the intention to hold events at site to foster public relations as well as to celebrate the achievement of certain construction milestones such as ground breaking and tunnel breaking. This Provisional Sum is for provision by the Contractor for venues, refreshments for attendees and any other requirement deemed necessary for such events.

(PS2) Fee of Dispute Board's Member and expenses, one-half of Employer's cost estimate of Dispute Board:

This Provisional Sum is for payment of the Employer's share of one-half of the remuneration and expenses of the Dispute Board (DB) pursuant to Sub-Clause 20.2 of the General Conditions. The Contractor's overheads and profit shall not be applicable for payment of DB's costs.

(PS3) Demolition of Structures and Obstruction and Protection, relocation, diversion and/or support and reinstatement of the utilities, if instructed by the Engineer as well as assistance for Right of Way (ROW) Access Acquisition:

This Provisional Sum is for payment for such pre-construction works which were not completed by the Employer before execution of the Contract as well as assistance to the Employer in acquisition of ROW access.

(PS4) DOTr Training

This Provisional Sum is for provision by the Contractor of training of Employer's personnel for the purpose of transfer of knowledge in relation to the Works outside the Philippines.

(PS5) GS137 Training

This Provisional Sum is for provision by the Contractor of training of personnel for operation and maintenance for the purpose of transfer of knowledge in relation to the Works outside the Philippines. The Contractor shall be reimbursed for cost of training materials and other direct costs incurred as a result of the training.

(PS6) Archaeological Monitoring

This Provisional Sum is for payment for any measures and/or works deemed to be necessary to be undertaken by the Contractor in accordance with an instruction by the Engineer upon discovering archaeological interest found on the Site.

(PS7) Project Management Information System (PMIS)/Common Data Environment

This Provisional Sum is to include licenses cost which is part of the Digital Engineering.

*General Bid Bulletin No.12*  
*Annex C*

METRO MANILA SUBWAY PROJECT PHASE 1  
 PACKAGE CP103 (Anonas and Katipunan)  
 Section IV Bidding Forms

BOQ-300

Item No.	Description	Amount	
		Foreign Currency	PHP
PS 1	Public Relations and Community Relations		15,000,000
PS 2	Fee of Dispute Board's Member and expenses, one-half of Employer's cost estimate of Dispute Board		50,000,000
PS 3	<u>Demolition of Structures and Obstruction and Protection, relocation, diversion and/or support and reinstatement of the utilities, if instructed by the Engineer as well as assistance for ROW Access Acquisition</u>		<u>310,000,000</u>
PS 4	DOTr Training		15,000,000
PS 5	GS137 Training		15,000,000
PS 6	Archaeological Monitoring		50,000,000
PS 7	Project Management Information System (PMIS) /Common Data Environment		20,000,000

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

Signature of Bidder \_\_\_\_\_ Date \_\_\_\_\_