Republic of the Philippines
Department of Budget and Management
PROCUREMENT SERVICE -
PHILIPPINE GOVERNMENT ELECTRONIC PROCUREMENT SYSTEM
BIDS AND AWARDS COMMITTEE

General Bid Bulletin No. 10
10 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.	Page BF-46 Form EQU: Equipment The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria, Clause 1.1.3. A separate....	The Clause number of Evaluation and Qualification Criteria in the Form ACK shall be Clause 1.1.2. Please clarify.	The Bidder's understanding is correct. Please replace "Clause 1.1.3" with "Clause 1.1.2" as underlined below: [The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria, Clause 1.1.2. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.]
2.	BDS-5 ITB 14.7	Bidder understands that 15% Branch Profit Remittance Tax (BPRT) shall be assumed by the Government of the Republic of the Philippines or through its executing agency. Is Bidder's understanding correct? *Branch Profit Remittance Tax (BPRT) Remittances by branches of foreign corporations in the Philippines to their head office are subject to 15% BPRT based on the total profits applied or earmarked for remittance.	Please refer to Sub clause 14.1 of Particular Condition.
3.	GBB No. 7 1 of 2 ITEM NO. 1 Replace Clause 8 of INVITATION FOR BIDS with the following:	Bidder would like to clarify if the Bid Security of JPY 600,000,000.- is correct. In the original bid documents stated that it is JPY 800,000,000.-.	The amount of Bid Security for CP103 is JPY 800,000,000.-

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	8. Bids must be delivered to the address above on or before 10:00am on 9 December 2021 and must be accompanied by a Bid security of Japanese Yen Six Hundred Million (JPY 600,000,000.-).		
4.	GBB No. 7 1 of 2 ITEM NO. 2 Bids and Awards Committee for CP103 Procurement Service PS Complex, RR Road Cristobal Street Paco, Manila 1007 Philippines	The Bidder would like to confirm if the address for the bid submission as well as the "Beneficiary" portion for the Bid Security (Bank Guarantee) in page BF-10 for the Bid Security is correct. If not, please provide the correct address and "Beneficiary" intended for CP103.	The "Beneficiary" portion in page BF-10 for the Bid Security is correct.
5.	Volume I Part 1, Section IV Bidding Forms (BF) BF-39 Bid Programme	The Bidder would like to request the Employer to kindly provide the assumed Commencement date to base the Bid Programme which is to be submitted in Tendering.	For Bid purposes, the target Commencement Date to be 1st December 2022
		Volume IA Bill of Quantities (BOQ)	
6.	BOQ-18 BOQ-28 Bill No.2 Station Civil Structure Works Earth Work Pay Item No. 2003(3), (4) Excavation (Rock)	According to the Boring data attached in the Tender document, it seems not only rock strata, but also common soil. On the other hand, according to the definition in the TS Civil Works (General), it mentioned such as the reference text on the left. Please clarify which BOQ item will be used if there	Common soil excavation of the station will be classified and will be added to the BOQ item.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Common Soil Excavation Volume II PART 2: WORKS REQUIREMENTS Section VI: Works Requirements Technical Specifications (TS) 1: Civil Works (General) Page 7 102.1.1 Site Excavation Rock Excavation. Rock excavation shall consist of igneous, sedimentary and metamorphic rock which cannot be excavated without blasting or the use of rippers, and all boulders or other detached stones each having a volume of 1 cubic meter or more as determined by physical measurements or visually by the Engineer.	are common soil excavation of the station civil structure earth work?	
7.	BOQ-273/Bill NO.7A BOQ-279/Bill NO.7B BOQ-284/Bill NO.7C Pay ITEM No. 101(1)	For proper preparation of the technical bid and commercial bid, please indicate in drawing/sketch the location / area of such existing structure / obstruction as provided in the BoQ items in question.	Contractor should estimate from Contractor's investigation.
8.	BOQ-15/Bill NO.2A BOQ-26/Bill NO.2B Pay ITEM No. 2001(1)	There are inconsistencies in unit between the Technical Specifications and the Bill of Quantities for the items in question. Please clarify unit of measurement for both Pay	The item description and unit for Pay Item 2001 (2) shown in Bills of Quantities is correct. The description and unit for Pay Item 2001 (2) shown in Sub-Clause 2001.4.2 of Technical Specifications shall be

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	2001(2) Unit of Measurement	Item Nos in question is to be "sqm".	read as follows. Description: Removal of Existing Concrete Curb at Sidewalk and Median Unit: l.m
9.	Vol. IA_Part 1 Bill of quantities BOQ adjustment	BOQ had provided. If we find some additional items, or different qtys, can we adjust BOQ? If your answer is NO, How can we consider ? Please advice	Please specify which item needs to be adjusted.
10.	BOQ-299/ Schedule 3: Provisional Sum ITEM No. (PS8) Provision of Assistance for Acquisition of Right of Way (ROW) Access	Please clarify what assistant work and/or service the Employer intends to require the Contractor under PS8 of the Provisional Sums.	PS 3 and PS 8 are combined. Refer to Annex B.
11.	Bill of Quantities Aluminum Corner Trim	At Bill of quantities, Pay item 1803(3)c Aluminum Corner Trim is indicated. May we assume that this item is same with Stair Nonslip, Aluminum Corner t=3.0 L-43x20mm indicated at drawing ref no:STN-AR-A-AN-1303,1400,9810?	Yes, pay item 1803 (3) c Aluminum Corner Trim is the Stair Nonslip, Aluminum Corner
12.	Bill of Quantities	At Bill of Quantities "Rubbed Concrete Finish" is indicated at Ceiling Works for Anonas and Katipunan Station, Please provide construction range since it cant be found in the drawings.	Rubbed concrete finish refers to Cement Plaster Finish, which is identified in pay item 1027 (5) and TS 1027. The application were the ceiling is noted as CLG-00 (no finish).
13.	Vol. IA_Part 1 Bill of quantities Discrepancy between TS, Plans and BOQ.	If there will be discrepancy between BOQ, Plans and Technical Specification, our order of precedence shall be: 1. Technical Specifications 2. Plans 3. BOQ	Please refer to GC sub-clause 1.5.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
		Please confirm if this is acceptable.	
14.	Pay Item 1811, 1203 and 1803 Ceiling Works & Wall Finishes	Please specify the location of the following items: a.b. 1811 (9) - Aluminum Composite Panel Cladding b. d. 1803 (3) b - Stainless Steel Plate	a. Please refer to drawing STN-AR-A-AN-9060 TYPICAL DETAILS OF CEILING AT ENTRY STRUCTURE, Detail-C regarding Aluminum Composite Panel cladding. b. Please refer to drawings STN-AR-A-AN-9130-9131 TYPICAL DETAILS OF LIFT SMOKE SHUTTER, material callout - 3, regarding stainless steel plate
15.	BOQ GBB # 8, Item No. 62	Based on the response for item No. 62 in GBB # 8, the Bidder's understaNding on the pay items are as follows: 1041 (1) a3 This is for the raised access floor assemblies including Anti- static vinyl tiles which is considered as FVF-01. Therefore, resilient Vinyl tiles on the raised floor will not be considered in pay item 1020(1) 1020 (1) This is for Vinyl Tiles considered as FVF-02 Please advise if the Bidder's understanding is correct	Pay item 1041 (1) a3 refers to Gypsum Board 118 mm (not raised access floor assembly). The pay item for raised access floor assembly is 1808. Yes, Pay item 1020 (1) refers to Vinyl floor tile only.
16.	REFRIGERANT PIPING SYSTEM "Allow for the provision " items AN Station Allowance for refrigerant trunking and fittings for mainline refrigerant piping , including all other necessary	Is it consider for installed ground level only ? Trunking PVC trunking ?	1. No, refrigerant piping as mentioned in BOQ item # 1213 (5) is a whole system approach as mentioned, "Allowance for refrigerant trunking and fittings for mainline refrigerant piping , including all other necessary accessories to complete the system". 2. No, refrigerant piping as mentioned in BOQ item #

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	accessories to complete the system		1213 (3) Copper (Cu) pipes and fittings, type L, hard drawn, including freon charging , jointing in accordance with designer's specification".
17.	CONDENSER WATER SYSTEM "Allow for the provision " items AN Station Make-up Water tank including all necessary pipeworks and ancillaries and as shown in schematic diagram.	Indicated only CHW Schematic Diagram. Not indicated in layout DWG and Not mentioned tank size.	Contractor is advise to refer to STN-MEP-PLD-AN-2102 (Water Supply System Schematic Diagram Sheet-2) for Make-up water tank capacity.
18.	REFRIGERANT PIPING SYSTEM "Allow for the provision " items KP Station Allowance for refrigerant trunking and fittings for mainline refrigerant piping , including all other necessary accessories to complete the system	Is it consider for installed ground level only ? Trunking PVC trunking ?	1. No, refrigerant piping as mentioned in BOQ item # 1213 (5) is a whole system approach as mentioned, "Allowance for refrigerant trunking and fittings for mainline refrigerant piping , including all other necessary accessories to complete the system". 2. No, refrigerant piping as mentioned in BOQ item # 1213 (3) Copper (Cu) pipes and fittings, type L, hard drawn, including freon charging , jointing in accordance with designer's specification".
19.	CONDENSER WATER SYSTEM "Allow for the provision " items KP Station Make-up Water tank including all necessary pipeworks and ancillaries and as shown in schematic diagram.	Indicated only CHW Schematic Diagram. Not indicated in layout DWG and Not mentioned tank size.	Contractor is advise to refer to STN-MEP-PLD-KP-2103 (Water Supply System Schematic Diagram Sheet-3) for Make-up water tank capacity.
20.	BOQ-134 1109(4) 20mm diameter x 3000mm	It is indicated "By Civil Contractor".	The bidder shall refer to Pay Item 1109 (5) as stated in the Technical specification 1109.4.2 Basis of Payment

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	long ground rod In the QUANTITY Column: "By Civil Contractor"	The Bidder would like to clarify what number and pay item numbers for the 20mm diameter x 3000mm long ground rod.	
21.	Section VI (BOQ) BOQ-133 to 134 1109(3), 1109(4) 400mm2 Copper Strip By Civil Contractor, and 20mm diameter x 3000mm long ground rod By Civil Contractor	The Bidder could not find those two items in Civil work BOQ. The Bidder would like to clarify what pay item number shall use and kindly provide quantity.	The bidder shall refer to Pay Item 1109 (5) as stated in the Technical specification 1109.4.2 Basis of Payment
22.	BOQ-46, 58 Part D1 Aluminum Windows: Laminated glass – 12mm, 1012 (9) a2	The Bidder would like to request the Employer to provide information on which drawings should read for these items.	Please refer to drawings STN-AR-A-AN-5209-5212 ANONAS STATION TICKET SALES ROOM and ENLARGE CUSTOMER SERVICE AREA PLANS & SECTIONS for GL-03 12 mm thk. laminated glass.
23.	Part 1 Section VI (BOQ) BOQ-47, 59 Part D1 Masonry Works: CHB Load Bearing (including Reinforcing Steel) 150mm, 1046 (1) a2 This BOQ item is Block-03 : 150mm thick concrete hollow block work in the plan drawings and Detail 3 in Drg. No. STN-AR-A-9001. On the other hand, the structural block work top details are specified in Drg. No. STA-S-AN-3010.	The Bidder would like to clarify which details should be followed.	Follow the structural drawing detail STA-S-AN-3010

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
24.	Volume IA Part 1 Section VI (BOQ) Volume III Part 2 Section VI MEP Drawings: Anonas Station, MEP Drawings: Katipunan Station BOQ -47, 59 Part D1 Masonry Works: CHB Load Bearing (including Reinforcing Steel) 150mm, 1046 (1) a2	Shear dowel bars between internal structural CHB wall and slab as shown on Drg. No. STA-S-AN-3010 are measured whether or not in 902 (1) a1 or measured to include in 1046 (1) a2 ? The Bidder would like request to provide information about this.	Shear dowel is included in pay item 1046 (1) a2. Such costs are considered incidental to the wall construction and should be included in the unit price for such wall construction. The construction shall comply with the relevant requirements of the Philippine Building Codes.
25.	Volume IA Part 1 Section VI (BOQ) Volume III Part 2 Section VI MEP Drawings: Anonas Station, MEP Drawings: Katipunan Station BOQ -47, 59 Part D1 Masonry Works: CHB Load Bearing (including Reinforcing Steel) 150mm, 1046 (1) a2	300mm high concrete up stand with starter bars shown on Drg. No. STN-AR-A-AN-9001 Detail 3 is measured in this item. Please confirm. The Bidder would like to clarify that these items will be measured, kindly advise.	Yes. Such costs are considered incidental to the wall construction and should be included in the unit price for such wall construction. The construction shall comply with the relevant requirements of the Philippine Building Codes.
26.	Bill No. 1 General Requirements	The bidder understands that in case of Time Extension of construction period is approved after	If the Contractor considers himself to be entitled to any additional payment, the Contractor shall submit relevant

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		award, time related cost such as "Pay Item No. G104 Contractor's Temporary Facilities", "Pay Item No. G108 Site Offices For the Engineer", and "Pay Item No. G114 Traffic Management", but not limited to, shall be compensated based on proration of the number of days/months of such extension. Is the bidder's understanding correct?	claim statements with due justification and substantiation for the Engineer's review and determination.
27.	Pay Item Nos. 1109(3), 1109(4)	In BOQ, the quantities for Pay Item Nos. 1109(3) and 1109(4) were indicated as "by Civil Contractor". Please confirm whether these items are scope of CP103 Contractor or not. If yes, kindly provide the bid quantities.	1. Yes. The bidder shall refer to Pay Item 1109 (5) as stated in the Technical specification 1109.4.2 Basis of Payment. 2. Bid quantities are to taken off from the bid drawings.
28.	VolumeIA Part 1 Section VI (BOQ) BOQ-168 BOQ-259 Tunnel Drainage System Allowance for provision of the following Tunnel drainage system pumps including, pipes fittings, valves, pumps and all other necessary accessories to complete the system.	The Bidder would like to request to the Employer to provide detail design drawings and Pay item No.	Please refer STN-MEP-PLD-TUN7-0101
29.	Volume IA Part 1 Bill of Quantities (BOQ) Architectural Works (Mock-up) Bill of Quantities Items C01.3.1 to C01.3.6	The Bidder understands that the items to be mocked-up at required locations are the same items which will be used for permanent finishing in those locations. Please confirm whether our understanding is correct or not. If the mock-up items are acceptable to the Engineer and comply with the Contract	No. Please refer to TS C01.3.5 (v) Except where otherwise consented to by the Engineer in advance, no mock-up shall be built on the construction Site. They shall be built in the specialist testing laboratories or other places convenient for the testing or inspection and agreed to by the Engineer.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
		requirements, we understand that these mock-up items will not be removed and will become parts of the permanent works (working mock-up). Please confirm whether our understanding is correct or not.	
30.	Volume 1A Part I Bill of Quantities (BOQ) BOQ-301 Source of index LF*1 EF*2 EM*3 *1: Consumer Price Indexes published by the Statistics Bureau of Japan. *2: Consumer Price Indexes published by the Statistics Bureau of Japan. *3: Consumer Price Indexes published by the Statistics Bureau of Japan.	In the Consumer Price Index (CPI) by Statistics Bureau of Japan, there is no category/item which identifies as Labour, Construction Equipment, or Construction Material. Therefore, the Bidder would like to use Kensetsu Bukka for the indices of Labour, Equipment, and Materials. Considering above situation, please allow Bidders to use Kensetsu Bukka as a source of index.	The Employer is ready to evaluate the following additional source of index: Labor : Monthly Wage Index (Table 1) for Fixed Salary of All Industries (over 30 employees) published by Ministry of Health, Labour and Welfare. Equipment: (1) Services Producer Price Index published by the Bank of Japan. (2) Monthly Report on Construction Price Index published by Construction Research Institute Material : Monthly Report on Construction Price Index published by Construction Research Institute
		Volume II Works Requirements Section VI Works Requirements – General Specification (GS)	
31.	2.1 Right of Access to the Site 8.1 Commencement of Works Land Acquisition	We would like to ask you to provide us with the current situation of the land acquisition for this contract package.	We cannot reply to the current land acquisition status. This is not related to tender estimation
32.	APP 4-26/ 2.1 Tunneling; Civil CONTRACTOR'S INTERFACE COORDINATION	We understand: (i) CP104 Contractor, instead of CP103 as stated, will provide design information of diaphragm wall at the north end of Ortigags North Station box for	1) "Ortigas North STA. North side D-wall" drawing shall be provided. 2) "East Ave. STA. South side D-wall" drawing shall be

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	WITH OTHERS Remarks No.5 TBM contractor (CP103) to provide requirements for work area. CP103 to provide design information of diaphragm wall at the north end of Ortigags North Station box for TBM contractor (CP103). CP104 to supply work area and the access only.	TBM contractor (CP103); (ii) CP102 Contractor will provide design information of diaphragm wall at the south end of East Avenue Station box for TBM contractor (CP103); and (iii) the last sentence "CP104 to supply work area and the access only" is to be deleted. Please clarify our understanding stated above is correct.	provided. 3) "CP104 to supply work area and the access only" If it is deleted, CP103 Contractor shall not be able to work in CP104 temporary work area, is this fine for CP103 contractor?
33.	Vol. II , Sec.VI General Specification ; Appendix 4 Contractor's Interface Coordination with Others Interface Coordination Contractor's Interface	We checked the issued drawings and specifications to use in estimating the items listed per Vol. II Sec VI GS Appendix 4 - (2.2 Tunneling, Civil,E&M Railways Systems and Rolling Stocks) Nos. 3 to 5, 7,10, 14,17 and 19 . And also under Appendix 4 - (2.3 Stations and Substations) no. 11 We could not find related drawings and specification. Please let us know the portion if items are reflected. Please issue the drawings and specifications if items are reflected. Please let us know the contact information so that we can contact the person in charge of CP106 If it is not allowed.	Please plan based on Volume II PART 2 WORKS REQUIREMENTS Section VI Works Requirements General Specifications (GS)126 INTERFACE MANAGEMENT, COORDINATION
34.	GS 116.4 Factory Acceptance Tests	Please specify, FAT required ACMV equipments.	Please follow and refer GS 116.4 Factory Acceptance

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	(a) Electrical/Mechanical (i) Major components of ventilation, air conditioning, AHN, and smoke exhaust system	We had found under TS spec, .1128 Motorized Smoke and Fire Dampers(TVS)_Factory Damper Tests only.	Tests Clause 116.4.1 Requirement for FAT item a (1)
35.	Design responsibility Re-measurement contract	Design review after award contract is our scope of work ? If answer is Yes, we can consider under re-measurement items that Qty, size, spec has been changed due to design review.	No, design review is not part of the Contractor scope. Design responsibility of the Contractor is limited to the temporary works as explained in General Specifications clause 110.3 Temporary Works Design.
36.	App 8-48 Appendix 8 – Annex 1 1.6 BIM Uses Attachmen to General Bid Bulletin No.8, Annex A, item No.28	Regarding the attachment to General Bid Bulletin No.8, the sentences in the header shall be as follows. General Bid Bulletin No. 8 Attachment METRO MANILA SUBWAY PROJECT PHASE 1 PACKAGE CP103 (Anonas and Katipunan) Please clarify.	Bidder's understanding is correct.
37.	Volume II Part 2 General Specifications (GS) Page 139 130.2 Insurances, and Volume IV Part 3 Section VIII – Particular Conditions (PC)	Bidder understands that the Design Work is the Employer's responsibility. Hence the followings shall be deleted: (g) Professional Indemnity Insurance (where applicable), and 6. Professional Indemnity Insurance The minimum limit of US$25 million is required	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.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	Page – PC-13 Attachment-4 To Part A Schedule of Insurances	and it shall cover and be maintained until 2 years after the expiry of the Defects Notification Period. Is our understanding correct?	
38.	Volume II Part 2 Section VI General Specifications (GS) APPENDIX 4 APP 4-25 Appendix 4 Contractor's Interface Coordination with Others 1. General In regard to interfaces that cannot be identified due to the absence of Interface Contractor, the Contractor shall include them in the Interface Management Plan provided by the Employer or the Engineer.	The Bidder cannot provide proper cost for the interface works that cannot be identified due to the absence of Interface Contractor and not specified in Appendix 4 GS 100. The Bidder understands that after the Employer, Engineer or Interface Contractor, provide the newly identified interface work requirement, the Bidder will provide proposal based on the newly identified interface work. Interface works which are not identified due to absence of Interface Contractor and not consider in Appendix 4 will not be included in the Lumpsum G126 (1) pay item. Is our understanding correct?	The Bidder shall price the relevant BOQ Item, thinking into consideration relevant provisions of the Contract including the Appendix 4 to the General Specifications.
39.	Volume II Part 2 Section VI General Specifications (GS) GS 126 Page 128 GS 126 Interface Management, Coordination and Communication	The Bidder cannot provide proper cost for interface works which design scope is under other Contractor (CP 102, 104, 105, 106) or Interface Contractors. The Bidder understands that after the Interface Contractors provide their design requirement in the interface work, the Bidder will provide proposal based on the designed requirement by	The Bidder shall price the relevant BOQ Item, thinking into consideration relevant provisions of the Contract including the Appendix 4 to the General Specifications.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	126.9 Measurement and Payment Costs required for the performance by the Contractor of the Interface Coordination activities detailed in Appendix 4.	Interface Contractor. Is our understanding correct?	
		Volume II Works Requirements Section VI Works Requirements – Technical Specification (TS)	
40.	TVS modes/sequence of operation	Tunnel Ventilation System. Please provide details of the operation modes/ sequence for TVS equipments during each scenarios (normal, congested, fire emergency) , and calculation sheets (volume flow, static pressure, noise). These details will be used in planning the T&C procedure.	To be issued in the future GBB.
41.	Page 153/ Item 2013.5.1 3) Drainage and Water Measurement for Creek Box Culvert	Please clarify 1) Inner dimensions (height and width) of existing creek 2) Maximum water level of existing creek 3) Maximum water flow rate (m3/sec) of existing creek 4) Bottom level of existing creek 5) Longitudinal garadient of existing creek (%) The above info is needed for Creek diversion plan.	Please plan according to Volume II PART 2 WORKS REQUIREMENTS Section VI Works Requirements Technical Specifications (TS)2013 Drainage and Water 2013.2 Surface Drainage
42.	(WR)_4(TS_MEP)_1Mar2021 Part 12 Mech	Reference to MEP technical specification, the walls and ceiling of AHU and Chiller rooms shall	Acoustic treatment of 85 db required for outdoor chiller area as per MEP TS. Noise barrier panels to be

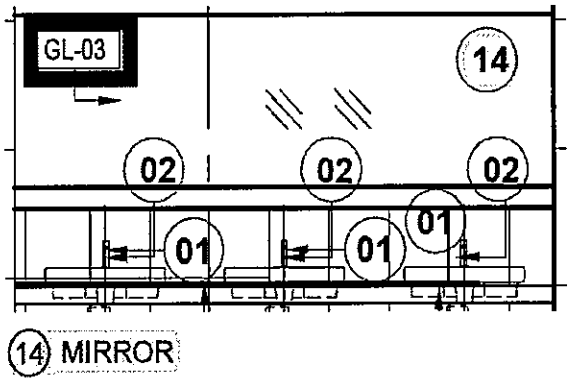
Metro Manila Subway Project Phase 1
PACKAGE CP103 (Anonas and Katipunan)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	TS 1223 1223 Acoustic Treatment and Vibration Control 1223.2.1 Technical Requirements 11. Acoustic Lining / Treatment of Equipment Room	be provided with acoustic treatment as specified. Please advise if architectural finishing for outdoor chiller area walls at ground floor of Anonas and Katipunan stations require acoustic treatment as per MEP technical specification	considered as per architectural drawing 9241.
43.	1027.2.1 Metal Lath 2)Type PLS- 01 Smooth Plaster Cement Finish	Which room/areas require metal lath?	Metal lath is to receive cement plaster finish (PLS-01) to act as backing for ceramic tile cladding. It is located in unpaid areas at top of box level (transition between concourse and entrance). Refer drawing, STN-AR/KP-A-AN-1700
44.	TS 1027.2.3 Item 3)a Stainless steel rib lath shall be fixed to the entire face of the wall/soffit. TS 1040.2.1 Item 1)a a) Expanded Lath: ASTM C847, galvanized except as modified by ASTM C1063 and this specification. Self-furring where applied over solid backing. 1040.2.3 TS 1040.2.3 Materials: Flat diamond mesh for interior and exterior vertical surfaces. Galvanized G60 steel expanded metal lath.	The Bidder understand that for i) Internal plaster shall use Galvanized metal lath ii) External plaster shall use Stainless Steel metal lath. Please advise if the Bidder's understanding is correct	Yes, Internal plaster shall use galvanized metal lath and external plaster shall use Stainless Steel metal lath.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Expanded metal lathing for External Render & Internal Render		
45.	1027.2.3 Beads TS 1027.2.3 All beads to internal plaster shall be of galvanized mild steel to suit plaster thickness	In TS specification, the internal beads to internal plaster shall be of galvanized mild steel. However, the drawing (Ref. Dwg. No. STN-SR-A-KP/AN-9150) indicated plastic corner, 1mm thk. Please advise which material prevails.	Please follow tech specs section 1027.2.3.1.b All beads to internal plaster shall be of galvanized mild steel to suit plaster thickness
46.	1046.2.3 Truss or ladder type 3) Reinforcement d)Cavity Wall: Truss or ladder type with moisture drip. Galvanized steel construction with 4.8-millimeter diameter side rods.	Please provide us details of truss or ladder type and which blockwalls are designated as cavity wall.	Requirement of truss or ladder type is not required. Please follow structural drawing STN-AR-S-AN-3010 for typical detail of concrete blocks for horizontal and vertical reinforcement
47.	1031.2.3 GWW-01 GWW-01 Glass Wool Acoustic Panel:	1. Please specify the density of materials to be considered. 2. Please provide more information on "Resilient co-polymer face sheet" 3. Can we use fabric sheet for the face sheet instead of Resilient co-polymer face sheet?	1. Glass wool 50mm thick of density 32 kg/m^3 for acoustic lining as per MEP TS section 1223.2.1.11 2. "Resilient co-polymer face sheet" shall be as per manufacturer recommendation in line with TS section 1031..3.3.2.a 3. No, 'Substitution is not permitted' as per TS section

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			1031.2.4.2
48.	Page 162 - Clause 1002.6.5 & Page 243 STN-AR-A-KP-0201 and STN-AR-A-AN-0201 STN-AR-A-AN-5103 Mirror Vanity Mirror at Toilets	Please confirm the thickness of Vanity Mirror. In TS page 162, Mirror nominal Thickness is 6mm as well as in TS page 243 but in the Drawing Summary of Specification STN-AR-A-KP-0201 and STN-AR-A-AN-0201 it is 4mm thk. MIRROR | 4MM THICK GLASS Please confirm the glass type of Vanity Mirror at Toilets. In STN-AR-A-AN-5103 it is GL-03 but in the TS Specification page 243 says "Mirror glass shall be selected float glass suitable for silvering and a minimum q^2 quality in accordance with ASTM C1036." 	Follow 6.0mm mirror thickness as indicated in Technical Specifications 1012.2.4 (f) Follow 'mirror' as indicated in Technical Specifications 1012.2.4 (f)
49.	TS Page 689 -691 Clause 1817.2.2	Please confirm if Performance Requirements is required or not. "Air-infiltration Test,	Test Procedures and Performance are required as per TS section 1817.2.2 (2)

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Stainless Steel Windows Performance Requirements	water-resistance Test, Uniform Load Deflection test, Uniform Load structural test, condensation-resistance test, thermal transmittance test and life cycle test" considering it is Stainless Steel Fixed Windows (Not Operable type) Refer to STN-AR-A-AN-7022 fand STN-AR-A-KP for the Schedule and Elevation.	
50.	TS Page 691-611. Claue 1817.2.3 Stainless Steel Windows Materials	Please confirm if Thermal Barrier, Weather-Stripping, Closers, Swing, HoldOpen, Positive Dead Stop, Delayed-Action Closing, Push-pull, Locksets, Threshold is required, considering it is Stainless Steel Fixed Windows (Not Operable type) Refer to STN-AR-A-AN-7022 fand STN-AR-A-KP for the Schedule and Elevation.	Below items required for stainless steel fixed windows: - Thermal barrier - Weather stripping - Threshold
51.	TS Page 242 Fire Rated Laminated Glass Laminated with Nanotechnology based	Lamination of Fire Rated Glass are to be laminated with nanotechnology-based (not gel-based) intumescent interlayer" The Bidder understands that the nanotechnology is a type of coating for the glass to achieve self cleaning function and not part of the lamination process. Please advise if the Bidder's understanding is correct.	No. Laminated with nanotechnology is to achieve fire resistance rating and not for self cleaning function.
52.	Metal Louvers Internal Louvers	The bidder understand that all internal louvers (aluminium or steel) are to be single bank louvers. Please advise as single bank louvers are not storm proof	Yes. Single bank louvers are not storm proof.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
53.	TS 1032.1 Protective Coatings (Anti-Graffiti Coating) The works in this section shall consist of the manufacture/supply, delivery and installation onsite of anti-graffiti coating.	Please clarify which areas require anti-graffiti coating.	All public areas with painted wall finish are required to have anti-graffiti coating.
54.	Page 237 and 689 Drwg. No. STN-AR-A-AN-7022, STN-AR-A-KP-7022 GL-06. SINGLE GLAZED OR DOUBLE GLAZED?	There is a discrepancy between the drawings and the Specifications of the glass of Stainless Steel Windows. Specification 1817.2.1.item 2a), SS windows are mentioned to be double glazed. However Specifiication TS 1012.2.1 (1f) page 237 does not mention if GL 6 are to be double glazed. Drawing no. STN0AR-A-KP-7021 and AN-7022 respectively shows that glass are is single glazed/ Please advise if we can follow single glazed glass for GL-6	Drawings (STN0AR-A-KP-7021 and AN-7022) are not detailed and does not mention single glazed anywhere. Please follow double glazed windows as per Specification 1817.2.1.item 2a)
55.	TS Architectural - 1018.6.1 Item 14 Page 302 In-Laid Granite Finish for In-Laid Granite	As per specification, finish for In-laid Granite Stone Directional Symbol is JET POLISHED, but JET is different from POLISHED, so we just need to choose either JET or POLISHED. Please clarify.	The waterjet finish to be applied for tactiles (In-laid granite stone directional symbol with metal trim.)

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
56.	TS Architectural – 1031 Glass Wool Acoustic Panel Performance Requirement	Although the manufacturer for the Glass wool (GWW-01) product is not mentioned, it appears that the specification seems to be similar to the product "Metro Rebound" which is manufactured by Acoustical Surfaces Inc. The specification seem to indicate that this product is more suited for areas which are visible such as hotels, gymnasium and multipurpose rooms. Therefore, since the GWW -01 are to be installed in the machines room, which are not visible to the public, does this product require such a high performance specification?	Follow performance requirement indicated in TS 1031 for bidding purposes.
57.	(TS) Architecture WPS-02 Elastomeric Waterproofing	At Technical Specifications, WPS-02 Elastomeric Waterproofing is indicated to be applied at Concourse level and Platform level but its specific location at the drawings are not clear. Please provide demarcation for the application of WPS-02 Elastomeric Waterproofing for Concourse level and Platform level.	WPS-02 (Elastomeric water proofing) is applied in roofs and parapet only. Refer to drawings STN-AR-A-AN-9170 - details A & B, STN-AR-A-AN-9180 - detail A, STN-AR-A-AN-9230 - detail A.
58.	Vol. II , Sec.VI Technical Specification Changes in Design contract documents	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.	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.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
59.	Section VI (TS) 3. Mechanical, Electrical and Plumbing, 396 to 398 9) Coating (i) The salt spray coating shall adhere to the following specifications.	The Bidder would like to request the Employer to provide more clearer table specification.	Please see Attachment A1 extracted from Employer's Requirement Section VI of Work Requirements; Technical Specification; clause 1213.2.1(9) Coating page 406
60.	Volume II, Section VI Technical Specifications (TS) 3: Mechanical, Electrical and Plumbing Page 10 Tunnel Ventilation System (a) TVS System maintains the required temperature condition during normal (Piston Effect) and congested conditions and ensures smoke management in tunnel and station track areas during fire conditions. (b) The specific objectives of the TVS design analysis have been as follows: (i) Identify environmental conditions in the tunnel during normal, congestion and fire emergency operations. (ii) Develop and confirm the functional	The Bidder would like to clarify the SES scenario had been completed by designer and/or other packages, CP103 is not require to execute SES scenario.	During the construction stage, the Contractor performs SES/CFD. The contractor will demonstrate through SES that the proposed equipment for the tunnel ventilation system is adequate to perform satisfactorily and to assess tunnel ventilation requirements. **The subway environmental simulation** (SES) program is a comprehensive software created for transit design application. Tunnel ventilation modelling (1D simulation) is mandatory to predict temperature, pressure and airflow response of the system under all operating modes (normal operation, congested mode and fire emergencies in tunnels). **Computational Fluid Dynamics (CFD)** is a software for air turbulence model (3D simulation) used to predict velocity field and temperature field at the station under some reasonable presumptions in the

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	requirements for the tunnel ventilation system and equipment (such as fan duties). (iii) Confirm operating scenarios for normal, congestion and fire emergency modes.		investigation and study of fire scenarios at stations.
61.	Volume II Part 2 Works Requirements Section VI Technical Specifications (TS) 4: Underground Structures Page 172 2100.4.10 Tests 4) Segment Tests Also, the Contractor shall provide one specimen per test.	The Bidder would like to clarify if each test method for the Segments shall require only 1 segment per test? Can the contractor proposed quantity of segment to be tested based on its Quality Control Plan & other International Standard?	Numbers of segment for testing are not limited . However, contractor shall submit inspection and test plan for Engineer's approval prior to your work. Test method shall be based on stated codes and standards. If contractor wants to implement international standard, contractor shall seek from DOTr's approval as stated in Employer's Requirements – General (ERG) Clause 2.4 & 2.5.
62.	Volume II Part 2 Section VI Technical Specifications (TS) 3. Mechanical, Electrical and Plumbing Page 77 to 79 1113 Low Voltage Switchgear/Panelboards 1113.2 Products 1113.2.1 General 1113.2.2 Panel Construction (a) The main switchboards shall be metal-enclosed indoor type, factory	As per Technical Specifications (TS) of MEP – The Bidder would like to clarify if its understanding is correct: 1. Only MDB with ACB Main breaker are by definition consider as Switchboard. Therefore, Type Tested, with Certified True Copies of full type-test report is required. 2. Only MCC Panels are required to be IP54 enclosure. 3. Other Panel not stated on 1 and 2 will be IP 42	1. Main Switchboard refers with the MDBs, as mentioned with the TS section 1113.1.2 shown in Item nos. a, d; the testing required shall be for all the switchboards, i.e. - 1. 1. DBs, SMDBs, and MDBs; 2. Yes, MCCs are clearly stated to be IP54 based on Technical Specification 1113.2.2 3. Yes, your understanding is correct.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	assembled structure containing draw-out circuit breakers, moulded case circuit breakers and other accessories. The main switchboard shall be fully compartmentalized. Barriers shall be provided between incoming sections, main bus, breakers, feeder breaker terminals and instrumentation sections. (d) The main switchboards shall be vermin proof with ventilation louvres complete with insect netting at the back and sides of the switchboards and the finished assembly shall conform to NEMA 4 enclosure type. Anti-condensation heaters with indication lamps shall be provided in each compartment. The anti-condensation heating elements shall be suitable for connection to the main electricity supply (220V AC). The heater shall be thermostatically controlled and easily accessible for maintenance and replacement.	Panel Form 3b and Type as per local practice and should follow TS 1113.2.2 (p)	

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	(h) All MCCs shall be complied with IP54 enclosure because same shall be placed inside the plant room. Remaining all panels shall be IP 42 enclosure as per local practice in Philippine. (i) Panel Form and Type shall be 3B & Type II as per local Philippine practice. (p) Distribution Boards (i) The distribution board enclosure (panels/doors) shall be made of electro-galvanized steel sheets (minimum thickness 2 mm) and finished with epoxy-powder coating (minimum 60 micron) colour to the Engineer's acceptance. The enclosure shall be completed with hinged doors and to be provided with standardized key lock and 3 sets of keys shall be provided for each distribution board. The DBs' doors opening shall be coordinated on Site. All DB doors shall be provided with separate latches in addition to the door locks.		
63.	Volume II Part 2	Tunnel and Station Fire hydrant, electrical and drainage has specification requirement in the Civil	For tunnel electrical: 1. The bidder must follow both the TS of CIVIL and the 1.

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

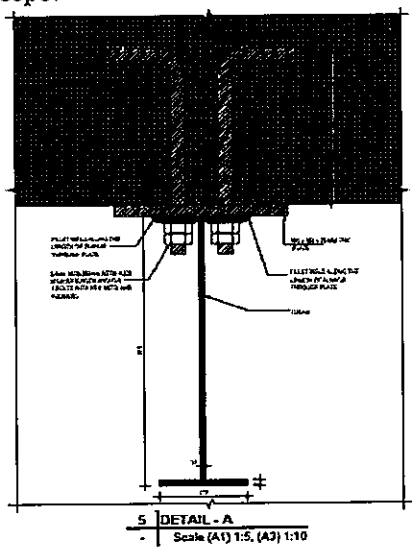
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Section VI Technical Specifications (TS) 1. Civil Works (General) and 3. Mechanical, Electrical and Plumbing Volume IA Part 1 Bidding Procedures Bill of Quantities (BOQ) Both Civil works specification and MEP specification indicated same or similar CONTENTS. However, the detail requirements do not correlate with each other, Bidder does not understand which specification to follow.	TS and MEP TS. The Bidder would like to confirm that the specification to be followed is MEP of TS as it has the BOQ pay item number.	1. TS of MEP of which both contained mandatory and basic electrical specifications. 2. During contractor submittal stages, the contractor shall provide compliance statement for both. 3. For Tunnel drainage and fire hydrant/hose valve: To avoid confusion, the contractor is reminded that Tunnel drainage is under Civil scope of work, while Tunnel fire hydrant (hose valve) is under MEP scope of work. Refer to technical drawing STN-MEP-PLD-KP-2201 for demarcation reference.
64.	Volume II Part 2 Technical Specifications (TS) 4: Underground Structures Page 73 Table 2007.2.2 Concrete Exposure Category	In table 2007.2.2, the maximum concrete temperature for Class C concrete was specified at 27 deg C while 32 deg C for other concrete classes. Considering the tropical weather in the country, the Bidder would like to request that maximum temperature of all fresh concrete shall be regulated at 32 deg C max, including Class C concrete.	Maximum temperature of all fresh concrete shall be regulated at 32 deg C max, including Class C concrete. However, the contractor shall propose a lower temperature if necessary.
65.	1822 QUARTZ COUNTERTOP Color Range	We would like to clarify for the color range requirement for the Quartz Countertop and Ledges for pricing purposes. Whether - Black-granite look or white - marble look? Please confirm.	Color range not required for bidding purpose. Product color type will be approved by Engineer as per TS section 1822.2.1
66.	Vol. II , Sec.VI Technical Specification	Please verify our understanding that Contractor's	1. No, the contractor shall provide a shop drawing base

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

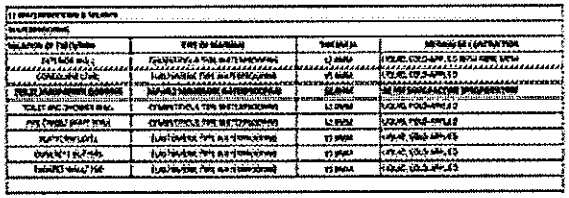
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Design Scope	MEP Design related works are only the following items : 1. For Tunnel lighting ; create a scenario based on the lux level per TS (implying to design work) in reference to Item No.81 of GBB No. 8 2. For Tunnel Ventilation System ; presentation 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	with the lux level, of which a contractual obligation (norms and railway standards), to arrive with the desired quantities. 2. The contractor understanding is Not correct, the MEP Design related works (drawing, calculation, simulation) is not confined to the Tunnel Ventilation System only. All related MEP Design related work more specifically in Mechanical Design related works are clearly stipulated in the Technical Specification. An example of which is in Section 1202.1.5 of the Technical Specification.
67.	In TS 1225.1 Outline of Work (f): The complete testing and commissioning works shall be carried out by an independent commissioning specialist contractor, sub-contracted to the Contractor shall submit details of independent commissioning Sub Contractor to Engineer for approval prior to employing Sub Contractor. In TS 2322 Field Inspection and Acceptance Tests: The testing firm shall not be a subsidiary, division, nor department of either the installing Contractor or the manufacturer of the equipment materials or systems being inspected	In this requirement, some special equipment such as Air-Cooled Chiller, Water-Cooled Chiller, Elevator, Escalator, Fire Pump, TVF and Low Voltage Switchgear/Panelboards complies with particular international standard which already been verified. In addition, testing and commissioning of equipment are handled and supervised by Manufacturer Representative to retain its warranty. Testing and Commissioning cannot be done by 3rd Party, as it will void Manufacturer warranty. 3rd party Inspector maybe allowed as witnessed representative only. The Bidder would like to confirm, specifically what particular Mechanical or Electrical system that is needed a 3rd party witnessed testing and commissioning.	The contractor is advice to check and see the Technical Specification, because the role of the third party is clearly stipulated in the said document. For 3rd party witness testing and commissioning on mechanical system, please see an example of system below: 1. Fire Fighting System, 2. Water Pumping System, Water Supply and Pipe Works, 3. Package Type Sewer Treatment Plant, 4. Elevator & Escalator System, 5. VAC System Control and 6. Cooling Towers. For Electrical the required 3rd party and/or testing agency are for , BMS and LV power cables; As per TS 2322, field inspection is confirmed and all tests required under this Part #23 are to be carried out and

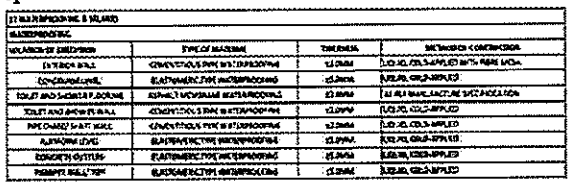
Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	and tested.		performed by testing firms.
68.	PART 2: WORKS REQUIREMENTS Section VI: Works Requirements Technical Specifications (TS) 1: Civil Works (General), Part 104.3.3.2 Earth	Compacted material in accordance with AASHTO T 191, T 205, or other approved field density tests, including the use of properly calibrated nuclear testing devices. Please confirm that contractor can propose a method for Field Density Test (FDT)	Contractor is allowed to propose alternative method as per our project specification and Philippine Authority Regulations prior to execution of work for The Engineer's consent and acceptance.
69.	PART 2: WORKS REQUIREMENTS Section VI: Works Requirements Technical Specifications (TS) 4: Underground Structures, Part 2003.3 Backfilling	Each compacted layer shall be subjected to in-situ density test using Nuclear Densometer in accordance to AASHTO T 310. Please confirm that contractor can propose a method for Field Density Test (FDT)	Contractor is allowed to propose alternative method as per our project specification and Philippine Authority Regulations prior to execution of work for The Engineer's consent and acceptance.
	Volume III Part2: Works Requirements ***Works Requirements – Employer's Drawings (DRW)***		
70.	8_CP103_P2_S(VI)_(WR)_6(ED)_3M ar2021_05_Civil_KP/ DRG No.: DRG No. STN-AR-A-KP-0600 Katipunan Station Entrance 4	Entrance-4 (Military Entrance) is located out of ROW. Please clarify the Employer will provide a special and/or temporary rights-of-way which are necessary for the Works at the Entrance-4 in accordance with CC 4.13 of the Conditions of Contract.	To be amended.
71.	Foundation Finish	At RC Roof, may we assume the finish of all Foundation to be WPS-02 (Elastomeric Fluid Applied Cold Membrane Waterproofing)?	Pls refer below drawings for your query. 1. WATERPROOFING GENERAL DRAWING : SHEET 1/3 GN-CE-CD-0019 2. WATERPROOFING GENERAL DRAWING : SHEET 2/3 GN-CE-CD-0020 3. WATERPROOFING GENERAL DRAWING : SHEET 3/3 GN-CE-CD-0021
72.	14 / Arch_AN / STN-AR-A-AN-9412,9413, 15 /	At STN-AR-A-AN-9412,9413, KP-9412,9413 TYPICAL DETAILS OF I BEAM FOR EQUIPMENT	No, its under architectural scope of works. Please refer to pay item 1047 (15) Hoist Crane Beam Assembly and

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Arch_KP / STN-AR-A-KP-9412,9413 I-Beam	INSTALLATION (01 OF 02), may we assume I-Beam for Equipment to be under Civil Works scope? 	Anchoring System and TS 1047.2.1.6
73.	STN-AR-AN-7101 STN-AR-KP-7101 TS 1814.2.3 Access panel schedule Steel sheet coating requirements	There is a conflict in coating requirements to the Floor & Wall access panel. Please clarify which coating system to be considered. Dwg. No. STN-AR-AN-7101/ STN-AR-KP-7101 = 1.2mm thk galvanized steel fluorourethane baked finish	Please follow TS 1814.2.3.1 Zinc-Coated (Galvanized) Steel Sheet for floor and wall access panel.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		TS 1814.2.3 = Zinc-coated (Galvanized) Steel Sheet	
74.	STN-AR-AN-7101 STN-AR-KP-7101 Access panel schedule Sound insulation	Please provide us details and specifications of sound insulation to the floor access panel at TVF & Machine Room.	Sound insulation to the floor access panel should meet the performance criteria as specified in MEP TS 1223 and arch TS 1814.2.6 (3). For ex. Mechanical(VAC) equipment room 85 dBA. Follow manufacturers detail as per Arc TS 1031 for acoustic panel.
75.	STN-AR-A-AN-9670, 9130, 9131 STN-AR-A-KP-9670, 9130, 9131 Intumescent Paint	There is a note in Drawing STN-AR-A-AN-9670 and KP-9670 which states 'ALL STRUCTURAL STEEL MEMBERS SHALL BE APPLIED WITH 2 HOUR FIRE RATED INTUMESCENT PAINT". Please confirm if this applies only on Structural Steel and not applicable for the Secondary Steel Support of the glass.	Yes, Intumescent Paint applies only on structural Steel members as per the note provided in drawing AN/KP-9670.
76.	STN-AR-A-AN-0200 (ARCH PLANS) STN-AR-A-KP-0200 (ARCH PLANS) PAGE 260 (Tech. Specs.) 1. Bituminous Waterproofing (Asphalt Membrane Waterproofing System) 1. Bituminous Waterproofing (Asphalt Membrane Waterproofing System)	Please clarify the thickness of Bituminous Waterproofing (WPS-01 to be used as there is a conflict between the general Notes and the specification.  TS 1016:	Approx. thickness of 8.0 mm for WPS-01 Bituminous waterproofing to be followed as per TS section 1016.2.1.2,

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
		2) **WPS-01 Bituminous Waterproofing** a) Description: Asphalt membrane waterproofing system. b) Thickness: Approx. 8.0 mm thick. Please advise which thickness to be followed.	
77.	STN-AR-A-AN-0200 (ARCH PLANS) STN-AR-A-KP-0200 (ARCH PLANS) PAGE 261 (Tech. Specs.) Elastomeric Waterproofing	Please clarify the thickness of Elastomeric Waterproofing (WPS-02) to be used as there is a conflict between the general Notes and the specification.  TS 1016: 3) **WPS-02 Elastomeric Waterproofing** a) Description: Elastomeric waterproofing, liquid cold-applied. b) Thickness: Approx. 2.0 mm thick. Please advise which thickness to be followed.	Approx. thickness of 2.0 mm for WPS-02 Elastometric waterproofing to be followed as per TS section 1016.2.1.3,
78.	STN-AR-A-AN-0201 STN-AR-A-KP-0201 - Cold applied concrete hardener on cement;	Please provide us specifications for the following finishes: a. Fluoro-resin based paint finish b. Cold applied concrete hardener on cement; Steel trowelled Finish.	a. No paint finish required for CLG-00 (No Ceiling). Flouro resin-based paint indicated in STN-AR-A-AN/KP-0201, is incorrect. b. F-00 (No Floor Finish): Cold Applied Concrete Hardener on cement; Steel Trowelled Finish (Plain Cement Trowelled Finish Flooring). Included in TS &

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		Also, please advise related pay item for Item b.	BOQ pay item 1021(1)c1.
79.	01_CP103_P1_S(IA)_(BF-BOQ)_8June2021 / STN-MEP-ELL-KP-2004 Panelboard: KP-ELPDB-01 & KP-ELPDB-02 Katipunan Station: BOQ and Drawing	BOQ have panelboards KP-ELPDB-01 & KP-ELPDB-02, is this referring to KP-TN-ELPDB-01 & KP-TN-ELPDB-02 shown on drawing STN-MEP-ELL-KP-2004? Please provide Panel load schedule for reference.	1. Yes it is referring in the drawing STN-MEP-ELL-KP-2004, as discrepancies between BOQs and Bid/Design Drawings are clarified in the drawings; 2. About load schedule references, these are for JDT to answer.
80.	01_CP103_P1_S(IA)_(BF-BOQ)_8June2021 Panelboard: KP-MZ-UPS-01 & KP-MZ-UPS-02 Katipunan Station: BOQ and Drawing	Please confirm our understanding that KP-MZ-UPS-1 & KP-MZ-UPS-2 panels are only dedicated for 125kVA UPS units. If there are any other electrical load connected to these UPS panels, please provide panel load schedule.	1. Yes, its dedicated for 125kVA UPS units as per bid dwg. Ref. no. STN-MEP-ELL-KP-2006(R2); 2. About other connected loads to these UPSs, these are for JDT to answer.
81.	14 / Arch_AN / STN-AR-A-AN-0201, 15 / Arch_AN / STN-AR-A-KP-0201 GBB6 NO.144 Floor Finishing & Ceiling Finish	Regarding the response (GBB6 No.144),please provide Pay Items for 2 finishes in the Bill of Quantities. · F-00(no Floor Finish) :cold Applied Concrete Hardner on cement Steel Trowelled finish(Plain Cement Trowelled Finish Floorinhg) · CLG-00 (No Ceiling):Flouro-Resin Based Paint	F-00 (No Floor Finish): Cold Applied Concrete Hardener on cement; Steel Trowelled Finish (Plain Cement Trowelled Finish Flooring). Included in BOQ pay item 1021(1)c1. No paint finish required for CLG-00 (No Ceiling). Flouro resin-based paint indicated in STN-AR-A-AN/KP-0201, is incorrect.
82.	Part 2 Section VI MEP Drawings: Anonas Station, MEP Drawings:	SES Scenarios is very important for Ventilation control by BMS interface with other packages. However, Bidder cannot find it. The Bidder would like to request the Employer to provide designed document of the SES Scenarios	To be issued in the future GBB.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Katipunan Station SES Scenarios	also interface control document from OCC by SCADA.	
83.	Drawing No. GN-CE-CD-0002, 0010, 0011 TBM Track Bed (Invert Concrete)	The Bidder would like to confirm that invert concrete as shown in drawings GN-CE-CD-0002, 0010, 0011 has no reinforcement. Otherwise, please provide the reinforcement detail and advise the pay item to which the reinforcement will be charged.	The reinforcement will be charged in Lining only, not in invert concrete.
84.	STN-AR-A-AN-9070 STN-AR-A-KP-9070 Ceiling Latch	In TS 1803.2.2, it is mentioned as : "Ceiling Access Hatch : Extruded aluminum with latch and size as shown on the drawings.", however, the drawing details of the hatch does not indicate any latch. Please advise which document shall we follow to price.	Follow manufacturer detail for Ceiling Access Hatch with latch as per TS section 1803.2.2.3 (a)
85.	GBB No. 08 Item 7 Ceiling - Solid Plate	Response in GBB No. 8 item 7 states that the solid plate is located in entrance ceiling along the VT void refer to detail drawing 9060 tag A. This in in reference to the 1.5mm stainless steel plate However, there is also pay item 1811 (11) Stainless Steel Plate in the BOQ. Please advise the location of pay item 1811 (11) Stainless Steel Plate in the drawing.	1.5 stainless steel plate is located at platform VT enclosure bulkhead at the curved ceiling interface. Refer to drawing STN-A-AR-AN-9111 detail B, material callout 5 for stainless steel plate.
86.	GBB No. 08 Item 69 Noise Barrier	The response in GBB No. 08 Item 69 was GL-05. The bidder opines that the response is incorrect. The correct response to the query should be that Call out 1 in drawing 6061 should be in reference to drawing 9241 which is for the Noise Barrier.	Wall Detail Label at Vent Tower 02 is wrongly tagged. Correct one is noise barrier. Tag should refer to drawing STN-AR-A-AN-9241

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
87.	GC 7.3 Inspection PC Page PC 3 Part A: 6.5 Normal Working Hours GBB No. 5 Annex A Response for Item No. 14 "The Bidder should note that such requirements for examination, inspection or measurement not within the day or time work schedule of the Consultant/Engineer will be strongly discouraged."	With regards to this "Within the day or time work schedule of the Consultant/Engineer", do the days of work mean Monday to Saturday and the time of work from 0800hrs to 1700hrs excluding special and regular holidays?	Stated working hours are according to DOLE. However, Engineer will attend inspection based on contractor's request and site activities.
88.	Page BF-10 Form of Bid Security	Regarding the wording in the Form of Bid Security, the wording 'it's Bid' is used in (a), but in (b) 'his Bid' is used. We think that it is better to use the same wording like 'it's Bid' for both cases.	Yes. Bidder's understanding is correct. For the Form of Bid Security. Its Bid is to be used in both case.
89.	Volume IV Section VIII PC-5 to PC-6 Attachment 1: Schedule of Key Dates KD-2 Completion of Basic Structure of Tunnels and Stations Trackway and	The bidder would like to clarify if KD2 only requires one tunnel (whether North Bound/ South Bound Portion only) between each of the following station in order to start the installation of Trackwork by CP106 Systems Contractor. > East Avenue Station and Anonas Station > Anonas Station and Katipunan Station > Katipunan Station and Ortigas North Station	The Bidder's understanding is not correct. Access to all the tunnels shall be provided.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)			
ITEM NO.	**REFERENCE/CLAUSE/SECTION**	**QUERIES**	**RESPONSE**
	Provision of Access to the CP 106 Systems Contractor to install Trackwork		
90.	Volume V Relevant Information Geotechnical Survey Data: B. Final Borehole Log	Bidder would like to request the Employer to kindly provide Boring Logs from IS-66 to IS-76 under B. Final Borehole log.	Refer to the Attachment.

Metro Manila Subway Project Phase 1 PACKAGE CP103 (Anonas and Katipunan)		
ITEM NO.	**ITEM NO.**	**ITEM NO.**
		Volume I. Part 1 Bidding Procedures
1.	Section IV Bidding Forms, Page BF-46	**Please replace Form EQU with the revised one shown in Annex "C" of this GBB No. 10.**
2.	Section III Evaluation and Qualification Criteria (EQC) 1.1.5 Method of Implementation of the Works	**Add the item below:** (6) Method of management and co-ordination of interface between the Contractor, his equipment suppliers and Subcontractors and interfacing Contractors See Annex C
3.	Section III Evaluation and Qualification Criteria (EQC) 1.1.8 Work Management	**Add the item below:** 1.1.8.6. The Bidder's proposed BIM and PMIS plan shall demonstrate appropriateness of plan, organization and methodology to manage BIM and PMIS. See Annex C
4.	Section III Evaluation and Qualification Criteria (EQC) 1.1.1 Personnel	**Revise the phrases as below:** 1.1.1 Personnel The Bidder must demonstrate that it has the personnel for the key positions who meet the following requirements: The experience of the projects conducted outside from the home country of the respective key personnel and inside the home country of the respective key personnel under foreign fund as well as subway project experience will be considered in scoring points during the evaluation. The Bidder shall provide details of the proposed personnel and their experience records in Forms PER-1 and PER-2 in Section IV- Bidding Forms.
		Volume IA Bill of Quantities (BOQ)

<table>
<tr><td>5.</td><td>Section IV Bidding Form Bill of Quantities (BOQ),
Schedule 3 Provisional Sum</td><td>Change the amount of PS1 to PHP 15,000,000 and combine PS3 and PS8 as following:
<table>
<tr><th rowspan="2">Item No.</th><th rowspan="2">Description</th><th colspan="2">Amount</th></tr>
<tr><th>Foreign Currency</th><th>PHP</th></tr>
<tr><td>PS 1</td><td>Public Relations and Community Relations</td><td></td><td><u>15,000,000</u></td></tr>
<tr><td>PS 2</td><td>Fee of Dispute Board's Member and expenses, one-half of Employer's cost estimate of Dispute Board</td><td></td><td>50,000,000</td></tr>
<tr><td>PS 3</td><td><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></td><td></td><td><u>310,000,000</u></td></tr>
<tr><td>PS 4</td><td>DOTr Training</td><td></td><td>15,000,000</td></tr>
<tr><td>PS 5</td><td>GS137 Training</td><td></td><td>15,000,000</td></tr>
<tr><td>PS 6</td><td>Archaeological Monitoring</td><td></td><td>50,000,000</td></tr>
<tr><td>PS 7</td><td>Project Management Information System (PMIS) /Common Data Environment</td><td></td><td>20,000,000</td></tr>
</table></td></tr>
<tr><td colspan="3">Volume II Works Requirements Section VI
Works Requirements – General Specification (GS)</td></tr>
<tr><td>6.</td><td>Section VI (GS)
Section 126.7
Construction Site Tour</td><td>Replace 127.4.4 Construction Site Tour with the following:

127.4.4 Construction Site Tour
The Contractor shall cooperate with and provide periodical tours of the Works to the public and stakeholders during the construction period. The main target audiences are stakeholders, ordinary families and students <u>including those with a purpose of railway knowledge transfer.</u> Site visitors can become a means for advertising and promoting the benefit of the MMSP. Tours shall be planned to have at least once every three months for the whole MMSP with the instruction of Engineer.</td></tr>
<tr><td>7.</td><td>GS, Appendix 4,
2.1 Tunneling;Civil
4 [Remarks]</td><td>Amend second sentence as following:
CP103 should check stability of diaphragm wall at the north end of Ortigas North Station box.

Add third sentence as following:
CP103 should check stability of diaphragm wall at the south end of East Ave. Station box.</td></tr>
</table>

8.	Section VI Works Requirement Appendix 8 page APP 8-34– Item 2.3 Licensing Procurement	**Add item 2.3 Licensing Procurement as following:** 2.3 Licensing Procurement Once the Notice of Award is issued and the Contract is signed, the Contractor shall procure the required software licenses and start the onboarding process as stated in this appendix. The Contractor will also make all necessary Information Technology security clearances within their company to avoid delays in using the system. The Engineer will provide the contact details of the authorized software provider after the issuance of Notice of Award and signed Contract.
Volume III Part2: Works Requirements ***Works Requirements – Employer's Drawings (DRW)***		
9.	Drawing	Add CP104 Ortigas North Station north side structural drawing. Refer to Attachment

Volume IA Bill of Quantities (BOQ)					
No.	**Reference**			**Original**	**Corrected, Supplemented or Modified**
10.	BQ 2A	2001(6)	Clearing and Grubbing	Pay Item 2001 (6)	Pay Item 2001 (5)
11.	BQ 2A	2007(2)a	Concrete Class C1 for Top Slab of Station	Pay Item 2007 (2)a	Pay Item 2007 (2)
12.	BQ 2A	2007(2)b	Concrete Class C1 for Base Slab of Station	Pay Item 2007 (2)b	Pay Item 2007 (3)
13.	BQ 2A	2007(2)c	Concrete Class C1 for Entrance and Ventilation Shafts/Ducts	Pay Item 2007 (2)c	Pay Item 2007 (4)
14.	BQ 2A	2007(3)a	Concrete Class C2 for intermediate Slabs of Station	Pay Item 2007 (3)a	Pay Item 2007 (5)
15.	BQ 2A	2007(4)b	Concrete, Class C3 for End Walls of Station	Pay Item 2007 (4)b	Pay Item 2007 (6)c
16.	BQ 2A	2007(4)c	Concrete, Class C3 for Platform of Station	Pay Item 2007 (4)c	Pay Item 2007 (6)d
17.	BQ 2A	2007(4)d	Concrete, Class C3 for Stairways of Station	Pay Item 2007 (4)d	Pay Item 2007 (6)e
18.	BQ 2A	2007(4)e	Concrete, Class C3 for Escalators and Elevators of Station	Pay Item 2007 (4)e	Pay Item 2007 (6)f
19.	BQ 2A	2007(5)a	Concrete, Class D for Plain Concrete	Pay Item 2007 (5)a	Pay Item 2007 (7)
20.	BQ 2A	2007(5)b	Concrete Class D for Lean Concrete	Pay Item 2007 (5)b	Pay Item 2007 (8)
21.	BQ 2A	2008(6)	Drilled Re-bar ϕ32	Pay Item 2008 (6)	Pay Item 2008 (3)

22.	BQ 2A	2008(6)	Drilled Re-bar ϕ36	Pay Item 2008 (6)	Pay Item 2008 (3)
23.	BQ 2A	2008(6)	Drilled Re-bar ϕ36	Pay Item 2008 (6)	Pay Item 2008 (3)
24.	BQ 2A	2011(2)	Waterproofing membrane at Station, Base Slab	Pay Item 2011 (2)	Pay Item 2011 (3)
25.	BQ 2A	2011(2)	Waterproofing membrane at Entrance and Ventilation Shaft Top Slab	Pay Item 2011 (4)	Pay Item 2011 (2)
26.	BQ 2A	2011(5)	Waterproofing membrane at Entrance and Ventilation Shaft Base Slab	Pay Item 2011 (5)	Pay Item 2011 (4)
27.	BQ 2A	2005(8)	Reinstatement of Panelboard for Street Lighting	Pay Item 2005 (9)	Pay Item 2005 (8)
28.	BQ 2A	2011(3)	Waterproofing for External Surface, Underground Structures	Pay Item 2011 (3)	Pay Item 2011 (5)
29.	BQ 2A	2013(9)	Ductile iron pipe ϕ150	Pay Item 2013 (9)	Pay Item 2013 (13)
30.	BQ 2A	2013(10)	RC Manhole (0.8m x 0.8m x 1.3m)	Pay Item 2013 (10)	Pay Item 2013 (8)
31.	BQ 2A	2013(9)	Drain Pipe	Pay Item 2013 (9)	Pay Item 2013 (7)
32.	BQ 2A	2013(8)	HDPE pipes and fittings, jointing, including works to existing line	Pay Item 2013 (8)	Pay Item 2013 (6)
33.	BQ 2A	2013(13)	Creek Channel	Pay Item 2013 (13)	Pay Item 2013 (11)
34.	BQ 2A	2004(6)	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft and Temporary Diaphragm Wall
35.	BQ 2B	2001(6)	Clearing and Grubbing	Pay Item 2001 (6)	Pay Item 2001 (5)
36.	BQ 2B	2007(2)b	Concrete Class C1 for Top Slab of Station	Pay Item 2007 (2)a	Pay Item 2007 (2)
37.	BQ 2B	2007(2)c	Concrete Class C1 for Base Slab of Station	Pay Item 2007 (2)b	Pay Item 2007 (3)
38.	BQ 2B	2007(3)a	Concrete Class C1 for Structure of Entrance and Ventilation Shafts/Ducts	Pay Item 2007 (2)c	Pay Item 2007 (4)
39.	BQ 2B	2007(4)b	Concrete Class C2 for intermediate Slabs of Station	Pay Item 2007 (3)a	Pay Item 2007 (5)
40.	BQ 2B	2007(4)c	Concrete, Class C3 for End Walls of Station	Pay Item 2007 (4)b	Pay Item 2007 (6)c
41.	BQ 2B	2007(4)d	Concrete, Class C3 for Platform of Station	Pay Item 2007 (4)c	Pay Item 2007 (6)d

42.	BQ 2B	2007(4)e	Concrete, Class C3 for Stairways of Station	Pay Item 2007 (4)d	Pay Item 2007 (6)e
43.	BQ 2B	2007(5)a	Concrete, Class C3 for Escalators and Elevators of Station	Pay Item 2007 (4)e	Pay Item 2007 (6)f
44.	BQ 2B	2007(5)b	Concrete, Class D for Plain Concrete	Pay Item 2007 (5)a	Pay Item 2007 (7)
45.	BQ 2B	2008(6)	Concrete Class D for Lean Concrete	Pay Item 2007 (5)b	Pay Item 2007 (8)
46.	BQ 2B	2008(6)	Drilled Re-bar ϕ20	Pay Item 2008 (6)	Pay Item 2008 (3)
47.	BQ 2B	2011(2)	Drilled Re-bar ϕ28	Pay Item 2008 (6)	Pay Item 2008 (3)
48.	BQ 2B	2011(4)	Waterproofing membrane at Station, Base Slab	Pay Item 2011 (2)	Pay Item 2011 (3)
49.	BQ 2B	2011(5)	Waterproofing membrane at Entrance and Ventilation Shaft Top Slab	Pay Item 2011 (4)	Pay Item 2011 (2)
50.	BQ 2B	2011(3)	Waterproofing membrane at Entrance and Ventilation Shaft Base Slab	Pay Item 2011 (5)	Pay Item 2011 (4)
51.	BQ 2B	2013(9)	Waterproofing for External Surface, Underground Structures	Pay Item 2011 (3)	Pay Item 2011 (5)
52.	BQ 2B	2013(10)	Ductile iron pipe ϕ100, including elbow	Pay Item 2013 (9)	Pay Item 2013 (13)
53.	BQ 2B	2013(10)	RC Manhole (0.8m x 0.8m x 1.5m)	Pay Item 2013 (10)	Pay Item 2013 (8)
54.	BQ 2B	2013(8)	RC Manhole (0.8m x 0.8m x 1.7m)	Pay Item 2013 (10)	Pay Item 2013 (8)
55.	BQ 2B	2013(9)	HDPE pipes and fittings, jointing	Pay Item 2013 (8)	Pay Item 2013 (6)
56.	BQ 2B	2004(6)	Drain pipe	Pay Item 2013 (9)	Pay Item 2013 (7)
57.	BQ 2B		Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft and Temporary Diaphragm Wall
58.	BQ 3A&3B&3C		Additional Item	no BOQ item	add No 3A & 3B 2012(1) Monitoring and Instrumentation

Volume II Works Requirements Section VI ***Works Requirements – Technical Specification (TS)***					
No.	**Location / Description**			**Original**	**Corrected, Supplemented or Modified**
59.	2001		Removal of Existing Street Signs	No this item in TS	Additional Pay Item : 6) Removal of Existing Street Signs The general reuirements for the Basis of Payment are described in the Bill of Quantities. Pay Item Description Unit 2001(6) Removal of Existing Street Signs
60.	2005		Reinstatement of Sidewalk	No this item in TS	Additional Pay Item : 2005(5)a Reinstatement of Sidewalk

61.	2007	2007(6) c	Concrete, Class C3 for Side Walls of Station	2007(6)c Concrete, Class C3 for End Walls of Station	2007(6)c Concrete, Class C3 for End Walls and Side Wall of Station
62.	2007	2007(9)	Slope Protection Retaining Wall	No this item in TS	Additional Pay Item : 2007(9) Concrete Class G for Slope Protection
63.	2008	2008(6)	Coupler ϕ20 for Entrance and Ventilation Shafts/Ducts	2008(6) Coupler for Station	2008(6) Coupler for Station, Entrance and Ventilation Shaft
64.	2013		Ductile iron pipe	No this item in TS	add TS 2013 (11) Ductile iron pipe l.m
65.	2013		PVC pipe	No this item in TS	add TS 2013 (12) PVC pipe l.m
66.	2013		Box Culvert	Box Culvert	Box Culvert (Creek Channel)
67.	2004	2004(6)	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft and Temporary Diaphram Wall"

Technical Bid: Contents No. 7.4

MAJOR PLANT AND EQUIPMENT INTENDED TO BE MOBILIZED AT SITE

Form EQU: Equipment

[insert day, month, year]
Bidder's Legal Name: *[insert full name]*
Joint Venture Party Legal Name:*[insert full name]*
IFB No. *[insert number]*
Page *[insert page number]* of *[insert total number]* page

[The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria, Clause 1.1.2. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.]

Item of equipment		
Equipment information	**Name of manufacturer**	**Model and power rating**
	Capacity	**Year of manufacture**
Current status	**Current location**	
	Details of current commitments	
Source	**Indicate source of the equipment** ☐ **Owned** ☐ **Rented** ☐ **Leased** ☐ **Specially manufactured**	

Omit the following information for equipment owned by the Bidder.

Owner	**Name of owner**	
	Address of owner	
	Telephone	**Contact name and title**
	Fax	**Telex**
Agreements	**Details of rental / lease / manufacture agreements specific to the project**	

PART 1 BIDDING PROCEDURES

SECTION III. EVALUATION AND QUALIFICATION CRITERIA (EQC)

(Without Prequalification)

Evaluation and Qualification Criteria

1. Evaluation

1.1 Technical Evaluation

The following factors shall apply:

1.1.1 Personnel

The Bidder must demonstrate that it has the personnel for the key positions who meet the following requirements:

The experience of the projects conducted outside from the home country of the respective key personnel and inside the home country of the respective key personnel under foreign fund as well as subway project experience will be considered in scoring points during the evaluation.

The Bidder shall provide details of the proposed personnel and their experience records in Forms PER-1 and PER-2 in Section IV- Bidding Forms.

Position	Total Experience (years)	Experience as a project manager/ manager of similar works	Work Experience in Railway projects (years)
a) Project Manager	15	at least one similar experience	10
b) Deputy Project Manager	15	at least one similar experience	10
c) Tunnel Construction Manager	10	at least one similar experience	5
d) Cut and Cover Construction Manager	10	at least one similar experience	5
e) Design Manager	10	at least one similar experience	5
f) Quality Assurance/ Quality Control Manager	10	at least one similar experience	5
g) Safety Manager	10	at least one similar experience	5

h) Architectural Manager	10	at least one similar experience	5
i) Mechanical, Electrical and Plumbing Manager	10	at least one similar experience	5
j) Station Manager	10	at least one similar experience	5
k) Interface Manager	10	at least one similar experience	5

1.1.2 Equipment

The Bidder must demonstrate that it is able to provide if required, the following construction plant and equipment as well as the number which would be required:

No.	**Equipment Type and Characteristics**	**Minimum Number Required**
1	TBM (Tunnel Boring Machine)	2
2	Gantry Crane (35t)	3
3	Battery Locomotive (25t)	4
4	Excavator with Breaker 1.0m3	10
5	Telescopic Excavator 1.0m3	8
6	Diaphragm Rig (Bucket type)	4
7	Diaphragm Rig (Hydraulic Mill)	4
8	Crawler Crane 300t	4
9	Concrete Pump 100m3/hour	3
10	Shotcrete Machine 20m3/hour	2

The Bidder shall provide further details of proposed items of equipment using **Form EQU** in Section IV, Bidding Forms.

1.1.3 Programme

The Bidder's proposed Work Programme shall demonstrate the following:

(1) Compliance with Time for Completion for Whole of the Works

(2) Compliance with Time for achieving Key Dates

(3) Appropriation of Construction Period of Each Work Items

(4) Appropriateness of Work Sequence and Correlation among Work Items

Exclude the impacts of COVID-19 from items (1) to (4) above.

1.1.4 Project Management Plan

1.1.4.1 The Bidder's proposed Management Organization shall demonstrate the following:

(1) Appropriateness of management line in head office organization of Bidder and All JV Members

(2) Appropriateness of project organization chart and Site organization chart including Subcontractors.

1.1.4.2 Proposed Personnel

The Bidder shall demonstrate the adequacy of the following personnel:

(1) Project Manager

(2) Deputy Project Manager

(3) Tunnel Construction Manager

(4) Cut and Cover Construction Manager

(5) Design Manager

(6) Quality Assurance/Quality Control Manager

(7) Safety Manager

(8) Architectural Manager

(9) Mechanical, Electrical and Plumbing Manager

(10) Station Manager

(11) Interface Manager

1.1.4.3 Personnel Mobilization Schedule

The Bidder shall demonstrate the appropriateness of the mobilization schedule and correlation with work items.

1.1.5 Method of Implementation of the Works

The Bidder's proposed method of implementation of the Works will be evaluated particularly on the following main items for each category of work as stated below:

- Compliance with the technical requirement.

- Compliance with the construction site conditions.

(1) Earthworks ; Site Clearance, Removal of Existing Structures, Excavation and Backfill for Structures

(2) Piling Works ; Diaphragm Walling

(3) Tunnel Works ; TBM Tunnel

(4) Underground Station Building Works; Architectural and Structural Woks, Mechanical and Electrical Works .

(5) Roadworks ; Portland Cement Concrete and Asphalt Pavement

(6) Method of management and co-ordination of interface between the Contractor, his equipment suppliers and Subcontractors and interfacing Contractors

The Bidder shall consider the implications and impacts of COVID-19, other pandemics and diseases, and shall list the mandatory enhancements over and above the pre-COVID-19 pandemic situation that it may be obliged to implement to comply with the latest Laws and to provide a safe and healthy working environment under Specific COVID-19 Risk Management Plan but exclude them from the pre-COVID-19 bid price.

1.1.6 Major Plant and Equipment intended to mobilize at Site

The Bidder's proposed Major Plant and Equipment intended to mobilize at Site shall demonstrate adequacy and appropriateness of the Contractor's proposed Plant and Equipment, comparing with the estimated quantities indicated in the Bill of Quantities and the Bid Programme.

1.1.7 Proposed Use and Reinstatement of Works Area

The Bidder's Proposed Use and Reinstatement of Works Area shall demonstrate appropriateness of proposed Use and Reinstatement of Works Area and understanding of the contract requirement by the Bidder.

1.1.8 Work Management

1.1.8.1 The Bidder's proposed Outline Quality Management Plan shall demonstrate appropriateness of plan, organization and methodology to manage quality assurance.

1.1.8.2 The Bidder's proposed Outline Safety Management Plan shall demonstrate appropriateness of plan, organization and methodology to manage safety assurance.

Enhancement of Health and Safety Management Plan and policies for protection against pandemics and infections, and active identification, isolation and treatment of persons under the bidder's responsibility.

1.1.8.3 The Bidder's proposed Outline Environmental Management Plan shall demonstrate appropriateness of plan, organization and methodology to manage Environmental control.

1.1.8.4 The Bidder's proposed Outline System Safety Management Plan shall demonstrate appropriateness of plan, organization and methodology to manage safety assurance.

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 safeguard people in the Bidder's employment and visitors, and those members of the general public that the Bidder and its workforce interface with to minimise the possibilities of catching or transmitting infectious diseases.

1.1.8.6 The Bidder's proposed BIM and PMIS plan shall demonstrate appropriateness of plan, organization and methodology to manage BIM and PMIS.

1.1.9 Contractual Spare Parts, Consumables, Special Tools and Test Equipment

(1) Appropriateness of list of Spare Parts and Consumables.

(2) Appropriateness of list of Special Tools and Test Equipment.

1.2 Economic Evaluation

In addition to the criteria listed in ITB 36.2 (a) – (d) the following criteria shall apply.

1.2.1 Quantifiable nonmaterial nonconformities

Pursuant to ITB 32.3, the cost of all quantifiable nonmaterial nonconformities or omissions shall be evaluated. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids, except for the omissions stated in ITB 14.2 which shall be treated in accordance with said clause.

1.2.2 Qualification Criteria for Multiple Contracts

Bidders have the option to bid for any one or more packages, namely Packages CP102 and CP103. Bids will be evaluated package-wise taking into account discount offered, if any, for combined packages. The contracts will be awarded to the Bidder offering the lowest evaluated bid price to the Employer for combined packages, subject to the selected Bidder meeting the following required qualification criteria for combination of packages;

(1) Financial Resources:

To meet the aggregate minimum threshold criteria for combined packages specified in the Table

of Financial Situation in Sub-section 2.3 of Eligibility and Qualification Criteria.

(2) Project Management Organization and Proposed Key Personnel and Construction Plant and Equipment:

Appropriate Site Organization Structure and Chart including Subcontractor for each Package and for combined packages. Adequacy of Key Personnel proposed and Construction Plant and Equipment for each Package and for combined packages.

(3) Experience:

(i) In the case of multiple contracts, the minimum value for experience as a prime contractor specified in EQC 2.4.2 (a) shall be applied to combined contract packages.
(ii) In the case of multiple contracts, the minimum value for each key activity specified in EQC 2.4.2 (b) shall be applied to combined contract packages.

1.3 Qualification

1.3.1 Exchange Rate for Qualification Criteria

Wherever a Form in Section IV, Bidding Forms, requires a Bidder to state a monetary amount, Bidders should indicate the USD equivalent using the rate of exchange determined as follows:

(1) For turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year.

(2) Value of single Contract - Exchange rate prevailing on the date of the Contract.

Exchange rates shall be taken from the publicly available source identified in BDS 34.1 or, in case such rates are not available in the source identified above, any other publicly available source acceptable to the Employer. Any error in determining the exchange rates may be corrected by the Employer.