

**Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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<i>Volume I Part 1 : Bidding Procedures</i>			
1.	<p>Section II Bid Data sheet(BDS) Sub-Clause 18.3(b)</p> <p>Section VIII particular Condition Part A Contract Data</p>	<p>A) Will the Accepted contract Amount be in a single currency or two currency format?</p> <p>B) If two-currency format, will the performance security, advance payment security and retention security be in a two currency format also?</p>	<p>The Accepted Contract Amount is the amount accepted in the Letter of Acceptance for the execution of the Works in accordance with the Contract.</p> <p>It is normally in a 2-currency format</p> <p>The Performance Security will be in the form of a "demand guarantee" or "performance bond" in the amount(s) of ten percent (10%) of the AcceptedContract Amount and in the same currency(ies) of the Accepted Contract Amount</p>
2.	<p>Section VIII particular Condition Part A Contract Data</p>	<p>Shall the validity period of the securities and insurances includes the defects notification period of 2 years?</p> <p>Contract Duration + 2 years</p> <p>Insurances: CARI, Accident insurance, Workmans compensation Insurance, Third party Liability Insurance and etc.</p>	<p>Yes, validity period for securities and insurance shall cover the Defects Notification Period.</p>

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		Securities: Advance payment guarantee and retention security	
3.	BDS-4 14.7 Bid Data Sheet	it was stated that all taxes, gov't duties, fiscal charges & levies shall be assumed by the govt through its executing agency, hence the bidder's Price Bid shall be exclusive of VAT, gov't duties, fiscal charges & levies?	The Bidder's understanding is correct.
4.	BDS-4 4.8 Bid Data Sheet	It was stated that bidder's Price Bid shall be on pre-COVID-19 basis, is there no Provisional Sum item in the BOQ allocated for the measures to counter the effects of COVID-19?	The Bidder's understanding is correct.
5.	EQC-3 1.1.3 1.1.5 1.1.8 Evaluation & Qualification criteria	It is stated in "Clause 1.1.3 Programme" that the bidder's proposed programme shall exclude the impacts of COVID-19 while in "Clause 1.1.5 Method of Implementation of the Work" & "Clause 1.1.8 Work Management" it is stated that the bidder shall consider the implications & impacts of COVID-19. The mentioned clauses contradicts each other.	These Sub-Clauses can consist with each other. Method of Implementation of the Works and Risk Management Plan can be prepared considering the implications and impacts of COVID-19, while Programme excluding the impacts of COVID-19 can also be prepared.
6.	EQC-5	"Clause 1.1.5 Method of Implementation of the Work"	A Bidder's experience, knowledge and ability to plan and cope

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	1.1.5 Evaluation & Qualification criteria	it is stated that the bidder shall consider the implications & impacts of COVID-19. Can we request for a common assumption of the implication & impacts of COVID-19 during construction.	with implications & impacts of COVID-19 will differentiate contents and levels of the Bidder's proposal from others in terms of this matter.
7.	BF-49 Technical Bid: Content No. 10 Japanese origin of materials, equipment and services (from ELG)	Can we understand the term "Accepted Contract Amount" used in the Bidding Forms shall be the Bid Price (excluding Provisional Sums but including Dayworks)	Accepted Contract Amount includes both Provisional Sums and Dayworks.
8.	BDS-7 18.3(b) Period of Validity of Bids	The term "Fixed Portion of the Bid" is comprise of what items? Please clarify.	The meaning of "fixed portion of the Bid Price" is 15% of the Bid Price as stated in Schedule 4: Schedule of Adjustment Data in Section IV, Bidding Forms. In case that the award is delayed by a period exceeding fifty-six (56) days beyond the expiration of the initial Bid validity, 15% of the Bid Price will be adjusted according to ITB 18.3(b).
9.	EQC-3 1.1.2 Equipment	The numbers in the column "Minimum Number Required" are sample only and the bidder can proposed and/or revise?	Under 1.1.2 Equipment, the Bidder is asked to demonstrate whether it is able to provide as required in 1.1.2 Equipment. It is not necessary for the Bidder to modify the table in 1.1.2 Equipment.

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10.	EQC-2 1.1.1 Personel	Base on BoQ& Drawings, there is no Cut & Cover scope of work. Do we need to propose for a Construction Manager for Cut & Cover for key position?	Item d) Cut and Cover Construction Manager is applicable because in CP104 there is Station Box construction which will be implemented by Open cut construction method.
11.	BDS / Bidding Forms BDS 5 / BF 41 ITB 14.8 / Para 4 COVID 19 Measures	It is noted in Clause 14.8 of the BDS that the Bid is to be submitted and the Contract subsequently administered on a "pre COVID -19" basis .However paragraph 4 on page BF 41 states that the Bidder shall consider the COVID-19 effects . It is also noted from page BF 65 that the BQ prices are to exclude any COVO-19 effects . Please clarify and confirm.	Clause 4 in METHOD OF IMPLEMENTATION OF THE WORKS on Page BF-41 is related to Method of Implementation of the Works, a part of Technical Proposal. BDS 14.8 on Page BDS-5 and Note on BF-65 are related to Price Bid. These provisions can consist with each other.
12.	I BDS / Bidding Forms BDS 5 / BF 45 ITB 14.8 / Para 5 COVID 19 Measures	It is noted in Clause 14.8 of the BDS that the Bid is to be submitted and the Contract subsequently administered on a "pre COVID -19" basis .However paragraph 5 on page BF 45 states that the Bidder shall provide a standalone COVID-19 risk management plan . Please clarify and confirm.	Clause 5 in WORK MANAGEMENT PLAN on Page BF-45 is related to Outline Risk Management Plan, a part of Technical Proposal. BDS 14.8 on Page BDS-5 is related to Price Bid. These provisions can consist with each other.
13.	EQC-4	We understand the requirmeent of EQC for	Possible adjustments on project targets and timelines for any

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	1.1.3 Programme	Programmenot to include the impact of COVID 19. However, can the Employer provide on possible adjustments relative to project targets and timelines due to the limitations and uncertainties brought about by COVID 19 pandemic?	events and circumstances under Sub-Clause 20.1 of General Conditions of Contract could be discussed in accordance with General Conditions of Contract. COVID-19 issue is not exceptional.
14.	PER-2 Personnel Experience [Summarize professional experience over the last 20 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.]	Please clarify "professional experience over the last 20 years". 1) Does the last 20 years mean the period from 2001 to 2020? 2) If the above question is incorrect, is there the limit to the starting year of the experience? For example, since 1985 etc.	The Bidder's understanding stated in item 1) is correct.
<i>Volume IA Part 1 : Bill of Quantities(BOQ)</i>			
15.		Bill of Quantities (BOQ)- Air Conditioning System, Thermal Insulation, Technical specifications (TS) - 3. Mechanical, Electrical and Plumbing TS12122.1 1) Duct Insulation and Drawing No. STN-MEP-VAC-CWD-1101 are referred. The	TS to prevail over BOQ.


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		<p>specification of air conditioning duct insulation has discrepancy among Bill of Quantities, Technical Specification and Drawings.</p> <ul style="list-style-type: none"> • Bill of Quantities: Rockwool : 64kg/cu.m; 0.035 W/mK • Technical specification: Closed Cell Rubberized or Polyolefin with aluminum foil,25mm thick, 64kg/cu.m; 0.035 W/mK • Drawings: Fiberglass with aluminum foil <p>In accordance with 1.5 Priority of Documents in GC_CDS_PC_CF, we apply Rockwool, 25mm thick 64kg/cu.m; 0.035 W/mK. Please confirm and advise.</p>	
16.	<p>BOQ 4 9 Valation and Payment of Lump Sum Items</p>	<p>It is noted from Cl 9 that Lump Sum items will be valued and paid "at one time" and that all the items in Bill No. 1 (General Requirements) are measured as Lump Sum items . Please confirm that the Lump Sums in Bill No 1 (and other Bills for major items i.e Temporary Works) will be valued progressively as stated in the General Specifications</p>	<p>This is to confirm that the Lump Sums in Bill No 1 and other Bills for major items i.e Temporary Works will be valued progressively as stated in the General Specifications. Each item which composes Bill No. 1 has its corresponding payment terms.</p>
17.	Bill No.2A DWG	From BOQ No.2A and DRG No. STN-CE-ON- 0052,	The coupler number on BOQ No.2A and DRG No.

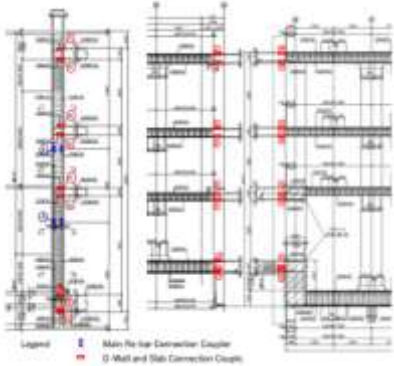
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	<p>Quantity of Couplers for Diaphragm Wall ,W=1.2m(1)</p> <p>Bill NO.2A 2008(3)a-g+2 items</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th colspan="5">Bill NO.2A</th> </tr> <tr> <th>No.</th> <th>PAY ITEM No.</th> <th>DESCRIPTION</th> <th>UNIT</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>Coupler for Diaphragm Wall, W=1.2m</td> <td></td> <td></td> </tr> <tr> <td>2008</td> <td>2008(3)a</td> <td>Coupler q-40 for Diaphragm Wall, W=1.2m</td> <td>nos</td> <td>714</td> </tr> <tr> <td>2008</td> <td>2008(3)b</td> <td>Coupler q-36 for Diaphragm Wall, W=1.2m</td> <td>nos</td> <td>554</td> </tr> <tr> <td>2008</td> <td>2008(3)c</td> <td>Coupler q-25 for Diaphragm Wall, W=1.2m</td> <td>nos</td> <td>0</td> </tr> <tr> <td>2008</td> <td>2008(3)d</td> <td>Coupler q-40/36 for Diaphragm Wall, W=1.2m</td> <td>nos</td> <td>1,268</td> </tr> <tr> <td></td> <td></td> <td>Coupler q-36/32 for Diaphragm Wall, W=1.2m</td> <td>nos</td> <td>160</td> </tr> <tr> <td></td> <td></td> <td>Coupler q-32/28 for Diaphragm Wall, W=1.2m</td> <td>nos</td> <td>160</td> </tr> </tbody> </table> <p>DRG No. STN-CE-ON-0052</p> <p style="text-align: center;">ORTIGAS NORTH STATION</p> <p style="text-align: center;">REINFORCEMENT DETAIL SECTION</p> <p style="text-align: center;">E-E SHEET 3/4 "Diaphragm wall reinforcement detail(Section E-E)"</p>	Bill NO.2A					No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY			Coupler for Diaphragm Wall, W=1.2m			2008	2008(3)a	Coupler q-40 for Diaphragm Wall, W=1.2m	nos	714	2008	2008(3)b	Coupler q-36 for Diaphragm Wall, W=1.2m	nos	554	2008	2008(3)c	Coupler q-25 for Diaphragm Wall, W=1.2m	nos	0	2008	2008(3)d	Coupler q-40/36 for Diaphragm Wall, W=1.2m	nos	1,268			Coupler q-36/32 for Diaphragm Wall, W=1.2m	nos	160			Coupler q-32/28 for Diaphragm Wall, W=1.2m	nos	160	<p>we created the quantity breakdown of D-Wall coupler.</p> <p>We classified the D-Wall into the permanent D-Wall in the longitudinal direction and temporary D-Wall in the cross direction.</p> <p>Is the following table correct?</p> <p>Table of Bill No.2A 2008(3) Breakdown</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">No.</th> <th rowspan="2">PAY ITEM No.</th> <th rowspan="2">DESCRIPTION</th> <th rowspan="2">UNIT</th> <th rowspan="2">QUANTITY</th> <th colspan="2">Breakdown QUANTITY</th> </tr> <tr> <th>Permanent D-Wall</th> <th>Temporary D-Wall</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>Couplers for Diaphragm Wall</td> <td></td> <td></td> <td>1*394 853</td> <td>1*320 893</td> </tr> <tr> <td>2008</td> <td>2008(3)a</td> <td>Coupler q-40 for Diaphragm Wall</td> <td>nos</td> <td>714</td> <td>394</td> <td>320</td> </tr> <tr> <td>2008</td> <td>2008(3)b</td> <td>Coupler q-36 for Diaphragm Wall</td> <td>nos</td> <td>554</td> <td>394</td> <td>160</td> </tr> <tr> <td>2008</td> <td>2008(3)c</td> <td>Coupler q-25 for Diaphragm Wall</td> <td>nos</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>2008</td> <td>2008(3)d</td> <td>Coupler q-40/36 for Diaphragm Wall</td> <td>nos</td> <td>1,268</td> <td>788</td> <td>480</td> </tr> <tr> <td></td> <td></td> <td>Coupler q-36/32 for Diaphragm Wall</td> <td>nos</td> <td>160</td> <td></td> <td>160</td> </tr> <tr> <td></td> <td></td> <td>Coupler q-32/28 for Diaphragm Wall</td> <td>nos</td> <td>160</td> <td></td> <td>160</td> </tr> </tbody> </table>	No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	Breakdown QUANTITY		Permanent D-Wall	Temporary D-Wall			Couplers for Diaphragm Wall			1*394 853	1*320 893	2008	2008(3)a	Coupler q-40 for Diaphragm Wall	nos	714	394	320	2008	2008(3)b	Coupler q-36 for Diaphragm Wall	nos	554	394	160	2008	2008(3)c	Coupler q-25 for Diaphragm Wall	nos	0			2008	2008(3)d	Coupler q-40/36 for Diaphragm Wall	nos	1,268	788	480			Coupler q-36/32 for Diaphragm Wall	nos	160		160			Coupler q-32/28 for Diaphragm Wall	nos	160		160	<p>STN-CE-ON- 0052B are for permanent D-wall. Temporary D- wall needs to be designed by contractor.</p>
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**Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>DRG No. STN-CE-ON-0052 ORTIGAS NORTH STATION REINFORCE MENT DETAIL SECTION E-E SHEET 3/4</p> <p>DRG No. STN-CE-ON-0056, 0057 ORTIGAS NORTH STATION REINFORCE MENT DETAIL ALONG LONGITUDINAL SECTION C-C&D-D SHEET 1/2, 2/2</p> <p>DRG No. STN-CE-ON-0058, 0059 ORTIGAS NORTH STATION REINFORCE MENT DETAIL ALONG LONGITUDINAL SECTION E-E SHEET 1/2, 2/2</p> <p>See Attachment for enlarged drawing</p>	 <p>Fig Coupler classification drawing *2</p> <p>Bill No.2A 2008(3) a-g consists only of quantities classified in blue. We have made the following table by adding the quantities classified in red, and total quantities are in thick framed column.</p> <p>Please confirm the following table.</p> <p>We will not be able to install the connection coupler with the slab or should install the connection coupler without payment. Because BOQ has a higher priority than the Drawings, as shown on the GBB No.5 Annex "A" No.34, 35 RESPONSE.</p> <p>Please provide the correct quantity.</p> <p>Table Proposed Quantity of Coupler *3</p>	

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																																																																																																																								
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20.	<p>Diaphragm Wall Removal Sequence (1) DRG No. STN-CE-ON-0056, 0057 ORTIGAS NORTH STATION REINFORCEMENT DETAIL ALONG LONGITUDINAL SECTION C-C&D-D SHEET 1/2, 2/2 DRG No. STN-CE-ON-0058, 0059 ORTIGAS NORTH STATION REINFORCEMENT DETAIL ALONG LONGITUDINAL SECTION E-E SHEET 1/2, 2/2 DRG No. STN-CE-ON-0024,0025,0026, 0027 ORTIGAS NORTH STATION STATION SOUTH END GENERAL</p>	<p>From the above Drawings, Ortigas North Station temporary D-Wall at the ④⑥ have the Slab connection couplers on both sides. On the Drawing No.0024 to No.27, we found in the right side figure titled For Closure, "Opening/ Shaft Close-out" and "Temporary D-Wall removal". If we wait for the D-Wall removal until the opening is closed, the Programme will be delayed and this item become the critical path. If the Ortigas North Station ④⑥ D-Wall can be removed after the slab with opening and ④⑤ and ④⑥ column constructed, please provide the more one step "Temporary D-Wall Removal" between "During Construction" and "For Closure" . Or please change the</p>	<p>Construction sequence needs to be planned by contractor considering the construction schedule.</p>																																																																																																																																								

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	DRAWING SHEET 1/4, 2/4,3/4,4/4	title from "For Closure" to "Temporary D-Wall removal & For Closure"	
21.	DRG No. STN-CE-OS-0050, 0051 ORTIGAS SOUTH STATION REINFORCEMENT DETAIL SECTION C-C SHEET 2/7, 3/7 DRG No. STN-CE-OS-0031 to 0034 ORTIGAS SOUTH STATION STATION SOUTH END GENERAL DRAWING SHEET 1/4 to 4/4, DRG No. STN-CE-OS-0036, 0037 ORTIGAS SOUTH STATION REINFORCEMENT DETAIL SECTION A-A SHEET 2/7, 3/7 DRG No. STN-CE-OS-0027 to 0030 ORTIGAS SOUTH STATION STATION NORTH END GENERAL DRAWING SHEET 1/4 to 4/4,	Ortigas South Station temporary D-Wall at the ④ and ⑩ have the Slab connection couplers only on TBM shaft side. We assume that the Ortigas South Station ⑩ D-Wall shall remove after ⑩-⑫slab and ⑩column constructed and in time for excavation and slab construction on the station center side. And we also assume the Ortigas South Station ④D-Wall in the same way as above. Is this assumption is correct? If this assumption is not correct, please provide the Slab connection couplers Drawings of the station center side, as same as Ortigas North Station.	Construction sequence needs to be planned by contractor considering the construction schedule.

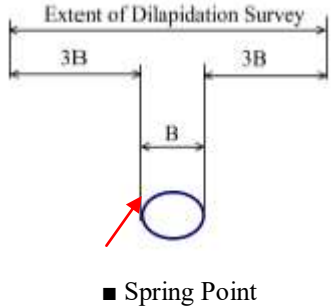
*Volume II Part2 Works Requirements
Section VI Works Requirements – General Specification (GS)*

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
22.	Clause 130 SECURITIES AND INSURANCES	<p>May we ask if the suggested changes shown below in format acceptable?</p> <p><i>This guarantee will expire and shall be returned to the Applicant whichever is earlier of: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Applicant and the Performance Security issued to the Beneficiary in relation to such Contract Agreement; or (b) if the Applicant is not the successful Bidder upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the bidding process; or (ii) twenty-eight (28) days after the end of the Bid Validity Period; or (c) [10/1/20] (expiry date)</i></p> <p>Our insurer suggests that the expire date of the Bid Security be defined similarly to the Performance Security and Bank Guarantee for Advance Payment and Retention Money. We would appreciate it if you consider the amendments as stated above.</p>	<p>If the Bidder refers to the 1st Paragraph on Page BF-11 of Form of Bid Security (Bank Guarantee) in Section IV Bidding Forms of Volume I, the underlined changes is accepted:</p> <p>This guarantee will expire and shall be returned to the Applicant <u>on [the specific date after twenty eight (28) days beyond the original bid validity period from the Bid submission deadline] or, in any of the case in (a) or (b) below, whichever comes earlier:</u> (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Applicant and the Performance Security issued to the Beneficiary in relation to such Contract Agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the bidding process; or (ii) twenty eight (28) days after the end of the Bid Validity Period</p>
23.	GS-19 105 Project Information Sign Board	What is the size & quantity of project information sign boards?	As stated in GS 105.1 Refer to DPWH Standard Specifications for Highways & Bridges (2013) for project sign requirements.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
24.	GS-21 106.2.1 Batches, Samples & specimen	Can we use the DPWH stanerd requirement for material testing in getting material samples?	As a general guide, the DPWH standard requirements can be referred to with due regard to GS 106.3.2 Test Plans Testing Plans shall be submitted to the Engineer's consent in accordance with the WorksRequirements Appendix 2 [Quality Assurance & Quality Control Requirements] Regulations madee by requirements issued by Philippine Government shall also be followed and specified.
25.	GS-30 106 Testing	What are the lists of equipment, apparatus & tools to be used for laboratory testing Civil and Architectural works?	106.2 Testing of Civil Works and Architectural Works (a) The Contractor shall be responsible for all on-Site and off-Site testing and for all in-situ testing. All appropriate laboratory tests may be carried out in the Contractor's laboratory, or tests may be carried out in other laboratories... The Contractor is responsible for determine the testing equipment to be provided. He should be guided by GS 115 QUALITY ASSURANCE AND QUALITY CONTROL REQUIREMENTS and Appendix 2 - Quality Assurance and Quality Control Requirements.
26.	GS-171	For TPV does Employer will approve first for this	Yes.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	142 Third Party Verifier (TPV)	particular consultant ?	Third Party Verifier means a qualified person to be appointed by the Contractor, who shall be the person listed in the Contract or for whom <u>consent has been obtained from the Engineer</u> , to check and certify the design by the Contractor or his design subcontractor prior to design submission to the Engineer.
27.	GS 167 139.7 The Extent of Pre- Construction Condition Survey	(c) Buildings, infrastructures and main utilities distance of three times of width from spring line. Please clarify what is this spring line?	<p>“Spring line” is the side wall point of NATM Tunnel that most largest width point of side wall and start point of Upper Radius in Arch.</p>  <p style="text-align: center;">■ Spring Point</p>
28.	GS 159 138.1 c) Addendum No 9: Contractor's Maintenance Period	If the Contractor is now expected to undertake maintenance of the CP104 Plant during the Defect Notification Period, then please provide:	Please refer to Annex "B" and "Annex "C" of GBB No.6_ as to revised GS 138.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		a) terms and conditions of the maintenance service, b) schedule of payments; c) BOQ Items for Contractor's Maintenance; d) location where maintenance is to take place; e) Contractor's use of maintenance equipment provided by CP106. f) Contractor's use of Contractual Spare Parts provided to the Employer.	
<i>Volume II Part2 Works Requirements Section VI Works Requirements – Technical Specification (TS)</i>			
29.	Technical specifications (TS)- 3. Mechanical, Electrical and Plumbing TS1212.2.1 1) Duct Insulation (a) and (b).	Reference is made to Technical specifications (TS)- 3. Mechanical, Electrical and Plumbing TS1212.2.1 1) Duct Insulation (a) and (b). Please define the difference of Type-A duct and Type-B duct	In the said Section enumerated the type of insulation to be used and their application. Contractor to select the type of insulation depending on its application.
30.	Technical specifications (TS) • 3. Mechanical, Electrical and plumbing TS1213.1.5 (b).	Reference is made to Technical specifications (TS) • 3. Mechanical, Electrical and plumbing TS1213.1.5 (b). We understand that the limited warranty of VRF AC unit, 10 years, will not be required for the compressor. Please confirm if our	As stated please see Section 1213.1.5, (a) & (c) of the Technical Specification for reference.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		understanding is correct.	
31.	Technical specifications (TS)-3. Mechanical, Electrical and Plumbing TS1213.1.5 (a) and (c) and TS12133.8 VRF System Commissioning 5) VRF Equipment Warranty (c).	Reference is made to Technical specifications (TS)-3. Mechanical, Electrical and Plumbing TS1213.1.5 (a) and (c) and TS12133.8 VRF System Commissioning 5) VRF Equipment Warranty (c). There is a discrepancy in limited warranty for compressor. We interpret the warranty shall have 6 years from the date of installation. Please confirm and advise.	As stated in the Technical Specification if the condition of item (a) is satisfied, otherwise item (c) will be used.
32.	Technical specifications (TS)- 3. Mechanical, Electrical and Plumbing TS12132.1 Outdoor unit 1) General (i).	Reference is made to Technical specifications (TS)- 3. Mechanical, Electrical and Plumbing TS12132.1 Outdoor unit 1) General (i). The table for the specifications of salt spray is not clear. Please provide the clear copy.	Standard industry practice related to this to be followed.
33.	to Technical specifications (TS)- 3. Mechanical, Electrical and plumbing TS1213.3.2 Service	Reference is made to Technical specifications (TS)- 3. Mechanical, Electrical and plumbing TS1213.3.2 Service. We interpret NO requirement of heating mode and defrost mode in the VRF AC unit. Please confirm and advise.	Contractor to decide as per Manila conditions.
34.	Technical specifications (TS)- 3.	Reference is made to Technical specifications (TS)- 3.	Vendor warranty can be applicable.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Mechanical, Electrical and Plumbing TS1214.1.8, TS1215.1.10, TS1216.1.8, TS1217.1.6, TS1218.1.6 and TS1219.1.11.	Mechanical, Electrical and Plumbing TS1214.1.8, TS1215.1.10, TS1216.1.8, TS1217.1.6, TS1218.1.6 and TS1219.1.11. Please define the condition of "specified period" for special warranty for; <ul style="list-style-type: none"> • TS1214: Fan coil unit • TS1215: Air Handling unit • TS1216: FAN • TS1217: chilled water pump • TS1218: Condenser Water pump TS1219: Cooling Tower	
35.	Technical specifications (TS) - 3. Mechanical, Electrical and Plumbing TS1234.2.2 Pipe and Fittings	Reference is made to Technical specifications (TS) - 3. Mechanical, Electrical and Plumbing TS1234.2.2 Pipe and Fittings. We interpret pipe material of sewage system is; <ul style="list-style-type: none"> • Cast Iron: soil and waste pipe • Ductile Iron: pressurized soil and waste pipe • Polyvinylchloride Pipe: vent Pipe Please confirm and advise.	No PVC pipe shall be used.
36.	Technical Specifications (TS) - 3. Mechanical, Electrical and Plumbing	Reference is made to Technical Specifications (TS) - 3. Mechanical, Electrical and Plumbing	The assumptions are correct.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	TS1235.2.2 Pipe and Fittings.	TS1235.2.2 Pipe and Fittings. We interpret pipe material of Storm Drainage system is; <ul style="list-style-type: none"> • Cast Iron: Soil and waste pipe • Ductile Iron: pressurized soil and waste pipe • Polyvinyl Chloride pipe: vent pipe Please confirm and advise.	
37.	Technical Specifications (TS)-3. Mechanical, Electrical and Plumbing TS1236 Package Type Sewer Treatment Plant	Reference is made to Technical Specifications (TS)-3. Mechanical, Electrical and Plumbing TS1236 Package Type Sewer Treatment Plant. Please specify the water condition of influent of sewage treatment.	Influent is considered as Human waste only because collective waste from the Water Closet shall go to the STP
38.	Technical specifications (TS)- 6. Tunnel Lighting	Reference is made to Technical specifications (TS)- 6. Tunnel Lighting. There are no Contract/Reference Drawings for the Tunnel Lighting in the Bidding Documents. Please confirm or Provide the drawings should there be any drawings for the Tunnel Lighting.	Tunnel Lighting is under Railway System's scope of work.
39.		Reference is made to Technical specifications (TS)- 3. Mechanical, Electrical and Plumbing TS1231.2.1 Technical and Installation Requirements. We interpret the material of tunnel ventilation duct going to	Ductworks going to ventilation shaft shall be concrete duct and same is under civil work. The outside of the station box should be concrete by civil scope.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		ventilation shaft, which is civil works, is galvanized iron sheet. Please confirm.	
40.	Technical Specifications (TS), 3: Mechanical, Electrical and Plumbing p. 68 1111 Electrical Power System 1111.1.2 References (a) Philippine Electrical Code (PEC) (b) National Fire Protection Association (NFPA) (c) Japanese Industrial Standards (JIS) (d) Other equivalent International Standards	Should comply all standards?	(a) Philippine Electrical Code (PEC) <i>and</i> (b) National Fire Protection Association (NFPA) <i>or</i> (c) Japanese Industrial Standards (JIS) <i>or</i> (d) Other equivalent International Standards
41.	Requirements/ Technical Specifications (TS), 3: Mechanical, Electrical and Plumbing p. 158 1121 Low Voltage Power Cables 1121.1.4 References	Should comply all standards?	The cables shall comply with the latest issue of the following Standards: (a) Philippines Electrical Code (2017) <i>or</i> (b) Japanese Industrial Standard (JIS) <i>or</i> (c) IEEE Standard 894 – Power Cable Ampacity Level

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	The cables shall comply with the latest issue of the following Standards: (a) Philippines Electrical Code (2017) (b) Japanese Industrial Standard (JIS) (c) IEEE Standard 894 – Power Cable Ampacity Level		
42.	Technical Specifications (TS), 3: Mechanical, Electrical and Plumbing P 298 1203 Elevator 1203.1.1 Introduction Manila Metro Subway Project shall be equipped with Heavy Duty machine-room less Elevators as listed in this technical Specification. The elevator design should comply with ASME, PMEC, EN-81 & JIS codes and any latest edition which is applicable for Elevator System as per the industry practice.	Should comply all standards?	Manila Metro Subway Project shall be equipped with Heavy Duty machine-room less Elevators as listed in this technical Specification. The elevator design should comply with ASME or PMEC or EN-81 or JIS codes or any latest edition which is applicable for Elevator System as per the industry practice.
43.	Technical Specifications (TS), 3:	Should comply all standards?	Manila Metro Subway Project shall be equipped with

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	<p>Mechanical, Electrical and Plumbing p. 616 1233 Escalator 1233.1.1 Introduction Manila Metro Subway Project shall be equipped with Escalator as listed in this technical Specification. The Escalator design should comply with ASME, PME C,EN-115 & JIS codes and any latest edition which is applicable for Escalator System as per the industry practice.</p>		<p>Escalator as listed in this technical Specification. The Escalator design should comply with ASME <i>or</i> PME C <i>or</i> EN-115 <i>or</i> JIS codes <i>or</i> any latest edition which is applicable for Escalator System as per the industry practice.</p>
44.	<p>Concrete Cores from Diaphragm Wall</p>	<p>2004.4.1 Sampling and Testing "The frequency of coring shall be and 1% for diaphragm wall panels with minimum of 2 numbers in each station or as instructed by the Engineer." Please clarify what is the 1% and if this is for the whole station/block? (For instance 100 panels we have to test 1 panel only??)</p>	<p>One cored hole per 1,000 linear meters. The size of core shall be nominal diameter of at least 50 mm. The total core recovery of the cores shall not be less than 85%. A minimum of four samples shall be tested for strength and stiffness, and the results shall comply with the minimum requirements specified in the design.</p>
45.	<p>TS 4: Underground Structure</p>	<p>2002.4.5 Groundwater quality and level</p>	<p>Yes, this is separate from the Environmental Monitoring</p>

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	p. 29 Field Monitoring Program	Is this a different item from environmental monitoring program from general specifications?	Program Environmental Management: 118.3 Contractor's Environmental Management and Monitoring Plan Part II Environmental Impacts Management (c) Surface Water and Groundwater Quality Management Plan. Item 2002 referring to Geological soil investigation, not general environmental monitoring.
46.	TS4-144 2012.2 Utilities Settlement Report	Does the contractor still need to include this report if they plan to relocate the utilities afterwards?	Yes
47.	TS-9 200.2.1 Temporary works / Design	The bidder acknowledged that design of temporary works is contractor's responsibility. As a reference on the extent of design calculation, can we request for a sample calculation, i.e.Kinpost.	No, the work shall be as detailed as for the Permanent Works. See GS 110.3 Temporary Works Design The Contractor shall, prior to commencing the construction of any Temporary Works, submit a certificate to the Engineer signed by TPV certifying that the Temporary Works have been properly and safely designed and checked and that the Contractor has checked the effect of the Temporary Works on the Permanent Works and has

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			found this to be satisfactory.
48.	TS-9 200.2.9 Temporary works / Design	Item 2000.2.9 Temporary Decking & Ped. Bridge - under which specific clause for DPWH-SS will follow for this Item?	Temporary Pedestrian Bridge and Temporary decking are to be designed by the Contractor. The designs shall comply with relevant clauses of DPWH-Standard Specifications. There are no specific clauses from the DPWH Standard Specs that can be indicated at this time.
49.	TS-140 2011.3.1 water proofing membrane	Does Bentonite Waterproofing Membrane acceptable to use?	TS 2011.3 Waterproof Membrane Material Guideline The Contractor shall select material for waterproofing from the Table below, also may propose other material with the equivalent quality. Table 2011.3.1 Test and Standard Guide Line for Waterproof Membrane Material Since Bentonite Waterproofing membrane is not mentioned in Table 2011.3.1, he needs to get the Engineer's approval.
50.	TS4 page 147 2012.4.4 Monitoring Item	Figure 2012.4.1 Monitoring Item What is the specifications/standards of the instruments use for monitoring of the structures?	TS 2012.1 (h) The proposed type and location of instrumentation shall include methods for the installation, calibration and running of the instrumentation system. All critical structures should have real time monitoring system which can be monitored by the Engineer on real time. General

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			<p>TS 2012.4.4 (h) Detailed monitoring program in reference to Table 2012.4.2 of the ground behaviour shall <u>be designed and carried out upon consent of the Engineer</u></p> <p>As indicated above, it is the Contractor's responsibility to design an instrumentation program including selection of instrumentation for the Engineer's approval</p>
51.	TS pg.36 2003.1 General / EarthWorks for Station Construction	"In regards to others not specified in those specifications, codes, standards, and guidelines of related authorities of the Philippines shall be applied, including, but not limited to, Department of Public Works and Highways – Standard Specification for Highways Bridges and Airport (2012 Edition)". - Can the Contractor use also the latest edition of DPWH-SS?,and in particular also in other items as a general requirement?	<p>Latest edition of the DPWH Standard Specifications is dated 2013,but also referred to as the revised 2012 edition.</p> <p>The DPWH Standard Specification is shown as a reference in these specifications.</p>
52.	TS4 - pg.112 2008.17 Contractor's Tests of Steel Reinforcing Bars	Contractor recommends that all tests shall be performed by an ISO 17025 Testing Laboratory like Philippine GeoAnalytics (PGAI) and/or by Metals Industry Research and Development Center, a government-recognized testing	The Contractor may select a local testing laboratory subject to the approval of the Engineer as indicated in TS 2008.17

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		laboratory by the Bureau of the Philippine Standards (BPS).	
53.	TS4 - pg.106 2008.4.2 Criteria for Couplers	DPWH Department Order No. 113 also requires fatigue tests. Please confirm if fatigue test compliance is also required. For your information, no Philippine third party laboratory has the capability of fatigue and slip tests for they are usually performing only static tensile tests locally.	It is local practice to have fatigue and slip tests performed in Singapore or Taiwan, if such tests are required.
54.	TS4 - pg.110 2008.11.2 Testing	Each sample of bar reinforcement shall be tested to determine the yield stress, elongation, tensile strength, bending and re-bending properties, chemical composition, bond property and unit mass. Additionally, each sample shall be tested to determine the thickness, adhesion and continuity of the coating. Please define/clarify what is this "re-bending properties".	The ASTM E-290 standard covers bend and re-bend testing of bars primary for evaluation of their ductility.
55.	TS4 - pg.113 2008.22 Cutting and Bending Reinforcement	Reinforcement shall be bent and cut in as appropriate to the specified shapes and dimensions. The basis of measurement is out to out, in	The CRSI Manual of Standard Practices may be used as a reference

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		accordance with CRSI Manual Standard Practices. Can we use CRSI Manual Standard Practices for basis?	
56.	TS4 - pg.115 2008.24.1 Tolerances of Reinforcement Bending and Fixing	Can we use CRSI Manual Standard Practices for basis for fabrication tolerances?	As per TS 2008.24.1 Tolerances of Reinforcement Bending and Fixing Cutting and bending reinforcement shall comply with the approved construction drawings.
57.	TS4 - pg.84 2007.2.9 Concrete / Quality Control	As normal practice, temperature of concrete is measured upon arrival of concrete at site and not within 15 minutes from the time of discharge from the mixer.	Temperature shall check upon arrival.
58.	TS4 - pg.84 2007.2.9 Concrete / Quality Control	May we suggest to lengthen the calibration intervals of the thermometer	Please follow the regulation of Philippine Accreditation Bureau.
59.		Reference is made to Clause 2007.2.1.3) of Technical Specification (TS) 4. Underground Structures with respect to the concrete components. Please advise if Pulverised Fuel Ash(PFA) can be proposed in lieu of GGBS as stated in the Technical Specification.	PFA is acceptable by fulfilling of proper test requirement.
<i>Volume II Part2 Works Requirements Section VI Works Requirements – Employer’s Drawings (DRW)</i>			
60.	DRG. NO. STN-MEP-VAC-CWD-0104, General Note 32 and DRG. No.	Reference is made to the DRG. NO. STN-MEP-VAC-CWD-0104, General Note 32 and	Please see layout drawings for reference

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	STN-MEP-VAC-CWD-1109.	DRG. No. STN-MEP-VAC-CWD-1109. Please specify the location of Concrete Air Duct or plenum shown in "Guide vane Inside Ducts" of the DRG NO. STN • MEP-VAC-CWD-1109.	
61.	DRG. NO. STN-MEP • VAC-CWD-1109.	Reference is made to the DRG. NO. STN-MEP • VAC-CWD-1109. Please issue the DRG. NO. ACM-MMSP-D-TS-TVS-1003 referred to in "Typical Installation Detail for volume control Damper Inside Concrete Duct" of the DRG NO. STN-MEP-VAC-CWD-1109.	This is typographical error. This drawing reference will be deleted. Necessary addendum shall be shared.
62.	DRG. NO. STN-MEP-VAC-CWD-0104, General Note 37 and DRG. NO. STN-MEP-VAC-CWD-1112	Reference is made to the DRG. NO. STN-MEP-VAC-CWD-0104, General Note 37 and DRG. NO. STN-MEP-VAC-CWD-1112. We understand that the weather proof type acoustic lining stated in the DRG. NO. STN-MEP-VAC-CWD-0104 shall be as shown in "End view" of the DRG. NO. STN-MEP-VAC-CWD-1112. Please confirm and advise.	Please refer to Sec. 1229 of Technical Specification for clarification.
63.	STN-MEP-VAC-CWD-1103	Reference is made to the DRG. No. DRG. No. STN-MEP-VAC-CWD-1103. Please clearly indicate Which fan shall be equipped with the acoustic	Please consult Technical Specification and Project Acoustic Requirement for reference.

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		enclosure in "Detail of Fan Acoustic Enclosure" of the DRG. NO. STN-MEP-VAC-CWD-1103.	
64.	DRG. NO. STN-MEP-VAC-CWD-0104, General Note 31	Reference is made to the DRG. NO. STN-MEP-VAC-CWD-0104, General Note 31. We understand that the external louvers for not only the tunnel supply/exhaust shaft but also the supply/exhaust shaft are by the civil works contractor. Please confirm and advise.	Please confirm Technical Specification for reference.
65.	STN-MEP-FPS-ON-4101	Reference is made to the STN-MEP-FPS-ON-4101. A check valve for the Main Fire pump is not shown on the plan drawing but indicated on the schematic drawing. We interpret there is a check valve. Please confirm and advise.	Confirm that there is a check valve
66.	STN-MEP-FPS-ON-410	Reference is made to the STN-MEP-FPS-ON-4101. A check valve for the Jockey pump is not shown on the plan drawing but indicated on the schematic drawing. We interpret there is a check valve. Please confirm and advise.	Confirm that there is a check valve
67.	DRG. NO. STN-MEP-FPS-ON-3241	We interpret the tapping point for the Wet Stand pipe & Hose System for the tunnel shall be at the	Respect the distance given on the tunnel side; but the reference point on the beginning or the end portions shall be

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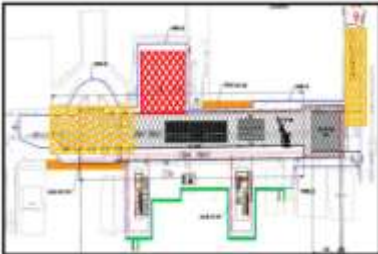
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		end of the fire pipes indicated on the plan layout at the platform level of the fire protection (DRG. NO. STN-MEP-FPS-ON-3241). Please confirm and advise.	besides the stations.
68.	Drawing Numbers TN-CE-TBM-0006 and 0007.	Reference is made to the Drawing Numbers TN-CE-TBM-0006 and 0007. a) Please advise if " Bolt socket Ø20" is same as "Insert Plug" of which details are indicated in the drawing number TN-CE-TBM-0056. If this is a case, please clarify that " Bolt socket" is Ø20 whilst "Insert Plug" is Ø16. Also, please confirm that CP106 should supply CP104 with "Insert Plug" as stated in Appendix 4 to General Specifications (GS). b) Please advise if "Chemical Injection Hole" means "Dimple" for possible locations of drilling holes for chemical grouting.	a) Bolt Socket is φ20, Insert Plug is φ 16. Interface is accommodating that supply is CP106 and fix is CP104. b)"Chemical Injection Hole" will be removed as addendum.
69.	TN-CE-TBM-0014	Please confirm if the denotes S1, S2 and S3 for"D12 Loop Bar" shown on the Drawing Number TN-CE-TBM-0014 should be read as R1, R2 and R3 respectively.	It is correct.
70.	TN-CE-TBM-0051, 0052 and 0053	Reference is made to the Drawing Numbers TN-CE-TBM-0051, 0052 and 0053 showing	a)Strait section will carried out that using combination of Type 43 and Type 51.

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		<p>application of the segment types.</p> <p>a) Please advise if a combination of the tapered segments "Type 43" and/or "Type 51" can be used for the straight section.</p> <p>b) It seems that the segment Type 43 / Type 51 rings take into consideration horizontal curves but not vertical curves. Please advise.</p>	<p>And also carried out adjusting alignment by construction moving.</p> <p>b)Contractor can propose as shop drawing.</p>
71.	Number TN-CE-TBM-0056	Please confirm that "Insert Plug" shown on the Drawing Number TN-CE-TBM-0056 shall be cast in all segments regardless their types.	Insert Plug shall be cast in all segment fixing by CP104.
72.	UT-GE-GN-0013	Reference is made to the Drawing Number UT-GE-GN-0013 showing the procedure of TBM arrival. Please note that this drawing contains only "Step 3" and "Step 4". Please provide the drawings showing the previous and/or subsequent steps if any.	"STEP 3"and "STEP 4" will be amended to "STEP 1""STEP 2" in Addendum.
73.		Please furnish us with the drawings showing the Works Area and general layout of the station structure at the TBM arrival shaft of Kalayaan Avenue station for our planning of the TBM arrival, retrieval and transportation.	Reference Drawing will be shown in Addendum.

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74.	TN-CE-TBM-0008	Please advise if "Detail of Erector Grip Socket" shown on the Drawing Number TN-CE-TBM-0008 is indicative for reference and the detail shall be developed to suit the contractor's proposed equipment for lifting of segments.	"DETAIL OF ERECTOR GRIP SOCKET" can be proposed in shop drawing by contractor.
75.	GN-CE-GN-0001	Reference is made to the Drawing Number GN-CE-GN-0001. Concrete slumps specified in the Note Number 3.2 are inconsistent with those tabulated in Table 3-1. Please clarify.	"Table 3-1" is correct.
76.	TN-CE-TBM-0001	We refer to the Drawing Numbers TN-CE-TBM-0001 showing the horizontal alignment and chainages of the TBM tunnels adjacent to the Ortigas North Station and TN-CE-NTM-0001 showing the horizontal and longitudinal profiles and chainages of the NATM tunnel. There are discrepancies in the chainages between these two drawings as below: a) The TBM starting edge chainage (Northbound) is 13k974m375 on the Drawing No. TN-CE-TBM-0001 whilst the chainage at the starting point of the NATM tunnel is 13k979m875 on the Drawing No.	a)"13k979m875" is correct, it will be amended in Addendum. b)NATM construction end is "14k 266m 584" .

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		<p>TN-CE-NTM-0001.</p> <p>The TBM starting edge chainage (southbound) is 14k262m000 on the Drawing No. TN-CE-TBM-0001 whilst the ending chainage of the NATM tunnel is 14k266m584 on the Drawing No. TN-CE • NTM-0001. Please clarify and advise.</p>	
77.	<p>OS Station Site Utilization Plan Trackworks</p> <p>Dwg UT-CE-OS-0009 has now been issued as Revision 1. The drawing is marked as reference only.</p> <p>The area required by CP106 now occupies a majority of the area of OS Station. No information is provided for ON Station.</p>	<p>Please confirm all the areas and access openings required by CP106 for installation of trackwork and the dates when they will occupy them.</p>	<p>CP106 shall install track rail from OS Station, and other equipment shall be installed from ON Station and OS station. CP106 working area and access opening should be conformed with CP106 as interface coordination after contract is awarded.</p> <p>CP106 access date is mentioned at Particular Conditions.</p>
78.	<p>Interfacing with CP106 Contractor</p> <p>DRG No. UT-CE-OS-0009 ORTIGAS SOUTH STATION SITE UTILIZATION PLAN TRACK WORKS (revised GBB No.5)</p> <p>See Attachment for enlarged drawing</p>	<p>the Ortigas South Station ③①-③⑤ Opening Area and the Area of proposed Track Works Yard in this drawing will be provided from CP104 to CP106. Please clarify the period and Area provided to CP106.</p> <p>1) The provided period will start from the date of KD2.2. Is this correct?</p> <p>2) The provided period will end 5 months after the date</p>	<p>1) It is correct.</p> <p>2) Duration should be clarified with CP106 as interface coordination.</p> <p>3) 4) It also should be clarified with CP106 as interface coordination.</p>

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		<p>of KD2.2. Is this correct?</p> <p>3) If Question 1) and 2) are not correct, please provide the start and end date of the period of Area provide to CP106.</p> <p>4) Please change the "Area of proposed Track Works Yard" as shown in the attached re-proposal Area figure</p>  <p>Fig re-proposal Area * 1 * Refer enlarged vie at the end</p> <p>The orange hatch is the CP104 Area The red hatch is the new CP106 Area</p> <p>The reason is that if we will provide to CP106 the black hatch area, the construction of all station work will be stop and we will not be able to start the entrance on the Kalayaan station side.</p>	

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79.	SPL-PBI-P-ON-50011 and SPL-PB2-P-ON-5001	Material specifications for the storm drainage pipes stated in the drawing numbers SPL-PBI-P-ON-50011 and SPL-PB2-P-ON-5001 are not consistent with those specified in Technical specifications (TS)-5. Pedestrian Bridge TS2323.2 2). Please clarify and advise.	Material specifications provided in the drawing shall govern. Technical Specification to be updated as below: Storm Drainage Piping Materials Polyvinyl Chloride (pvc), series 1000 with maximum SDR of 34 conforming to ASTM D 3034 for 150mmø and below. Reinforced concrete pipe (RCP) conforming to ASTM C-76 for 150mmø above with hub and spigot joints CLASS IV wall B. Sump pump discharge line - stainless steel JIS G 3459 SCH. 20 or type 34 conforming to ASTM A312
80.	SPL-PBI-P-ON-5008 and SPL-PB2-P-ON-5008	Details and dimensions of the gutter drain shown on the drawing numbers SPL-PBI-P-ON-5008 and SPL-PB2-P-ON-5008 are not consistent with the product specifications stipulated in Technical Specifications (TS)- 5. Pedestrian Bridge TS2323. 2 3). Please clarify and advise.	Details and dimension of gutter drains on the drawings shall be used. Technical Specifications to be updated as below: Gutter Roof Drains 1. Standard: ASME A112 6.4, for gutter roof drains. 2. Body Material: Metal. 3. Dimension of Body: Nominal 6 inch (152 mm) diameter. (Delete) 4. Outlet: Bottom. 5. Dome Material: Bronze. 6. Vandal-Proof Dome: Required.]
81.	SPL-C-DR-ON-1041, CW-CE-ON-1008	Please advise if the details of the tapping points to the existing manholes, OT-F, G, H and I shown on the	Location of manholes to be checked with the drawing CW-CE-ON-1008. Existing manholes are reflected in these

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		drawing number SPL-C-DR-ON-1041, should refer to those shown the drawing number CW-CE-ON-1008.	drawings
82.	SPL-WS-ON-6001.	Reference is made to the drawing number SPL-WS-ON-6001. We interpret "Stub-out" shown on the drawing is a plug or an end flange not a valve with a box for future use. Please advise and confirm.	Yes, we confirm. Stub-out in 6001 is just provision for possible future water supply up to the property limit.
83.		Please advise if the size and locations of the temporary openings in the roof/floor slabs within the launching and arrival shafts of the tunnel boring machines (TBMS) can be adjusted as the contractor's Temporary Works to suit the proposed methodology and details of the TBMs or the details of the temporary openings indicated on the contract Drawings should be adopted.	Material specifications provided in the drawing shall govern. Technical Specification to be updated as below: Storm Drainage Piping Materials Polyvinyl Chloride (pvc), series 1000 with maximum SDR of 34 conforming to ASTM D 3034 for 150mmø and below. Reinforced concrete pipe (RCP) conforming to ASTM C-76 for 150mmø above with hub and spigot joints CLASS IV wall B. Sump pump discharge line - stainless steel JIS G 3459 SCH. 20 or type 34 conforming to ASTM A312
<i>Volume II Part2 Works Requirements Appendix 8</i>			
84.	APP 8 -18	This is to clarify if Auto Cad software were not	The native file format that is used to produce all Detail design

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	1.9.1 Work Requirement / Software Platform	necessary to use for the whole duration of work since this software is not included in BIM Technical Requirements.	drawing is .dwg which AutoCAD was used. AutoCad can be used to all other application in the duration of the project. It is not mandated but it is practical to use it based on the existing file format condition. The 1.9.1 Software Platform is intended for BIM works only which the contractor's scope for LOD 500 as-build.
<i>Volume IV Part3 Condition of Contract and Contract Forms</i>			
85.	GC 45~46 & PC 14 GC 14.1 subparagraph (b) & PC 14.1 (i) The Contract Price	Please clarify the two (2) conditions reflected below for it seems that they contradict to each other: Contract Price and Payment GC 14.1, addendum to the subparagraph (b); Contractor's Equipment, including essential spare parts therefor, imported by the Contractor for the sole purpose of executing the Contract "shall be exempt" from the payment of import duties and taxes upon importation while in PC 14.1 (i) states that; All duties and related fiscal charges imposed in the Republic of the Philippines on the Japanese companies operating as suppliers and contractors with respect to the import and re-export of their own materials and equipment needed for the	Import Duty and Import VAT for the importation of materials and equipment needed for implementation of the Project (refer to ITB 14.7, 1. i.) shall be paid by the Employer directly to the relevant Philippine government agencies concerned, e.g. the Bureau of Customs. Thus, Duty and VAT on such imported items shall not be included in the Bid Price.

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		implementation of the Project "shall be assume" by the The Government of the Republic of the Philippines shall, by itself or through its executing agency.	
86.	PC-14 14.1 ii The Contract Price Fiscal, Levies and Taxes imposed in the Republic of the Philippines	It is stated that "all fiscal, levies and taxes imposed in the Republic of the Philippines on the Japanese companies operating as suppliers and contractors with respect to the payment carried out for and the income accruing from the supply of products and/or services required for the implementation of the Project." Based on the above Clause, incase the Contractor will be asked to pay for local taxes by Local Government Unit (LGU) in securing the Contractor's permits and licenses (ie: Business License etc.) for the implementation of the Project, it is our understanding that it will be the Employer's responsibility to assume these local taxes and deal with the concerned government agencies (LGU) for the settlement of these local taxes.	The Bidder's understanding is correct.

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87.	PC-8 Attach 2 Access for CP103 to Retrieve Two TBM's from ON Station The commencement of provision of the two (2) TBM Retrieval Windows shall be no earlier than the end of Month 23 in the Contractor's 67 month Contract Programme then the CP103 contractor may have possession for up to 5 months for the retrieval of each TBM; with the relevant works areas handed back to the Contractor no later than at the end of Month 40 on the Contractor's Contract Programme.	a) The period of access for CP103 to retrieve two TBM's 17 months from end of Month 23 to end of Month 40. The access for CP106 to stations is Week 165 (the end of Month 38) for trackwork is Week 186 (the end of Month 43). This does not allow sufficient time for completion of platforms with all their architectural and MEP works or the completion of invert concrete in the stations. Please consider a reduction from Month 40 to Month 34 for CP103 access.	Please refer to revised Attachment 2A and 2B as stated in Annex "B" and Annex "C" of GBB No. 6.
88.	PC- 9 Attach-1 Insurance Mention is made of loss during the DLP (Defects Notification Period).	Please confirm that the Contractor is required to provide insurance during the Defects Notification Period only for work undertaken in the repair of defects.	The Bidder is required to follow requirements in Bidding Documents including, without limiting to: (i) Clause 18 [Insurance] of the GCC including the 2 nd paragraph of Sub-Clause 18.2. Attachment 3 Schedule of Insurances including Item 6 Professional Indemnity Insurance.
89.	PC-8 ATTACHMENT -2A	The Contractor CP104 will provide the Contractor	Please refer to revised Attachment 2A as stated in Annex "B"

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	<p>Interfacing with CP103 Contractor (2) Schedule for provision of TBM Windows: The commencement of provision of the two (2) TBM Retrieval Windows shall be no earlier than the end of Month 23 in the Contractor's 67 month Contract Programme then the CP103 contractor may have possession for up to 5 months for the retrieval of each TBM; with the relevant works areas handed back to the Contractor no later than at the end of Month 40 on the Contractor's Contract Programme.</p>	<p>CP103 with dismantling space between the 23rd and 40th months.</p> <p>1) Please clarify the contractor CP104 will be able to close the Top Slab opening Ortigas North Station ②-④ from the 41st month.</p> <p>2) Please clarify the situation of following items in ②-④ area, between the 23rd and 40th months.</p> <p>a) Emergency Staircase construction b) columns construction c) King posts Removal d) Temporary D-Wall on ④ Removal</p> <p>Can we assume that the commencement date for</p>	<p>and Annex "C" of GBB No. 6</p>
90.	<p style="text-align: center;">PC-8 ATTACHMENT-2B</p> <p>Interfacing with CP105 Contractor (2) Schedule for provision of TBW Windows: The commencement of provision of the two (2) TBM Retrieval Windows shall be no earlier than the end of Month 23 in the Contractor's 67 month Contract Programme then the Contractor may have</p>	<p>The Contractor CP104 can use the TBM dismantling space on the Contractor CP105 site between the 23rd and 40th months.</p> <p>1) Can we assume that the commencement date for CP105 is the same month with CP104?</p> <p>2) If the commencement date is different, which Contract Programme, CP104 or CP105, should be followed?</p>	<p>Please refer to revised Attachment 2B as stated in Annex "B" and Annex "C" of GBB No. 6.</p>

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	possession for up to 5 months for the retrieval of each TBM; with the relevant works areas handed back to the CP105 contractor no later than at the end of Month 40 in the Contractor's Contract Programme. The exact timing for each of the 5 month retrieval period shall be agreed upon through mutual consultation between the Contractor and the CP105 contractor.		
91.	MEP	Reference is made to MEP GENERAL WORKS LIST OF ACRONYMS AND DEFINITION OF TERMS. We interpret MTBF (Mean Time Between Failures) is required in ONLY BMS and elevator. Please clarify and confirm.	Applicable to all MEP items.
92.		Reference is made to MEP GENERAL WORKS LIST OF ACRONYMS AND DEFINITION OF TERMS. We interpret No requirement of MTTF (Mean Time to Failures). please clarify and confirm.	Applicable to all MEP items.
93.		Reference is made to MEP GENERAL WORKS LIST	Applicable to all MEP items.

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		OF ACRONYMS AND DEFINITION OF TERMS. We interpret MTTR (Mean Time to Repair) is required in ONLY BMS and elevator. Please clarify and confirm	
94.		Reference is made to MEP GENERAL WORKS LIST OF ACRONYMS AND DEFINITION OF TERMS. We interpret RAMS is required in ONLY BMS, which has No requirement of IA (Inherent Availability) and MART (Mean Active Repair Time). Please clarify and confirm.	Applicable to all MEP items.
95.		Reference is made to MEP GENERAL WORKS LIST OF ACRONYMS AND DEFINITION OF TERMS. We interpret SIL (Safety Integrity Level) is required in ONLY BMS. Please clarify and confirm.	Applicable to all MEP items.
96.	Priority of Answers to RFC	If it is the intention to include RFC with answers as part of the Contract, then please confirm that these will have the same priority amongst Contract Documents as the Addenda.	RFC submitted by Bidders during Bid preparation stage are not intended to form Contract Agreement except for the case that any items of RFC with answers by the Employer which will result in release of Addendum to Bidding Documents. However, request for clarification by the Employer on both Technical and Price Bids from Bidders may form Contract Agreement together with answers from Bidders. Priority of such clarification request by the Employer and answers from

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			Bidders will be discussed with a successful Bidder.