

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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Volume I Part 1 : Bidding Procedures

1.	<p>IV BF-45 Clause-4 Outline System Safety Management Plan The Bidder shall submit as part of his Bid an Outline System Safety Management Plan which shall contain sufficient information to demonstrate clearly the Bidder's proposals for achieving effective and efficient safety procedures in manufacturing, testing, pre-commissioning, commissioning and integrated testing, and</p>	<p>Since the railway systems are predominantly provided by CP106 and CP107, please confirm whether this plan is required or not.</p>	<p>The safety assessment is also applicable to CP104 certain Civil MEPF systems (i.e., Mechanical, Electrical, Plumbing and Fire Protection systems). The contractor needs to ensure that the safety related MEPF equipment's are Safe to operate and meets the safety criteria. The system assurance Safety Certificate, where applicable, must be issued upon system acceptance.</p>
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	<p>minimizing the magnitude and seriousness of events or malfunctions, which could result in injury to passengers or staff and damage to equipment or property, but cannot be completely eliminated. The Outline System Safety Management Plan shall include an outline of safety procedures, regulations and the mechanism used to implement such procedures and regulations for ensuring safety as required under Works Requirements and the Conditions of the Contract.</p>		
2.	III 1.1.8.2	<p>Please confirm that the Bidder is not required to identify, isolate or treat any persons.</p>	<p>The Bidder is responsible to identify, isolate and arrange for infected persons to be treated at a</p>

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	<p>Outline Safety Management Plan</p> <p>“The Bidder’s proposed Outline Safety Management Plan shall demonstrate appropriateness of plan, organization and methodology to manage safety assurance.</p> <p>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”.</p>		<p>Government of the Philippines pandemic treatment center.</p>

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3.	<p>Part 1 Bidding Procedures; Section II Bid Data Sheets (BDS); Sub-Clause 18.3 (b)</p> <p>Section VIII. Particular Conditions; Part A: Contract Data</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ITB 18.3 (b)</td> <td colspan="2">The fixed portion of the Bid Price shall be adjusted by the following factors:</td> </tr> <tr> <td></td> <td colspan="2">The local currency portion (Philippines Peso) of the fixed portion of the Contract price shall be adjusted by applying Consumer Price Index of the Philippines (all items) published by the Philippine Statistics Authority (PSA)</td> </tr> <tr> <td></td> <td colspan="2">The Japanese Yen fixed portion of the Contract price shall be adjusted by applying the consumer price index published by the States Bureau of the Japan</td> </tr> <tr> <td></td> <td colspan="2">Any other foreign currency portion (United States Dollars and or Euros) of the fixed portion of the Contract price shall be adjusted by applying the consumer price index published by the institutional organization in the corresponding country or area.</td> </tr> </table> <p>Performance Security 4.2 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 Accepted Contract Amount and in the same currency(ies) of the</p> <p>Advance Payment 14.2 One instalment of fifteen percent (15%) of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable.</p> <p>A) Will the Accepted Contract Amount be in a single currency or two-currency format? B) If two-currency format, will the Performance Security, Advance Payment Security and Retention Security be in a two-currency format also.</p>	ITB 18.3 (b)	The fixed portion of the Bid Price shall be adjusted by the following factors:			The local currency portion (Philippines Peso) of the fixed portion of the Contract price shall be adjusted by applying Consumer Price Index of the Philippines (all items) published by the Philippine Statistics Authority (PSA)			The Japanese Yen fixed portion of the Contract price shall be adjusted by applying the consumer price index published by the States Bureau of the Japan			Any other foreign currency portion (United States Dollars and or Euros) of the fixed portion of the Contract price shall be adjusted by applying the consumer price index published by the institutional organization in the corresponding country or area.		<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 Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount</p>
ITB 18.3 (b)	The fixed portion of the Bid Price shall be adjusted by the following factors:														
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	Any other foreign currency portion (United States Dollars and or Euros) of the fixed portion of the Contract price shall be adjusted by applying the consumer price index published by the institutional organization in the corresponding country or area.														
4.	Section 4, Bidding Forms, Form FIR-2	<p>In Form FIR-2 it is mentioned in the form that the bidders must submit an Average Invoicing for the last 6 months.</p> <p>We would like to confirm the last month to be considered</p>	<p>Average Monthly Invoicing Over Last Six Months shall be calculated, using the monthly invoice amounts for a certain committed contract which were issued during six (6) months counting from time for preparation of Bids.</p>												

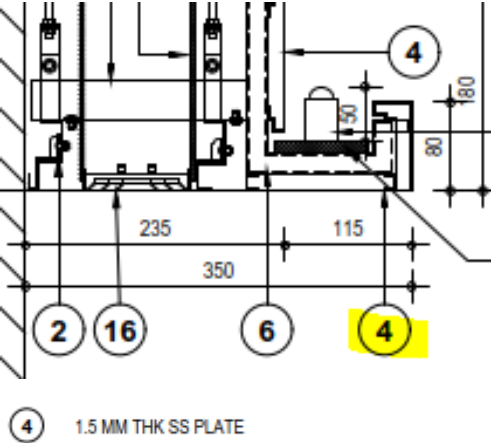
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		as the end of the reckoning period, or will the end month be from end of December or end of November 2020?	
5.	EQC-5 BF-44 1.1.8 2 Evaluation & Qualification Criteria Technical Bid: Contents No 7.6 Work Management Plan	Clause 1.1.8.2 under Work Management Plan, the Health and safety management plan shall be enhanced for for the effects of pandemics and infections. No. 2 of "Technical Bid: Contents No 7.6 Work Management Plan", Outline Safety Management Plan does not include the measures for pandemics.	The Bidder is responsible to identify, isolate and arrange for infected persons to be treated at a Government of the Philippines pandemic treatment center.
6.	Bidding procedure BF-60 Price Bid: Contents No. 2 PRICE LIST OF CONTRACTUAL SPARE PARTS, CONSUMABLES AND SPECIAL TOOLS, JIGS AND TEST EQUIPMENT 2. The total amount of the prices for the spare parts, consumables, special tools) Please confirm that the total amount of 'Price bid: Contents No. 2' shall not be added to 'Price bid: No. 1'. Price bid: Contents No. 2 is independent from No. 1. 2) If Price bid: Contents No. 2' shall be added to 'Price bid: No. 1', Please inform which BOQ column Contractor put the amount. Or please make the new column to put the amount.	The total amount of 'Price bid: Contents No. 2' shall form a part of 'Price bid: No. 1'. Accordingly, the total amount of 'Price bid: Contents No. 2' shall be shown in relevant Pay Items in revised Bill No.4 and No.5 in revised Bill of Quantities , which will be published in separate GBB.

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	and test equipment shall be same amount as offered in the relevant items in the Bill of Quantities and shall be taken into account in bid evaluation.		
7.	Bidding procedure BF-63 Price Bid: Contents No. 3 PRICE LIST OF SPARE PART AND SPECIAL TOOLS TO BE PROVIDED UPON RECEIPT OF EMPLOYER'S INSTRUCTION FOR TWO (2) YEARS AFTER TAKING-OVER OF THE WORKS	1) Please confirm that the total amount of 'Price bid: Contents No. 3' shall not be added to 'Price bid: No. 1'. Price bid: Contents No. 3 is independent from No. 1. 2) If Price bid: Contents No. 3' shall be added to 'Price bid: No. 1', Please inform into which BOQ column Contractor put the amount. Or please make the new column to put the amount.	The total amount of 'Price bid: Contents No. 3' shall not form any part of 'Price bid: No. 1'. Accordingly, the total amount of 'Price bid: Contents No. 3' shall not be filled out in Bill of Quantities.
8.	Volume I of V, Part 1: Bidding Procedures	The date of the exchange rate is not specified.	The date for the exchange rate shall be February 7, 2021

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	Section II Bid Data Sheet BDS-9 ITB 34.1 The date for the exchange rate shall be: <i>[insert a date (day, month and year, e.g., 27 April , 2015), not earlier than thirty (30) days prior to, nor later than, the date for Technical Bid opening, specified in ITB 25.1]</i>	Please specify the date of the exchange rate.	
9.	EQC-6 1.3.1 (1) Exchange Rate for Qualification Criteria For Turnover or Financial Data required for each year	It is stated the "For turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year. Our company's Fiscal Year is from 1st April to 31st March of the next year. As for example for the Year 2020 our FY is from 1 April 2020 until 31 March 2021. We would like to inquire that for the above requirement of the exchange rate, for accuracy of the conversion of our financial data into USD currency, can we apply the	The last day of Fiscal Year of the Bidder which is on 31st March may be used instead of the last day of calendar year.

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		Exchange rate prevailing on the last day of our Fiscal Year which is on 31st March instead of the last day of calendar year?	
<i>Volume IA Part 1: Bidding Procedures Section IV Bidding Forms-Bill of Quantities (BOQ)</i>			
10.	Additional Items	Please confirm that the bidder is entitled to add additional items to the BOQ where the bidder believes this will clarify the payments.	It should not be admitted to add additional item to BOQ.
11.	BOQ-29 Part A Earthworks, and BOQ-38 Part D D.1 Structural Works	The Bidder could not find related location. The Bidder would like the Employer to provide drawing numbers of locations of the Earthwork and related structural work.	Please refer to structural drawings & TS 803 Structural Excavation Dwg No. STN-CE-ON-0001
12.	BOQ-30 Part D.2 Architectural Works,	In No. 1811, Pay Item No. 1811(10) described as Solid Plate. The Bidder would like to confirm whether or not this is Stainless Steel Ceiling Solid Panel?	1811 (10) is item (4) in sheet number STN-AR-A-ON/OS-9064.

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	BOQ-39 Ceiling Works, Solid Plate No. 1811		 <p>④ 1.5 MM THK SS PLATE</p>								
13.	BOQ-208 Part D.1 Structural Works, BOQ211 Concrete Accessories No.901	The Bidder would like to request the Employer to issue descriptions with details for this item.	Concrete accessories are identified in the BOQ <table border="1" data-bbox="1384 1002 2060 1201"> <thead> <tr> <th colspan="2">Concrete Accessories</th> </tr> </thead> <tbody> <tr> <td>18mm premolded expansion joint filler</td> <td>to Portland Cement Concrete Pavement</td> </tr> <tr> <td>6mm weekend groove</td> <td>to Portland Cement Concrete Pavement</td> </tr> <tr> <td>Penetration asphalt seal or cold applied liquid rubber base sealing compound</td> <td>to Portland Cement Concrete Pavement</td> </tr> </tbody> </table>	Concrete Accessories		18mm premolded expansion joint filler	to Portland Cement Concrete Pavement	6mm weekend groove	to Portland Cement Concrete Pavement	Penetration asphalt seal or cold applied liquid rubber base sealing compound	to Portland Cement Concrete Pavement
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18mm premolded expansion joint filler	to Portland Cement Concrete Pavement										
6mm weekend groove	to Portland Cement Concrete Pavement										
Penetration asphalt seal or cold applied liquid rubber base sealing compound	to Portland Cement Concrete Pavement										
14.	BOQ-212 Part D.4 Miscellaneous Works,	This item in Bill No. 7A, 7B described and estimated as 3% of the works.	Contractor to assess these connections but 3% is the percentage provision used for budgetary costing of Builders works.								

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	Builder's works in connection to services	The Bidder would like to request to kindly specify using the same manner as it may not be easy to estimate correctly at the tender stage.	
15.	Bill Nos.2A and 2B	Please advise if the payment for the temporary diaphragm walls will be made under the diaphragm Wall of Bill Nos.2A and 2B for Ortigas North and Ortigas south respectively.	If temporary diaphragm walls are required, it shall be included in item 2000(1) Temporary Works.
16.	Pay Item 2005(1) 'Reinstatement of Subbase and Base Course	May we request for the details/ thickness of Subbase and Base Course be reinstated in this Pay item?	NO detail drawing of this item in Ortigas North Station. Refer to OS station drawing CW-CE-OS-1008,1011
17.	Pay Item 2005(2) 'Reinstatement of Surface Course	May we request for the details and type of Surface Course to be reinstated.	DITTO
18.	Pay Item 2005(4) Curb and Gutter Details	May we request for the curb and gutter details.	Please follow details of existing structure
19.	Pay Item '2013(1), 2013(2), 2013(3), 2013(4), and 2013(5) 'Pipe Culvert	May we request information on where is this items located. The sizes provided are not found on the bid drawings provided. And also we would like to request for the technical specifications	For OS, refer to CE-CE-OS-1012,1013. For ON, refer to CE-CW-ON-1010
20.	Pay Item '2013(8) 'Manhole	May we request a breakdown of the type Manholes for Ortigas North and Ortigas South?	For OS, refer to CE-CE-OS-1012,1013. For ON, refer to CE-CW-ON-1010,1011

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21.	Pay Item '2008(6) 'Drilled Re-bar for Slab to Diaphragm Wall of Entrance/Ventilation shaft	May we request a more detailed technical specification of this pay item	Please follow BOQ
22.	Bill of Quantities, Bill 5B Item 1121 (3a), 1121 (6a)	Please provide location on plans of "XLPE-2 and XHHW-2" since it is reflected in BOQ but not seen on plans. Also, please provide description for XLPE-2 and XHHW-2.	XLPE with LSZH type shall be used. Loads running during Fire Condition shall be Fire Rated type.
23.	Bill of Quantities, Bill 5A and Bill 5B, Section 1201(2)	Please provide Sanitary and Plumbing layout for the tunnel at Ortigas North Station	Refer to Civil drawings.
24.	Bill of Quantities, Bill 5A and Bill 5B, Item 1235(5)	Please provide unit of measurement for the Retention capacity for Oil Grease Trap.	OGT Capacity is mentioned in Equipment Schedule Drawing
25.	Pay Item 1012 (9) a1 Fire Rated Laminated Glass - 30mm	In BOQ, the description of this pay item is "Fire Rated Laminated Glass - 30mm." In the Specifications, it is described as "Fire Rated Laminated Glass – 2-6mm with Polyvinyl Butyral Film Interlayer and Security Film." Please clarify which will govern.	Fire laminated glass of 2.6mm to be followed
26.	Pay Item: 1805 (1) a2, 1805 (1) a3 (1) Stainless steel floor grating - High Voltage Trench (2) Stainless steel floor grating - Low Voltage Trench	Based on our review of bid drawings, there are no dimension specified for this item. May we request detailed drawings for this item.	Trench layout is indicated in the plans. However, sizes may be changed as per latest system requirements which will be part of contingencies

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27.	Pay Item: 1803 (3) a Stainless Steel Cover in between Stair and Escalator	Based on our review of bid drawings, there are no dimension/ lay-out specified for this item. May we request detailed drawings for this item.	Please refer drawing number 9191 Detail D.
28.	Pay Item: 1203 (1) Elevator Handrail - Stainless steel Railing	Based on our review of bid drawings, there are no dimension/ lay-out specified for this item. May we request detailed drawings for this item.	Please refer to Technical specifications provided for elevators.
29.	Pay Item: 1203 (1) Stainless Steel Ceiling Panel	Based on our review of bid documents, there are no detailed specifications and drawings for this item. May we request detailed drawings and specifications for this item.	Please refer to Technical specifications provided for elevators.
30.	Pay Item: Granite Flooring: to Elevator	Based on our review of bid documents, there are no detailed specifications and drawings for this item. May we request detailed drawings and specifications for this item.	Please refer to Technical specifications provided for Elevators.
31.	Pay item 1814 (1) Wall Finishes - Access Panel	Wall Finishes - Access Panel Based on reviewing the Bid Drawing, Drawing Details for Wall Finishes : (1) Access Panel - Type A2 500 x 875 mm (2) Access Panel - Type A2 3000 x 3500 mm (2) Access Panel - Type A2 4500 x 3500 mm (2) Access Panel - Type A2 5000 x 3500 mm are missing. May we request a Detailed drawings & specifications of each type of Access Panels.	Please refer dwg No. STN-AR-A-ON-7102-7103

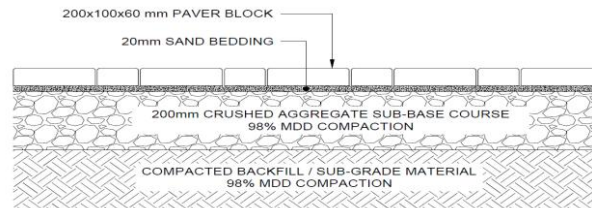
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32.	Pay Item 1813 (5) Digital Signage	Based on reviewing the Bid Drawings, Plans and details for this item is missing. May we request a Detailed drawings and Specification for this item.	No Digital Signage pay item in BOQ
33.	Pay Item 1004 (2) Ironmongeries	Based on the provided Technical specification for ironmongeries, set(s) of ironmongeries for every type of doors are not specified in drawings and Specification. May we request a detailed drawings (schedule, sizes, types, etc.) and specifications for every types of ironmongeries in every types of doors.	Ironmongeries, set(s) of ironmongeries for every type of doors are specified in technical specification. Detail drawings for ironmongery is a part of contractor's scope. Refer dwg no STN-AR-A-ON-7011-7014
34.	Bill of Quantities	There is a given quantity for both Ortigas North and Ortigas South Station in the BOQ but in the technical specifications, it is indicated as "NOT USED" We would like to request technical specification for the following Pay items: Pay Item 800 Clearing and Grubbing Pay Item 1013 Corrugated Metal Roofing Pay Item 1014 Prepainted Metal Sheets Pay Item 1036 Polycarbonate Sheets/Panels Pay Item 1050 Non-Shrink Grout	These items are not used & hence not reflected in the Technical specs. These items to be removed from BOQ. Revised BOQ will be included in the coming GBB.

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35.	Bill of Quantities Bill 4 1018(8)a1 Stainless Steel Warning Hazard Tactile 1018(8)a2 Stainless Steel Directional Tactile	Is the drawing shown below (STN-AR-A-ON-2505) is for Pay iItem 1018(8)a1 Pay iItem 1018(8)a2 Stainless Steel Tactile? Please clarify. Also in the specification it was stated that the stainless steel tactile tiles is colored. Please clarify.	Please consider stainless steel tactile with color as specified in Technical specifications.
36.	1027 (1) Cement Plaster Finish	Please clarify the locations in which this pay item is found.	Please refer to drawings for cement plaster finish wherever applicable. Please also refer Finishes schedule dwg no 0500
37.	1027 (5) Rubbed Concrete Finish	Please clarify the locations in which this pay item is found.	Any spaces having no ceiling will be provided with rubbed concrete finish. Please also refer Finishes schedule dwg no 0500
38.	1033 (2) FRP Chequered Plate Cover	Please clarify the locations in which this pay item is found.	FRP chequered plate is being used in structural drawings. Pay item 1033 (2) - FRP Chequered Plate Cover
39.	Ortigas North Station Bill of Quantities Bill 5A, Item 1211(5)	Please provide details/tagging/sizes of PRD's from BOQ	Bidders to refer to the VAC equipment schedule.
40.	Bill of Quantities Bill	In reference with the Elev-02 South Station, kindly indicate	Bidders to coordinate with Architectural and Civil

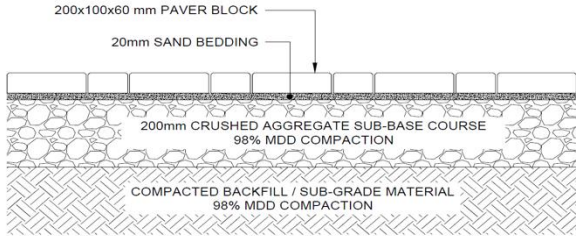


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	5B, Item 1203 (1) STN-AR-A-OS-9671, STN-MEP-VAC-OS-381 2	the correct indication on which are the front and rear panel	drawings.
41.	605 Signages	We request the schedule/breakdown of Signages (quantity, dimension of signage ,type of support) for the following Pay Items 605(1) Warning Signs 605(2) Regulatory Signs 605(3) Informatory Signs	Please refer to the Schedules in the Signage drawings
42.	1813 Signages	We request the schedule/breakdown of Signages (quantity, dimension of signage ,type of support) for the following Pay Items 1813(1) Identification Signs 1813(2) Informatory Signs 1813(3) Wayfinding / Directional 1813(4) Explanatory Signs 1813(7) Evacuation Directions Indicators	Please refer drawing number 8513 for indicative locations
43.	2005(9) Reinstatement	What are the list of street signs to be reinstated?	Quantity mentioned in the BOQ should be used for

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	of Street Signs		bidding
44.	Pay Item 2307 Steel Decking	May we request for the detailed drawing for the steel decking?	As per design calculation, M36 bolts shall be used. Steel Deck Specification is already indicated in the drawings and in the general notes. Refer to SPL-PB1-S-ON-3003 & SPL-PB1-S-ON-3008 for the details.
45.	2305 (4) Painting & Fire Proofing for Structural Steel	May we request for the detailed specification on the type of painting/s to be used?	Type of painting/s are specified in the Technical Specification of PB. Section 1032.
46.	724 Concrete Pavers	<p>Please clarify if this pay item is different from the paver blocks?</p> <p>The technical specification (picture below) states that the size is 203x101.6x2.375mm</p>	Please refer "724 Concrete Pavers".



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		<p>724.2.2 Materials</p> <p>Concrete pavers may have spacer bars on each unit. These are recommended for mechanically- installed pavers. Manually installed pavers may be installed with or without spacer bars.</p> <p>1) Product shape/s, color/s, over all dimensions, and thickness</p> <p>(a) Shape: 203mm x101.6mm x2.375mm</p> <p>(b) Color: Darkest available i.e. to absorb (not reflect) heat.</p> <p>There are also two (2) drawings of the pavers. Please clarify if this is the same or it has a different specification. The first picture is from SPL-C-RD-ON-1034 and the second picture is from SPL-A-AL-ON-2300</p>  <p>  PLANK PAVERS BY QUALITY STAR CONCRETE 368x50x60 MM COLOR: TOUCHSTONE GREY HERRINGBONE PATTERN SET ON: 75MM THK WELL-COMPACTED SAND BED</p>	

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47.	Bill of Quantities Bill 5A and Bill 5B, Item 1210(5)	Does the chemical pot feeder corresponds to chemical dosing or chemical water treatment?	Bidders to refer to the Technical Specification
48.	Bill of Quantities Bill 5A and Bill 5B, Item 1202(4)	In reference to bill of quantities, there is a pay item for motorized valve. However, it is not reflected on plans. Kindly clarify if we will consider this. If yes, please provide location and specification.	Bidder to refer to the schematic diagram and standard details.
49.	Bill (G142), Temporary Works	May we request to provide the specific qualification or criteria of a Third Party Verifier	Pleasereferto the Clause102 of GS "the Abbreviation/Definitions". The Contractor shall appoint the TPV after his consent has been obtained from Engineer
50.	Bill of Quantities, Bill No 6A and Bill No 6B Item No. 400 (5)	In reference to the bill of quantities, there is a pay item for structural concrete for slab on grade however, it is not clearly identified and there are no details given. Is it the same with the Concrete (100mm thk) labeled on Drawing SPL-C-SD-ON-1005 and SPL-C-SD-OS-1005? If yes, kindly provide us the details.	This is reflected in Station Plaza BOQ. Item 400(5) Structural Concrete, Class "AAA" (27.6MPa) for slabs on grade Please refer to SPL-C-RD-ON-1034 for the details of 100mm thick concrete.
51.	Bill of Quantities, Bill No. 6A and Bill No. 6B Item No. 1016	In reference to the bill of quantities, there is a pay item for Fiber Reinforced Asphalt Emulsion however, it is not reflected on the plan. Kindly clarify if we will consider this. If yes,	Fiber reinforced asphalt emulsion was updated into polyethylene sheet membrane. This is reflected in the revised BOQ of CP104 Station Plaza, Item

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		please provide location and specification.	Waterproofing, Polyethylene Slip Membrane Please refer to SPL-S-BS-ON-3012 for details.
52.	BDS-7 ITB 20.1 Bidders are required to include in the CD ROM submitted with the Price Bid the Microsoft Excel files (.xls/.xlsx) for <u>Price Schedules 1.1, 1.2, 1.3 and 1.4.</u>	There are no Price Schedules 1.1, 1.2, 1.3 and 1.4 in the BOQ of the Bidding Form, Section IV. Do those schedules mean Price Schedules 1, 2, 3 and 4 in the BOQ?	Please refer to the revised BOQ
<i>Volume II Part2 Works Requirements Section VI Works Requirements – General Specification (GS)</i>			
53.	General Specification (GS) Page 179 Appendix 1 53.2 3) a) Redundancy The basic function shall be furnished with a redundancy	Please confirm the requirements for redundancy.	Refer to Technical Specifications 3 Mechanical, Electrical and Plumbing 1130.2.2 Hardware Equipment Specification 10) Redundancy Requirements.

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	consideration regarding underground stations and tunnels on mechanical and electrical systems		
54.	General Specification (GS) Page 179 Appendix 1 54.2 3) a) Contingency Plan A contingency plan for a trouble shooting on the mechanical and electrical system furnished under this Contract shall be examined and verified after obtaining a consent from the Engineer.	Please confirm the requirements of the contingency plan and who will provide it.	Refer to Technical Specifications 3 Mechanical, Electrical and Plumbing PART General Requirements.
55.	General Specification (GS) Appendix 5 Page 241 3 Office Equipment Duplicated Items Items 5.3.7 to 5.3.15 are duplicates of items in table 3 above.	Please confirm if the duplicated items are also required.	Items under "Equipment continued" 5.3.7 – 5.3.15 are required to be provided.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
56.	General Specification (GS) Page 163 138.5 c) Delivery of Contractual Spares etc (c) The Contractor shall supply and deliver the Contract Spares at least one (1) month prior to the completion of the Contractor's Maintenance Period unless otherwise designated in the Technical Specifications.	Please confirm that the Contractual Spares are to be delivered to the Employer prior to the start of the Defects Notification Period.	Please refer to revised GS138 published in Annex "C" of GBB No.6.
57.	General Specification (GS) Page 223 Appendix 4 Payment for Structural Openings, Plinths etc Required by CP106	The interfaces in Appendix 4 indicate that a considerable amount of work for CP106 is required to be done by CP104. Since it is not possible to estimate the value of such work accurately at tender, please consider making payment for such work on a remeasured basis.	Since the requirements of CP106 have not been decided, it is not possible to make an accurate estimate at the time of bidding. This will be known after the construction commences. To be estimated by contractor.
58.	General Specification (GS) Page 178 Appendix 1 2.2.3).a).(c) Scope of E&M works: Generators	Please confirm whether the 'diesel generator' is out of CP104 scope due to drawing 'STN-MEP-ELL-OS-2001'.	Diesel generator is supplied by CP106

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	(c) Electrical distribution System including Low Voltage (LV) and Middle Voltage (MV) Power System, emergency power supply with Uninterruptable Power Supply (UPS) and diesel generator,		
59.	General Specification (GS) Page 118 6.3 Appendix7 Page 218 EMF and EGF Initial Allocation To show the commitment of DOTr to establish the EMF and EGF, the amount of Php 250,000.00 for EMF and Php 350,000.00 for EGF will be initially allocated annually. However, the actual amount that will be allocated for EMF and EGF will be finalized during the DED phase and with the consultation of the MMT	Please confirm that the amounts to be allocated to the EMF and EGF should be as shown in GS Appendix 7 Sub-Clause 6.3 and that in the event that these amounts are changed by the DENR EMB, then a variation order will be issued accordingly.	The bidder's understanding is correct.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	upon its creation.		
60.	General Specifications, Section 116.4.1	<p>In reference to General Specifications, Factory Acceptance Test is required prior to delivery for the following Mechanical and Electrical equipment:</p> <ul style="list-style-type: none"> (i) Major components of ventilation, air conditioning, AHN, and smoke exhaust system (ii) Distribution Panels (iii) Communication and information system equipment (iv) Control panels and boards (v) BMS System (vi) Disaster Preventive Control and Monitoring System (vii) CCTV (viii) Fire Alarm Systems (ix) Elevators (witness is required as per Elevator Specs) (x) Escalators (witness is required as per Escalator Specs) 	<p>116.4.2 FAT Procedures and Documentation</p> <p>The Contractor shall develop standardized FAT protocols and documentation as a part of the overall QA/QC procedures required to be established under GS 115.</p> <p>As indicated in 116.4.2 (above), the Contractor shall develop procedures indicating requirements for FAT which will be agreed with the Engineer.</p> <p>The Contractor may choose to include witnesses if he wishes.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		(xi) Pumps (xii) Uninterrupted Power Supply System (xiii) Water Tanks (xiv) FHU (Fire Hydrant System) Kindly clarify if witness is required or just the factory acceptance test certificate/report/document.	
61.	102.1 Excavation	Who will be responsible for the management & maintenance of the designated disposal area?	Management and maintenance will be done by the Site Owner under MOA between the Site Owner and the employer accordingly.
62.	102.1 Excavation	For computation of hauling cost, can we request the definite or alloted allotted volume that can be disposed to each disposal area?	Please find attached. Please note that the employer and the engineer will find out another site for CP104.
63.	102.1 Excavation	Does the contractor need to pay taxes, fees or royalties to the LGU and/or private sector that owns the disposal area?	The employer will have MOA with the owner of the disposal site. There is no need to pay taxes and fees etc. from the contractor. Only if the contractor bring brings and decide the disposal site, the contractor must arrange the condition with that site owner accordingly.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
64.	102.1 Excavation	Can we access the the disposal area 24/7?	It will be discussed with-between the disposal site and the employer <u>and</u> will find a most suitable site that is available 24/7, if 24/7 operation is necessary for the construction
65.	101 Noise and Vibration Monitoring	118.8.7.2 Use of Handheld Noise Meters Please clarify if there's a need to follow a time series and intervals for daily monitoring	<p>Please refer: <u>to</u> 1074:02: Permissible Noise Exposure and 1074:03, OCCUPATIONAL SAFETY AND HEALTH STANDARDS (As Amended, 1989) Department of Labor and Employment Philippines.</p> <p>http://www.oshc.dole.gov.ph/images/OSH-Standards-2019-Edition.pdf</p> <p>The daily noise monitoring is more on the exposure of workers with noise generating activities / equipment, rather than ambient noise. There is no specified duration per the Environmental Monitoring Plan for daily noise monitoring, however, for Health & Safety (according to OSHA & DOLE standards), the duration would base on the measured sound level from the source (whether an activity, machine/equipment) and</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																				
			<p>how long will the worker be allowed to operate or be exposed to it, following this permissible exposure level:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Duration per day, hours</th> <th style="text-align: center;">Sound levels, dBA,</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">8</td><td style="text-align: center;">90</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">92</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">95</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">97</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">1-1/2</td><td style="text-align: center;">102</td></tr> <tr><td style="text-align: center;">1</td><td style="text-align: center;">105</td></tr> <tr><td style="text-align: center;">1/2</td><td style="text-align: center;">110</td></tr> <tr><td style="text-align: center;">1/4</td><td style="text-align: center;">115</td></tr> </tbody> </table>	Duration per day, hours	Sound levels, dBA,	8	90	6	92	4	95	3	97	2	100	1-1/2	102	1	105	1/2	110	1/4	115
Duration per day, hours	Sound levels, dBA,																						
8	90																						
6	92																						
4	95																						
3	97																						
2	100																						
1-1/2	102																						
1	105																						
1/2	110																						
1/4	115																						
66.	GS-30 108 Site Offices for the Engineer	Is there any provision to provide and maintain site offices and motor vehicles for the Employer similar to GS 108?	Contractor to put certain provisional amount for Site Office Consumable and vehicles																				
67.	GS-237 Appendix 5 Motor Vehicles	For the following condition of requirements of motor vehicles, we proposed similar specifications as follows: Item 4.1 MITSUBISHI MONTERO SPORT GLX 2.4L Diesel Engine 4x2 M/T SUV 7-Seater. Item 4.2 NISSAN NAVARRA 2.5L Diesel Engine 4x2	4.1&4,2) To maintain nos of vehicles mentioned in Appendix 5 GS241																				

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		MT Pick-Up Truck 5-Seater	
68.	GS-177 Appendix 1 2.2 3) a) (i) Communication, Security, And Information System Conventional communication, security, and information system and its control and monitoring system at the railway station.	Please provide the requirements with drawings for the communication, security, and information system.	For security, Access control system (BMS) belong to civil package for entire MMSP line includes CP104 as well. Security – CCTV belongs to CP106 Conventional communication- Includes MMSP Railway Telephone system and radio system belongs to CP106. Information system – MMSP Information display system (PIDS) and public announcement system (PA) belongs to CP106.
69.	GS-157 137.2 Training The Contractor shall arrange the special training program at a similar size or similar functioning of subway system and/or part of station before its commissioning.	Please confirm that training may not be arranged at a similar size and similar functioning of subway system and/or part of station, but can be arranged at CP104 site.	Unless it's a similar size and similar functioning subway system and/or part of station, the training can be arranged at CP104 site.
70.	GS-157	Please confirm that class room theory lectures	Class room theory lectures shall be arranged in both

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	137.2 Training (a) Class room theory lecture to ensure a clear understanding of each system in the factory and on the Site	need not be arranged in both the factory and on the Site, but can be on the Site only.	the factory and on the Site.
<i>Volume II Part2 Works Requirements Section VI Works Requirements – Technical Specification (TS)</i>			
<i>1 Civil Works</i>			
71.	Technical Specification (TS) 1 Civil Works Page 4 101.2.2 Location of Disposal of Demolished Structures ...All sections of structures removed which are not designated for stockpiling or re-laying shall become the property of the Government and be removed from the project or disposed of in a	Please provide the location and distance from site for the disposal of the properties designated as belonging to the Government which are to be disposed of in a manner approved by the Engineer.	Please find the Attachment A for the reference. This table shows the candidate of disposal sites. Please note that the employer and the engineer will find out more candidates (LGU own or private). The employer will have MOA with selected disposal site owner. Please estimate the distance with using the information of area.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	manner approved by the Engineer.		
72.	Technical Specification (TS) 1 Civil Works Page 175 618.2.1 Maintenance of the Fire Protection System ... and maintenance of the fire protection system thereafter during the maintenance period.	Please confirm that the Contractor is not obliged to carry out any maintenance work but only to repair defects.	Contractor is only obligated to undertake to correct defects during the Defects Notification Period.
73.	Technical Specification (TS) 1 Civil Works page. 343 to 366 Part 7: Material Details Items: 717 718 719	We perused Item 717 to Item 723 and to our knowledge and understanding, these items are execution work methods and are not related or be categorized under Part 7-Material Details. Is our understanding correct? Please clarify.	Item 717 to Item 723 are under Part 7.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	720 721 722 723 Site Development Water Supply Backfill and Fill Installation of Pipeline Installation of Valves Execution Testing and Disinfecting		
74.	Technical Specification (TS) 1 Civil Works page. 718 Water Supply	We perused Item 718 and found out all sub-clauses technical descriptions provided are not all related to water supply but about excavation works. Is our understanding correct? Please clarify.	The title of item 718 to be changed as Excavation for Removal of Foundation. Please refer to Annex B
75.	Technical Specification (TS) 1 Civil Works 101.4 Removal of Structures and Obstructions	Pay item 101 (3) Removal of Pipes - unit is in sq.meter. Please clarify if it is really sq.m or l.m or cu.m	It is lm

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
2. Architecture			
76.	Technical Specification (TS) 2. Architecture Page 461 1046 Concrete Hollow Block DWG Nos. STN-AR-A-OS/ON-0200 states the following: 09 CONCRETE BLOCK, BRICK & LIGHTWEIGHT CONCRETE EXTERIOR WALL/INTERIOR WALL 200MM: CONCRETE BLOCK SHALL BE CONFORM TO JIS A5406	a) May we use concrete hollow blocks conforming Philippine national standard rather than JIS A5406 which are not commonly available especially shapes, in Philippines? b) Please also confirm that thickness shall be 150mm as shown in DWG Nos. STN-AR-A-OS/ON-9001 and BOQ, but not 200 mm.	a) Concrete Hollow Blocks should conform to Clause 1046.2.3 Materials and comply all the required quality test as per DPWH Standard and Specifications. ITP to be submitted by Contractor for GC checking and approval. b) Confirm 150mm thickness as shown on the drawings
77.	Technical Specification (TS) 2. Architecture Page 26-34 Page 732 – 747	The requirements described in the left column here is one of examples of the mock-up requirements. The mock-up requirements stipulated in the specifications are expansive and extraordinary. In the mock-up 2, we	Bidder shall provide cost for the Mock-up requirements specified in the BID documents. Sizes of the mockups shall be based on the drawing details

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>C01.3 Appendix 2 Mock-up Requirements 5) a) (i) The Contractor shall provide all necessary full-scale mock-ups as required for performance testing, by specialist testing laboratories for approval of those finishing materials and systems proposed by the Contractor. The Contractor shall propose off-site location of the mock-ups... (v) 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...d)(i) Refer to appendix 2, Mock-up</p>	<p>have to build another entrance building off-site including security shutter, flood barrier, handrail, lightning arresters, etc. Kindly note that the flood barrier shall be imported from Japan. The other mock-ups 1, 4 and 5 are similar, which are full size mock-ups. We find these requirements much more than necessary. Please revise the requirements to the reasonable mock-up standard since the project are presumed to be designed by highly qualified professionals. Otherwise the client and the lender, including thus CP104 contractor are violating the environmental compliance since these mock-up materials cannot be reused, but will need to be disposed. Besides, we request to specify exact sizes of each mock-up and components for all the mock-ups.</p>	

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>2 – Mock-up for Ortigas South Entrance-1-(1) Visual Mock-up. This mock-up shall have width and length equal to the actual entrance building; height shall be from the ground level to top of the roof. This mock-up shall include at least the structural frames, a set of roof and ceiling, a set of rain gutter and downspout, security shutter, stair, handrail, signage, stone walls, floor finishing, flood barrier, railings, handrails, lightning arresters and lighting fittings as assembled. (2) Performance mock-ups shall be for the following: - A set of roof and ceiling with steel structure</p>		

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	support including skylight and waterproofing between roof and wall - A set of rain gutter and downspout-Security shutter - Flood barrier		
78.	Technical Specification (TS) 2. Architecture And General Specification	Please confirm that where the requirements of the Architectural Specification TS02 conflict with the requirements of the General Specification, then the requirements of the General Specification will take precedence.	Technical Specification (TS) takes precedence
79.	Technical Specification (TS) 2. Architecture Page 491 1047.2.1 6) Hoist Crane Beam Assembly Hoist Crane Beam Assembly and Anchoring System Items a) to e)	Can we consider that the following works will not be under CP104 contract: a) moving hoist beams with hook assembly or hoisting equipment (maximum capacity 25 ton) a) moving hoist beam with hook assembly or hoisting equipment for the floor access hatch. If not, please provide the details for the above.	A) Moving hoist beam is shown in detail drawing number 9412 & 9413. B) Moving hoist beam with hook assembly is shown in detail drawing number 9412 & 9413. Please note that hook assembly should be under CP106 scope.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	DWG DWG Nos. STN-AR-A-ON/OS-9412 and 9413		
80.	Technical Specification (TS) 2. Architecture Page 642 1814.2.1, 2) Wall Access Panels Wall Access Hatch/Panel - Standard Fire-Rated Items a) to j) DWG Nos. STN-AR-A-OS-1300, 1302, 1400, 7101, 7102 and 9420 DWG Nos. STN-AR-A-ON-1302, 1303, 7101, 7102 and 9420	The descriptions of the specifications does not match the drawings. a) Can we consider the drawings supersede the descriptions of the specifications? b) Can we also consider 1.5 hour fire rating indicated in the DWG Nos. STN-AR-A-ON-7102 will be satisfied as long as we construct the wall access panel in accordance with the drawings since the design has been provided in the bid documents? c) In addition, please provide details of jack-up machine such as size, capacity and quantity.	a) Technical specifications are already coordinated with drawings. Revised drawing to be submitted. b) Yes c) This item should be out of scope. Under "Operations and Maintenance" scope.
81.	Technical Specification (TS) 2. Architecture		Please refer drawing number 9850

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Page 394-402 1033 Catwalk for Equipment Maintenance 1033.2.1 Product Selection (p3 (2) Refer to the Drawings, in particular the steel deck sched specific size and configurations 1033.2.2 Material 4) Catwalk for Equipment Maintenance Fabricate catwalks including platforms, railings, ladders, su and hangers, and arrangemen members as shown on drawing	Please provide the drawings to describe all the requirements such as the steel deck schedule for specific size and configurations and layout and details showing all the requirements such as platforms, railings, ladders, supports and hangers, and arrangement of members.	
82.	Pay Item 1811 (10) Solid Plate References: Technical Specifications 2: Architecture,	According to the technical specifications, the size of this item is as indicated on the drawings. However, we could not locate it in the plans. May we request for the detailed drawings of this item.	Kindly refer to detail drawing 9060 detail tag A.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	page 606		
83.	Pay Item 1804 (3) Extract Air Aluminum Louver with Insect Screen References: Technical Specifications 2: Architecture, page 552	According to the technical specifications, the size, profile, and configurations of this item is as indicated on the drawings. However, we could not locate it in the plans. May we request for the detailed drawings of this item.	Please refer to dwg no 9230 (Typical details) in the updated package
84.	Pay Item 1031 (1) c Glass Wool Acoustic Panel References: Technical Specifications 2: Architecture, page 372	May we request for the detailed drawings of this item.	Please refer to dwg no 9001 (Typical wall type details) in the updated package
85.	Pay Item 1803 (3) a Stainless Steel Cover in between Stair and Escalator References: Technical Specifications 2: Architecture, page 539	According to the technical specifications, the size, profile and configurations of this item is as indicated on the drawings. However, we could not locate it in the plans. May we request for the detailed drawings of this item.	Please refer drawing number 9191 Detail D.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
86.	Ortigas North Station Pedestrian Bridge 1 SPL-PB1-S-ON-3017 - Steel Connection Details - SHT 1 of 3 A Section & 1 Detail	As per the detail drawing of the steel connection for SB3 and RCB1, the anchor bolts that shall be used are 8-M32 bolts. However, on the section drawing, it is indicated that the anchor bolts to be used are 8-M36 bolts. Please clarify which of the two shall govern.	As per design calculation, M36 bolts shall be used.
87.	2001.4 Measurement and Payment	For the ff. Pay Items: Ref. TS2001.4.1 Method of Measurement 1) -Removal of Existing Asphalt Paving and Base Course (2001.1). 2) -Removal of Existing Concrete Curb at Sidewalk and Median (2001.2) . These 2 items shall be quoted in a Lump Sum. Contrary to BOQ and TS2001.4.2 Basis of Payment the tables showing for these 2 items, the unit is sqm. Please clarify	The correct Pay Items are "sqm" as shown in the tables.
88.	2003.3.1 Method of Measurement	For Item 1.Excavation - The rate for the item shall cover excavation of all kinds of soil "except" removing and hauling excavated materials to the designated disposal site with dumping fee or the Contractor's stockpile	hauling is included in this cost. Note placement of "," after "rock" The clause shows it is applicable to all kinds of soil except rock, [and includes] dewatering, preparation of working platform for equipment, temporary deck, multiple handlings of excavated materials, temporary

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		<p>site, and others necessary to complete the work in accordance with the drawings and specifications. While in the Item for 2. Excavation (Rock) - The rate for the item "shall cover" excavation of rock, hauling excavated material to the designated disposal site with dumping fee or the Contractor's stockpile site, - Please clarify if the hauling for Item 1. Excavation is not included in the rate while in Item 2 is cover in it?</p>	<p>stockpile at site, removing and hauling excavated materials to the designated disposal site with dumping fee or the Contractor's stockpile site, and others necessary to complete the work in accordance with the drawings and specifications. The Contractor shall allow the fee required <u>byrequired by</u> the disposal site.</p>
<i>3 Mechanical, Electrical and Plumbing</i>			
89.	<p>Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 8 101.1.1 (a) Standards (a) Functionality: Mechanical & electrical system of the</p>	<p>Please confirm that Plant does not need to comply with the highest standards available but only to the standards agreed for the Contract.</p>	<p>Contractor shall comply with the Standards considered for the contract.</p>

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	building services shall provide a "high level" (to the highest standards available, using proven up-to-date good Engineering Practices to fit for its purpose) of functionality for an accurate, reliable, smooth and safe operation.		
90.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 8 101.1.1 (c) Reliability and Availability (c) Reliability: Building services shall be designed to ensure a high degree of reliability under all operating conditions (normal as well as emergency situations).	Please provide your reliability, availability and maintainability (RAM) requirements for Plant.	Contractor shall comply with the Standards considered for the contract.

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	Adequate redundancy in system shall be provided for ensuring high degree of Availability.		
91.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 9 101.1.1 (h) (v) System Software Architecture (v) To be adaptable with all the software used by other systems including railway system.	Please provide the requirements of other systems that the CP104 software has to be adaptable to.	Contractor should coordinate with supplier of other systems to ensure compatibility.
92.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 9 101.1.1 Provision for CP106 Services	Please confirm that as listed in GS Appendix 4, the CP106 Contractor will provide and install its own cable support equipment.	CP106 will provide and install its own cable support system.

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	However, the provision for their services such as duct for main trunk line, etc. shall be provided by the building M&E works under the close coordination with them.		
93.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 32 101.1.1 5) d) Contractor's Maintenance Plan The requirements for the Contractor's Maintenance along with Contractor's obligations in this connection have been outlined in the Section 136 of the General Specifications and elsewhere in the Contract Documents,	Section 136 of the GS is not used. Please confirm that there is no requirement for the Contractor to undertake any maintenance.	Technical specification 3 101.1.1 5) d) is deleted. Please refer to Annex B

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	which shall be followed by the Contractor.		
94.	<p>Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 32 101.1.1 6) h) Combined Service Drawings (h) If so, directed by the Engineer, the Contractor shall prepare composite working drawings and sections at a suitable scale not less than 1:50, clearly indicating how his work is to be installed in relation to the work of other trades/contractors. If the Contractor installs his work before coordinating with other trades/contractors, or so as to cause any interference with</p>	<p>Please provide the procedure under which all contractors on the project will develop and agree the Combined Service Drawings and Co-ordinated Installation Plan.</p>	<p>They are prepared by contractor at the construction stage. During shop drawing production, the contractor should provide a coordinating (contractor BIM) engineering team to ensure combined services drawing production.</p>

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	work of other trades/contractors, he shall make the necessary changes in his work to correct the condition without any extra charge.		
95.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 193 1124.1 Point of Sales (POS)	Please explain the meaning and relevance of 'Point of Sales' (POS).	POS is mentioned for interfacing provision only.
96.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 203 1125 Master Antenna Television System	Please confirm that all of the Master Antenna Television System is provided by CP106.	Not included in CP106 scope <ul style="list-style-type: none"> • Refer to MEP Technical Specification "05_CP104_P2_S(VD_(WR)_4(TS_MEP)_21Aug2020 (1)_2" Section 1125 Master Antenna Television System. • Refer to Drawing Number "STN-MEP-ELV-ON-2047" MATV Schematic • Refer to Drawing Number

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			"STN-MEP-ELV-ON-3630" to "STN-MEP-ELV-ON-3656" for MATV Layout
97.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 217 1130.1.7 BMS Work in OCC (a) All necessary equipment's at Station and OCC like work station, PLCs/DDCs/Redundant Server,	Please confirm that communication between the BMS in each station and the OCC will be done by the ICSS and that CP104 has no scope of work in the OCC.	No scope in OCC. Contractor shall provide interfacing from BMS Server to Switch supplied by CP106.
98.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 219 1130.1.7 1) d) y) Maintenance Management System	Please confirm that the Maintenance Management System is provided by CP106.	MMS is the scope of work in CP106

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	The following functions/items shall be included in the proposal for BMS system: (y) Equipment's Monitoring and Control, Voice Communication, Asset Management, inventory management and Maintenance Management System; which consists of the following elements:		
99.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 237 1130.2.3 2) Fire Prevention Independent Television Fire preventive shutters, etc. refer to fire preventive	a) Please confirm whose scope of work it is to provide the Independent Television. b) If it is CP104 scope then please explain the requirements of Independent Television.	Fire Prevention independent Television is not CP106 scope of work. CCTV is under C106 scope of work

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	shutters which can be remotely controlled, Independent Television (ITV), etc. which are set up at necessary locations for fire prevention.		
100.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 204 1126.1.2 Scope of telephone system DWG; STN-MEP-ELV-OS-2044	Please confirm the scope for the telephone system. It is different between the drawing and TS MEP page 204, i) Solid line ; out of CP104 scope ii) Dotted line ; CP104 scope iii) Equipment ; out of CP104 scope iv) Outlet ; out of CP104 scope v) IDF ; out of CP104 scope	Telephone system shall be under Telephone service provider scope. However, the provision such as piping, cable tray and other relevant work for telephone system shall be provided by the CP104 Contractor
101.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 211 1128 Emergency Voice	Since TS3 for MEP confirms that the EVC is under CP106 scope. Please confirm what work to be priced under BOQ item 1128 EVC System.	Emergency voice communication is a feature which is part of public announcement system under CP106 scope of work.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Communication (EVC) System TS3 page 211 says Emergency Voice Communication System (Not Used, By CP106)		
102.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 212 Emergency Call system	Since TS3 for MEP confirms that the Emergency Call System is under CP106 scope. Please confirm what work to be priced under BOQ item 1129 Emergency Call System.	Emergency call system is under CP106 scope of work
103.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 257 1130.3.2.11).4 Public Address System	Please confirm Public Address System is not in CP104 scope.	The bidder understanding is correct. However, CP104 Contractor shall coordinate with CP106 Contractor to determine details of interfacing between Fire Alarm System and Public Address System during the detailed design stage.
104.	Technical Specification (TS) 3 Mechanical, Electrical and	Please confirm Passenger Information Display system is not in CP104 scope	The bidder understanding is correct. However, CP104 Contractor shall coordinate with CP106 Contractor to

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Plumbing Page 257 1130.3.2.11).4 Passenger Information Display system		determine details of interfacing between Fire Alarm System and Passenger Information Display System during the detailed design stage.
105.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 380 1212.2.1 Definition of Type-A and Type-B for duct insulation. a) Type-A Insulation of Air-Conditioning duct work shall have b) Type-B Insulation of Air-Conditioning duct work shall have	Please define what are Type-A and Type-B indicating their difference.	Definition of Type-A and Type B is specified under 1212.2.1 1) Duct Insulation. Contractor to refer to the technical specification
106.	Technical Specification (TS) 3 Mechanical, Electrical and	Please confirm the proper use below, Normal; PVC (Polyvinyl Chloride) Pipe.	Cast iron pipe for above ground installation. Ductile iron pipe for underground installation.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Plumbing Page 647 1234.2.2 Sewage pipe material. (a) Cast Iron Pipe and Fittings (i) Cast Iron pipes and fittings shall be used for: (1) Soil, waste, vents and storm water pipe and fittings (2) Cast Iron pipe and fittings shall be Class 'C' for all sizes (b) Ductile Iron Pipe and Fittings (i) Ductile Iron pipes and fittings shall be used for (1) Soil and waste water pressurized pipe. (c) Polyvinyl Chloride Pipe and Fittings (i) Polyvinyl chloride pipes and fittings shall be used for: (1) Soil, waste, vents and drain pipe</p>	<p>Pump-up; Ductile Iron Pipe.</p>	

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	and fittings		
107.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 668 1236 Package Type Sewer Treatment Plant of Ortigas North Station	Please specify each parameter of water quality of influent water to Package Type Sewer Treatment Plant. 1) PH 2) BOD 3) COD 4) Total SS 5) Total Coliform 6) Faecal Coliform 7) Nitrate as NO3-N 8) Phosphate 9) Oil and Grease 10) NH3 Ammonia	All parameters should be given by the municipality to ensure water sewage conformity.
108.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 668 1236 Package Type Sewer Treatment Plant of Ortigas South Stations	Please specify the influent water volume [litre/hour], [m3/day] of Package Type Sewer Treatment Plant.	Calculation to be provided by the Contractor during execution stage.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
109.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 669 1236.1.5.b) Package Type Sewer Treatment Plant effluent water quality.	The table of Effluent Standard of DENR shows 2 kinds of water quality, one is Class C, the other is Class Sb. Please confirm which class shall be required for 2 stations.	The class of water will be confirmed during execution.
110.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 727 Appendix 1 Quantity of Spare Parts. BMS-SCADA Cables Control Cable 2Km each type CAT-6 /CAT-7 Cable 500mts OFC Cable -6C Single Mode 500mts	The quantities of Spare Parts in the left column are very big. i) We understand that 'SCADA' is CP106 scope and BMS is CP104 scope. Please confirm quantities are only for CP104 scope, not including CP106 scope. Please instruct us again each quantity if necessary. ii) Quantities seems very big considering they are defined as Spare Parts, not construction. Please confirm each quantity.	Contractor to follow the quantity as indicated.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Panel Associated Wires 1000mts		
111.	<p>Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 1120 Cable specification LSOH All main and sub-circuit wires shall be installed in conduits, trunking, wire mesh as appropriate. All the mains, sub-mains and final sub-circuits shall include insulated grounding conductor sized in accordance with PEC. Grounding conductors shall be of flame retardant, low smoke zero halogen (LSOH) and anti-termite type. The current</p>	<p>The Bidder interprets the requirement of LSOH is NOT applied for lighting system, but only grounding conductors. Please confirm.</p>	<p>Confirmed. Use FRLSZH type for lighting and small power.</p>

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	carrying capacities and voltage drops of cables shall be in accordance with PEC, with ratings adjusted to suit local conditions.		
112.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 1120 Cable specification anti-termite All main and sub-circuit wires shall be installed in conduits, trunking, wire mesh as appropriate. All the mains, sub-mains and final sub-circuits shall include insulated grounding conductor sized in accordance with PEC. Grounding	The Bidder interprets the requirement of anti-termite is NOT applied for lighting system, but only grounding conductors. Please confirm.	Confirmed. Use FRLSZH type for lighting and small power.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	conductors shall be of flame retardant, low smoke zero halogen (LSOH) and anti-termite type. The current carrying capacities and voltage drops of cables shall be in accordance with PEC, with ratings adjusted to suit local conditions.		
113.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 362 1211.2.1 1) Duct specification. Ductwork including fittings, shall be made of commercial grade galvanized sheet metal of the following thickness. GI Sheet Metals. Zinc Coating for	The Bidder would like to apply 70-80 gm/m2 with 95% Zinc - 5% Aluminium for zinc coating level of duct sheet, which is considering the commercial market in Philippines. Please confirm.	Bidder is advice <u>advised</u> to follow the Technical Specification. Note that, Outdoor ductworks will have a higher coating thickness.

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PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Indoor Use shall be minimum of 100 gm/m2 and for Outdoor Use shall be minimum of 100 gm/ m2.		
114.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 506 1221.2.1 1)(a), Water cooled chiller specification. 1)(a)Waterside shall be designed for ten-point thirty-four (10.34) bar working pressure. Power shall be supplied to the unit at three hundred eighty (380) volts - three (3) phase - sixty (60) Hertz. The chiller shall use HFC R-134a.	Although the specification requires HFC R- 134a (1300GWP), the Bidder would like to offer other low GWP refrigerant as alternative such R-513a, R-1233zd so that the requirement of magnetic bearing may be complied. Please confirm.	Bidder is advice <u>advised</u> to follow the Technical Specification.
115.	Technical Specification (TS) 3 Mechanical, Electrical and	Probably NO FRP casing/basin products are based on FM Global. Thus, the Bidder would like to offer SUS	Bidder is advice <u>advised</u> to follow the Technical Specification.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Plumbing Page 479 1219.2.1 3)(a) Page 480 1219.2.1 5)</p> <p>Cooling tower specification. 3) Base (a) Provide an induced draft, counterflow type, factory assembled, film fill, industrial duty, galvanized steel and FRP cooling tower situated as shown on the plans. (a) Fiberglass casing, polyurethane barriers, and thermosetting hybrids and the components they are adhered to shall be considered non-recyclable and not allowed. (b) The specifications, as written, are intended to</p>	<p>casing/basin construction with compliance to FM global. Please confirm.</p>	

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>indicate those materials that will be capable of withstanding the water quality in continuing service, as well as the loads. They are to be regarded as minimum requirements. Where component materials peculiar to individual tower designs are not specified, the manufacturers shall take the above water quality and load carrying capabilities into account in the selection of their materials of manufacture.</p> <p>(c) The tower shall be listed in the current FM Approval Guide (approvalguide.com) and conform to the FM Approval Standard for</p>		

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Cooling Towers, Class Number 4930 that is approved for use without sprinkler systems. The tower shall have successfully passed full scale fire testing, static and cyclic wind pressure testing, large missile impact testing (for Zone HM), and structural design evaluation as administered by FM Approvals. The tower shall be capable of +70/-140 psf for Zone H as defined by FM Global. A copy of the FM Approval Certificate of Compliance shall be available upon request and approved equivalent.</p>		
116.	<p>Technical Specification (TS) 3 Mechanical, Electrical and</p>	<p>The Bidder would like to clarify that seacoast protection is not required because both stations is far from sea.</p>	<p>Bidder is advice <u>advised</u> to follow the Technical Specification.</p>

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PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Plumbing Page 394 1213. 2.1 9) (a) VRV outdoor unit specification. (a) The outdoor unit shall be coated with the Seacoast Protection Coating (Bermuda Special) if the installation site falls within the following criteria:</p>	<p>Please confirm.</p>	
117.	<p>Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 712 1241.2.1 (a) Fire pump specification. Packaged, ULC listed and labelled horizontal shaft centrifugal fire pump and controller. The pump shall be</p>	<p>The Bidder would like to offer 380 V, 3 phase, 60 Hz, around 3500rpm, with water flow rate and head described in drawing. 2,900rpm is not available by reliable manufacturers. Please confirm.</p>	<p>The bidder may use electrical motor of 3500 rpm provided Fire Pump Performance and Characteristics are not affected.</p>

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PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	flexibly coupled with a TEFC, 380 V, 3 phase, 60 Hz, 2900rpm electric motor with Class "F" insulation.		
118.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 529 1222.2.1 18) (c), (vi) Pressure Independent Control Valve specification. The valve sear shall be made from stainless steel.	The Bidder interprets the word "sear" means seat. And the Bidder would like to offer NON-stainless valve seat because stainless steel made valve seat is not available for Pressure Independent control Valve manufacturer.	Contractor to provide value engineering analysis.
119.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 61 1109 Grounding system scope.	The Bidder interprets that grounding bonding for HV power incoming service by Power Contractor (CP106) is NOT scope of CP104. Please confirm.	Grounding System scope by the Contractor as described in the Specification and as shown in the drawings.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
120.	<p>Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 9 Communication and Information System The communication and Information System such as CCTV, Public Address (PA), and Clock and Guidance Signage at the underground station shall be provided to consider the station users' convenience and to monitor the security for safety and secure operation of the station.</p> <p>However, for the paid & unpaid area as the part of conventional building facility</p>	<p>The Bidder would like to clarify that CCTV system is not included on this package CP104 and no need to provide cost proposal?</p>	<p>CCTV is included in CP106</p>

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	& system, these systems will be provided and controlled by the railway system under CP 106 package.		
121.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 59 1106 CCTV System	Plans and drawings for CCTV System was missing but have items listed on BOQ. Also, on Technical specs item 1106 page 72 for CCTV system stated (Not used, by CP106). The Bidder would like to clarify that CCTV system is not included on this package CP104 and no need to provide cost proposal?	CCTV is included in CP106
122.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 211 1128 Emergency Voice Communication system	Plans and drawings for Emergency Voice Communication System was missing but have items listed on BOQ. Also, on Technical specs item 1128 page 211 for Emergency Voice Communication system stated (Not used, by CP106). The Bidder would like to clarify that Emergency Voice Communication system is not included on this package	Not in CP104 scope.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		CP104 and no need to provide cost proposal?	
123.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 83 1113.2.4 Main Disconnect/Circuit Breakers and Components (b) All ACB shall be horizontal withdrawal type with automatic control connector and shall comply with and be fully Type-tested to UL 1066 / ANSI 37.13.	Type tested is part of the IEC standard, Bidder would like to propose IEC standard to be included, Type test, in compliance standard for ACB.	113.1.4 References All switchboards and materials shall be designed, manufactured and with fully UL listed assemblies as defined in UL 1558 / ANSI 37.20.1 and NEMA standard SG-5, Philippine Electrical Code or IEC fully type-tested assemblies. Certified true copies of the full type-test report / certificate tested by an internationally accredited testing body shall be submitted to the Engineer
124.	Technical Specification (TS) 3 Mechanical, Electrical and Plumbing Page 541-545 1224 Water Treatment System	Bidder couldn't find BOQ number of this work, bidder would like to clarify that the work of item number 1224 is out of scope of CP104, or kindly provide BOQ number.	Water Treatment System is under 1210(5). Chemical Pot Feeder was considered in BOQ under 1210 (5)

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	1224.2 (a) No separate payment shall be paid for the Water Treatment System. All associated works and costs are deemed to be included in the appropriate Pay Items. (i) Water Treatment System shall be deemed to be included in the appropriate Pay Item.		
125.		Technical specifications (TS)-3. Mechanical, Electrical and plumbing TS1114.42 specifies 200 kVA, 3P, 4W, 60Hz for Pay Item T141(1). However, Bill of Quantities (BOQ) Nos.5A Pay Item No. 1141 (1) and 5B Pay Item No.11141 (1) specify 150 kVA. Please clarify the required UPS capacity.	2 x 125 kVA
126.		Bill of Quantities (BOQ) No.5A Pay Item 1114 (2) specifies 3 hours for the external battery system and Bill of Quantities (BOQ) No.5B Pay Item 1114 (2) specifies 2 hours for the external battery system.	2 hours back-up time

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		Please confirm if these different capacities specified for Ortigas North and Ortigas South stations are correct.	
127.		Technical specifications (TS)- 3. Mechanical, Electrical and plumbing TS12412.1 Specifies that fire pumps shall be flexibly coupled with a TEFC,380 V,3 Phase,60 HZ,2900rpm electric motor with Class "F" insulation. However, Bill of Quantities (BOQ) Nos.5A pay Item NO.1241 (1) & (2) and 5B Pay Item NO.1241 (1) & (2) specify 3 phase,460 v for both main fire and jockey pumps. AISO,10W voltage power supply system to the stations is 3 Phase 6.6kv/400V,60HZ. Please clarify and advise.	The LV power supply System to the station is 3 Phase 400V 60Hz
128.		Technical specifications (TS) - 3. Mechanical, Electrical and plumbing TS124123 (C) regarding the electric motor driven fire pump-controller states that horsepower as indicated four hundred forty (440) V, three (3) phase, sixty (60) Hz. Please clarify this requirement.	The LV power supply System to the station is 3 Phase 400V 60Hz
129.		Technical specifications (TS) -3. Mechanical, Electrical and plumbing TS12412.5 Specifies dual fire pump controller consisting of lead and standby fire pump	Only 1(One) Fire Pump is there. No provision for Standby Fire Pump.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		controllers. However, Bill of Quantities (BOQ) Nos.5A Pay Item No.1241 (1) and 5B Pay Item No.1241(1) specify only one number main fire pump. Please clarify and advise if one lead fire pump and one standby fire pump are required.	
130.		Technical specifications (TS)-3. Mechanical, Electrical and plumbing TS12162.1 6) states that smoke extraction fans shall be rated to deliver the designed flow rate and pressure for continuous operation in an air stream temperature of two hundred fifty (250)°C for not less than one hour. Also, Note 34 of the drawing number STN-MEP-VAC-CWD-0104 states that all equipment forming part of the smoke extraction system shall be suitable for operation at 250°C for one hour. However, Bill of Quantities (BOQ) Nos.5A pay Item No.1216 (3) and 5B pay Item NO.1216 (3) specify fire rated @ 250°C /2hrs. please clarify.	Follow 2 hours rating.
131.		Please clarify who is the "MEP contractor" referred to in the Note NOS.38 and 46of the drawing number STN-MEP-VAC-CVVD-0104.	CP104 Contractor
132.		Please clarify who is the "civil contractor" referred to in	CP104 Contractor

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		the drawing numbers STN-MEP-ELL-ON-3431,3435,3441,3442,3443,3444 and 3445 and STN-MEP-ELL-OS-3431,3434,3441,3442,3443 and 3444.	
133.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1109.2.1; Bill of Quantities, Bill 5B Item 1109 (3), 1122 (2)	In reference to Technical Specifications and Plans, Grounding earth mat is part of Civil Works. However, there are pay items in Electrical BOQ. Kindly clarify if this will be part of Electrical Scope.	The earthing mat work for all underground stations shall be carried out by the civil work as part of the Contract. Cable connection from earth mat to main ground terminals by the civil work further connection from main grounding terminals onward shall be under station building electrical contractor scope of work.
134.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1114	Please provide all UPS backup time per capacity.	2 hours back-up.
135.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1114	Please confirm if the UPS is in parallel configuration.	Yes.

**Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																								
136.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1113.4.2;</p> <p>Bill of Quantities, Bill 5A and Bill 5B, Section 1113 (1a to 1be), Section 1113 (1a to 1bf);</p> <p>STN-MEP-ELL-ON-2007 to STN-MEP-ELL-ON-2046, STN-MEP-ELL-OS-2007 to STN-MEP-ELL-OS-2052</p>	<p>There are conflicts between the specs, plans and boq. Please refer to the sample image below and specify which will prevail at all times in case of conflict:</p> <table border="1" data-bbox="667 480 1352 616"> <thead> <tr> <th>Description</th> <th>Tech Specs</th> <th>Plans</th> <th>BOQ</th> </tr> </thead> <tbody> <tr> <td>Panelboards/Switchgear</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Panelboard; OS-CL-PDB-03 FOH POWER</td> <td align="center">✖</td> <td align="center">✖</td> <td align="center">✓</td> </tr> <tr> <td>Panelboard; OS-CL-PDB-04 FOH POWER</td> <td align="center">✖</td> <td align="center">✓</td> <td align="center">✓</td> </tr> <tr> <td>Panelboard; OS-CL-UDB-05 BOH EMG. LTG.</td> <td align="center">✖</td> <td align="center">✓</td> <td align="center">✓</td> </tr> <tr> <td>Panelboard; OS-MZ-EMCC-06</td> <td align="center">✓</td> <td align="center">✓</td> <td align="center">✖</td> </tr> </tbody> </table>	Description	Tech Specs	Plans	BOQ	Panelboards/Switchgear				Panelboard; OS-CL-PDB-03 FOH POWER	✖	✖	✓	Panelboard; OS-CL-PDB-04 FOH POWER	✖	✓	✓	Panelboard; OS-CL-UDB-05 BOH EMG. LTG.	✖	✓	✓	Panelboard; OS-MZ-EMCC-06	✓	✓	✖	<p>For PDB-03 refer 2030 For PDB-04 refer 2031 For UDB-05 refer 2043 and EMCC-06 is also shown in plan</p>
Description	Tech Specs	Plans	BOQ																								
Panelboards/Switchgear																											
Panelboard; OS-CL-PDB-03 FOH POWER	✖	✖	✓																								
Panelboard; OS-CL-PDB-04 FOH POWER	✖	✓	✓																								
Panelboard; OS-CL-UDB-05 BOH EMG. LTG.	✖	✓	✓																								
Panelboard; OS-MZ-EMCC-06	✓	✓	✖																								
137.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1118</p>	<p>In reference to Technical Specifications, Section 1118, the following Lighting Fixtures are reflected:</p> <ol style="list-style-type: none"> 1. Type A6 - Base light LED Linear module fixture, Batten type (100-240V 13.6W 3000K 1800 lm IP20, Lifetime 40,000 hrs. W70mm) 2. type C6; bulkhead type fixture (100-240V 10 W 6500K 1100 Lm IP 66, Lifetime 50,000 hrs., 3. type C6; bulkhead type fixture (100-240V 10 W 6500K 1100 Lm IP 66, Lifetime 50,000 hrs. connected to Emergency Power 4. type C7; Well Glass LED (100-240V, 37 W 6500K 3700 Lm IP 65, Lifetime 50,000 hrs. <p>However, the abovementioned items are not reflected on the Bill of</p>	<p>Please refer to BOQ .</p>																								
138.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1235.2.2;</p> <p>STN-MEP-PLD-3201-3206, STN-MEP-PLD-3202-3204/ SPL-PB1-P-ON-5007, SPL-PB2-P-OS-5007</p>	<p>Please verify which material is to be used for downspouts.</p> <table border="1" data-bbox="680 1190 1328 1378"> <thead> <tr> <th rowspan="2">Item</th> <th rowspan="2">As Per Specs</th> <th colspan="2">As Per Plan</th> <th rowspan="2">As Per BOQ</th> </tr> <tr> <th>Inside ON & OS</th> <th>Pedestrian Bridge 1 & 2</th> </tr> </thead> <tbody> <tr> <td>Downspouts</td> <td>Aluminum Rectangular Pipe</td> <td>Unplasticised Polyvinyl Chloride (uPVC), Round Pipe</td> <td>Steel, Round</td> <td><i>Not mentioned</i></td> </tr> </tbody> </table>	Item	As Per Specs	As Per Plan		As Per BOQ	Inside ON & OS	Pedestrian Bridge 1 & 2	Downspouts	Aluminum Rectangular Pipe	Unplasticised Polyvinyl Chloride (uPVC), Round Pipe	Steel, Round	<i>Not mentioned</i>	<p>As per specs Aluminum Rectangular pipe shall be used</p>												
Item	As Per Specs	As Per Plan			As Per BOQ																						
		Inside ON & OS	Pedestrian Bridge 1 & 2																								
Downspouts	Aluminum Rectangular Pipe	Unplasticised Polyvinyl Chloride (uPVC), Round Pipe	Steel, Round	<i>Not mentioned</i>																							

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE								
139.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1235.2.2;</p> <p>SPL-PB2-P-ON-5001</p> <p>Bill of Quantities, Bill 5A and Bill 5B, Section 1235;</p>	<p>Please verify which material for stormwater pipelines and fittings (gravity) shall prevail.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">As Per Specs</th> <th style="text-align: center;">As Per Plan Pedestrian Bridge</th> <th style="text-align: center;">As Per BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Stormwater Pipes and Fittings (Gravity)</td> <td style="text-align: center;">Cast Iron (CI)</td> <td style="text-align: center;">Polyvinyl Chloride (PVC) Series 1000 SDR 34</td> <td style="text-align: center;">1. Ductile Iron (DI) 2. Polyvinyl Chloride (PVC) Series 1000 3. Cast Iron (CI)</td> </tr> </tbody> </table>	Item	As Per Specs	As Per Plan Pedestrian Bridge	As Per BOQ	Stormwater Pipes and Fittings (Gravity)	Cast Iron (CI)	Polyvinyl Chloride (PVC) Series 1000 SDR 34	1. Ductile Iron (DI) 2. Polyvinyl Chloride (PVC) Series 1000 3. Cast Iron (CI)	<p>As per specs CI shall be used for station storm water pipelines (gravity)</p>
Item	As Per Specs	As Per Plan Pedestrian Bridge	As Per BOQ								
Stormwater Pipes and Fittings (Gravity)	Cast Iron (CI)	Polyvinyl Chloride (PVC) Series 1000 SDR 34	1. Ductile Iron (DI) 2. Polyvinyl Chloride (PVC) Series 1000 3. Cast Iron (CI)								
140.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1235.2.3;</p> <p>STN-MEP-PLD-ON-3205</p>	<p>Please verify which material for pumped drain pipings (pressurised) shall prevail.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">As Per Specs</th> <th style="text-align: center;">As Per Plan</th> <th style="text-align: center;">As Per BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Pumped Drain Piping (Pressurized)</td> <td style="text-align: center;">Galvanized Steel, SCH 40, seamless</td> <td style="text-align: center;">Unplasticised Polyvinyl Chloride (uPVC)</td> <td style="text-align: center;">Not mentioned</td> </tr> </tbody> </table>	Item	As Per Specs	As Per Plan	As Per BOQ	Pumped Drain Piping (Pressurized)	Galvanized Steel, SCH 40, seamless	Unplasticised Polyvinyl Chloride (uPVC)	Not mentioned	<p>As per specs GI material shall be used for pressurized pipe in Drainage system</p>
Item	As Per Specs	As Per Plan	As Per BOQ								
Pumped Drain Piping (Pressurized)	Galvanized Steel, SCH 40, seamless	Unplasticised Polyvinyl Chloride (uPVC)	Not mentioned								
141.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1234.2.2;</p> <p>STN-MEP-PLD-ON-3211-3216</p> <p>Bill of Quantities, Bill 5A and Bill 5B, Section 1234;</p>	<p>Please verify which material for soil, waste, & vent piping shall prevail.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">As Per Specs</th> <th style="text-align: center;">As Per Plan</th> <th style="text-align: center;">As Per BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Soil, Waste, & Vent Pipelines</td> <td style="text-align: center;">1. Cast Iron (CI) 2. Polyvinyl Chloride (PVC)</td> <td style="text-align: center;">Cast Iron (CI)</td> <td style="text-align: center;">1. Ductile Iron (DI) 2. Polyvinyl Chloride (PVC) Series 1000 SDR 34</td> </tr> </tbody> </table>	Item	As Per Specs	As Per Plan	As Per BOQ	Soil, Waste, & Vent Pipelines	1. Cast Iron (CI) 2. Polyvinyl Chloride (PVC)	Cast Iron (CI)	1. Ductile Iron (DI) 2. Polyvinyl Chloride (PVC) Series 1000 SDR 34	<p>Ductile Iron for underground installation. Cast Iron for aboveground installation.</p>
Item	As Per Specs	As Per Plan	As Per BOQ								
Soil, Waste, & Vent Pipelines	1. Cast Iron (CI) 2. Polyvinyl Chloride (PVC)	Cast Iron (CI)	1. Ductile Iron (DI) 2. Polyvinyl Chloride (PVC) Series 1000 SDR 34								
142.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1236</p>	<p>Please provide the Sewage Treatment Plant Influent parameters and Flowrate for both Ortigas North Station and Ortigas South Station</p>	<p>STP is 35 m³/day Follow LGU Standard.</p>								
143.	<p>Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1237.2.9</p>	<p>FDAS conduit to be used as per Technical Specification is ANSI standard, Intermediate Metallic Conduit (IMC), but the BOQ mentioned that the Riser to be used</p>	<p>Use IMC</p>								

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	BOQ, Bill No.5A, Pay Item No.1123 (1)	is Electrical Metallic Tubing (EMT). Kindly clarify which type of conduit shall be used.	
144.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1118.2.6 STN-MEP-ELL-ON-2011 STN-MEP-ELL-OS-2011	Please clarify which of the power source for emergency lighting will prevail: battery pack for individual lighting fixture (as per technical specification) or emergency power through OS-MZ-EMDB-01 and ON-MZ-EMDB-01 (as per Drawing).	Follow the drawings.
145.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1237.2.9 STN-MEP-PLD-ON-5101	Kindly verify what type of water heater are to be used for all shower. Based on Technical Specification it is Instantaneous but based on Equipment Schedule it has a capacity which is a requirement for a storage type water heater.	Follow the Technical Specification
146.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1236	Please confirm our understanding that the STP Specialist contractor may propose other technology aside from the drawings reflected. This is in reference to the statement in Technical Specification Section 1236.1.6.	Follow the Technical Specification.
147.	Technical Specifications 3:	Please clarify the voltage requirement for fire and	380V

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE								
	Mechanical, Electrical, Plumbing: Section 1241.2 Bill of Quantities Bill 5A, Item 1241 (1) Bill of Quantities Bill 5B, Item 1241 (1) STN-MEP-FPS-ON-5101S TN-MEP-FPS-OS-5101	jockey pump, which will prevail: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #cccccc;">TECHNICAL SPECIFICATION</th> <th style="background-color: #ffff00;">As per Plan/Equipment Schedule</th> <th style="background-color: #add8e6;">As per Electrical load schedule</th> <th style="background-color: #ffcc99;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">380V</td> <td style="text-align: center;">380V</td> <td style="text-align: center;">380V</td> <td style="text-align: center;">460V</td> </tr> </tbody> </table>	TECHNICAL SPECIFICATION	As per Plan/Equipment Schedule	As per Electrical load schedule	As per BOQ	380V	380V	380V	460V	
TECHNICAL SPECIFICATION	As per Plan/Equipment Schedule	As per Electrical load schedule	As per BOQ								
380V	380V	380V	460V								
148.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1241	Please confirm if there is no need for a backup/ standby Fire Pump for Ortigas North and Ortigas South Station.	Follow the Technical Specificaiton Specification .								
149.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1241.2.4	Automatic Transfer Switches for the Fire Pump are already reflected in Electrical BOQ and Electrical plans. However, in Fire Protection Technical Specifications, Automatic Transfer Switches are also stated. Please verify if the automatic transfer switch will be required to be built in Fire Protection controllers as well.	Follow the Technical Specificaiton Specification .								
150.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1241.2.6	In Fire Protection Technical Specifications, Fire Pump Remote Alarm Panel is stated. However, it is not reflected on plans and BOQ. Kindly clarify if we will still provide Fire Pump Remote Alarm Panel for Ortigas	Yes. Located at the Station Office								










Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		North and South Station. If yes, please provide the location of this panel.	
151.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1227.1.3, Section 1228.1.3 STN-MEP-VAC-ON-5106, STN-MEP-VAC-OS-5106,	Please specify which of the following shall prevail for tunnel ventilation fire rating hours (specs or equipment sched?): As per specs: 250deg C, 2 hours As per Equipment Sched: 250deg C, 1 hour	Bidders to follow technical specification (2 hours)
152.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1203.1.4, General Specifications, Section 116.4.1	In reference to Elevator and Escalator Specifications, factory mock-up inspection/ witness is required with atleast least 5 (Five) Representatives as per the Engineer's approval. However, in reference to General Specifications Section 116.4.3, maximum of four (4) delegates are required to attend and witness each FAT. Please verify which of the numbers of delegates will be required for Factory Acceptance Witness Test.	Bidders to follow the Technical Specification.
153.	Technical Specifications 3: Mechanical, Electrical, Plumbing	In reference to General Specifications, Section 116.4.1, the following Mechanical / Electrical lists are subject to FAT.	Bidders to refer to the Technical Specification

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	General Specifications, Section 116.4.1	(i) Major components of ventilation, air conditioning, AHN, and smoke exhaust system (ii) Distribution Panels (iii) Communication and information system equipment (iv) Control panels and boards (v) BMS System (vi) Disaster Preventive Control and Monitoring System (vii) CCTV (viii) Fire Alarm Systems (ix) Elevators (x) Escalators (xi) Pumps (xii) Uninterrupted Power Supply System (xiii) Water Tanks (xiv) FHU (Fire Hydrant System) (xv) Sanitary Ware and Accessory Kindly select/ be specific which of the abovementioned items are required for a witness test.	
154.	Technical Specifications 3:	In reference to General Specifications, warranty period	Bidders to refer with contract.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE						
	Mechanical, Electrical, Plumbing General Specifications, Section 128.1	for contractual spare parts, special tools and testing equipment or any other item of equipment delivered is 36 months. Does the term "or any other item of equipment delivered" applies also to those Mechanical / Electrical Equipment such as Cooling Towers, Fans, etc.?							
155.	Technical Specifications 3: Mechanical, Electrical, Plumbing General Specifications, Section 128.1	If the abovementioned query is true, which warranty will prevail incase of conflict between warranties stated? (General Specifications or MEP Technical Specification?)	Bidders to refer with contract.						
156.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1113.2.2 (h) and (p)(iii) STN-MEP-ELL-ON-2007 to STN-MEP-ELL-ON-2046, STN-MEP-ELL-OS-2007 to STN-MEP-ELL-OS-2052	Please clarify which enclosure will be considered for Panelboards according to the following references: <table border="1" data-bbox="667 1082 1352 1401"> <thead> <tr> <th data-bbox="667 1082 896 1114">Tech Specs</th> <th data-bbox="896 1082 1124 1114">Plans</th> <th data-bbox="1124 1082 1352 1114">BOQ</th> </tr> </thead> <tbody> <tr> <td data-bbox="667 1129 896 1401">* 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. * The distribution boards shall be supplied fully equipped, wired, and proofed against vermin, dust and moisture</td> <td data-bbox="896 1129 1124 1401">NEMA 1</td> <td data-bbox="1124 1129 1352 1401">NOT MENTIONED</td> </tr> </tbody> </table>	Tech Specs	Plans	BOQ	* 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. * The distribution boards shall be supplied fully equipped, wired, and proofed against vermin, dust and moisture	NEMA 1	NOT MENTIONED	Follow the Technical Specs
Tech Specs	Plans	BOQ							
* 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. * The distribution boards shall be supplied fully equipped, wired, and proofed against vermin, dust and moisture	NEMA 1	NOT MENTIONED							

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE								
157.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1118.2.1 (g) STN-MEP-ELL-ON-2012 and STN-MEP-ELL-OS-2012	In reference to BOQ and Lighting Fixture Schedule, IP Rating is IP 20. However, as per Technical Specifications IP Rating is IP 65 and above. Please clarify which IP rating will be considered for lighting fixtures located at entrance. See image below for reference: 1. as per Technical Specifications: <div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> (g) Ingress protection of outdoor type fixtures used specially for elevator shaft, outdoor machine yard or at the station entrance area shall be more than 65 and above. </div> 2. as per Lighting Fixture Schedule <div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">A4</td> <td style="width: 20%;"></td> <td style="width: 70%;">E1 -A LED Linear module fixture, Batten type (100-240V 28.5W 3000K 3500lm IP20, Lifetime 40,000 hrs., W 70mm)</td> </tr> <tr> <td style="text-align: center;">A6</td> <td></td> <td>Base light LED Linear module fixture, Batten type (100-240V 5.9W 3000K 730lm IP20, Lifetime 40,000 hrs., W 70mm)</td> </tr> <tr> <td style="text-align: center;">B1</td> <td></td> <td>2X2 Recessed Type Light (220-240 V,50/60 HZ) Lumen Output-3400/2545 Lumen CCT-6500K Wattage-36.3/25.7 Watt</td> </tr> </table> </div>	A4		E1 -A LED Linear module fixture, Batten type (100-240V 28.5W 3000K 3500lm IP20, Lifetime 40,000 hrs., W 70mm)	A6		Base light LED Linear module fixture, Batten type (100-240V 5.9W 3000K 730lm IP20, Lifetime 40,000 hrs., W 70mm)	B1		2X2 Recessed Type Light (220-240 V,50/60 HZ) Lumen Output-3400/2545 Lumen CCT-6500K Wattage-36.3/25.7 Watt
A4		E1 -A LED Linear module fixture, Batten type (100-240V 28.5W 3000K 3500lm IP20, Lifetime 40,000 hrs., W 70mm)									
A6		Base light LED Linear module fixture, Batten type (100-240V 5.9W 3000K 730lm IP20, Lifetime 40,000 hrs., W 70mm)									
B1		2X2 Recessed Type Light (220-240 V,50/60 HZ) Lumen Output-3400/2545 Lumen CCT-6500K Wattage-36.3/25.7 Watt									

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Plumbing: Sections 1121.2.1.b	Fire rated cables for few feeders which will run during Fire Conditions. With this, please provide/specify those "few feeders which will run during Fire Conditions".	are essential and will run during fire condition, type shall be LSZH, Fire-rated cables.
159.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1222.2.1 STN-MEP-VAC-CWD-1106	Please verify what will be used in the Air Handling Units and Fan Coil Units: Motorized valve + balancing valve or PICV?	Bidders to refer to the Technical Specification
160.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Supply of Spare Parts, Special Tools, Test Equipment and Consumable	In reference to Technical Specifications for MEP, The Contract Spares shall be sufficient for the full operation of Permanent Works for a period of 2 (two) years after Contractor's Defect Notification Period. Does this mean that the Operation is 3 years?	Bidders to refer with contract.
161.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Supply of Spare Parts, Special Tools, Test Equipment and Consumable	In reference to Technical Specifications for MEP, Spare quantity must be atleast 2% of the Total Quantity Installed or at least one for each critical equipment. In this case, please provide specific lists of those critical equipment.	Bidders to refer with contract.
162.	Technical Specifications 3: Mechanical, Electrical,	Should comply all standards?	Bidders to comply

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Page 13 Project Specific Condition Code and Regulation (a) The MEP facilities, plumbing, sanitary drainage, storm drainage, water supply & distribution, water and waste water treatment and fire protection services installation shall be of the highest quality in accordance with the standards as specified and shall conform to the following: >>21 standards are listed</p>		
163.	<p>Technical Specifications 3: Mechanical, Electrical, Page 552 1226 Tunnel Ventilation System</p>	Should comply all standards? Local and Japan and US?	<p>Bidders to comply hierarchy of standard.</p> <ol style="list-style-type: none"> 1. Local Standard 2. US Standard (NFPA) 3. Japanese Standard

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	(TVS) 1226.1.2 Standards (b) In addition to local requirements, tunnel ventilation system design shall also comply with the latest versions of the following codes of practice, standards, specifications and manuals:		
<i>4. Underground Structures</i>			
164.	Technical Specification (TS) 4. Underground Structures 2100.14.1 1) c) Payment for Provision of TBM (c) Payment for Pay Item 2100 (3) shall be made in the following manner:	Please confirm that payment for the provision of the TBM is under BOQ Item 2100(2).	We confirm that payment for the provision of the TBM is under BOQ Item 2100(2).
165.	Technical Specification (TS) 4. Underground Structures Table 2012.4.2 (page 148)	Please provide the clear copy.	Please refer to attachment B

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE				
	Monitoring Schedule - Illegible table The content of the table is not legible						
166.	<p>Technical Specification (TS) 4. Underground Structures Page 394 – 402 1033 Metal Deck, Catwalk for Equipment Maintenance and FRP Chequered Plate Cover 1033.2.1 Product Selection (p396) (2) Refer to the Drawings, in particular the steel deck schedule for specific size and configurations. 1033.2.2 Material 4) Catwalk for Equipment Maintenance Fabricate catwalks including</p>	<p>We cannot find any detailed drawings for the items specified in this section of the specifications. We cannot also find any specification on FRP chequered plate cover in addition to the detailed drawings. Therefore can we assume that this section 1033 of the specifications are not applicable for CP 104 contract? Or otherwise please issue the layout and detailed drawings indicating full scope of works together with pay items and quantities in Bill No. 4.</p>	<p>Item is included in Pay Item No. 1033 (3) Catwalk for Equipment Maintenance</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">1033</td> <td style="text-align: center;">1033 (3)</td> <td style="text-align: center;">Catwalk for Equipment Maintenance</td> <td style="text-align: center;">ls</td> </tr> </table> <p>Kindly refer architecture typical detail number 9220, 9221 & 9850.</p>	1033	1033 (3)	Catwalk for Equipment Maintenance	ls
1033	1033 (3)	Catwalk for Equipment Maintenance	ls				

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	platforms, railings, ladders, supports and hangers, and arrangement of members as shown on drawings.		
167.	Technical Specification (TS) 4. Underground Structures 1002 PLUMBING WORKS Various Items at Pantry Counters DWG Nos. STN-AR-A-ON/OS-9640 7 COLD WATER TAP 10 INDUCTION COOK 11 OVEN / GRILL 12 SOCKET OUTLET , POSITION(S) TO BE CONFIRMED 14 COOKER WOOD	We can neither find COLD WATER TAP, INDUCTION COOK, OVEN / GRILL and COOKER WOOD in the specifications nor Bill No. 4. Please provide the specifications as well as pay items and quantities in Bill No. 4. With regards to items 12 SOCKET OUTLET, please confirm these items are indicated in MEP drawings and pay items and quantities	All items in the drawing should be included in the estimation of the pantry counter.
168.	Technical Specification (TS)	Please provide the clause references in English	Please refer to Annex B

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>4. Underground Structures Page 82 2007. 2.9.2) Workability Limits The batches or mixing operator shall maintain the workability of the concrete mixes when delivered to the Works in accordance with the slump requirements specified in エ ラー!参照元が見つかりません</p> <p>Page 113 2008.18. c) If the requirements of the above have not been met, additional samples shall be provided from the same batches of connector and reinforcement as originally tested and additional tests</p>	<p>language.</p>	

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	shall be carried out in accordance with TS エラー!参照元が見つかりません。 of this Clause.		
169.	Technical Specification (TS) 4. Underground Structures Clause 2007.2.1.3)	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.
170.	Technical Specification (TS) 4. Underground Structures Page 105 2008.2 Reinforcing Steel Bar / Stainless Reinforcing Steel Bar	AASHTO M 31 Deformed Billet Steel Bars for Concrete Reinforcement – The AASHTO M 31 is aligned with ASTM A615 which is not of “weldable grade”, The weldable grade should be ASTM A706. Please clarify, section 2008.2 mentions that rebars should be of weldable quality.	Please comply Philippine National Standard PNS-49(2020) and equivalent
171.	Technical Specification (TS) 4. Underground Structures Page 105 2008.2 Reinforcing Steel Bar / Stainless Reinforcing Steel	Bar reinforcement shall be weldable steel manufactured to comply with AASHTO M 31 – Suggest to revise to “Bar reinforcement shall be weldable steel manufactured to comply with PNS Weldable Grades per PNS 49:2002”.	Please comply Philippine National Standard PNS-49(2020) and equivalent

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Bar		
172.	Technical Specification (TS) 4. Underground Structures Page 111 2008.13 Compliance Criteria: Unit Mass	A batch of bar or fabric reinforcement shall be considered compliant for unit mass if the specimen is within the tolerances specified in AASHTO M31 and ASTM A 496. If the requirements on the above have not been met additional samples shall be taken from the same batch and additional tests shall be carried out in accordance with TS 2008.19 of this Clause. – Please clarify if Unit mass tolerances shall be based from PNS 49:2002 as mentioned in section 2008.26.1 Method of Measurement a) Reinforcement Steel Bar	Please comply Philippine National Standard PNS-49(2020) and equivalent
173.	Technical Specification (TS) 4. Underground Structures Page 105 2008.2 Reinforcing Steel Bar / Stainless Reinforcing Steel Bar	Cold reduced steel wire shall be in accordance to AASHTO M 32 or AAHSTO M 225. Can we use the current equivalent product standard to AASHTO M32 and M225 which is ASTM A1064.	Agree with your proposal.
174.	Technical Specification (TS)	“Steel Welded Wire Fabric, Plain, for Concrete	Please comply Philippine National Standard

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE												
	4. Underground Structures Page 105 2008.3 Fabric Reinforcement	Reinforcement” and shall be manufactured from grade 460 wire complying with AASHTO M 225 or AASHTO M32, respectively. Please clarify if you are referring to Grade 450 as there is no Grade 460 in the standards AASHTO M225 or M32 AASHTO M32, , and shall be manufactured from grade 460 wire complying with AASHTO M 225 orrespectively.	PNS-49(2020) and equivalent												
<i>5Pedestrian Bridge,</i>															
175.	SPL-PB2-ON-5001 Technical Specifications 5: Pedestrian Bridge Section 2323.2	Please verify what material to be used for the piping of Storm Drainage Line for Pedestrian Bridge. Based on Gen Notes it is PVC Series 1000. But based on Technical specs, it is Cast Iron	Cast Iron												
176.	Technical Specifications 5: Pedestrian Bridge, Section 2324 (Machine Roomless Elevator) STN-PB1-M-ON-6001	Please clarify which of the following conflict will prevail: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Description</th> <th style="text-align: center;">Technical Specifications</th> <th style="text-align: center;">Plan/Equipment Schedule</th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Traveling Height</i></td> </tr> <tr> <td>PE-1 Pedestrian Bridge</td> <td style="text-align: center;">5.3 meters (approx.)</td> <td style="text-align: center;">5.97 meters</td> </tr> <tr> <td>PE-2 Pedestrian Bridge</td> <td style="text-align: center;">5.3 meters (approx.)</td> <td style="text-align: center;">6.0 meters</td> </tr> </tbody> </table>	Description	Technical Specifications	Plan/Equipment Schedule	<i>Traveling Height</i>			PE-1 Pedestrian Bridge	5.3 meters (approx.)	5.97 meters	PE-2 Pedestrian Bridge	5.3 meters (approx.)	6.0 meters	Plan/Equipment Schedule will prevail.
Description	Technical Specifications	Plan/Equipment Schedule													
<i>Traveling Height</i>															
PE-1 Pedestrian Bridge	5.3 meters (approx.)	5.97 meters													
PE-2 Pedestrian Bridge	5.3 meters (approx.)	6.0 meters													

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE												
177.	Technical Specifications 5: Pedestrian Bridge, Section 2324 (Machine Roomless Elevator) STN-PB1-M-ON-6001	<p>Please clarify which of the following conflict will prevail:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4f81bd; color: white;"> <th style="text-align: center;">Description</th> <th style="text-align: center;">Technical Specifications</th> <th style="text-align: center;">Plan/Equipment Schedule</th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Capacity</i></td> </tr> <tr> <td style="text-align: center;">PE-1 Pedestrian Bridge</td> <td style="text-align: center;">not less than 14 persons (not less than 1050kg)</td> <td style="text-align: center;">11 persons (825kg)</td> </tr> <tr> <td style="text-align: center;">PE-2 Pedestrian Bridge</td> <td style="text-align: center;">not less than 14 persons (not less than 1050kg)</td> <td style="text-align: center;">11 persons (825kg)</td> </tr> </tbody> </table>	Description	Technical Specifications	Plan/Equipment Schedule	<i>Capacity</i>			PE-1 Pedestrian Bridge	not less than 14 persons (not less than 1050kg)	11 persons (825kg)	PE-2 Pedestrian Bridge	not less than 14 persons (not less than 1050kg)	11 persons (825kg)	Plan/Equipment Schedule will prevail.
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178.	Technical Specifications 5: Pedestrian Bridge, Section 2324 (Machine Roomless Elevator) STN-PB1-M-ON-6001	<p>Please clarify which of the following conflict will prevail:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4f81bd; color: white;"> <th style="text-align: center;">Description</th> <th style="text-align: center;">Technical Specifications</th> <th style="text-align: center;">Plan/Equipment Schedule</th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Car Size</i></td> </tr> <tr> <td style="text-align: center;">PE-1 Pedestrian Bridge</td> <td style="text-align: center;">1400mm W x 1600mm D</td> <td style="text-align: center;">1350mm W x 1400mm D</td> </tr> <tr> <td style="text-align: center;">PE-2 Pedestrian Bridge</td> <td style="text-align: center;">1400mm W x 1600mm D</td> <td style="text-align: center;">1350mm W x 1400mm D</td> </tr> </tbody> </table>	Description	Technical Specifications	Plan/Equipment Schedule	<i>Car Size</i>			PE-1 Pedestrian Bridge	1400mm W x 1600mm D	1350mm W x 1400mm D	PE-2 Pedestrian Bridge	1400mm W x 1600mm D	1350mm W x 1400mm D	Plan/Equipment Schedule will prevail.
Description	Technical Specifications	Plan/Equipment Schedule													
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Description	Technical Specifications	Plan/Equipment Schedule													
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
180.	TS1 Page 173-289 TS5 Page 81-165 TS6 Page 2-8 TS3 Page 618-636 Four Technical Specification for MEP work	MEP specification are listed as: i) Technical Specification (TS) 1 Civil page 173-289 ii) TS5 Pedestrian Bridge page 81-165 iii) TS6 Tunnel Lighting page 2-8 iv) TS3 MEP all pages Please confirm Contractor use only below for MEP work, a) TS3 MEP b) TS5 Tunnel lighting	The four technical specifications cited are appropriate for the differing work areas. Bidder should comply.

<i>Volume III Part2 Works Requirements Section VI Works Requirements – Employer’s Drawings (DRW)</i>			
181.	Steel restraints of block walls DWG Nos. STA-S-OS/ON-3010 TYPICAL DETAILS CONCRETE BLOCKS STN-AR-A-OS/ON-9001	We cannot identify the pay items for the restraints of concrete blocks made of steel angles, plates and anchor bolts shown on DWG Nos. STA-S-OS/ON-3010. May we request to let us know which pay items these works are included in? May we assume that detail of RESTRAINT OF NON-STRUCTURAL BLOCKWORK BY SLAB - INT.	Structural drawings take precedence over Architectural drawings.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	TYPICAL WALL TYPE DETAILS BLK-01, BLK-02, BLK-03	WALL W/ CEILING indicated on DWG Nos. STA-S-OS/ON-3010 are not used for the project since the detail is not shown on the DWG Nos. STN-AR-A-OS/ON-9001.	
182.	Scope of MATV system DWG; STN-MEP-ELV-OS-2047	Please confirm that all MATV system work is out of CP104 scope.	Confirmed.This is in CP104 scope
183.	Scope of LAN system DWG; STN-MEP-ELV-OS-2048	In the legend, it says that the solid line 'by the contractor', the dotted line is 'by the telephone service provider'. But they seem that they are opposite. Please confirm below scope about telephone system. i) Solid line ; out of CP104 scope ii) Dotted line ; CP104 scope iii) Equipment ; out of CP104 scope iv) Outlet ; out of CP104 scope v)IDF ; out of CP104 scope	LAN system shall be under Telephone service provider scope. However, the provision such as piping, cable tray and other relevant work for LAN system shall be provided by the CP104 Contractor
184.	Discrepancy between civil and MEP drawings DWG; STN-MEP-PLD-ON-3304 CW-CE-ON-1010	MEP drawing shows that the discharge pipe rise at grid line 35. Civil drawing shows that it rise at grid line 37. Please confirm MEP drawing is correct.	Contractor to coordinate with Civil drawing during preparation of coordination and shop drawing.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
185.	Detail of Fan Acoustic enclosure DWG; STN-MEP-VAC-CWD-1103	Please provide a list of which fans shall be equipped with the acoustic enclosure like this.	If not specified for any fan, it can be ignored.
186.	Concrete Filling behind Granite Stone DWG Nos. STN-AR-A-OS/ON-9003	The drawings indicate "concrete filling" behind the granite stone. However we cannot find any specification of the filling concrete and also any pay item in BOQ. Kindly provide the specifications of concrete filling and the pay items and quantities for the above concrete filling in Bill No. 4.	Corresponding filling composed as part of material system" Therefore, it is not considered as separate pay items
187.	Perimeter Joint Sealant with Filler Drawing No. STN-AR-A-OS/ON-9030	The drawings indicate "6 PARIMETER JOINT SEALANT" and "7 APPROVED JOINT BACKING/FILLER". However we cannot find any pay items for the same in BOQ. Kindly provide the pay items and quantities for the above works in Bill No. 4.	Corresponding material sealant composed as part of material system" Therefore, it is not considered as separate pay items
188.	Perimeter Joint Sealant with Filler Drawing Nos.	The drawings indicate "6 PARIMETER JOINT SEALANT" and "7 APPROVED JOINT BACKING/FILLER".	Corresponding material sealant composed as part of material system" Therefore, it is not considered as separate pay items

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE									
	STN-AR-A-OS/ON-9030	However we cannot find any pay items for the same in BOQ. Kindly provide the pay items and quantities for the above works in Bill No. 4.										
189.	Sealant at Upstand of Cavity Walls Drawing Nos. STN-AR-A-OS/ON-9030	The drawings indicate "11 SEALANT" at upstand of the cavity walls. However we cannot find any pay items for the same in BOQ. Kindly provide the pay items and quantities for the above works in Bill No. 4.	Corresponding material sealant composed as part of material system" Therefore, it is not considered as separate pay items									
190.	Aluminium Panels for Vertical Surface of the Stair and Escalator Ceilings at Entry DWG Nos. STN-AR-A-OS/ON-9060: Detail C DWG Nos. STN-AR-A-OS/ON-6004, 6014 and 6023 and the similar drawings for the North station	The drawings indicate 600 x 600 x 1mm aluminium panels supported by 75 x 75 x 5mm and 100 x 100 x 5mm L galvanized steel angle with for vertical surface of the Stair and Escalator Ceilings at Entry. However we cannot find any pay item for this works in BOQ. Kindly provide the pay items and quantities for the steel angles and the aluminium panels installed vertically in Bill No. 4.	For ON, considered as part of system of 1811 (3). <table border="1" style="width: 100%;"><tr><td style="width: 15%;">1811</td><td style="width: 15%;">1811 (3)</td><td style="width: 70%;">Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm</td></tr></table> For OS, considered as part of system of 1811 (2) and 1811 (3) <table border="1" style="width: 100%;"><tr><td style="width: 15%;">1811</td><td style="width: 15%;">1811 (2)</td><td style="width: 70%;">Aluminum Ceiling Panel (Triangular Printed); 12</td></tr></table> <table border="1" style="width: 100%;"><tr><td style="width: 15%;">1811</td><td style="width: 15%;">1811 (3)</td><td style="width: 70%;">Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm</td></tr></table>	1811	1811 (3)	Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm	1811	1811 (2)	Aluminum Ceiling Panel (Triangular Printed); 12	1811	1811 (3)	Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm
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191.	Suspension System for Up	The drawings indicate that all works except Down lights	Suspension System is part of the allowance for ceiling									

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE			
	and Down Lights at the Edge of the Curved Ceiling DWG Nos. STN-AR-A-OS/ON-9064: Detail A Ceiling Details at Light	and Up lights shall be done by Architecture. However we cannot find any pay item for these works in BOQ. Kindly provide the pay items and quantities for the above suspension system for down lights and up light at the edges of the curved ceiling in Bill No. 4.	hangers. BOQ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1047</td> <td style="text-align: center;">1047 (2)</td> <td style="text-align: center;">Structural Steel</td> </tr> </table>	1047	1047 (2)	Structural Steel
1047	1047 (2)	Structural Steel				
192.	Suspension System for Down Lights and Up Light at the Edge of the Curved Ceiling DWG Nos. STN-AR-A-OS/ON-9064: Detail A Ceiling Details at Air Diffuser	The drawings indicate that all works including diffusers except the plenum shall be done by Architecture. However we cannot find any pay item for these works in BOQ. Kindly provide the pay items and quantities for the above suspension system for air diffuser at the edges of the curved ceiling in Bill No. 4.	Suspension System is part of the allowance for ceiling hangers. BOQ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1047</td> <td style="text-align: center;">1047 (2)</td> <td style="text-align: center;">Structural Steel</td> </tr> </table>	1047	1047 (2)	Structural Steel
1047	1047 (2)	Structural Steel				
193.	Bracket for Up and Down Lights at Columns DWG Nos. STN-AR-A-OS/ON-9064: Detail - C	The drawings indicate the followings: 8 STEEL PLATE 14 ANCHOR BOLT 19 150 x 100 x 10mm STEEL GALVANIZED H-BEAM (PAINT FINISH) However we cannot find any pay item for these works in BOQ. Kindly provide the pay items and quantities for the	Bracket is considered in this pay item. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1047</td> <td style="text-align: center;">1047 (14)</td> <td style="text-align: center;">Platform H-beam Light Box</td> </tr> </table>	1047	1047 (14)	Platform H-beam Light Box
1047	1047 (14)	Platform H-beam Light Box				

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																	
		above works at the columns in Bill No. 4. Please provide also details how to install for the up and down lights.																																		
194.	Access Hatch in Gypsum Ceiling DWG Nos. STN-AR-A-OS/ON-9070	The drawings indicate that Access hatch shall be done by Architecture However we cannot find any pay item for the hatch in BOQ. Kindly provide the pay items and quantities for the ceiling hatch in Bill No. 4.	Access hatch are part of the ceiling system per finish. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">1811</td><td style="width: 10%;">1811 (1)</td><td>Triangular Aluminum Ceiling</td></tr> <tr><td>1811</td><td>1811 (2)</td><td>Aluminum Ceiling Panel (Triangular Printed); 1200mm x 600mm</td></tr> <tr><td>1811</td><td>1811 (3)</td><td>Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm</td></tr> <tr><td>1811</td><td>1811 (4)</td><td>Spandrel Panel Ceiling</td></tr> <tr><td>1811</td><td>1811 (5)</td><td>Metal Concealed Ceiling Panel</td></tr> <tr><td>1811</td><td>1811 (6)</td><td>Curved Metal Panel</td></tr> <tr><td>1811</td><td>1811 (7)</td><td>Aluminum Ceiling Panel with Perforation</td></tr> <tr><td>1811</td><td>1811 (8)</td><td>Aluminum Ceiling Panel without Perforation</td></tr> <tr><td>1811</td><td>1811 (9)</td><td>Aluminum Composite Panel Cladding</td></tr> <tr><td>1030</td><td>1030 (1)</td><td>Concealed Grid Mineral Acoustical Board</td></tr> <tr><td>1030</td><td>1030 (2)</td><td>Moisture Resistant Gypsum Board</td></tr> </table>	1811	1811 (1)	Triangular Aluminum Ceiling	1811	1811 (2)	Aluminum Ceiling Panel (Triangular Printed); 1200mm x 600mm	1811	1811 (3)	Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm	1811	1811 (4)	Spandrel Panel Ceiling	1811	1811 (5)	Metal Concealed Ceiling Panel	1811	1811 (6)	Curved Metal Panel	1811	1811 (7)	Aluminum Ceiling Panel with Perforation	1811	1811 (8)	Aluminum Ceiling Panel without Perforation	1811	1811 (9)	Aluminum Composite Panel Cladding	1030	1030 (1)	Concealed Grid Mineral Acoustical Board	1030	1030 (2)	Moisture Resistant Gypsum Board
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195.	Custom made SS Corner Strips and Claddings at and beside the Wall Chamfer on B1 Level DWG Nos. STN-AR-A-OS/ON-9830 DWG Nos. STN-AR-A-OS/ON-9110 DWG Nos.	The drawings indicate the SS custom made strips and claddings at and beside the wall chamfer. However we cannot find any pay item for the same in BOQ. Kindly provide the pay items and quantities for the SS custom made strips and claddings at and beside the wall chamfer in Bill No. 4.	Part of granite cladding system. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">1018</td><td style="width: 10%;">1018 (3) a1</td><td>Granite Stone Honed Finish – 600x1200x30</td></tr> <tr><td>1018</td><td>1018 (3) a2</td><td>Granite Stone Honed Finish – 1200x150x30</td></tr> <tr><td>1018</td><td>1018 (3) b1</td><td>Granite Stone Polished – 1200x600x30</td></tr> <tr><td>1018</td><td>1018 (3) b2</td><td>Granite Stone Polished – 1200x150x30</td></tr> <tr><td colspan="3" style="height: 20px;"> </td></tr> <tr><td>1018</td><td>1018 (3) b3</td><td>Granite Stone Polished – 1200x150x30</td></tr> </table>	1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30	1018	1018 (3) b1	Granite Stone Polished – 1200x600x30	1018	1018 (3) b2	Granite Stone Polished – 1200x150x30				1018	1018 (3) b3	Granite Stone Polished – 1200x150x30															
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	STN-AR-A-OS/ON-1201 DWG Nos. STN-AR-A-OS/ON-1203 DWG No. STN-AR-A-OS-1205		
196.	III 1.1.8.2 Outline Safety Management Plan "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	Please confirm that the Bidder is not required to identify, isolate or treat any persons.	The Bidder is responsible to identify, isolate and arrange for infected persons to be treated at a Government of the Philippines pandemic treatment center.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE												
	infections, and active identification, isolation and treatment of persons under the bidder's responsibility".														
197.	Roof Floor Finish, Downspouts, Drain Channels at Entrance DWG Nos. STN-AR-A-OS/ON-9180 Materials 3 MORTAR TROWEL (METAL LATHE BASE) 4 125 MM ALUMINUM RECTANGULAR PIPE T=1.8 MM 6 BOLT DOWN STAINLESS STEEL BAR GRATE TRAFFIC,PEDESTRIAN RATED 8 CENTER BRACKET	No. 3 of the Materials states MORTAR TROWEL (METAL LATHE BASE). However Section-1 and Detail-A describe both No 3 and FCF-02. Floor Finish Material of FCF-02 defined as CONCRETE TROWEL WITH FLOOR HARDENER. Please clarify which one is correct. If 3 MORTAR TROWEL (METAL LATHE BASE) is correct, then no pay item in BOQ, please provide the pay item and quantities in Bill No. 4. No. 13 of the Materials states (SIZE AS PER MEP). However no sizes are specified in MEP drawings. Please specify the sizes. We request more specific details of materials, thickness, and joint details for the drain channels as well as No. 6: SS gratings. All the steel materials such as Nos8, 9, 10 have neither anti-rust treatment nor finishes. Please specify them. With regards to No. 4, Is 125 MM ALUMINUM RECTANGULAR PIPE T=1.8 MM meant for 1235	Item 3, 6, 13: required material/specification/size to be provided in revised drawing. Revised BOQ will be submitted. Item 4 is 125 MM square pipe as shown in the drawing. "CONCRETE TROWEL WITH FLOOR HARDENER" is correct. Item 3 is included in Pay Item No. 1021 (1) c1. <table border="1" style="width: 100%;"><tr><td style="text-align: center;">1021</td><td style="text-align: center;">1021 (1) c1</td><td style="text-align: center;">Cement Floor Finish - Concrete Trowel</td></tr></table> Item 6 is included in Pay Item No. 1805 (1) a1 <table border="1" style="width: 100%;"><tr><td style="text-align: center;">1805</td><td style="text-align: center;">1805 (1) a1</td><td style="text-align: center;">Stainless Steel Floor Grating</td></tr></table> Items 8, 9, 10 & 12 are included in Pay Item No. 1235 (7) <table border="1" style="width: 100%;"><tr><td style="text-align: center;">1235</td><td style="text-align: center;">1235 (7)</td><td style="text-align: center;">125mmx125mm Aluminum Rectangular Pipe</td></tr><tr><td style="text-align: center;">1235</td><td style="text-align: center;">1235 (7)</td><td style="text-align: center;">75mmx75mm Aluminum Rectangular Pipe</td></tr></table>	1021	1021 (1) c1	Cement Floor Finish - Concrete Trowel	1805	1805 (1) a1	Stainless Steel Floor Grating	1235	1235 (7)	125mmx125mm Aluminum Rectangular Pipe	1235	1235 (7)	75mmx75mm Aluminum Rectangular Pipe
1021	1021 (1) c1	Cement Floor Finish - Concrete Trowel													
1805	1805 (1) a1	Stainless Steel Floor Grating													
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE						
	9 9 MM THK FLAT BAR 10 10 MM THK MS PLATE 12 T TUBE CAP 13 SMOOTH PRECAST POLYMER TRENCH BODY SLOPED TO CATCH BASIN (SIZE AS PER MEP) 14 ROOF DRAIN HORIZONTAL Floor Finish Material FCF-02 CONCRETE TROWEL WITH FLOOR HARDENER	<p>Aluminium Rectangular Pipe? If so, please provide the specifications on this works since there is no specifications. If not, please provide the specifications and pay items for these works.</p> <p>We cannot also find any pay items for Material nos. 3, 6, 8, 9, 10, 12, 13 and 14 in BOQ. Kindly provide the pay items and quantities for the above works in Bill No. 4 after you have provided answers for the above clarifications.</p>	<p>Item 14 is included in Pay Item No. 1017 (1)</p> <table border="1" data-bbox="1384 592 2103 632"> <tr> <td>1017</td> <td>1017 (1)</td> <td>Roof Drain with Strainer</td> <td>set</td> </tr> </table>	1017	1017 (1)	Roof Drain with Strainer	set		
1017	1017 (1)	Roof Drain with Strainer	set						
198.	Additional Angles, Led Light Support Channels and SS plates between the Staircases and the Escalators DWG Nos. STN-AR-A-OS/ON-9190 DWG Nos.	<p>All the steel materials in these drawings do not indicate neither anti-rust treatment nor finishes. Please specify them.</p> <p>We cannot also find any pay items for material nos. 11, 14, 19 and 21 in BOQ. Kindly provide the pay items and quantities for the above works in Bill No. 4 after you have provided answers for the above clarifications.</p>	<p>Item 11 is included in Pay Item No. 1018 (3) a1</p> <table border="1" data-bbox="1384 1086 2103 1126"> <tr> <td>1018</td> <td>1018 (3) a1</td> <td>Granite Stone Honed Finish – 600x1200x30</td> </tr> </table> <p>Item 19 is included in Pay Item No. 1803 (3) a</p> <table border="1" data-bbox="1384 1222 2103 1302"> <tr> <td>1803</td> <td>1803 (3) a</td> <td>Stainless Steel Cover in between Stair and Escalator</td> </tr> </table> <p>Item 14 & 21 is included in Pay Item Nos. 1018 (3) a1 &</p>	1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	1803	1803 (3) a	Stainless Steel Cover in between Stair and Escalator
1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30							
1803	1803 (3) a	Stainless Steel Cover in between Stair and Escalator							

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE												
	STN-AR-A-OS/ON-9191 Materials 11 L 130 x 130 x 12 MM THK @ 800 MM 14 90 x 30 x 2.3 MM THK STEEL GALVANIZED 19 1.2 MM THK SS PLATE 21 L-130 x 80 x 12 MM THK = 150 @ 800 MM		1018 (3) a2 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1018</td> <td style="width: 10%; text-align: center;">1018 (3) a1</td> <td style="width: 80%;">Granite Stone Honed Finish – 600x1200x30</td> </tr> <tr> <td style="text-align: center;">1018</td> <td style="text-align: center;">1018 (3) a2</td> <td>Granite Stone Honed Finish – 1200x150x30</td> </tr> </table>	1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30						
1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30													
1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30													
199.	Additional Concrete between the Staircases and the Escalators DWG Nos. STN-AR-A-OS/ON-9191 Upstand concrete wall indicated in 3 SECTION-3 and 5 DETAIL-B	Please provide details such as rebar and concrete strength fir t We cannot also find any pay items for material nos. 11, 14, 19 and 21 in BOQ. Kindly provide the pay items and quantities for the above works in Bill No. 4 after you have provided answers for the above clarifications.	Item 11 is included in Pay Item No. 1018 (3) a1 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1018</td> <td style="width: 10%; text-align: center;">1018 (3) a1</td> <td style="width: 80%;">Granite Stone Honed Finish – 600x1200</td> </tr> </table> Item 19 is included in Pay Item No. 1803 (3) a <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1803</td> <td style="width: 10%; text-align: center;">1803 (3) a</td> <td style="width: 80%;">Stainless Steel Cover in between Stair and Escalator</td> </tr> </table> Item 14 & 21 is included in Pay Item Nos. 1018 (3) a1 & 1018 (3) a2 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1018</td> <td style="width: 10%; text-align: center;">1018 (3) a1</td> <td style="width: 80%;">Granite Stone Honed Finish – 600x1200x30</td> </tr> <tr> <td style="text-align: center;">1018</td> <td style="text-align: center;">1018 (3) a2</td> <td>Granite Stone Honed Finish – 1200x150x30</td> </tr> </table>	1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200	1803	1803 (3) a	Stainless Steel Cover in between Stair and Escalator	1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30
1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200													
1803	1803 (3) a	Stainless Steel Cover in between Stair and Escalator													
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1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30													

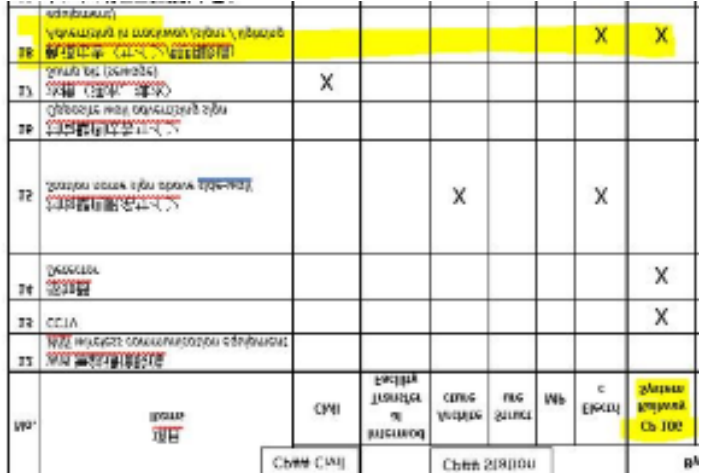
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE				
200.	Scupper Drains at direction perpendicular to the Staircase DWG Nos. STN-AR-A-OS/ON-9191 2 SECTION-1, 3 SECTION-2 and 8 DETAIL-E	The drawings indicate the scupper drains to be formed by the granite stones. However we cannot also find any pay items for the scupper drains made of granite stones. Kindly provide the pay items and quantities for the above in Bill No. 4.	Item included in Pay Item No. 1018 (3) b4 1018 1018 (3) b4 Granite Stone Polished – 1200x80x2				
201.	Cat Ladders DWG Nos. STN-AR-A-OS-9220 & 9221 DWG No. STN-AR-A-OS-1400 DWG No. STN-AR-A-OS-1500 DWG No. STN-AR-A-ON-1404 DWG No. STN-AR-A-ON-1504	CUTOUT FOR CAT LADDER is indicated between grid lines 1 and 2 beside grid line B in the South Station and between grid lines 36 and 37 beside grid line B in the North Station. Are these cat ladders a part of the Architectural scope? If so, Kindly provide the pay items and quantities for the above in Bill No. 4 since no cat ladders are in it.	Included in Pay Item No. 1047 (12) Hot-dip Galvanized Steel Ladder <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">1047</td> <td style="width: 15%; text-align: center;">1047 (12)</td> <td style="width: 60%;">Hot-dip Galvanized Steel Ladder</td> <td style="width: 10%; text-align: center;">lm</td> </tr> </table>	1047	1047 (12)	Hot-dip Galvanized Steel Ladder	lm
1047	1047 (12)	Hot-dip Galvanized Steel Ladder	lm				
202.	AD POSTER/PANEL at	There are AD POSTERS and PANELS at some of the	Ad space in Concourse Level is included in Pay Item No.				

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)							
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE				
	Paid/Unpaid Areas DWG Nos. STN-AR-A-ON/OS-9400 DWG Nos. STN-AR-A-ON/OS-1202 DWG No. STN-AR-A-ON/OS-1203 DWG No. STN-AR-A-OS-1205 DWG No. STN-AR-A-ON-1200 DWG No. STN-AR-A-ON-1204	cavity walls in addition to GALLERY WALLs. However we cannot find any pay items for the same in BOQ, therefore please provide the pay items for AD POSTERs and PANELs in Bill No. 4.	1035 (2) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1035</td> <td style="width: 10%; text-align: center;">1035 (2)</td> <td style="width: 70%;">Gallery Wall Stainless Steel Structural Module</td> <td style="width: 10%; text-align: center;">m2</td> </tr> </table>	1035	1035 (2)	Gallery Wall Stainless Steel Structural Module	m2
1035	1035 (2)	Gallery Wall Stainless Steel Structural Module	m2				
203.	Floor Access Hatch/Panel Floor Access Hatch/Panel–Precast Concrete Block 2 hr Fire Rated Items a) to i) DWG Nos. STN-AR-A-ON/OS-7103,	The descriptions of the specifications does not match the drawings. a) Can we consider the drawings supersede the descriptions of the specifications? b) Can we also consider 2 hour fire rating will be satisfied as long as we construct the floor access hatch in accordance with the drawings since the design has been provided in the bid documents?	a) Technical specifications are already coordinated with drawings. Revised drawing to be submitted. b)Yes c) Since the panels are precast concrete, the Access panels performance Requirements, materials and fabrications are described in TS 1814, Section 1814.2				

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE				
	9410 and 9411	c) In addition, please provide details of precast concrete panels such as concrete strength, rebar and pc strands or loading requirement on the precast panels.					
204.	The wire sizes for Tunnel lightings and outlets. DWG; STN-MEP-ELL-ON-2026, STN-MEP-ELL-ON-2027, STN-MEP-ELL-OS-2035, STN-MEP-ELL-OS-2038T Wire sizes for lightings are 2.0mm ² . Ones for outlets are 3.5mm ² .	The Bidder recognizes that specified wire sizes for tunnel lighting and outlets are not considered with voltage drop. The Bidder would like to clarify whether change wire sizes with considering voltage drop shall be reflected to bidding price.	Contractor can propose the wire sizes considering voltage drop for Tunnel Lighting and outlets.				
205.	AD POSTER/PANEL at Paid/Unpaid Areas DWG Nos. STN-AR-A-ON/OS-9400 DWG Nos. STN-AR-A-ON/OS-1202 DWG No. STN-AR-A-ON/OS-1203	There are AD POSTERs and PANELs at some of the cavity walls in addition to GALLERY WALLs at Paid/Unpaid area. However we cannot find any details and pay items for the same in BOQ, therefore please provide the details and the pay items for AD POSTERs and PANELs in Bill No. 4.	Ad space in Concourse Level is included in Pay Item No. 1035 (2) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1035</td> <td style="width: 10%; text-align: center;">1035 (2)</td> <td style="width: 70%;">Gallery Wall Stainless Steel Structural Module</td> <td style="width: 10%; text-align: center;">m²</td> </tr> </table>	1035	1035 (2)	Gallery Wall Stainless Steel Structural Module	m ²
1035	1035 (2)	Gallery Wall Stainless Steel Structural Module	m ²				

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	DWG No. STN-AR-A-OS-1205 DWG No. STN-AR-A-ON-1200 DWG No. STN-AR-A-ON-1204		
206.	Advertisement Panels at Track Side DWG Nos. STN-AR-A-ON/OS-9400 DWG Nos. STN-AR-A-ON-1400 to 1403	We cannot find any pay items for advertisement panels at track side in BOQ, therefore please provide the pay items for these panels in Bill No. 4.	Ad panels at track side is under Railway Systems as per Scope of Works 
207.	Phenolic Board Enclosure for Wall Hung Urinal DWG Nos.	There are no pay items for the phenolic board enclosure for wall hung urinal in BOQ. Please provide the pay items and quantities for the above in Bill No. 4.	Included in Pay Item No. 1816(1) a2 – Phenolic Partition – Urinal Partition

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE				
	STN-AR-A-ON/OS-9610 2 12 MM THK MARINE PLYWOOD 3 STUD 5 18 MM THK PHENOLIC BOARD LAMINATED FINISH 7 RC UP STAND		<table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">1816</td> <td style="width: 10%;">1816 (1) a2</td> <td style="width: 70%;">Phenolic Partition - Urinal Partition</td> <td style="width: 10%;">m2</td> </tr> </table>	1816	1816 (1) a2	Phenolic Partition - Urinal Partition	m2
1816	1816 (1) a2	Phenolic Partition - Urinal Partition	m2				
208.	Counter Tops at Ticket Counters and Handicapped Counters DWG Nos. STN-AR-A-ON/OS-9310 TYPICAL DETAILS OF TICKET COUNTER WINDOW	There are no pay items for the counter tops at the ticket counters in BOQ. Please provide the pay items and quantities for the above in Bill No. 4.	<p>Included in Pay Item No. 1821 -Stainless Steel Countertop for Ticket Counter and Handicapped Counter</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">1821</td> <td style="width: 10%;">1821</td> <td style="width: 70%;">Stainless Steel Countertop</td> <td style="width: 10%;">m2</td> </tr> </table>	1821	1821	Stainless Steel Countertop	m2
1821	1821	Stainless Steel Countertop	m2				
209.	Stainless Steel Plates at the Entrance Doors of Elevators DWG Nos. STN-AR-A-ON · OS-9670	We cannot find any pay items on SS plate and 110 x 46 x 5 MM THK SHS at the entrance doors of elevators. Please provide pay items and quantities of the above works in Bill No. 4. In addition, please	<p>Items included in Pay Item No. 1803 (3) b</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">1803</td> <td style="width: 10%;">1803 (3) b</td> <td style="width: 70%;">Stainless Steel Plate</td> <td style="width: 10%;">m2</td> </tr> </table>	1803	1803 (3) b	Stainless Steel Plate	m2
1803	1803 (3) b	Stainless Steel Plate	m2				

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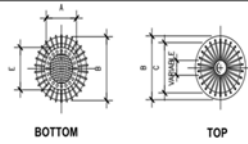
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE				
	and 9671 3 1.2 MM THK SS PLATE 5 110 x 46 x 5 MM THK SHS	correct the titles of the plans from EV-01 to EV-02 as indicated in the drawing title since this elevator is EV-02.					
210.	Ladders, Platforms and Handrails for MEP Out Door Units DWG Nos. STN-AR-A-ON/OS-9850 MATERIALS 1 RHS 75x50x4 2 RHS 65x50x4 3 RHS 20x20x2.5 4 STEEL GRATING 5 C-9x20 STEEL CHANNEL 6 2-12mm ASTM F1554 Gr.36 ANCHOR BOLTS 7 10mm THK ENDPLATE 8 4-12mm ASTM F1554	Please provide the followings: 1. Specifications for finishes on steel materials 2. Detailed drawings for each different type of MEP out door units 3. Pay items for these associated works for MEP out door units with quantities in Bill No. 4	Items are included in Pay Item No. 1033 (3) Catwalk for Equipment Maintenance <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1033</td> <td style="text-align: center;">1033 (3)</td> <td style="text-align: center;">Catwalk for Equipment Maintenance</td> <td style="text-align: center;">Is</td> </tr> </table>	1033	1033 (3)	Catwalk for Equipment Maintenance	Is
1033	1033 (3)	Catwalk for Equipment Maintenance	Is				

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																																																							
	Gr.36 ANCHOR BOLTS 9 50x95x10mm THK BASE PLATE 10 Ø20mm STEEL PIPE 11 NON SHRINK GROUT																																																																									
211.	Fire Extinguisher Cabinets DWG Nos. STN-AR-A-ON/OS-9860	We cannot find any pay items and quantities for the fire extinguisher cabinets indicated on the drawings. Please provide the pay items and quantities for the same in Bill No. 4	Please refer to NRM BQ Bill 5A/5B pay item no. 1202 (10) Type 1 – 3 <table border="1" style="font-size: small; margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>Fire extinguisher cabinet, stainless body including 18" breakable glass with YS221 glass frame, push lock, supporting frames, brackets and all other necessary accessories for fixing as shown and as described</td> <td></td> </tr> <tr> <td>1202(10)</td> <td>Type 1</td> <td>pc</td> </tr> <tr> <td>1202(10)</td> <td>Type 2</td> <td>pc</td> </tr> <tr> <td>1202(10)</td> <td>Type 3</td> <td>pc</td> </tr> </table>		Fire extinguisher cabinet, stainless body including 18" breakable glass with YS221 glass frame, push lock, supporting frames, brackets and all other necessary accessories for fixing as shown and as described		1202(10)	Type 1	pc	1202(10)	Type 2	pc	1202(10)	Type 3	pc																																																											
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1202(10)	Type 3	pc																																																																								
212.	DB Cabinets DWG Nos. STN-AR-A-ON/OS-9870	We cannot find any pay items and quantities for the DB cabinets indicated on the drawings. Please provide the pay items and quantities for the same in Bill No. 4	Included in Pay Items for ECBs <table border="1" style="font-size: small; margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">Enclosed Circuit Breaker (ECB), in NEMA 4X Enclosure</th> </tr> </thead> <tbody> <tr><td>1113</td><td>1113 (3a)</td><td>15A TPN</td></tr> <tr><td>1113</td><td>1113 (3b)</td><td>25A SPN</td></tr> <tr><td>1113</td><td>1113 (3c)</td><td>25A TPN</td></tr> <tr><td>1113</td><td>1113 (3d)</td><td>30A TPN</td></tr> <tr><td>1113</td><td>1113 (3e)</td><td>35A TPN</td></tr> <tr><td>1113</td><td>1113 (3f)</td><td>40A TPN</td></tr> <tr><td>1113</td><td>1113 (3g)</td><td>50A TPN</td></tr> <tr><td>1113</td><td>1113 (3h)</td><td>60A TPN</td></tr> <tr><td>1113</td><td>1113 (3i)</td><td>70A TPN</td></tr> <tr><td>1113</td><td>1113 (3j)</td><td>80A TPN</td></tr> <tr><td>1113</td><td>1113 (3k)</td><td>100A TPN</td></tr> <tr><td>1113</td><td>1113 (3l)</td><td>125A TPN</td></tr> <tr><td>1113</td><td>1113 (3m)</td><td>150A TPN</td></tr> <tr><td>1113</td><td>1113 (3n)</td><td>200A TPN</td></tr> <tr><td>1113</td><td>1113 (3o)</td><td>225A TPN</td></tr> <tr><td>1113</td><td>1113 (3p)</td><td>250A TPN</td></tr> </tbody> </table> <table border="1" style="font-size: small; margin-left: auto; margin-right: auto;"> <tbody> <tr><td>1113</td><td>1113 (3q)</td><td>300A TPN</td><td>assy</td></tr> <tr><td>1113</td><td>1113 (3r)</td><td>350A TPN</td><td>assy</td></tr> <tr><td>1113</td><td>1113 (3s)</td><td>450A TPN</td><td>assy</td></tr> <tr><td>1113</td><td>1113 (3t)</td><td>500A TPN</td><td>assy</td></tr> <tr><td>1113</td><td>1113 (3u)</td><td>600A TPN</td><td>assy</td></tr> </tbody> </table>	Enclosed Circuit Breaker (ECB), in NEMA 4X Enclosure			1113	1113 (3a)	15A TPN	1113	1113 (3b)	25A SPN	1113	1113 (3c)	25A TPN	1113	1113 (3d)	30A TPN	1113	1113 (3e)	35A TPN	1113	1113 (3f)	40A TPN	1113	1113 (3g)	50A TPN	1113	1113 (3h)	60A TPN	1113	1113 (3i)	70A TPN	1113	1113 (3j)	80A TPN	1113	1113 (3k)	100A TPN	1113	1113 (3l)	125A TPN	1113	1113 (3m)	150A TPN	1113	1113 (3n)	200A TPN	1113	1113 (3o)	225A TPN	1113	1113 (3p)	250A TPN	1113	1113 (3q)	300A TPN	assy	1113	1113 (3r)	350A TPN	assy	1113	1113 (3s)	450A TPN	assy	1113	1113 (3t)	500A TPN	assy	1113	1113 (3u)	600A TPN	assy
Enclosed Circuit Breaker (ECB), in NEMA 4X Enclosure																																																																										
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213.			Slope is indicated in detail plans and required thickness																																																																							

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Screed Thickness due to Slopes DWG Nos. STN-AR-A-ON/OS-9010 Floor Finish Types Some details indicate "SCREED SLOPE", but the ranges of floor thickness due to slopes are not indicated except FLC-02 at WC(M/F).WC(HWC),STAFF WC(M/F),SHOWER (M/F), SECURITY STAFF WC & SHOWER (M/F)</p>	<p>Please provide ranges of the floor thickness due to the slopes in the following floor types: FLG-01, FLG-02, FLG-05, FLC-01, FLC-02 for the others, FLC-03 and FVF-02.</p>	<p>can be measured from drawings.</p>
214.	<p>SPL-PB1-P-ON-5008 Ortigas North Station Pedestrian Bridge 2 Miscellaneous Details, SPL-PB2-P-ON-5008 Ortigas North Station Pedestrian Bridge 1 Miscellaneous Details</p>	<p>The size of gutter roof drain has discrepancy among Technical Specification and Drawings. The Bidder assume all 6-inch diameter. The Bidder interpret storm drain pipe for Station shall be 6-inch diameter, kindly confirm.</p>	<p>It is 6-inch</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																													
	<p>Volume 2 Part 2 Section VI Pedestrian Bridge Page 156</p> <p>3) Gutter Roof Drains</p> <div style="text-align: center;">  <p style="display: flex; justify-content: space-around; margin-top: 5px;"> BOTTOM TOP </p> </div> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <caption>TABLE OF DIMENSIONS: (IN MM)</caption> <thead> <tr> <th>MODEL NO.</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50</td> <td>75</td> <td>46</td> <td>64</td> <td>60</td> <td>50</td> <td>50</td> <td>12</td> </tr> <tr> <td>2</td> <td>75</td> <td>100</td> <td>60</td> <td>89</td> <td>92</td> <td>75</td> <td>50</td> <td>17</td> </tr> <tr> <td>3</td> <td>100</td> <td>125</td> <td>95</td> <td>114</td> <td>105</td> <td>100</td> <td>64</td> <td>22</td> </tr> <tr> <td>4</td> <td>150</td> <td>200</td> <td>150</td> <td>187</td> <td>158</td> <td>150</td> <td>89</td> <td>33</td> </tr> </tbody> </table> <p>3) Gutter Roof Drains Standard: ASME A112.6.4, for gutter roof drains. Body Material: Metal. Dimension of Body: Nominal 6-inch (152-mm) diamet Outlet: Bottom. Dome Material: Bronze. Vandal-Proof Dome: Required.</p>	MODEL NO.	A	B	C	D	E	F	G	H	1	50	75	46	64	60	50	50	12	2	75	100	60	89	92	75	50	17	3	100	125	95	114	105	100	64	22	4	150	200	150	187	158	150	89	33		
MODEL NO.	A	B	C	D	E	F	G	H																																								
1	50	75	46	64	60	50	50	12																																								
2	75	100	60	89	92	75	50	17																																								
3	100	125	95	114	105	100	64	22																																								
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Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
215.	STN-MEP-PLD-ON-3212 and 3214 Drainage System Layout-Concourse Level Enlargement Layout (Sheet 2 and 4), Drainage	Drawing indicated ESC SUMP PIT and ESCALATOR SUMP 1000X1000X2500 DEPTH for Escalator 1 and 2. However, the Bidder could not find it in the structural and architectural drawings. The Bidder would like to clarify that SUMP 1000X1000X2500 DEPTH for Escalator 1 and 2 shall made by Concrete with waterproof under the Architecture works of bidder.	Contractor to verify to other services and reflect to combined services and shop drawings.
216.	UT-CE-OS-0010	The Drawing number UT-CE-OS-0010 has identified the Meralco facilities which obstruct the Permanent works, i.e. construction of the Ortigas South Station. Please confirm that all facilities identified on this drawing will be removed, diverted or relocated by others prior to Commencement of Works as stipulated in clause 113.1.1 of the General Specifications (GS).	All of obstructed facilities which client can take action will be removed or relocated before commencement date, except traffic light, street light, which cannot be removed till construction works.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
217.	<p>Pay Item 1006 Steel Doors and Frames</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 192 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7006, STN-AR-A-ON-7014</p>	<p>In the door schedule, Door Type T13 is used, but there is no detailed drawing for this door type. May we request for detailed drawing for Door Type T13.</p>	<p>The door is similar to T14. Please refer to the detail T14 for the folding door.</p>
218.	<p>Pay Item 1006(5) Fire Rated Fire Exit Steel Door</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 193 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7006 to STN-AR-A-ON-7014</p>	<p>Please clarify which door types in the Plans are under this pay item. In the drawing some type of doors are stated to be "(Fire rated doors)" does this mean that all Fire rated doors are under Pay Item 1006(5) Fire Rated Fire Exit Steel Door? Please clarify.</p>	<p>All fire rated doors to be considered in pay item 1006(5).</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
219.	<p>Pay Item 1006(1) Hollow Steel Door</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 192 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7006 to STN- AR-A-ON-7014</p>	<p>Based on the provided bid drawings no detail drawings and specifications are shown for hollow steel door. Please clarify which door types in the Plans are under this pay item. May we also request for detailed technical specifications of this item.</p>	<p>All non-fire rated doors are hollow steel doors.</p> <p>Considered in pay item 1006 (1).</p>
220.	<p>Pay Item 100697) Steel Sliding Doors</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 192 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7006 to STN- AR-A-ON-7014</p>	<p>Based on the provided bid drawings no detail drawings and specifications are shown for steel sliding door. Please clarify which door types in the Plans are under this pay item and may we also request for detailed technical specifications and detailed drawings of this item.</p>	<p>Please refer drawing number 7014 for the detail drawing of the sliding steel door.</p> <p>TS 1006.2.1</p>
221.	<p>Pay item 1818(1) Glass Doors</p> <p>References: Specifications: Technical Specifications 2: Architecture, pag. 692 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-0201</p>	<p>The description of this item is conflicting on Specifications and Plans. In the Specifications, the description is , "Door with nominal 12 mm thick toughened glass including all accessories and fastenings to complete the assembly." In Plans, the description is, "16mm tempered glass panels with 4-mils security film." Which will govern?</p>	<p>The drawing will govern the thickness.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE												
222.	<p>Pay item 1004 Ironmongeries</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 692 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7014</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 184</p>	<p>(1) Items mentioned on ironmongery sets Type 2 and Type 4A are conflicting on Specifications and Plans.</p> <p>- For Type 2, Top flush bolts are included according to Plans, however this item is not listed on the Specifications. Are top flush bolts included for Type 2 or not?</p> <table border="1" data-bbox="920 512 1050 620"> <tr><th colspan="2">Type 2</th></tr> <tr><th>Dwgs</th><th>Specs</th></tr> <tr><td>Flush Bolt Included</td><td>not stated</td></tr> </table> <p>- For Type 4A, it is indicated on the Specifications that this type will conform to Watertight Doors WS-3 specs, but as per plans, specs for WS-6 should be followed. Which will govern?</p> <table border="1" data-bbox="913 772 1068 880"> <tr><th colspan="2">Type 4A</th></tr> <tr><th>Dwgs</th><th>Specs</th></tr> <tr><td>Ws-6</td><td>Ws-6</td></tr> </table> <p>(2) In the Specifications, the ironmongery sets are listed with the corresponding quantities per item in the set. However, some items do not have quantities given. May we request for the complete quantities of items in each ironmongery set.</p>	Type 2		Dwgs	Specs	Flush Bolt Included	not stated	Type 4A		Dwgs	Specs	Ws-6	Ws-6	Type 4a – specification need to be followed.
Type 2															
Dwgs	Specs														
Flush Bolt Included	not stated														
Type 4A															
Dwgs	Specs														
Ws-6	Ws-6														
223.	<p>Pay Item 1046(1)a2 CHB Load Bearing (including Reinforcing Steel) 150mm.</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 466 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-1100</p>	<p>In the Specifications, this item is labelled as "BLK-04 Concrete Hollow Block". On the Plans, there is no BLK-04, however, there is a "BLK-03 150 MM THK Concrete Hollow Block Work". Please clarify if these two are the same.</p>	Drawing should be referred.												

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
224.	<p>Pay Item 1811 (10) Solid Plate</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 606 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-0500</p>	<p>In the Specifications, this item is described as CLG -12 Stainless Steel Solid Plate. However, it is not found in the finishes schedule in the Plans. May we request for the locations in which this item is used.</p>	<p>Kindly refer to detail drawing 9060 detail tag A.</p>
225.	<p>Pay Item 1814 (1) b1 Access Panel - Type A2 500 x 875 mm</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 642 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7102</p>	<p>There are no details for Type A2 500 x 875 mm on the Plans. However there is an one access panel type on the plans, Type T1 - 454 x 654 mm, that is relatively close to this. Please clarify if this is the correct type and dimension for this item.</p>	<p>The dated specification of August matches with the drawing of access panel.</p>
226.	<p>Pay Item 1814 (1) b2 'Access Panel - Type A2 3000 x 3500 mm</p> <p>References: Specifications: Technical Specifications 2: Architecture, page 642 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7102</p>	<p>There is no Type A2 on the Plans. However there is an access panel type on the plans, Type T3 - 3000 x 3500 mm, that is relatively close to this. Please clarify if this is the correct type for this item.</p>	<p>The dated specification of August matches with the drawing of access panel.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
227.	Pay Item 1814 (1) b3 'Access Panel - Type A2 4500 x 3500 mm References: Specifications: Technical Specifications 2: Architecture, page 642 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7102	There is no Type A2 on the Plans. However there is an access panel type on the plans, Type T4 - 4500 x 3500 mm, that is relatively close to this. Please clarify if this is the correct type for this item.	The dated specification of August matches with the drawing of access panel.
228.	Pay Item 1814 (1) b4 'Access Panel - Type A2 5000 x 3500 mm References: Specifications: Technical Specifications 2: Architecture, page 642 Plans: Ortigas North Station Architectural Drawings, Drawing No. STN-AR-A-ON-7102	There is no Type A2 on the Plans. However there is access panel type on the plans, Type T5 - 5000 x 4500 mm, that is relatively close to this. Please clarify if this is the correct type and dimension for this item.	The dated specification of August matches with the drawing of access panel.
229.	Gypsum Board 118mm	As per the details on the Specifications, the C Channel size shall be 0.55 mm thick minimum, 72mm wide minimum and having two flanges of 30 mm minimum each, and the fixing of wall studs shall be 0.55 mm thick, 70 mm wide having one flange of 34 mm another of 36 mm. However on the detail drawings, it is indicated that the C Channel shall be 70 x 50 x 3 mm and the Wall Studs shall be 76 x 40 x 0.8 mm. Which will govern?	Use width 76mm

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
230.	Gypsum Board 140mm	As per the details on the Specifications, the C Channel size shall be 0.55 mm thick minimum, 72mm wide minimum and having two flanges of 30 mm minimum each, and the fixing of wall studs shall be 0.55 mm thick, 70 mm wide having one flange of 34 mm another of 36 mm. However on the detail drawings, it is indicated that the C Channel shall be 70 x 50 x 3 mm and the Wall Studs shall be 76 x 40 x 0.8 mm. Which will govern?	Use width 76mm
231.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1126.1 STN-MEP-ELV-ON-2044; STN-MEP-ELV-OS-2044; Bill of Quantities, Bill 5A and Bill 5B Item 1126	In reference to Technical Specifications and Plans, Telephone and Broadband system is by Telephone Service Provider. However, in reference to Bill of Quantities, Bill 5A and Bill 5B Item 1126, there are pay items for Telephone System. Please clarify if the Telephone System is part of our scope. If yes, please provide plans and specifications.	Telephone system shall be under Telephone service provider scope. However, the provision such as piping, cable tray and other relevant work for telephone system shall be provided by the CP104 Contractor
232.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1127.1 STN-MEP-ELV-ON-2048; STN-MEP-ELV-OS-2048; Bill of Quantities, Bill 5A and Bill 5B Item 1127	In reference to Technical Specifications and Plans, Local Area Network system is by Telephone Service Provider. However, in reference to Bill of Quantities, Bill 5A and Bill 5B Item 1127, there are pay items for Local Area Network System. Please clarify if the Local Area Network System is part of our scope. If yes, please provide plans and specifications.	LAN system shall be under Telephone service provider scope. However, the provision such as piping, cable tray and other relevant work for LAN system shall be provided by the CP104 Contractor

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
233.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1125.1.1</p> <p>STN-MEP-ELV-ON-2047; STN-MEP-ELV-OS-2047;</p> <p>Bill of Quantities, Bill 5A and Bill 5B Item 1125</p>	<p>In reference to Technical Specifications and Plans, Master Antenna system is by Telephone Service Provider. However, in reference to Bill of Quantities, Bill 5A and Bill 5B Item 1125, there are pay items for Master Antenna System. Please clarify if the Master Antenna system is part of our scope. If yes, please provide plans and specifications.</p>	<p>MATV system shall be under the Service Provider scope. However, the provision such as piping, cable tray and other relevant work for MATV system shall be provided by the CP104 Contractor</p>
234.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1106</p> <p>Bill of Quantities, Bill 5A and Bill 5B Item 1106</p>	<p>In reference to Technical Specifications, CCTV is by CP-106, also there are no plans provided. However, in reference to Bill of Quantities, Bill 5A and Bill 5B Item 1106, there are pay items for CCTV System. Please clarify if the CCTV system is part of our scope. If yes, please provide plans and specifications.</p>	<p>Excluded in CP104. BOQ should come from CP106. Please refer to BOQ</p>
235.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1128</p> <p>Bill of Quantities, Bill 5A and Bill 5B Item 1128</p>	<p>In reference to Technical Specifications, Emergency Voice Evacuation (EVAC) is by CP-106, also there are no plans provided. However, in reference to Bill of Quantities, Bill 5A and Bill 5B Item 1128, there are pay items for Emergency Voice Evacuation (EVAC). Please clarify if the Emergency Voice Evacuation (EVAC) system is part of our scope. If yes, please provide plans and specifications.</p>	<p>Excluded in CP104. BOQ should come from CP106. Please refer to BOQ</p>
236.	<p>Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1129</p> <p>Bill of Quantities, Bill 5A and Bill 5B Item 1129</p>	<p>In reference to Technical Specifications, Emergency Call System is by CP-106, also, there are no plans provided. However, in reference to Bill of Quantities, Bill 5A and Bill 5B Item 1129, there are pay items for Emergency Call System. Please clarify if the Emergency Call System is part of our scope. If yes, please provide plans and specifications</p>	<p>Excluded in CP104. BOQ should come from CP106. Please refer to BOQ</p>

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PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE															
237.	STN-MEP-ELL-ON-2007 to STN-MEP-ELL-ON-2010, STN-MEP-ELL-ON-2012 to STN-MEP-ELL-ON-2030, STN-MEP-ELL-ON-2032 to STN-MEP-ELL-ON-2046	Please provide wiring and conduit schedule for Electrical DB.	Contractor to develop shop drawing as per actual site measurement.															
238.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1112.4.2; Bill of Quantities, Bill 5A and Bill 5B, Section 1112; STN-MEP-ELL-OS-2001, STN-MEP-ELL-ON-2001	Please clarify which IP rating of the busduct will prevail. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Tech Specs</th> <th style="text-align: center;">Plans</th> <th style="text-align: center;">BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4000A, 400V, 60Hz, 4W Copper Busduct with 50% Integral ground bus IP54</td> <td style="text-align: center;">4000A, 4P Copper Busduct</td> <td style="text-align: center;">4000A, 380V, 60Hz, 4W Copper Busduct with 50% Integral ground bus IP43</td> </tr> </tbody> </table>	Tech Specs	Plans	BOQ	4000A, 400V, 60Hz, 4W Copper Busduct with 50% Integral ground bus IP54	4000A, 4P Copper Busduct	4000A, 380V, 60Hz, 4W Copper Busduct with 50% Integral ground bus IP43	IP rating mentioned in the Technical Specification shall be referred.									
Tech Specs	Plans	BOQ																
4000A, 400V, 60Hz, 4W Copper Busduct with 50% Integral ground bus IP54	4000A, 4P Copper Busduct	4000A, 380V, 60Hz, 4W Copper Busduct with 50% Integral ground bus IP43																
239.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1113.4.2; Bill of Quantities, Bill 5A and Bill 5B, Section 1113 (4), Section 1113 (5); STN-MEP-ELL-OS-2003, STN-	Please clarify which ATS rating will prevail: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Tech Specs</th> <th style="text-align: center;">Plans</th> <th style="text-align: center;">BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">a</td> <td style="text-align: center;">ATS</td> <td style="text-align: center;">3000AT, 3P</td> <td style="text-align: center;"><i>not mentioned</i></td> <td style="text-align: center;">300AT, 3P</td> </tr> <tr> <td style="text-align: center;">b</td> <td style="text-align: center;">ATS for Fire Pump and Jockey Pump</td> <td style="text-align: center;">1200AT, 3P</td> <td style="text-align: center;">1200AT, 3P</td> <td style="text-align: center;">300AT, 3P</td> </tr> </tbody> </table>	Item	Description	Tech Specs	Plans	BOQ	a	ATS	3000AT, 3P	<i>not mentioned</i>	300AT, 3P	b	ATS for Fire Pump and Jockey Pump	1200AT, 3P	1200AT, 3P	300AT, 3P	For ATS rating please refer LV Schematic Drawings.
Item	Description	Tech Specs	Plans	BOQ														
a	ATS	3000AT, 3P	<i>not mentioned</i>	300AT, 3P														
b	ATS for Fire Pump and Jockey Pump	1200AT, 3P	1200AT, 3P	300AT, 3P														
240.	STN-MEP-ELL-ON-2006	Kindly clarify if we will consider the redundancy of panel (ON-CL-EMCC-01) since there are two sets of schematic diagram for (ON-CL-EMCC-01) panel reflected on DRG. No. STN-MEP-ELL-ON-2006.	There is only one panel ON-CL-EMCC-01.															

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
241.	STN-MEP-ELL-ON-2011; STN-MEP-ELL-ON-2006	As per DRG No. STN-MEP-ELL-ON-2011, "Elevator-3" is reflected on ON-CL-EMCC-01 while in reference to DRG. No. STN-MEP-ELL-ON-2006, Sump Pit Ckt No.3" is connected. Kindly clarify which description of connected load will prevail.	Drawing 2011, Power block diagram is only for panel location and level wise distribution flow. For exact feeder details LV schematic (2006) needs to be referred.
242.	STN-MEP-ELL-OS-2003, STN-MEP-ELL-ON-2003	Please provide Isolator rating for Jockey pump and Firepump.	There is no separated isolator for Jockey and Fire Pump. Under Electrical scope power supply up to ATS. Beyond ATS its under mechanical scope of work along with the controller of Fire pump and Jockey pump.
243.	STN-MEP-ELL-OS-2002 to STN-MEP-ELL-OS-2006, STN-MEP-ELL-ON-2003 to STN-MEP-ELL-ON-2006	Please confirm the discrepancy of items no.2 - LV Schematic notes of Ortigas North and Ortigas South Stations where: Ortigas North: Use ACB of Breaker rating 800A above Ortigas South: Use ACB for Breaker rating 600A above	ACB shall be 800 amp and above
244.	STN-MEP-ELL-OS-2001	Please specify if the circuit breakers rated 800A at panel OS-MZ-EMDB-01 are MCCB or ACB.	ACB shall be 800 amp and above
245.	STN-MEP-ELL-OS-2035; STN-MEP-ELL-OS-2052.	Kindly clarify if we will consider the redundancy of panel (OS-TN-ELPDB-01) since there are two sets of distribution board schedule for (OS-TN-ELPDB-01) panel reflected on DRG. No. STN-MEP-ELL-OS-2035 and STN-MEP-ELL-OS-2052.	Only one OS-TN-ELPDB-01 tunnel DB shall be considered

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE									
246.	STN-MEP-ELL-ON-3231; STN-MEP-ELL-ON-3235; STN-MEP-ELL-T9-0101, STN-MEP-ELL-T9-2001, STN-MEP-ELL-T9-2002	Kindly provide Electrical Layout for Tunnel.	The drawings of Tunnel Lighting is not prepared. Bidder can estimate the cost based on the technical specification and BOQ.									
247.	STN-MEP-ELL-OS-3101 to STN-MEP-ELL-OS-3104; STN-MEP-ELL-ON-3101 to STN-MEP-ELL-ON-3106	Kindly provide the Schedule of loads for the following distribution panel: 1. ON-ST-ELDB-01 & OS-ST-ELDB-01 2. ON-ST-ELDB-02 & OS-ST-ELDB-02 3. ON ST-ELDB-03 & OS-ST-ELDB-03	Refer drawing 2007 TO 2009 FOR ON Refer Drawing 2007 TO 2009 FOR OS									
248.	Bill of Quantities, Bill 5A and Bill 5B, Section 1113 (2a to 2b) STN-MEP-ELL-ON-2001, STN-MEP-ELL-OS-2001	Please clarify which Capacitor Bank rating will prevail: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Tech Specs</th> <th style="text-align: center;">Plans</th> <th style="text-align: center;">BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><i>not mentioned</i></td> <td style="text-align: center;">APFC Panel 01 - 450 KVAR Multi-stage</td> <td style="text-align: center;">APFC Panel 01 ; 500 KVAR</td> </tr> <tr> <td style="text-align: center;"><i>not mentioned</i></td> <td style="text-align: center;"><i>not mentioned</i></td> <td style="text-align: center;">APFC Panel 02 ; 450 KVAR</td> </tr> </tbody> </table>	Tech Specs	Plans	BOQ	<i>not mentioned</i>	APFC Panel 01 - 450 KVAR Multi-stage	APFC Panel 01 ; 500 KVAR	<i>not mentioned</i>	<i>not mentioned</i>	APFC Panel 02 ; 450 KVAR	Both 500 kVAR
Tech Specs	Plans	BOQ										
<i>not mentioned</i>	APFC Panel 01 - 450 KVAR Multi-stage	APFC Panel 01 ; 500 KVAR										
<i>not mentioned</i>	<i>not mentioned</i>	APFC Panel 02 ; 450 KVAR										
249.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1114 Bill of Quantities, Bill 5A and Bill 5B, Section 1114 (1) STN-MEP-ELL-ON-2005, STN-MEP-ELL-OS-2005	Please clarify which UPS rating will prevail: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Tech Specs</th> <th style="text-align: center;">Plans</th> <th style="text-align: center;">BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">200KVA, 3P, 4W, 60Hz</td> <td style="text-align: center;"><i>No rating</i></td> <td rowspan="2" style="text-align: center;">150KVA</td> </tr> <tr> <td style="text-align: center;">160KVA, 3P, 4W, 60Hz</td> <td style="text-align: center;"><i>No rating</i></td> </tr> </tbody> </table>	Tech Specs	Plans	BOQ	200KVA, 3P, 4W, 60Hz	<i>No rating</i>	150KVA	160KVA, 3P, 4W, 60Hz	<i>No rating</i>	Size is 125 kVA.	
Tech Specs	Plans	BOQ										
200KVA, 3P, 4W, 60Hz	<i>No rating</i>	150KVA										
160KVA, 3P, 4W, 60Hz	<i>No rating</i>											

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
250.	STN-MEP-PLD-ON-3311 to STN-MEP-PLD-ON-3316, STN-MEP-PLD-ON-3321 to STN-MEP-PLD-ON-3326, STN-MEP-PLD-ON-4301, STN-MEP-PLD-ON-4302, STN-MEP-PLD-ON-3131 to STN-MEP-PLD-ON-3136, STN-MEP-PLD-ON-4101, STN-MEP-PLD-ON-4102; STN-MEP-PLD-OS-3311 to STN-MEP-PLD-OS-3315, STN-MEP-PLD-OS-3321 to STN-MEP-PLD-OS-3325, STN-MEP-PLD-OS-3331 to STN-MEP-PLD-OS-3334, STN-MEP-PLD-OS-4301	Please provide isometric layout of toilets for Ortigas North and Ortigas South Station.	Contractor to develop Working drawings.
251.	STN-MEP-VAC-ON-3101 to STN-MEP-VAC-ON-3136; STN-MEP-VAC-ON-3201 to STN-MEP-VAC-ON-3226; STN-MEP-VAC-OS-3101 to STN-MEP-VAC-OS-3134; STN-MEP-VAC-OS-3201 to STN-MEP-VAC-OS-3225	Please provide Condensate Drain Piping Layout for Ortigas North and Ortigas South Station.	Condensate drain piping in shown in ductworks for respective stations. For ON, please refer STN-MEP-VAC-ON-3101 TO 3134. For OS, please refer STN-MEP-VAC-ON-3101 TO 3134.
252.	STN-MEP-PLD-ON-3101 to STN-MEP-PLD-ON-3136; STN-MEP-PLD-ON-4101, STN-MEP-PLD-ON-4102; STN-MEP-PLD-OS-3101 to STN-MEP-PLD-OS-3134; STN-MEP-PLD-OS-4101	Please provide pipe conversion schedule for Galvanized Iron to PPR.	There shall not be any PPR pipe only Galvanized Steel pipes shall be used. Necessary addendum of specification shall be shared.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE										
253.	STN-MEP-PLD-CWD-1301 STN-MEP-PLD-OS-5201, STN-MEP-PLD-ON-5201 Bill of Quantities, Bill 5A and Bill 5B, Section 1235(5);	Please verify which Oil Grease Trap Specifications shall prevail. <table border="1" data-bbox="651 459 1328 671"> <thead> <tr> <th rowspan="2">As Per Specs</th> <th colspan="2">As Per Plan</th> <th rowspan="2">AS per BOQ</th> </tr> <tr> <th>Misc Details</th> <th>Equipment Sched</th> </tr> </thead> <tbody> <tr> <td><i>not mentioned</i></td> <td>Flow rate: 4 GPM Dimensions: 14.75 in x 9.0 in Pipe Diameter: 2 in.</td> <td>Flow rate: 360 LPM (95 GPM) Retention Capacity: 50 Width of body: 33 in. Pipe Diameter: 4 in</td> <td>Flow rate: 360 LPM (95 GPM) Retention Capacity: 50</td> </tr> </tbody> </table>	As Per Specs	As Per Plan		AS per BOQ	Misc Details	Equipment Sched	<i>not mentioned</i>	Flow rate: 4 GPM Dimensions: 14.75 in x 9.0 in Pipe Diameter: 2 in.	Flow rate: 360 LPM (95 GPM) Retention Capacity: 50 Width of body: 33 in. Pipe Diameter: 4 in	Flow rate: 360 LPM (95 GPM) Retention Capacity: 50	For OGT at platform area equipment details shall be used Contractor to refer to the equipment schedule.
As Per Specs	As Per Plan			AS per BOQ									
	Misc Details	Equipment Sched											
<i>not mentioned</i>	Flow rate: 4 GPM Dimensions: 14.75 in x 9.0 in Pipe Diameter: 2 in.	Flow rate: 360 LPM (95 GPM) Retention Capacity: 50 Width of body: 33 in. Pipe Diameter: 4 in	Flow rate: 360 LPM (95 GPM) Retention Capacity: 50										
254.	STN-MEP-PLD-CWD-1301 STN-MEP-PLD-OS-5201, STN-MEP-PLD-ON-5201 Bill of Quantities, Bill 5A and Bill 5B, Section 1235(5);	Please indicate type of material to be used for Oil Grease Trap. <table border="1" data-bbox="651 711 1328 924"> <thead> <tr> <th rowspan="2">As Per Specs</th> <th colspan="2">As Per Plan</th> <th rowspan="2">AS per BOQ</th> </tr> <tr> <th>Misc Details</th> <th>Equipment Sched</th> </tr> </thead> <tbody> <tr> <td><i>not mentioned</i></td> <td>Flow rate: 4 GPM Dimensions: 14.75 in x 9.0 in Pipe Diameter: 2 in.</td> <td>Flow rate: 360 LPM (95 GPM) Retention Capacity: 50 Width of body: 33 in. Pipe Diameter: 4 in</td> <td>Flow rate: 360 LPM (95 GPM) Retention Capacity: 50</td> </tr> </tbody> </table>	As Per Specs	As Per Plan		AS per BOQ	Misc Details	Equipment Sched	<i>not mentioned</i>	Flow rate: 4 GPM Dimensions: 14.75 in x 9.0 in Pipe Diameter: 2 in.	Flow rate: 360 LPM (95 GPM) Retention Capacity: 50 Width of body: 33 in. Pipe Diameter: 4 in	Flow rate: 360 LPM (95 GPM) Retention Capacity: 50	Concrete shall be used
As Per Specs	As Per Plan			AS per BOQ									
	Misc Details	Equipment Sched											
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255.	Technical Specifications 3: Mechanical, Electrical and Plumbing / Section 1238.2.1; STN-MEP-PLD-OS-5301, STN-MEP-PLD-ON-5301 Bill of Quantities, Bill 5A and Bill 5B, Section 1238(4);	Please verify which material is to be used for Sewage Ejector Tank. <table border="1" data-bbox="651 999 1328 1153"> <thead> <tr> <th>Item</th> <th>As Per Specs</th> <th>As Per Plan</th> <th>As Per BOQ</th> </tr> </thead> <tbody> <tr> <td>Sewage Ejector Tank</td> <td>Stainless Steel</td> <td>Stainless Steel</td> <td>Fiber Reinforced Plastic (FRP)</td> </tr> </tbody> </table>	Item	As Per Specs	As Per Plan	As Per BOQ	Sewage Ejector Tank	Stainless Steel	Stainless Steel	Fiber Reinforced Plastic (FRP)	Stainless Steel shall be used only for Sewage Ejector Tank		
Item	As Per Specs	As Per Plan	As Per BOQ										
Sewage Ejector Tank	Stainless Steel	Stainless Steel	Fiber Reinforced Plastic (FRP)										

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE									
256.	SPL-WS-ON-6013 Bill of Quantities, Bill 5A and Bill 5B, Item 1237	<p>Please verify which material is to be used for works to existing main water line including pipes, connections and all other necessary works.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">As Per Specs</th> <th style="text-align: center;">As Per Plan</th> <th style="text-align: center;">As Per BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Works to existing main water lines</td> <td style="text-align: center;">Not Stated</td> <td style="text-align: center;">Polyvinyl Chloride (PVC)</td> <td style="text-align: center;">Polypropelene Random Copolymer (PPRc)</td> </tr> </tbody> </table>	Item	As Per Specs	As Per Plan	As Per BOQ	Works to existing main water lines	Not Stated	Polyvinyl Chloride (PVC)	Polypropelene Random Copolymer (PPRc)	There shall not be any PPR pipe only Galvanized Steel pipes shall be used.	
Item	As Per Specs	As Per Plan	As Per BOQ									
Works to existing main water lines	Not Stated	Polyvinyl Chloride (PVC)	Polypropelene Random Copolymer (PPRc)									
257.	STN-MEP-PLD-ON-5201; STN-MEP-PLD-OS-5201 Bill of Quantities, Bill 5A and Bill 5B, Item 1201 (2)	<p>Please specify the Running Load and Connecting Load to be used for Wastewater Sump Pump at North Station and South Station since there are conflict (see tabulation below):</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">As per Equipment Schedule</th> <th style="text-align: center;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Running Load</td> <td style="text-align: center;">5.73 kW</td> <td style="text-align: center;">7.5 kW</td> </tr> <tr> <td style="text-align: center;">Connecting Load</td> <td style="text-align: center;">17.2 kW</td> <td style="text-align: center;">22.5 kW</td> </tr> </tbody> </table>		As per Equipment Schedule	As per BOQ	Running Load	5.73 kW	7.5 kW	Connecting Load	17.2 kW	22.5 kW	As per BOQ running load of 7.5kw shall be used
	As per Equipment Schedule	As per BOQ										
Running Load	5.73 kW	7.5 kW										
Connecting Load	17.2 kW	22.5 kW										
258.	STN-MEP-PLD-ON-5301; STN-MEP-PLD-OS-5301 Bill of Quantities, Bill 5A and Bill 5B, Item 1201 (3)	Please verify the quantity of Pump to be used for Sewage Ejector Pit 1 and 2 at North and South Station. Based on Equipment Schedule it is 1-working and 1-standby while on the BOQ it is 2 - working and 1 stand by. Which Quantity will prevail?	1 working & 1 standby pump shall be used for Sewage ejector tank									
259.	STN-MEP-PLD-OS-5301 Bill of Quantities, Bill 5B, Item 1201 (3)	Please verify the TDH to be used for the Sewage Ejector Pit (OS-MZ-SP-03&04). Based on equipment schedule it is 35meters while on BOQ it is 30meters	35m shall be used									

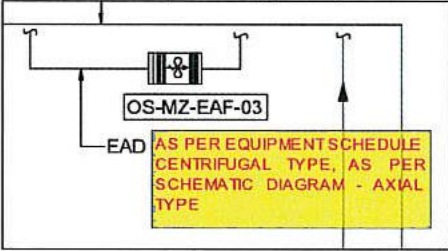
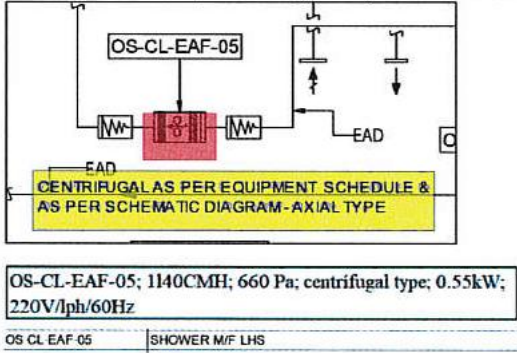
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																											
260.	Bill of Quantities, Bill 5B, Item 1216 (3), Item 1216 (2) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	<p>Please Verify Which Fan Capacity Shall Prevail.</p> <table border="1"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ (CMH)</th> <th style="text-align: center;">Capacity as per Equipment Schedule (CMH)</th> </tr> </thead> <tbody> <tr> <td>OS-CL-EAF-1A/1B</td> <td style="text-align: center;">1,480</td> <td style="text-align: center;">1,590</td> </tr> <tr> <td>OS-CL-EAF-02</td> <td style="text-align: center;">6,560</td> <td style="text-align: center;">6,680</td> </tr> <tr> <td>OS-CL-EAF-03</td> <td style="text-align: center;">4,020</td> <td style="text-align: center;">3,980</td> </tr> <tr> <td>OS-CL-EAF-04</td> <td style="text-align: center;">800</td> <td style="text-align: center;">900</td> </tr> <tr> <td>OS-CL-EAF-05</td> <td style="text-align: center;">1,140</td> <td style="text-align: center;">1,070</td> </tr> <tr> <td>OS-CL-EAF-07</td> <td style="text-align: center;">3,640</td> <td style="text-align: center;">4,270</td> </tr> <tr> <td>OS-CL-EAF-08</td> <td style="text-align: center;">3,015</td> <td style="text-align: center;">3,380</td> </tr> <tr> <td>OS-CL-EAF-09</td> <td style="text-align: center;">1,900</td> <td style="text-align: center;">1,750</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ (CMH)	Capacity as per Equipment Schedule (CMH)	OS-CL-EAF-1A/1B	1,480	1,590	OS-CL-EAF-02	6,560	6,680	OS-CL-EAF-03	4,020	3,980	OS-CL-EAF-04	800	900	OS-CL-EAF-05	1,140	1,070	OS-CL-EAF-07	3,640	4,270	OS-CL-EAF-08	3,015	3,380	OS-CL-EAF-09	1,900	1,750	Capacity mentioned in equipment schedule are correct.
Equipment Tag	Capacity as per BOQ (CMH)	Capacity as per Equipment Schedule (CMH)																												
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																
262.	Bill of Quantities, Bill 5B, Item 1216 (3) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	<p>Please Verify Which Fan Capacity Shall Prevail.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ (CMH)</th> <th style="text-align: center;">Capacity as per Equipment Schedule (CMH)</th> </tr> </thead> <tbody> <tr> <td>OS-MZ-EAF-1A/1B</td> <td style="text-align: center;">14,125</td> <td style="text-align: center;">14,335</td> </tr> <tr> <td>OS-MZ-EAF-02</td> <td style="text-align: center;">17,940</td> <td style="text-align: center;">17,930</td> </tr> <tr> <td>OS-MZ-FAF-02</td> <td style="text-align: center;">17,940</td> <td style="text-align: center;">17,930</td> </tr> <tr> <td>OS-MZ-FAF-3A/3B</td> <td style="text-align: center;">1,200</td> <td style="text-align: center;">1,190</td> </tr> <tr> <td>OS-MZ-SEF-1A/1B</td> <td style="text-align: center;">1,200</td> <td style="text-align: center;">6,750</td> </tr> <tr> <td>OS-MZ-EAF-03</td> <td style="text-align: center;">1,270</td> <td style="text-align: center;">1,840</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ (CMH)	Capacity as per Equipment Schedule (CMH)	OS-MZ-EAF-1A/1B	14,125	14,335	OS-MZ-EAF-02	17,940	17,930	OS-MZ-FAF-02	17,940	17,930	OS-MZ-FAF-3A/3B	1,200	1,190	OS-MZ-SEF-1A/1B	1,200	6,750	OS-MZ-EAF-03	1,270	1,840	Capacity mentioned in equipment schedule are correct.											
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263.	Bill of Quantities, Bill 5B, Item 1216 (3), Item 1216 (1), Item 1216 (2) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	<p>Please Verify Which Fan Capacity Shall Prevail.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ (CMH)</th> <th style="text-align: center;">Capacity as per Equipment Schedule (CMH)</th> <th style="text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td>OS-CL-RAF-01</td> <td style="text-align: center;">33,825</td> <td style="text-align: center;">29,942</td> <td></td> </tr> <tr> <td>OS-CL-RAF-02</td> <td style="text-align: center;">33,825</td> <td style="text-align: center;">29,942</td> <td></td> </tr> <tr> <td>OS-CL-FAF-4A/4B</td> <td style="text-align: center;">8,720</td> <td style="text-align: center;">18,720</td> <td></td> </tr> <tr> <td>OS-CL-FAF-SA/SB</td> <td style="text-align: center;">18,720</td> <td style="text-align: center;">18,720</td> <td>Verify Tagging</td> </tr> <tr> <td>OS-ST-FAF-1A/1B</td> <td style="text-align: center;">18,720</td> <td style="text-align: center;">18,720</td> <td>Verify Tagging</td> </tr> <tr> <td>OS-MZ-EAF-4A/4B</td> <td style="text-align: center;">18,720</td> <td style="text-align: center;">6,000</td> <td></td> </tr> <tr> <td>OS-MZ-FAF-3</td> <td style="text-align: center;">1,270</td> <td style="text-align: center;">1,840</td> <td></td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ (CMH)	Capacity as per Equipment Schedule (CMH)	Remarks	OS-CL-RAF-01	33,825	29,942		OS-CL-RAF-02	33,825	29,942		OS-CL-FAF-4A/4B	8,720	18,720		OS-CL-FAF-SA/SB	18,720	18,720	Verify Tagging	OS-ST-FAF-1A/1B	18,720	18,720	Verify Tagging	OS-MZ-EAF-4A/4B	18,720	6,000		OS-MZ-FAF-3	1,270	1,840		Capacity mentioned in equipment schedule are correct.
Equipment Tag	Capacity as per BOQ (CMH)	Capacity as per Equipment Schedule (CMH)	Remarks																																
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE								
264.	Bill of Quantities, Bill 5B, Item 1216 (2) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify the FanType of OS-MZ-EAF-03 as per BOQ and Equipment Schedule - Centrifugal Fan Type as per Schematic Diagram - Axial Type only. 	Schematic Diagram is correct. Mentioned fan is axial flow only.								
265.	Bill of Quantities, Bill 5B, Item 1216 (3) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify the FanType of OS-CL-EAF-05 as per BOQ and Equipment Schedule - Centrifugal Fan Type as per Schematic Diagram - Axial Type only.  <table border="1" data-bbox="658 1059 1173 1145"> <tr> <td colspan="3">OS-CL-EAF-05; 1140CMH; 660 Pa; centrifugal type; 0.55kW; 220V/ph/60Hz</td> </tr> <tr> <td>OS CL EAF 05</td> <td>SHOWER M/F LHS</td> <td>Centrif</td> </tr> </table>	OS-CL-EAF-05; 1140CMH; 660 Pa; centrifugal type; 0.55kW; 220V/ph/60Hz			OS CL EAF 05	SHOWER M/F LHS	Centrif	Schematic Diagram is correct. Mentioned fan is axial flow only.		
OS-CL-EAF-05; 1140CMH; 660 Pa; centrifugal type; 0.55kW; 220V/ph/60Hz											
OS CL EAF 05	SHOWER M/F LHS	Centrif									
266.	Bill of Quantities, Bill 5B, Item 1217 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Water Cooled Chiller Shall Prevail. <table border="1" data-bbox="651 1225 1301 1337"> <thead> <tr> <th>Equipment Tag</th> <th>Capacity as per BOQ</th> <th>Capacity as per Equipment Schedule</th> </tr> </thead> <tbody> <tr> <td rowspan="2">OS-MZ-WCC-01/02</td> <td>1045 kW cooling cap</td> <td>930 Kw Cooling Cap</td> </tr> <tr> <td>3037 L/Min Flow rate</td> <td>2703 L/Min Flow rate</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule	OS-MZ-WCC-01/02	1045 kW cooling cap	930 Kw Cooling Cap	3037 L/Min Flow rate	2703 L/Min Flow rate	Capacity mentioned in equipment schedule are correct.
Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule									
OS-MZ-WCC-01/02	1045 kW cooling cap	930 Kw Cooling Cap									
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267.	Bill of Quantities, Bill 5B, Item 1219 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Cooling Tower Shall Prevail. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ</th> <th style="text-align: center;">Capacity as per Equipment Schedule</th> <th style="text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-ST-CT-01/02</td> <td style="text-align: center;">1306 kW- Heat rejection 3746 lpm-Flow rate</td> <td style="text-align: center;">1163 kW- Heat rejection 3334 lpm- Flow rate</td> <td style="text-align: center;">OS-GL-CT-01/02- Tagging as per Equipment Sched.</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule	Remarks	OS-ST-CT-01/02	1306 kW- Heat rejection 3746 lpm-Flow rate	1163 kW- Heat rejection 3334 lpm- Flow rate	OS-GL-CT-01/02- Tagging as per Equipment Sched.	Capacity mentioned in equipment schedule are correct.							
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OS-ST-CT-01/02	1306 kW- Heat rejection 3746 lpm-Flow rate	1163 kW- Heat rejection 3334 lpm- Flow rate	OS-GL-CT-01/02- Tagging as per Equipment Sched.															
268.	Bill of Quantities, Bill 5B, Item 1217 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Air Cooled Chiller Shall Prevail. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ</th> <th style="text-align: center;">Capacity as per Equipment Schedule</th> <th style="text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-ST-ACC-01&02</td> <td style="text-align: center;">80 kw Cooling Cap. 232.50L/min flow rate</td> <td style="text-align: center;">92 kw Cooling Cap. 267.38L/min flow rate</td> <td style="text-align: center;">OS-GL-ACC-01&02- Tagging as per Equipment Sched.</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule	Remarks	OS-ST-ACC-01&02	80 kw Cooling Cap. 232.50L/min flow rate	92 kw Cooling Cap. 267.38L/min flow rate	OS-GL-ACC-01&02- Tagging as per Equipment Sched.	Capacity mentioned in equipment schedule are correct.							
Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule	Remarks															
OS-ST-ACC-01&02	80 kw Cooling Cap. 232.50L/min flow rate	92 kw Cooling Cap. 267.38L/min flow rate	OS-GL-ACC-01&02- Tagging as per Equipment Sched.															
269.	Bill of Quantities, Bill 5B, Item 1217 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Pumps Shall Prevail. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ</th> <th style="text-align: center;">Capacity as per Equipment Schedule</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-MZ-CHWP-01-03</td> <td style="text-align: center;">3037.07L/min</td> <td style="text-align: center;">2702.84L/min</td> </tr> <tr> <td style="text-align: center;">OS-MZ-CDWP-01/02/03</td> <td style="text-align: center;">3745.72L/min</td> <td style="text-align: center;">3333.51L/min</td> </tr> <tr> <td style="text-align: center;">OS-CL-CHWP-001-002</td> <td style="text-align: center;">232.503L/min</td> <td style="text-align: center;">267.378L/min</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule	OS-MZ-CHWP-01-03	3037.07L/min	2702.84L/min	OS-MZ-CDWP-01/02/03	3745.72L/min	3333.51L/min	OS-CL-CHWP-001-002	232.503L/min	267.378L/min	Capacity mentioned in equipment schedule are correct.			
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OS-MZ-CHWP-01-03	3037.07L/min	2702.84L/min																
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270.	Bill of Quantities, Bill 5B, Item 1213 (2) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Chilled Water Air Handling Units (AHU) Shall Prevail. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Capacity as per BOQ</th> <th style="text-align: center;">Capacity as per Equipment Schedule</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-MZ-AHU-01</td> <td style="text-align: center;">403.6 kW-Cooling Cap.</td> <td style="text-align: center;">310.0-Cooling Cap.</td> </tr> <tr> <td style="text-align: center;">OS-MZ-AHU-02</td> <td style="text-align: center;">403.6 kW-Cooling Cap.</td> <td style="text-align: center;">310.0-Cooling Cap.</td> </tr> <tr> <td style="text-align: center;">OS-CL-AHU-01</td> <td style="text-align: center;">396.8 Kw-Cooling Cap.</td> <td style="text-align: center;">396.0-Cooling Cap.</td> </tr> <tr> <td style="text-align: center;">OS-CL-AHU-02</td> <td style="text-align: center;">396.8 Kw-Cooling Cap.</td> <td style="text-align: center;">368.9-Cooling Cap.</td> </tr> </tbody> </table>	Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule	OS-MZ-AHU-01	403.6 kW-Cooling Cap.	310.0-Cooling Cap.	OS-MZ-AHU-02	403.6 kW-Cooling Cap.	310.0-Cooling Cap.	OS-CL-AHU-01	396.8 Kw-Cooling Cap.	396.0-Cooling Cap.	OS-CL-AHU-02	396.8 Kw-Cooling Cap.	368.9-Cooling Cap.	Capacity mentioned in equipment schedule are correct.
Equipment Tag	Capacity as per BOQ	Capacity as per Equipment Schedule																
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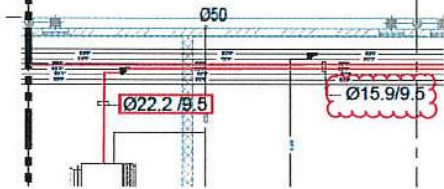
Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																														
271.	Bill of Quantities, Bill 5B, Item 1213 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Chilled Water Fan Coil Units Shall Prevail.	Capacity mentioned in equipment schedule are correct. FCU -08 & 09 are 1nos only.																																														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Equipment Tag</th> <th style="width: 15%;">As per BOQ</th> <th style="width: 15%;">As per Equipment Schedule</th> <th rowspan="2" style="width: 10%; background-color: yellow;">Remarks</th> </tr> <tr> <th>Cooling Capacity</th> <th>Cooling Capacity</th> </tr> </thead> <tbody> <tr><td>OS-CL-FCU-01</td><td>1.2 Kw</td><td>1.5 Kw</td><td></td></tr> <tr><td>OS-CL-FCU-02</td><td>1.3 Kw</td><td>1.8Kw</td><td></td></tr> <tr><td>OS-CL-FCU-03</td><td>1.0 Kw</td><td>2.7Kw</td><td></td></tr> <tr><td>OS-CL-FCU-04</td><td>1.3 Kw</td><td>0.7Kw</td><td></td></tr> <tr><td>OS-CL-FCU-05</td><td>3.3 Kw</td><td>0.9Kw</td><td></td></tr> <tr><td>OS-CL-FCU-06</td><td>1.9 Kw</td><td>5.2Kw</td><td></td></tr> <tr><td>OS-CL-FCU-07</td><td>1.3 Kw</td><td>4.5Kw</td><td></td></tr> <tr><td>OS-CL-FCU-08A & 08B</td><td>5.6 Kw</td><td>1.2Kw</td><td>1 Unit reflected as per plan</td></tr> <tr><td>OS-CL-FCU-9A & 9B</td><td>5.0 Kw</td><td>1.6Kw</td><td>1 Unit reflected as per plan</td></tr> <tr><td>OS-CL-FCU-10</td><td>1.6 Kw</td><td>2.8Kw</td><td></td></tr> </tbody> </table>	Equipment Tag	As per BOQ	As per Equipment Schedule	Remarks	Cooling Capacity	Cooling Capacity	OS-CL-FCU-01	1.2 Kw	1.5 Kw		OS-CL-FCU-02	1.3 Kw	1.8Kw		OS-CL-FCU-03	1.0 Kw	2.7Kw		OS-CL-FCU-04	1.3 Kw	0.7Kw		OS-CL-FCU-05	3.3 Kw	0.9Kw		OS-CL-FCU-06	1.9 Kw	5.2Kw		OS-CL-FCU-07	1.3 Kw	4.5Kw		OS-CL-FCU-08A & 08B	5.6 Kw	1.2Kw	1 Unit reflected as per plan	OS-CL-FCU-9A & 9B	5.0 Kw	1.6Kw	1 Unit reflected as per plan	OS-CL-FCU-10	1.6 Kw	2.8Kw		
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272.	Bill of Quantities, Bill 5B, Item 1213 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	<p>Please Verify Which Capacity for Chilled Water Fan Coil Units Shall Prevail</p> <table border="1"> <thead> <tr> <th rowspan="2" style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">As per BOQ</th> <th style="text-align: center;">As per Equipment Schedule</th> <th rowspan="2" style="text-align: center;">Remarks</th> </tr> <tr> <th style="text-align: center;">Cooling Capacity</th> <th style="text-align: center;">Cooling Capacity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-CL-FCU-11</td> <td style="text-align: center;">2.1 Kw</td> <td style="text-align: center;">8.7 Kw</td> <td style="text-align: center;">OS-CL-FCU-11A/11B 2 Units Reflected as per plan</td> </tr> <tr> <td style="text-align: center;">OS-CL-FCU-12A,12B & 12C</td> <td style="text-align: center;">3.7 Kw</td> <td style="text-align: center;">2.1 Kw</td> <td style="text-align: center;">1 Unit reflected as per plan</td> </tr> <tr> <td style="text-align: center;">OS-CL-FCU-13A,13B & 13C</td> <td style="text-align: center;">10.6 Kw</td> <td style="text-align: center;">1.6 Kw</td> <td style="text-align: center;">1 Unit reflected as per plan</td> </tr> <tr> <td style="text-align: center;">OS-CL-FCU-14A & 14B</td> <td style="text-align: center;">2.9 Kw</td> <td style="text-align: center;">1 Kw</td> <td style="text-align: center;">1 Unit reflected as per plan</td> </tr> <tr> <td style="text-align: center;">OS-CL-FCU-15</td> <td style="text-align: center;">2.3 Kw</td> <td style="text-align: center;">1.5 Kw</td> <td></td> </tr> <tr> <td style="text-align: center;">OS-CL-FCU-16</td> <td style="text-align: center;">1.3 Kw</td> <td style="text-align: center;">1.1 Kw</td> <td></td> </tr> </tbody> </table>	Equipment Tag	As per BOQ	As per Equipment Schedule	Remarks	Cooling Capacity	Cooling Capacity	OS-CL-FCU-11	2.1 Kw	8.7 Kw	OS-CL-FCU-11A/11B 2 Units Reflected as per plan	OS-CL-FCU-12A,12B & 12C	3.7 Kw	2.1 Kw	1 Unit reflected as per plan	OS-CL-FCU-13A,13B & 13C	10.6 Kw	1.6 Kw	1 Unit reflected as per plan	OS-CL-FCU-14A & 14B	2.9 Kw	1 Kw	1 Unit reflected as per plan	OS-CL-FCU-15	2.3 Kw	1.5 Kw		OS-CL-FCU-16	1.3 Kw	1.1 Kw		Capacity mentioned in equipment schedule are correct. FCU -11a & 11b are correct. FCU -12, 13 &14 , 1 of each is correct.
Equipment Tag	As per BOQ	As per Equipment Schedule		Remarks																													
	Cooling Capacity	Cooling Capacity																															
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OS-CL-FCU-16	1.3 Kw	1.1 Kw																															
273.	Bill of Quantities, Bill 5B, Item 1213 (2) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	<p>Please Verify Which Capacity for VRF- Indoor Units (IU) Shall Prevail.</p> <table border="1"> <thead> <tr> <th rowspan="2" style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">As per BOQ</th> <th style="text-align: center;">As per Equipment Schedule</th> <th rowspan="2" style="text-align: center;">Remarks</th> </tr> <tr> <th style="text-align: center;">Cooling Capacity</th> <th style="text-align: center;">Cooling Capacity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-MZ-IU-4A/4B/4C</td> <td style="text-align: center;">7.1 Kw</td> <td style="text-align: center;">28 Kw</td> <td style="text-align: center;">2 Units reflected as per plan</td> </tr> <tr> <td style="text-align: center;">OS-MZ-IU-8A/8B/8C</td> <td style="text-align: center;">14 Kw</td> <td style="text-align: center;">28 Kw</td> <td></td> </tr> </tbody> </table>	Equipment Tag	As per BOQ	As per Equipment Schedule	Remarks	Cooling Capacity	Cooling Capacity	OS-MZ-IU-4A/4B/4C	7.1 Kw	28 Kw	2 Units reflected as per plan	OS-MZ-IU-8A/8B/8C	14 Kw	28 Kw		Capacity mentioned in equipment schedule are correct. OS-MZ-IU-8A-4A &4B is correct.																
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274.	Bill of Quantities, Bill 5B, Item 1213 (1) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	<p>Please Verify Which Capacity for VRF- Outdoor Units (OU) Shall Prevail.</p> <table border="1"> <thead> <tr> <th rowspan="2" style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">As per BOQ</th> <th style="text-align: center;">As per Equipment Schedule</th> <th rowspan="2" style="text-align: center;">Remarks</th> </tr> <tr> <th style="text-align: center;">Cooling Capacity</th> <th style="text-align: center;">Cooling Capacity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">OS-ST-OU-01</td> <td style="text-align: center;">127 Kw</td> <td style="text-align: center;">122 Kw</td> <td style="text-align: center;">Tagging as per plan OS-GL-OU-01</td> </tr> <tr> <td style="text-align: center;">OS-ST-OU-02</td> <td style="text-align: center;">127 Kw</td> <td style="text-align: center;">122 Kw</td> <td style="text-align: center;">Tagging as per plan OS-GL-OU-02</td> </tr> <tr> <td style="text-align: center;">OS-ST-OU-03</td> <td style="text-align: center;">43 Kw</td> <td style="text-align: center;">28 Kw</td> <td style="text-align: center;">Tagging as per plan OS-GL-OU-03</td> </tr> <tr> <td style="text-align: center;">OS-ST-OU-04</td> <td style="text-align: center;">43 Kw</td> <td style="text-align: center;">-</td> <td style="text-align: center;">Not Reflected on Equipment Schedule & Plan</td> </tr> </tbody> </table>	Equipment Tag	As per BOQ	As per Equipment Schedule	Remarks	Cooling Capacity	Cooling Capacity	OS-ST-OU-01	127 Kw	122 Kw	Tagging as per plan OS-GL-OU-01	OS-ST-OU-02	127 Kw	122 Kw	Tagging as per plan OS-GL-OU-02	OS-ST-OU-03	43 Kw	28 Kw	Tagging as per plan OS-GL-OU-03	OS-ST-OU-04	43 Kw	-	Not Reflected on Equipment Schedule & Plan	Capacity mentioned in equipment schedule are correct. OS-GL-OU-01/02/03 is correct. OS-ST-OU-04 not required.								
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OS-ST-OU-04	43 Kw	-	Not Reflected on Equipment Schedule & Plan																														

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275.	Bill of Quantities, Bill 5B, Item 1210 (3), Item 1210 (4) STN-MEP-VAC-OS-5101 to STN-MEP-VAC-OS-5108	Please Verify Which Capacity for Air Separator Shall Prevail. <table border="1" data-bbox="663 443 1312 616"> <thead> <tr> <th>Equipment Tag</th> <th>As per BOQ Capacity</th> <th>As per Equipment Schedule Capacity</th> </tr> </thead> <tbody> <tr> <td>OS-MZ-AS-01</td> <td>3037 lpm</td> <td>2703 lpm</td> </tr> <tr> <td>OS-CL-AS-01</td> <td>2331 lpm</td> <td>267 lpm</td> </tr> </tbody> </table>	Equipment Tag	As per BOQ Capacity	As per Equipment Schedule Capacity	OS-MZ-AS-01	3037 lpm	2703 lpm	OS-CL-AS-01	2331 lpm	267 lpm	Capacity mentioned in equipment schedule are correct.			
Equipment Tag	As per BOQ Capacity	As per Equipment Schedule Capacity													
OS-MZ-AS-01	3037 lpm	2703 lpm													
OS-CL-AS-01	2331 lpm	267 lpm													
276.	STN-MEP-VAC-ON-3124	Please verify the size of refrigerant piping for ACCU ON-GL-OU-05 and ON-GL-OU-06 ref pipe if it is 15.9/9.5 on the attached plan provided at mezzanine level plan part 4 of 6 dwg no. STN-MEP-VAC-ON-3124. 	Pipe sizing shown is correct.												
277.	Bill of Quantities, Bill 5A, Item 1218 (1) STN-MEP-VAC-ON-5101 to STN-MEP-VAC-ON-5108	Please verify which will prevail for Condenser Pump <table border="1" data-bbox="651 986 1305 1142"> <thead> <tr> <th colspan="2">BOQ</th> <th colspan="2">SCHEDULE OF EQUIPMENT</th> </tr> <tr> <th>Equipment Tag</th> <th>Specification</th> <th>Equipment Tag</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>ON-MZ-CDWP-01/02/03</td> <td>4,285.96 L/min @ 175kPa</td> <td>ON-MZ-CDWP-01/02/03</td> <td>3871.17lpm @175kPa</td> </tr> </tbody> </table>	BOQ		SCHEDULE OF EQUIPMENT		Equipment Tag	Specification	Equipment Tag	Specification	ON-MZ-CDWP-01/02/03	4,285.96 L/min @ 175kPa	ON-MZ-CDWP-01/02/03	3871.17lpm @175kPa	Capacity mentioned in equipment schedule are correct.
BOQ		SCHEDULE OF EQUIPMENT													
Equipment Tag	Specification	Equipment Tag	Specification												
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278.	Bill of Quantities, Bill 5A, Item 1219 (1) STN-MEP-VAC-ON-5101 to STN-MEP-VAC-ON-5108	Please verify which will prevail for Cooling Tower <table border="1" data-bbox="651 1206 1281 1398"> <thead> <tr> <th colspan="2">BOQ</th> <th colspan="2">SCHEDULE OF EQUIPMENT</th> </tr> <tr> <th>Equipment Tag</th> <th>Specification</th> <th>Equipment Tag</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>ON-ST-CT-01/02</td> <td>4287.0 lpm; 1,495kW heat rejection; 19kW motor rating;</td> <td>ON-GL-CT-01/02</td> <td>3871.2lpm; 1350kW heat rejection; 19kW motor rating;</td> </tr> </tbody> </table>	BOQ		SCHEDULE OF EQUIPMENT		Equipment Tag	Specification	Equipment Tag	Specification	ON-ST-CT-01/02	4287.0 lpm; 1,495kW heat rejection; 19kW motor rating;	ON-GL-CT-01/02	3871.2lpm; 1350kW heat rejection; 19kW motor rating;	Capacity mentioned in equipment schedule are correct.
BOQ		SCHEDULE OF EQUIPMENT													
Equipment Tag	Specification	Equipment Tag	Specification												
ON-ST-CT-01/02	4287.0 lpm; 1,495kW heat rejection; 19kW motor rating;	ON-GL-CT-01/02	3871.2lpm; 1350kW heat rejection; 19kW motor rating;												

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279.	Bill of Quantities, Bill 5A, Item 1210 (4) STN-MEP-VAC-ON-5101 to STN-MEP-VAC-ON-5108	Please verify which will prevail for air separator <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">BOQ</th> <th colspan="2" style="text-align: center;">SCHEDULE OF EQUIPMENT</th> </tr> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Specification</th> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Specification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ON-CL-AS-01</td> <td style="text-align: center;">270lpm capacity</td> <td style="text-align: center;">ON-CL-AS-01</td> <td style="text-align: center;">247lpm capacity</td> </tr> </tbody> </table>	BOQ		SCHEDULE OF EQUIPMENT		Equipment Tag	Specification	Equipment Tag	Specification	ON-CL-AS-01	270lpm capacity	ON-CL-AS-01	247lpm capacity	Capacity mentioned in equipment schedule are correct.																
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280.	Bill of Quantities, Bill 5A, Item 1217 (1) STN-MEP-VAC-ON-5101 to STN-MEP-VAC-ON-5108	Please verify which will prevail for chilled water pump <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">BOQ</th> <th colspan="2" style="text-align: center;">SCHEDULE OF EQUIPMENT</th> </tr> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Specification</th> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Specification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ON-MZ-CHWP-01-03</td> <td style="text-align: center;">3,475.92 L/min @ 350 kPa</td> <td style="text-align: center;">ON-MZ-CHWP-01-03</td> <td style="text-align: center;">3,138.79 L/min @ 350 kPa</td> </tr> <tr> <td style="text-align: center;">ON-CL-CHWP-001-002</td> <td style="text-align: center;">270.284 L/min @ 275 kPa</td> <td style="text-align: center;">ON-CL-CHWP-001-002</td> <td style="text-align: center;">247 L/min @ 275 kPa</td> </tr> </tbody> </table>	BOQ		SCHEDULE OF EQUIPMENT		Equipment Tag	Specification	Equipment Tag	Specification	ON-MZ-CHWP-01-03	3,475.92 L/min @ 350 kPa	ON-MZ-CHWP-01-03	3,138.79 L/min @ 350 kPa	ON-CL-CHWP-001-002	270.284 L/min @ 275 kPa	ON-CL-CHWP-001-002	247 L/min @ 275 kPa	Capacity mentioned in equipment schedule are correct.												
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281.	Bill of Quantities, Bill 5A, Item 1213 (2) STN-MEP-VAC-ON-5101 to STN-MEP-VAC-ON-5108	Please verify which will prevail for VRF-FCU <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">BOQ</th> <th colspan="2" style="text-align: center;">SCHEDULE OF EQUIPMENT</th> </tr> <tr> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Specification</th> <th style="text-align: center;">Equipment Tag</th> <th style="text-align: center;">Specification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ON-MZ-IU-4A/4B/4C</td> <td style="text-align: center;">11.2 kW</td> <td style="text-align: center;">ON-MZ-IU-4A/4B/4C</td> <td style="text-align: center;">28 kW</td> </tr> <tr> <td style="text-align: center;">ON-MZ-IU-7A/7B</td> <td style="text-align: center;">2.8 kW</td> <td style="text-align: center;">ON-MZ-IU-7A/7B</td> <td style="text-align: center;">3.6 kW</td> </tr> <tr> <td style="text-align: center;">ON-MZ-IU-8A/8B/8C</td> <td style="text-align: center;">37 kW</td> <td style="text-align: center;">ON-MZ-IU-8A/8B/8C</td> <td style="text-align: center;">28 kW</td> </tr> <tr> <td style="text-align: center;">ON-MZ-IU-10A-10G</td> <td style="text-align: center;">95 kW</td> <td style="text-align: center;">ON-MZ-IU-10A-10G</td> <td style="text-align: center;">87 kW</td> </tr> <tr> <td style="text-align: center;">ON-MZ-AHJDX-01</td> <td style="text-align: center;">38.8 kW</td> <td style="text-align: center;">ON-MZ-AHJDX-01</td> <td style="text-align: center;">76.9 kW</td> </tr> </tbody> </table>	BOQ		SCHEDULE OF EQUIPMENT		Equipment Tag	Specification	Equipment Tag	Specification	ON-MZ-IU-4A/4B/4C	11.2 kW	ON-MZ-IU-4A/4B/4C	28 kW	ON-MZ-IU-7A/7B	2.8 kW	ON-MZ-IU-7A/7B	3.6 kW	ON-MZ-IU-8A/8B/8C	37 kW	ON-MZ-IU-8A/8B/8C	28 kW	ON-MZ-IU-10A-10G	95 kW	ON-MZ-IU-10A-10G	87 kW	ON-MZ-AHJDX-01	38.8 kW	ON-MZ-AHJDX-01	76.9 kW	Capacities in equipment schedule are correct.
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																																																								
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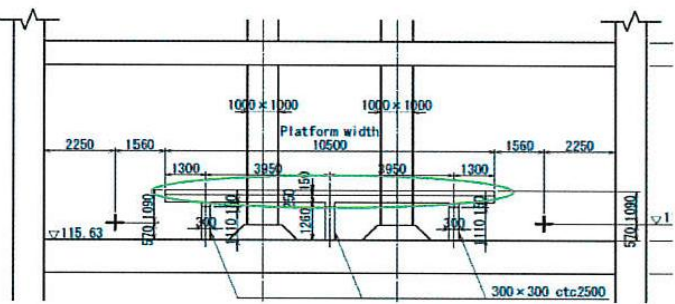
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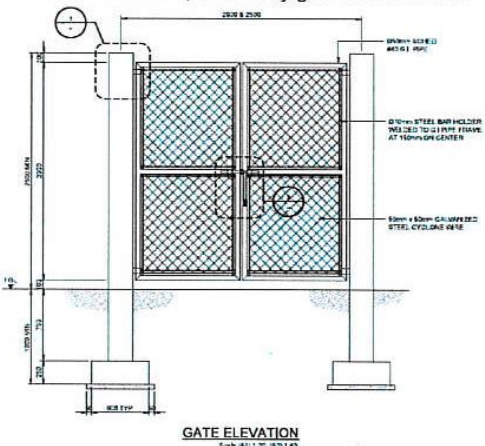
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285.	Bill of Quantities, Bill 5A, Item 1216 (2), Item 1216 (3) STN-MEP-VAC-ON-5101 to STN-MEP-VAC-ON-5108	<p>Please verify which will prevail for Fans</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">BOQ</th> <th colspan="2">SCHEDULE OF EQUIPMENT</th> </tr> <tr> <th>Equipment Tag</th> <th>Specification</th> <th>Equipment Tag</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>ON-CL-FAF-1A/1B</td> <td>1,490CMH; 630 Pa; 0.55kW;</td> <td>ON-CL-FAF-1A/1B</td> <td>1,490CMH; 630 Pa; 0.75kW;</td> </tr> <tr> <td>ON-CL-FAF-02</td> <td>4,200CMH; 610 Pa; 1.1kW;</td> <td>ON-CL-FAF-02</td> <td>4,200CMH; 610 Pa; 2kW;</td> </tr> <tr> <td>ON-CL-FAF-03</td> <td>6,000CMH; 220 Pa; 11kW;</td> <td>ON-CL-FAF-03</td> <td>6,000CMH; 220 Pa; 1.1kW;</td> </tr> <tr> <td>ON-M2-EAF-1A/1B</td> <td>18,450CMH; 1050 Pa; 9.3kW;</td> <td>ON-M2-EAF-1A/1B</td> <td>18,450CMH; 1050 Pa; 10kW;</td> </tr> <tr> <td>ON-M2-EAF-2A/2B</td> <td>21,690CMH; 770 Pa; 7.5kW;</td> <td>ON-M2-EAF-2A/2B</td> <td>21,690CMH; 770 Pa; 9kW;</td> </tr> <tr> <td>ON-M2-EAF-03</td> <td>2,060CMH; 1,150 Pa; 1.1kW</td> <td>ON-M2-EAF-03</td> <td>2,060CMH; 1,150 Pa; 1.5kW</td> </tr> <tr> <td>ON-M2-EAF-4A/4B</td> <td>18,720CMH; 300 Pa; 4kW</td> <td>ON-M2-EAF-4A/4B</td> <td>6,000CMH; 300 Pa; 1.5kW</td> </tr> <tr> <td>ON-CL-FAF-4A/4B</td> <td>18,720CMH; 300 Pa; 5.5kW</td> <td>ON-CL-FAF-4A/4B</td> <td>18,720CMH; 300 Pa; 5.5kW</td> </tr> <tr> <td>ON-ST-FAF-1A/1B</td> <td>18,720CMH; 300 Pa; 4kW;</td> <td>ON-CL-FAF-1A/1B</td> <td>18,720CMH; 300 Pa; 4kW;</td> </tr> <tr> <td>ON-ST-FAF-2A/2B</td> <td>18,720CMH; 300 Pa; 4kW;</td> <td>ON-GL-FAF-2A/2B</td> <td>18,720CMH; 300 Pa; 4kW;</td> </tr> <tr> <td>ON-CL-SEF-1A/1B</td> <td>9,480CMH; 1600 Pa; 7.5kW</td> <td>ON-CL-SEF-1A/1B</td> <td>9,480CMH; 1600 Pa; 8kW</td> </tr> <tr> <td>ON-CL-SEF-2A/2B</td> <td>7,560CMH; 1,350 Pa; 5.5kW;</td> <td>ON-CL-SEF-2A/2B</td> <td>7,560CMH; 1,350 Pa; 5.5kW;</td> </tr> <tr> <td>ON-CL-SEF-3A/3B</td> <td>4,260CMH; 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Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
286.	Bill of Quantities, Bill 5A and Bill 5B Item 1202 (4) STN-MEP-FPS-ON-3201; STN-MEP-FPS-OS-3202; STN-MEP-FPS-CWD-1203	Please verify which will prevail in Fire Department Connection. As reflected in plan and miscellaneous detail 65mmx150mmØ 4-way but as per BOQ it is 65mmx100mmØ 4-way.	65mm x 150mm dia. 4 way will prevail.
287.	Bill of Quantities, Bill 5A and Bill 5B Item 1202 (4) STN-MEP-FPS-ON-3201; STN-MEP-FPS-OS-3202; STN-MEP-FPS-CWD-1203	Please verify which will prevail in Pump Test Header. As reflected in plan 65mmx150mmØ 4-way but as per BOQ 65mmx100mmØ 4-way.	65mm x 150mm dia. 4 way will prevail.
288.	Bill of Quantities, Bill 5A and Bill 5B Item 1202 (5) STN-MEP-FPS-CWD-1203	Please specify the K-Factor of Sprinkler Head to be used for Upright, Pendent and Sidewall (K-Factor 5.6 or K-Factor 8.0?) since it is not specified in Technical Specifications, Plans and BOQ.	Technical Specification specifies for the Sprinklers to have a metric discharge coefficient of 81. Hence K-Factor 5.6.
289.	Bill of Quantities, Bill 5A and Bill 5B Item 1202 (5) STN-MEP-FPS-CWD-1203	Please clarify if the Sprinkler Head (Pendent and Sidewall) is Quick Response or Standard Response, because it is not specified in Technit Specification, Plan and BOQ.	Sprinkler Head is Standard Response.

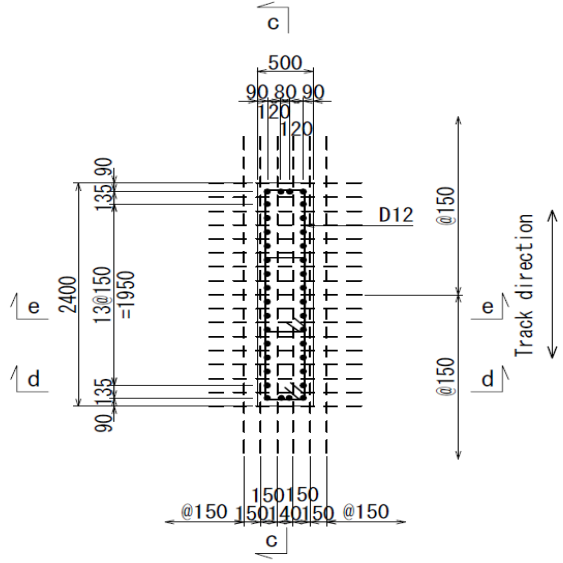
**Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
290.	Pay Item 2007(6)d Platform Reference Drawing: STN-CE-OS-0301	On the reflected drawing, we noticed that there is a 0.15m thickness on the top of the rail edge platform, may we know if it is part of Pay Item 2007(6)d? 	Inquired portion on top of the said platform is not a part of Pay item 2007 (6)d, it is under the Architecture SOW. Corresponding Pay item is 1021 (1) c2 "Cement Floor Finish-Cinder Concrete-Filled Floor with Trowel Finish and Concrete Hardener".
291.	Pay Item 604 Fencing Reference Drawing: SPL-C-F-ON-1013 SPL-C-F-OS-1013	The legend indicated in the Ortigas North Station plan is Pink for "FENCE TYPE-1" and Blue for "FENCE TYPE-2" while in the Ortigas South Station plan, Pink is for "FENCE TYPE-2" and blue is for "FENCE TYPE-1". May we know if this labelled correctly?	We confirm that drawings are labeled correctly. Kindly refer to fence type number instead.

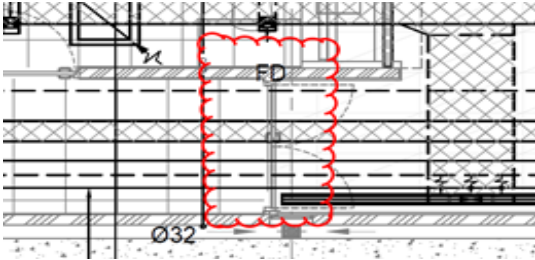
Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
292.	Pay Item 604 Fencing SPL-C-F-ON-1016 SPL-C-F-OS-1015	For the "Gate Elevation" drawing, the width is labelled "2000 & 2500", which width should be considered? Also, how many gates will there be? 	2,500mm should be 5,000mm instead and shall refer to the gate in SPL-C-F-ON-1012 entrance at emergency exit, ES-01. Revised drawing of SPL shall be issued. 2,000mm shall refer to gate in SPL-C-F-ON-1012 at Entrance-01, and SPL-C-F-ON-1013 at ES -02.
293.	Pay Item '1804 (3): Extract Air Aluminum Louver with Insect Screen References: STN-AR-A-ON-0501	According to the finishing schedule, this item (denoted as EWL-02) is located in Roof, Cooling Tower Space, and Power Shaft. However, in the detailed drawings, there is no EWL-02 shown. Please clarify where this item is located.	EWL-02 is not being used in the shafts. Only EWL-01 is being used at all shaft locations above ground.
294.	STN-CE-OS-0040 (Column Stirrups)	Are the stirrups in this drawing two overlapping stirrups of the same size or is it a pair of one larger outer stirrup and one smaller inner stirrup?	Two overlapping stirrups of the same size

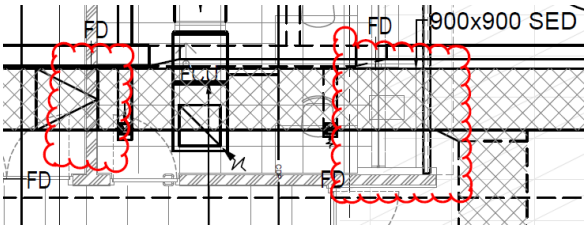
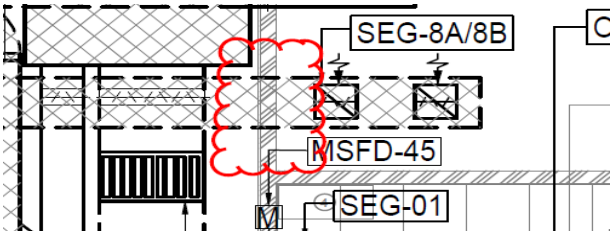
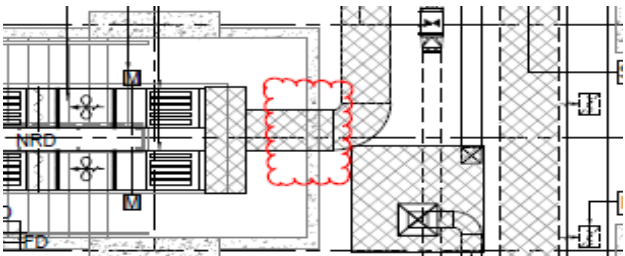
Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		 <p align="center"><u>Section 2-2</u> S=1 : 40</p>	
295.	<p>Frameless Glass Windows 1012(5) d - Tempered Glass - 18 mm</p> <p>STN-AR-A-ON-0501</p>	<p>In the finishing schedule, this item (denoted as GL-06) is said to be found in the following locations: Station Office, Station Control Area, Station Master Room. However, we could not locate the drawing details for this. May we request for the drawing details and specific locations in which this item is applied.</p>	<p>GL-06 is not applicable in station office, station control area and station master room.</p>

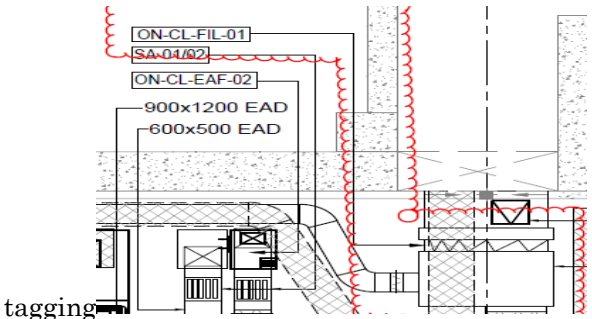
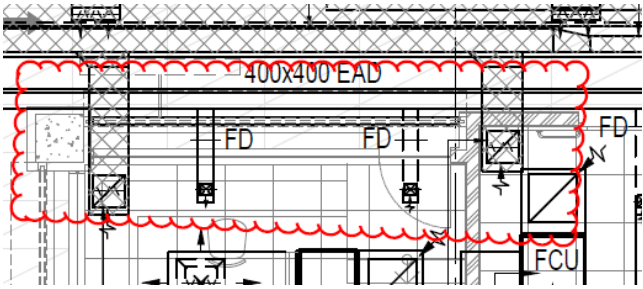
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
296.	1002 (28) h3 - Alarm Pull Chord (2 Bangles)	Based on the provided drawings, we could not locate this item. It is also not found in the sanitaryware schedule. May we request for the detailed drawings and specifications for this pay item.	The alarm pull chord is not being used. Please refer to sheet number 5105
297.	1821 - Stainless Steel Countertop Technical Specifications 2: Architecture 709-715 STN-AR-A-ON-9640 (Pantry Counter)	Based on the drawings provided. We have not located the drawings for this pay item. May we request information on where is this item located and detail drawings.	Refer material legend, item 6 on sheet number 9640 Refer to DWG STN-R-A-ON-9640
298.	Ortigas North Station STN-MEP-VAC-ON-3111 - Concourse Level Plan (Part 1 of 6) Grid 5-6 / C-D	Please confirm if only 1250x1000 RAD has Fire Damper? How about for ducting of 300x300 SED and 400x400 EAD? 	Bidders to refer to the schematic diagram Drawing Number "STN-MEP-VAC-ON-2103 – 2106)
299.	Ortigas North Station	Please confirm if there is no Motorized Fire Damper on	Bidders to refer to the schematic diagram. For Schematic

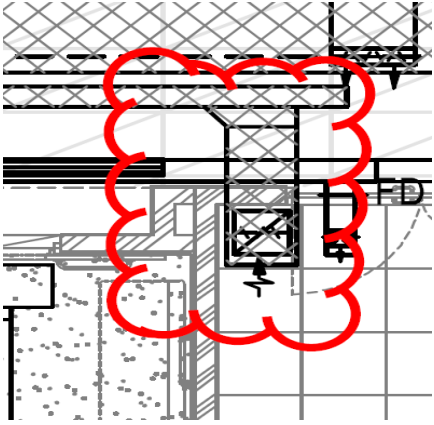
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	STN-MEP-VAC-ON-3111 - Concourse Level Plan (Part 1 of 6) Grid 5-7 / C-D	900x900 SED from the attached drawing provided 	Diagram Bidder to refer Drawing Number "STN-MEP-VAC-ON-2103 – 2106)
300.	Ortigas North Station STN-MEP-VAC-ON-3111 - Concourse Level Plan (Part 1 of 6) Grid 5-6 / A-B	Please confirm if there is no Motorized Fire Damper on 600x500 SED from the attached drawing provided 	Bidders to refer to the schematic diagram Drawing Number "STN-MEP-VAC-ON-2103 – 2106)
301.	Ortigas North Station STN-MEP-VAC-ON-3111 - Concourse Level Plan (Part 1 of 6) Grid 3-4 / B-C	Please confirm if there is no Motorized Fire Damper on 750x700 SED from the attached drawing provided 	Bidders to refer to the schematic diagram. Drawing Number "STN-MEP-VAC-ON-2103 – 2106)

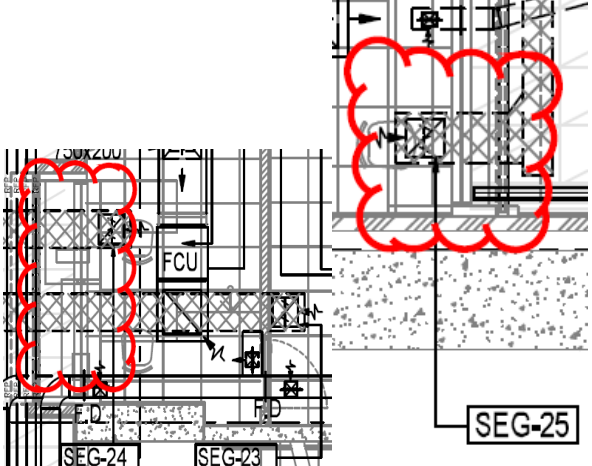
Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
302.			
303.	Ortigas North Station STN-MEP-VAC-ON-3111 - Concourse Level Plan (Part 1 of 6) Grid 4-5 / A-B	May we know what material is the ON-CL-FIL-01 	Bidders to refer to the Technical Specification. For Schematic Diagram Bidder to refer Drawing Number "STN-MEP-VAC-ON-2103 – 2106)
304.	Ortigas North Station STN-MEP-VAC-ON-3112 - Concourse Level Plan (Part 2 of 6) Grid 10-12 / C-D	Please confirm if there is no Motorized Fire Damper on SED from the attached drawing provided. And please provide the duct size. 	Bidders to refer to the schematic diagram. Drawing Number "STN-MEP-VAC-ON-2103 – 2106
305.	Ortigas North Station STN-MEP-VAC-ON-3111,3113,3114, 3115	Please provide the size of square diffuser/s of FCU's, there is no supply air square diffuser in BOQ.	Bidders to refer to the VAC equipment schedule.

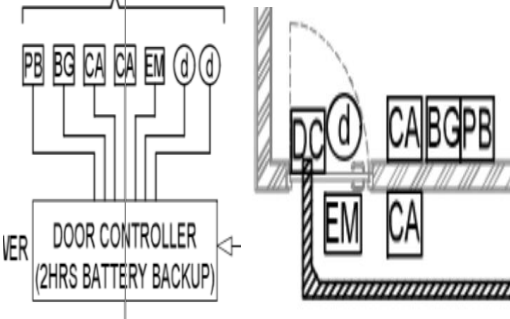
**Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	- Concourse Level Plan		
306.	Ortigas North Station STN-MEP-VAC-ON-3113- Concourse Level Plan (Part 3 of 6)Grid 17-18 / C-D	<p>Please confirm if there is no Motorized Fire Damper on SED from the attached drawing provided. And please provide the duct size and tag no. of SEG</p> 	<p>Bidders to refer to the schematic diagram. Drawing No. STN-MEP-VAC-ON-2103 to 2109</p>
307.	Ortigas North Station STN-MEP-VAC-ON-3114 - Concourse Level Plan (Part 4 of 6) Grid 33-35 / A-B and Grid 28-29 / C-D	<p>Please confirm if there is no Motorized Fire Damper on SED from the attached drawing provided.</p>	<p>Bidders to refer to the schematic diagram. Drawing No. STN-MEP-VAC-ON-2103 to 2109</p>

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
308.	STN-AR-A-ON-9671, STN-MEP-VAC-ON-3812	In reference with the Elev-02 North Station, kindly indicate the correct indication on which are the front and rear panel	Bidders to coordinate with Architectural and Civil drawings.
309.	SPL-E-ON-5041	Upon review of the bid plans, we found that there is no indicated dimensions of the handhole. We would like to request for the dimensions.	Handhole sizes varies and shall be calculated based from the number and sizes of the duct banks indicated in the design. Sizes of duct banks shall be referred in SPL-E-ON-5042.
310.	SPL-E-ON 5043	Upon review of the bid plans, we found that there is no indicated height of the equipment pedestal. We would like to request for the dimensions.	Please refer to note indicated in SPL-E-ON 5043, "Elevation of Concrete Pedestal is 900mm (minimum) or plus 10% of Ondoy Level, whichever is higher".

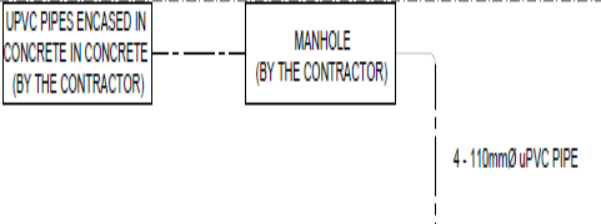
**Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
311.	SPL-C-F-ON-1015	Upon review of the bid plans, we found that there is no indicated width of the wall footing in the Fence Type 1. We would like to request of the dimensions.	Size of wall footing is 200mmX400mm. Please refer to attached revised SPL-C-ON-1015
312.	DRG No. STN-MEP-ELV-OS-2045 Ortigas-South Station ELV - Access Control System Schematic	Kindly confirm that there will be two (2) Card Access Readers per Door Controller. If this is confirmed, what will be the use of the Push Button for the Door Controller with the Card Access Readers on both sides of the door? 	The Push button can be used for manual opening of door.
313.	DRG No. STN-MEP-ELV-OS-2045 Ortigas-South Station ELV - Access Control System Schematic	Please provide installation detail for Access Control System	Contractor to provide in the shop drawing.

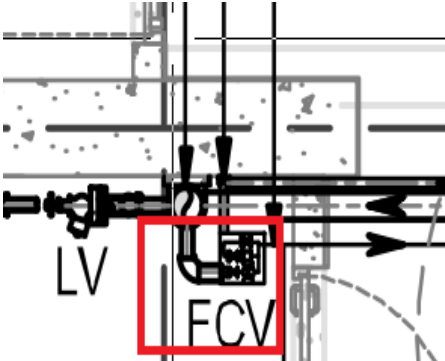
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
314.	DRG No. STN-MEP-ELV-ON-2044,D RG No. STN-MEP-ELV-ON-2048	<p>Please provide routing layout and details for the Telephone and Data UPVC encased in concrete, from Service Entrance to Control Room.</p> <p>3 ROWS x 4 NOS 110mmØ HD UPVC PIPES ENCASED IN CONCRETE (BY THE CONTRACTOR)</p> <p>TO TERMINATE 3000mm BEYOND BOUNDARY LINE OR BOUNDARY DRAINLINE</p> <p>MANHOLE (BY THE CONTRACTOR)</p> <p>3 ROWS 4 NOS. 110mmØ ABS PIPES ENCASED IN CONCRETE C/W MCT (BY THE CONTRACTOR)</p> <p>1 x 300mm CABLE LADDER ON ALL 4 WALLS AT 2600mm AFFL (CABLE BY SERVICE PROVIDER)</p> <p>m CABLE TRAY FOR TEL mm CABLE TRAY FOR (BY SERVICE DRINKING)</p> <p>BY OTHERS</p> <p>MAIN DISTRIBUTION FRAME EQUIPMENT RACK (BY TELEPHONE SERVICE PROVIDER)</p> <p>PABX</p> <p>OCC</p> <p>CONTROL ROOM</p>	Contractor to provide layout and routing from Service Entrance to MDF Room with the shop drawing.
315.	DRG No. STN-MEP-ELV-ON-2044, DRG No. STN-MEP-ELV-ON-2048	<p>Please provide details for the manhole of Telephone and Data System.</p>	Contractor to provide in the shop drawing.

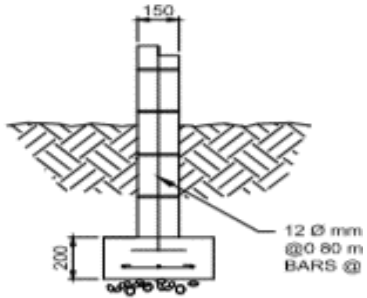
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		 <p>The diagram shows a cross-section of a manhole structure. On the left, a box labeled 'UPVC PIPES ENCASED IN CONCRETE IN CONCRETE (BY THE CONTRACTOR)' is connected by a dashed line to a central box labeled 'MANHOLE (BY THE CONTRACTOR)'. From the manhole, a vertical dashed line goes down to a label '4 - 110mmØ uPVC PIPE'.</p>	
316.	DRG No. STN-MEP-ELL-ON-3103, DRG No. STN-MEP-ELL-ON-3104, DRG No. STN-MEP-ELL-ON-3114, DRG No. STN-MEP-ELL-ON-2008	Kindly confirm if all ON-ST-ELDB-02 circuit runs on the lighting layout are the same circuit runs reflected on the schedule of loads DB No.: ON-GL-ELDB-02. If yes, this understanding applies to other similar concerns. Lighting Layout: STN-MEP-ELL-ON-3103 STN-MEP-ELL-ON-3104 STN-MEP-ELL-ON-3114 Schedule of Loads: STN-MEP-ELL-ON-2008	Bidder's understanding is correct.
317.	STN-AR-A-ON-1000; STN-AR-A-ON-9180	Please provide roof level plan for Storm drainage plan reflecting the piping of the rectangular downspout	All entrance roof plans indicate the location of the rainwater down take pipe. Refer to architecture drawings enlarge entrance roof plans to locate down spout location for every entrance. (6000 series)

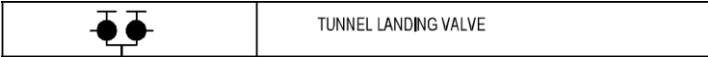
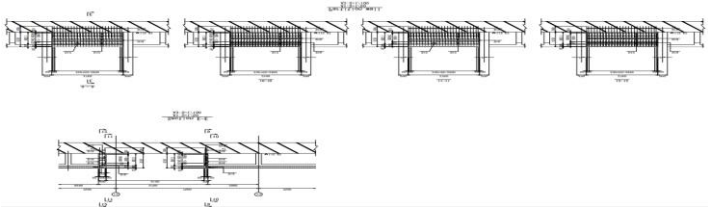
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
318.	STN-MEP-FPS-OS-3231	<p>Please specify the size of floor control valve, Grid Line 4 to 5 and B to C.</p> 	Contractor to refer to the standard detail.
319.	SPL-E-ON-5041	Upon review of the bid plans, we found that there is no indicated dimensions of the handhole. We would like to request for the dimensions.	Handhole sizes varies and shall be calculated based from the number and sizes of the duct banks indicated in the design. Sizes of duct banks shall be referred in SPL-E-ON-5042.
320.	SPL-E-ON 5043	Upon review of the bid plans, we found that there is no indicated height of the equipment pedestal. We would like to request for the dimensions.	Please refer to note indicated in SPL-E-ON 5043, "Elevation of Concrete Pedestal is 900mm (minimum) or plus 10% of Ondoy Level, whichever is higher".
321.	SPL-C-F-ON-1015	Upon review of the bid plans, we found that there is no indicated width of the wall footing in the Fence Type 1. We would like to request of the dimensions.	Size of wall footing is 200mmX400mm.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
322.	STN-MEP-ELL-ON-3100 to STN-MEP-ELL-ON-3246	<p>As per our understanding, the unit for solid wire is in mm diameter. However, in the power layout (see image below) the unit is in 3.5 sq. mm for solid wire. Please clarify the specific wire size and type to be used.</p> <div style="border: 2px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="margin: 0;">3 x 1 Core 3.5 sq.mm PVC Insulated FRLSHF Copper Solid Wire (Typical)</p> </div>	3.5 sq. mm is standard wire size based on Philippine Electrical Code.
323.	STN-MEP-VAC-ON-2107 to STN-MEP-VAC-ON-2109	Please confirm if there are no need to provide for smoke detectors in the Smoke Exhaust System. There are no	Bidders to refer to FDAS plans.

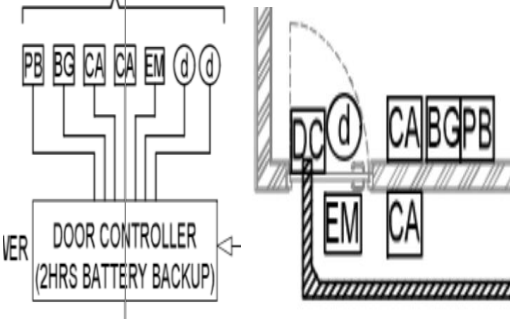
**Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	STN-MEP-VAC-OS-2107 to STN-MEP-VAC-OS-2109	smoke detectors reflected in the plans.	
324.	STN-AR-A-ON-0600	Please advise if smoke dampers are needed to be placed on air ducts passing across the smoke partitions at the Concourse Level.	Bidders to refer to standard details and Technical specification.
325.	STN-MEP-FPS-CWD-0102 STN-MEP-FPS-TUN8-3111 STN-MEP-FPS-TUN8-3112 STN-MEP-FPS-TUN9-3111	In tunnel fire protection system please verify if landing valve is same with fire hose valve. 	Tunnel Landing Valve to be used.
326.	STN-CE-OS-0302	Based on the Rail Platform Drawings. We noticed that there is no rebar detail drawings. May we request for the Rebar detail drawings of the Platform. 	Please referred GN-CE-CD-0004

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
Volume IV Part3 Condition of Contract and Contract Forms			
327.	VIII 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	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.

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	the Contractor's Contract Programme.		
328.	Section VIII. Particular Conditions; Part A: Contract Data	<p style="text-align: center;">Defects Notification 1.1.3.7 Two (2) years Period</p> <p>Shall the validity period of the Securities and Insurances includes the Defects Notification Period of 2 years?</p> <p style="text-align: center;">Contract Duration + 2 years</p> <p>Insurances: CARI, Accident Insurance, Workmans Compensation Insurance, Third Party Liability Insurance and etc.</p> <p>Securities: Advance payment guarantee and Retention Security</p>	Yes, validity period for securities and insurance shall cover the Defects Notification Period.
329.	SPL-E-ON-5041	Upon review of the bid plans, we found that there is no indicated dimensions of the handhole. We would like to request for the dimensions.	Handhole sizes varies and shall be calculated based from the number and sizes of the duct banks indicated in the design. Sizes of duct banks shall be referred in SPL-E-ON-5042.
330.	SPL-E-ON 5043	Upon review of the bid plans, we found that there is no indicated height of the equipment pedestal. We would like to request for the dimensions.	Please refer to note indicated in SPL-E-ON 5043, "Elevation of Concrete Pedestal is 900mm (minimum) or plus 10% of Ondoy Level, whichever is higher".

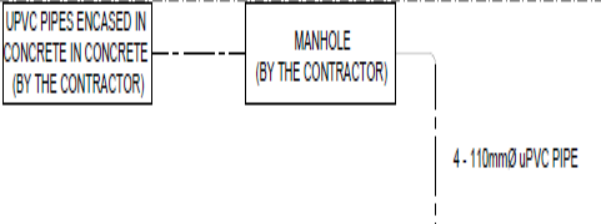
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
331.	SPL-C-F-ON-1015	Upon review of the bid plans, we found that there is no indicated width of the wall footing in the Fence Type 1. We would like to request of the dimensions.	Size of wall footing is 200mmX400mm. Please refer to attached revised SPL-C-ON-1015
332.	DRG No. STN-MEP-ELV-OS-2045 Ortigas-South Station ELV - Access Control System Schematic	Kindly confirm that there will be two (2) Card Access Readers per Door Controller. If this is confirmed, what will be the use of the Push Button for the Door Controller with the Card Access Readers on both sides of the door? 	The Push button can be used for manual opening of door.
333.	DRG No. STN-MEP-ELV-OS-2045 Ortigas-South Station ELV - Access Control System Schematic	Please provide installation detail for Access Control System	Contractor to provide in the shop drawing.

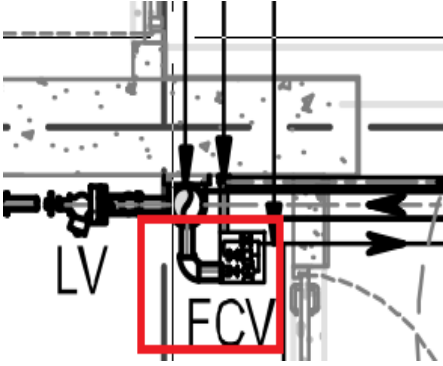
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
334.	DRG No. STN-MEP-ELV-ON-2044,D RG No. STN-MEP-ELV-ON-2048	<p>Please provide routing layout and details for the Telephone and Data UPVC encased in concrete, from Service Entrance to Control Room.</p> <p>3 ROWS x 4 NOS 110mmØ HD UPVC PIPES ENCASED IN CONCRETE (BY THE CONTRACTOR)</p> <p>TO TERMINATE 3000mm BEYOND BOUNDARY LINE OR BOUNDARY DRAINLINE</p> <p>MANHOLE (BY THE CONTRACTOR)</p> <p>3 ROWS 4 NOS. 110mmØ ABS PIPES ENCASED IN CONCRETE C/W MCT (BY THE CONTRACTOR)</p> <p>1 x 300mm CABLE LADDER ON ALL 4 WALLS AT 2600mm AFFL (CABLE BY SERVICE PROVIDER)</p> <p>m CABLE TRAY FOR TEL mm CABLE TRAY FOR (BY SERVICE DRINKING)</p> <p>BY OTHERS</p> <p>MAIN DISTRIBUTION FRAME EQUIPMENT RACK (BY TELEPHONE SERVICE PROVIDER)</p> <p>PABX</p> <p>OCC</p> <p>CONTROL ROOM</p>	Contractor to provide layout and routing from Service Entrance to MDF Room with the shop drawing.
335.	DRG No. STN-MEP-ELV-ON-2044, DRG No. STN-MEP-ELV-ON-2048	Please provide details for the manhole of Telephone and Data System.	Contractor to provide in the shop drawing.

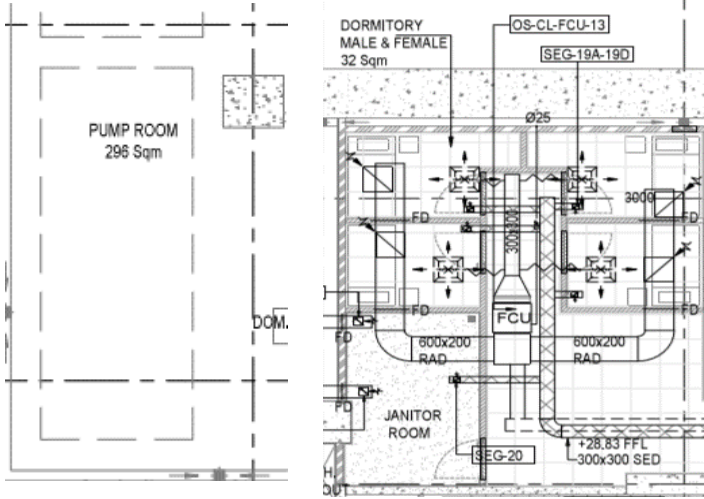
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		 <p>The diagram shows a rectangular box on the left labeled "UPVC PIPES ENCASED IN CONCRETE IN CONCRETE (BY THE CONTRACTOR)". A dashed line connects this box to a smaller rectangular box labeled "MANHOLE (BY THE CONTRACTOR)". From the manhole, a solid line leads to the text "4 - 110mmØ uPVC PIPE".</p>	
336.	DRG No. STN-MEP-ELL-ON-3103, DRG No. STN-MEP-ELL-ON-3104, DRG No. STN-MEP-ELL-ON-3114, DRG No. STN-MEP-ELL-ON-2008	Kindly confirm if all ON-ST-ELDB-02 circuit runs on the lighting layout are the same circuit runs reflected on the schedule of loads DB No.: ON-GL-ELDB-02. If yes, this understanding applies to other similar concerns. Lighting Layout: STN-MEP-ELL-ON-3103 STN-MEP-ELL-ON-3104 STN-MEP-ELL-ON-3114 Schedule of Loads: STN-MEP-ELL-ON-2008	Bidder's understanding is correct.
337.	STN-AR-A-ON-1000; STN-AR-A-ON-9180	Please provide roof level plan for Storm drainage plan reflecting the piping of the rectangular downspout	All entrance roof plans indicate the location of the rainwater down take pipe. Refer to architecture drawings enlarge entrance roof plans to locate down spout location for every entrance. (6000 series)

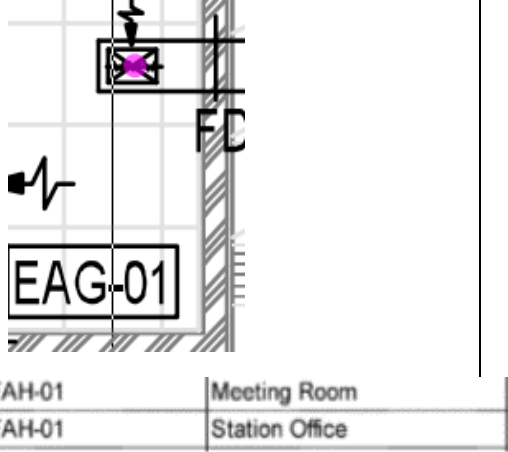
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
338.	STN-MEP-FPS-OS-3231	<p>Please specify the size of floor control valve, Grid Line 4 to 5 and B to C.</p> 	Contractor to refer to the standard detail.
339.	STN-MEP-VAC-CWD-1104	Please specify material to be used for the Refrigerant Trunking.	Bidders to refer to the Technical Specification
340.	STP-MEP-VAC-ON-5103 STP-MEP-VAC-OS-5103	Please confirm if there will be VFD for fans with single phase motor.	Bidders to refer to the Technical Specification
341.	STP-MEP-VAC-ON-5106 STP-MEP-VAC-OS-5106	Please provide the equipment schedule of all the tunnel ventilation for both stations showing the motor rating and power supply.	Bidders to refer to Electrical plans
342.	STN-MEP-VAC-OS-5105 STN-MEP-VAC-OS-3121	Please Verify the Location of EAG 2 & EAG 3 since it does not reflect in the plan lay-out	Bidder to refer to the schematic diagram. This point is not a blocking point for bidding.

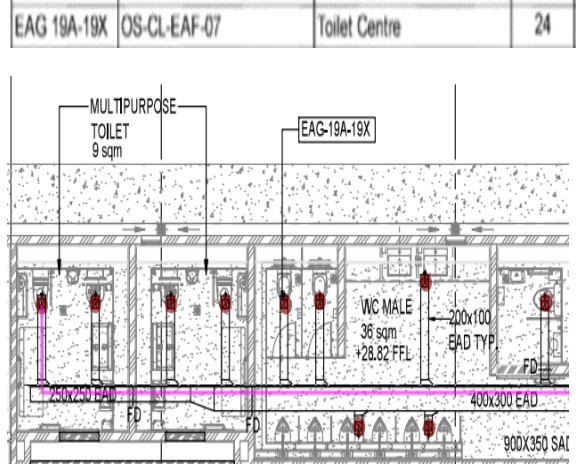
Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE								
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">EAG 2</td> <td style="width: 30%;">OS-MZ-EAF-1A/1B</td> <td style="width: 45%;">Janitor Platform</td> <td style="width: 10%; text-align: center;">1</td> </tr> <tr> <td>EAG 3</td> <td>OS-MZ-EAF-1A/1B</td> <td>Pump Room Platform</td> <td style="text-align: center;">1</td> </tr> </table> 	EAG 2	OS-MZ-EAF-1A/1B	Janitor Platform	1	EAG 3	OS-MZ-EAF-1A/1B	Pump Room Platform	1	
EAG 2	OS-MZ-EAF-1A/1B	Janitor Platform	1								
EAG 3	OS-MZ-EAF-1A/1B	Pump Room Platform	1								
343.	STN-MEP-VAC-OS5105 STN-MEP-VAC-OS-3111	Please verify tagging for Air Terminal EAG 22 to EAG 38 since it does not reflect in the plan lay-out.	Bidder to refer to the schematic diagram. This point is not a blocking point for bidding.								

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE						
		 <table border="1" data-bbox="638 783 1397 858"> <tr> <td>EAG 22</td> <td>OS-CL-FAH-01</td> <td>Meeting Room</td> </tr> <tr> <td>EAG 23</td> <td>OS-CL-FAH-01</td> <td>Station Office</td> </tr> </table>	EAG 22	OS-CL-FAH-01	Meeting Room	EAG 23	OS-CL-FAH-01	Station Office	
EAG 22	OS-CL-FAH-01	Meeting Room							
EAG 23	OS-CL-FAH-01	Station Office							
344.	STN-MEP-VAC-OS-3113 STN-MEP-VAC-OS-5105	Bidder to refer to the schematic diagram. This point is not a blocking point for bidding.	Bidder to follow equipment schedule.						

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
345.	STN-MEP-PLD-CWD-1301 STN-MEP-PLD-OS-2101	As per Miscellaneous detail, Air Chamber is reflected in Miscellaneous Details for Plumbing Fixtures. However, as per plan lay-out, Water Hammer Arrester is used instead of an Air Chamber. Kindly advise which will prevail?	Water Hammer Arrester should be used.
346.	SPL-PB1-P-ON-5008 SPL-PB2-P-ON-5008	Please verify if it is not required to put sand filter for the Storm Drain catch basin. If required, please provide specifications	Bidders to refer to the Technical Specification
347.	STN-MEP-BMS-CWD-1001	Please verify if Water Flow Meter is required for the Make up Water Supply for Cooling Tower.	Bidders to refer to the standard detail and Technical Specification

**Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
348.	Page – PC- 6 Attachment 1 to Part A: Contract Data of Particular Conditions of Contract SCHEDULE OF KEY DATES KD 1-1 and KD 1-2 Completion of Basic Structure of Stations and Provision of Access to the CP 106 Systems Contractor to install Systems Equipment. The Station structures shall have been substantially completed including lighting, ventilation, temporary air-conditioning, plumbing, interface works, related finishes, to allow the CP106 Systems Contractor	Please identify exactly and specifically Rooms or Areas for the CP106 Systems Contractor to commence their works since CP 104 contractor shall make clean, dry and watertight conditions prior to the handover of the Rooms or the Areas, including temporary air-conditioning. CP 104 contractor shall pay delay damages in case of any delay from these key dates.	CP104 station layout is under redesign scope and in progress that CP104 BD shall stated state the further revised design with CP106 contractor contractor to be determined in interface discussion and accepted by both both parties.

**Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>access for the installation of system equipment, cabling works and associated works. The above access shall be provided on a room by room or an area by area basis to be required by CP106 Systems Contractor in accordance with the detail schedule to be agreed upon at the time of preparation of CIP (Coordinated Installation Program). All areas shall be clean, dry and watertight prior to the handover of Rooms or Areas for the CP106 Systems Contractor to commence their works in.</p>		
349.	Works at Door Jams for	The drawings indicate the followings:	Part of wall finishes system.

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																														
	150mm Thick Wall DWG Nos. STN-AR-A-OS/ON-9150	<p>3 PLASTIC CORNER 1 MM THK</p> <p>4 6 MM WIDE APPROVED JOINT SEALANT WITH BACKING / FILLER</p> <p>5 1.5 MM THK EPOXY PAINTED STEEL DOOR FRAME</p> <p>8 EPOXY PAINTED STEEL DOOR</p> <p>11 RENDER STOP</p> <p>We cannot find any specifications and pay items for the items 3 and 11. We cannot also find any epoxy painting to door frame and doors, as described in the items 5 and 8 above, in the specifications as well as any pay item. We cannot also find any pay item for the item 4. Please provide the specifications and the pay items and quantities in Bill No. 4.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">1018</td><td style="width: 10%;">1018 (3) a1</td><td style="width: 80%;">Granite Stone Honed Finish – 600x1200x30</td></tr> <tr><td>1018</td><td>1018 (3) a2</td><td>Granite Stone Honed Finish – 1200x150x30</td></tr> <tr><td>1018</td><td>1018 (3) b1</td><td>Granite Stone Polished – 1200x600x30</td></tr> <tr><td>1018</td><td>1018 (3) b2</td><td>Granite Stone Polished – 1200x150x30</td></tr> <tr><td>1018</td><td>1018 (3) b3</td><td>Granite Stone Polished – 1200x800x30</td></tr> <tr><td>1018</td><td>1018 (5) b6</td><td>Glazed Ceramic Tile – 1200x600x10</td></tr> <tr><td>1018</td><td>1018 (5) b3</td><td>Glazed Ceramic Tile – 1200x150x10</td></tr> <tr><td>1018</td><td>1018 (5) b7</td><td>Glazed Ceramic Tile – 600x300x6</td></tr> <tr><td>1018</td><td>1018 (5) b4</td><td>Glazed Ceramic Tile – 3000x1000x6</td></tr> <tr><td>1018</td><td>1018 (5) b1</td><td>Glazed Ceramic Tile – 600x600x10</td></tr> </table> <p>Epoxy painting is considered in door rates.</p>	1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30	1018	1018 (3) b1	Granite Stone Polished – 1200x600x30	1018	1018 (3) b2	Granite Stone Polished – 1200x150x30	1018	1018 (3) b3	Granite Stone Polished – 1200x800x30	1018	1018 (5) b6	Glazed Ceramic Tile – 1200x600x10	1018	1018 (5) b3	Glazed Ceramic Tile – 1200x150x10	1018	1018 (5) b7	Glazed Ceramic Tile – 600x300x6	1018	1018 (5) b4	Glazed Ceramic Tile – 3000x1000x6	1018	1018 (5) b1	Glazed Ceramic Tile – 600x600x10
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1018	1018 (5) b1	Glazed Ceramic Tile – 600x600x10																															
<i>Others</i>																																	
350.	Costs for Permanent Power Supply	Please confirm that the Contractor will not be charged for any electric power provided by CP106 through Permanent Works Plant.	The power supply required for the construction will be provided by the contractor.																														
351.		To assist us to establish comprehensive monitoring plan and ground movement analysis	Client will assist you to get requested information as much as possible when contractor make monitoring																														

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		together with assessment of potential impact to the existing structures due to implementation of the project. Please provide us with the as built records of the existing structures adjacent to the project site as listed in the attachment.	plan.
352.		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.	Yes. Temporary opening can be designed by contractor as temporary works design, but design should be approved by Engineer.
353.		General Bid Bulletin No.3 downloaded from the website "Republic of the Philippines Procurement Service" does not contain Annex "C" • Revised pages of the Bidding Documents. please furnish us with Annex "C" to General Bid Bulletin No.3	Please refer to General Bid Bulletin No.4 published on 15 December, 2020.
354.		Please provide tapping point location for Sewer,	Temporary tapping point shall be coordinated by the

Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)			
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		Drainage, Water, Electrical and Telephone System for our Temporary Facilities	contractor at site.

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PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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Appendix A

REFERENCE ONLY

PROPOSED SOIL AND WASTE DISPOSAL SITES					
No	Site	Address	Area/ Capacity (ha/m ³)		Contractual Status/ Expected Contract Schedule
1	Obando	#80 Flamengco, Panghulo, Obando, Bulacan	6-20	1M	Selected by CP101 contractor Waiting response from DOTr about MOA
2	Meycauayan	Brgy. Saluysoy Deca Homes, Meycauayan, Bulacan	54	1.6M	Selected by CP101 contractor Waiting response from DOTr about MOA
3	San Mateo	Conrock Compound, Gen. Luna Street, Brgy. Guinayang, San Mateo, Rizal Brgy. Mali, San Mateo, Rizal	8	0.6M	Not selected by CP101 contractor
4	Taytay	Sports Complex, Velasquez St., Brgy. Muzon, Taytay, Rizal	13.5	1.2M	Not selected by CP101 contractor
		Purok 7, Lupang Arenda, Brgy. Sta. Ana, Taytay, Rizal	9	1.6M	Not selected by CP101 contractor
5	Bagbaguin	Brgy. Bagbaguin, Sta Maria, Bulacan	1.3	0.6M	Newly found
6	Bagbaguin	Brgy. Bagbaguin, Sta Maria, Bulacan	10	4M	Newly found
7	San Gabriel	Brgy. San Gabriel Sta Maria, Bulacan	1.482	0.44M	Newly found
8	Guyong	Brgy. Guyong Sta Maria, Bulacan	18	5.4M	Newly found

- Private Land Owner
 - LGU Owned

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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Appendix B

Table 2012 .4.3 Control and Review Levels

Purpose of Monitoring		Monitoring Plan	Monitoring Item		Control Standard Value*			Remark	
Main Item	Sub Item				Control Value (C.V.)	Alert Level	Action Level		Alarm Level
Safety Construction and Data Collection for the Design and Construction of Similar Works in the Future	To verify design assumption of large-scale excavation	Retaining Wall	Displacement of Retaining Wall	MET	Design Response Value	C.V. x 90%	C.V. x 95%	C.V. x 100%	
	To assess effects of construction method	Water Level	Ground Water Level (Observation Well)	OW	Prediction Value reference to condition before commencement of work	C.V. x 90%	C.V. x 95%	C.V. x 100%	
	To assess construction method and effects of face stability control of shield TBM driving	Shield TBM	Face Pressure, Grouting Pressure, Volume, etc	-	The Contractor shall propose for approval of the Engineer				
		TBM Tunnel	Deformation of segmental lining	-	The Contractor shall propose for approval of the Engineer				
	To verify construction method and design	Ground	Ground displacement	ME, SS	Prediction displacement	C.V. x 90%	C.V. x 95%	C.V. x 100%	

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES				RESPONSE			
	assumption as trial monitoring.								
	To assess influences of the first tunnel given by the second tunnel construction	TBM Tunnel Segmental Lining	Stress of segmental lining	SSG	Design Allowable Value	C.V. x 90%	C.V. x 95%	C.V. x 100%	
	To verify design assumption and actual ground condition	NATM Tunnel	Deformation and absolute displacement of support	OP	Design Response Value	C.V. x 50%	*C.V. x 75%	C.V. x 100%	
	To verify prediction analysis and to assess protection measures	Adjacent Structures	Displacement of Important Structure	SSA	The Contractor shall propose for approval of the Engineer				
Differential Settlement inclination of Important Structure			NCA	The Contractor shall propose for approval of the Engineer					
Displacement of Structure			SSA	The Contractor shall propose for approval of the Engineer					
Differential Settlement and Inclination of Structure			NCA	The Contractor shall propose for approval of the Engineer					
Ground Surface		Settlement of ground surface	SP	The Contractor shall coordinate	C.V. x 60%	C.V. x 80%	C.V. x 100%		

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			with Road Authority
<p><i>*The Contractor shall study the percentage value due to allowable value for each alert, action and alarm level depending on condition including design result. If needed, the percentage value shall be reduced.</i></p>			
Reviewing Level	Condition	Action	
Lower than Alert level	Safety	The Contractor shall increase monitoring frequency and review the data. If it is considered that the action level is likely to be exceeded, the Contractor shall reassess the design. If it is considered that the alarm could be reached or exceeded, then the Contractor shall implement remedial measures to ensure that the alarm level is not reached.	
Alert Level	Attention	The Contractor continue to carry out works in the same manner	
Action Level	Caution	The Contractor shall review the data and reassess the design. The Contractor shall propose and implement remedial measures to ensure that the alarm level is not reached. For * note, the work shall be suspended and remedial measures shall be immediately implemented.	
Alarm Level	Danger	The Contractor shall immediately make the related part of the work safe and then suspend work in the part of the works until remedial measures have been established and implemented	