

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
<i>Volume I Part 1 : Bidding Procedures</i>			
1.	Section II Bid Data Sheet (BDS) BDS-4 ITB 14.7	Bidder would like to confirm if payment of documentary stamps for Insurance policy shall also be exempted or not.	The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Employer.

<i>Volume IA Part 1 : Bidding Procedures Section IV Bidding Form-Bill of Quantities (BOQ)</i>			
2.	118 G118(4) G118(5) Environmental Monitoring Fund and Environmental Guarantee Fund.	BOQ Items G118(4) is for payment of the Environmental Guarantee Fund (EGF) and G118(5) is for the Environmental Monitoring Fund (EMF). However in the GS Section 118 there is no mention of the Environmental Monitoring Fund. Please provide a specification and method of payment for the EMF.	Item G118(5) is deleted from BOQ.  Please refer to "BOQ Bill No.1" in Annex C of this GBB
3.	Discrepancies between the Specifications and the Bills of Quantity	Please confirm that where quantities on drawings differ from quantities in the BOQ, then unit rates should be calculated based on quantities in the BOQ.	Please refer to the latest BOQ in GBB 10 and GBB11
4.	Pay Item 800 Hardscape	We also would like to request for the technical specifications	Concrete pavers, Napoli Stone and Granite Stone have

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		<p>and drawing details of this pay item.</p> <p>Does Pay item 800 hardscape also refers to the following pay items under Bill No 6 - Station Plaza? Please clarify.</p> <p style="padding-left: 40px;">Pay Item 1057    Concrete Pavers</p> <p style="padding-left: 40px;">Pay Item                Napoli Stone</p> <p style="padding-left: 40px;">Pay Item 1018    Granite Stone</p>	<p>their own pay items in the under Finishes.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td style="text-align: center;">613</td><td style="text-align: center;">613</td><td>Paver Blocks</td></tr> <tr><td style="text-align: center;">616</td><td style="text-align: center;">616</td><td>300x300x50mm Tactile</td></tr> <tr><td style="text-align: center;">614</td><td style="text-align: center;">614</td><td>Napoli Stone</td></tr> <tr><td style="text-align: center;">615</td><td style="text-align: center;">615</td><td>Granito Tile</td></tr> </table> <p>The hardscape refers to the allowances under "Softscape". Please refer to below screenshot.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="text-align: center;"><b>Softscape</b></td></tr> <tr><td style="background-color: #f4a460;"></td><td style="background-color: #f4a460;"></td><td>Allowance for Plantboxes</td></tr> <tr><td style="background-color: #f4a460;"></td><td style="background-color: #f4a460;"></td><td>Allowance for Paint for Plantboxes</td></tr> <tr><td style="background-color: #f4a460;"></td><td style="background-color: #f4a460;"></td><td>Allowance for Benches</td></tr> <tr><td style="background-color: #f4a460;"></td><td style="background-color: #f4a460;"></td><td>Allowance for Park Furnitures</td></tr> </table>	613	613	Paver Blocks	616	616	300x300x50mm Tactile	614	614	Napoli Stone	615	615	Granito Tile			<b>Softscape</b>			Allowance for Plantboxes			Allowance for Paint for Plantboxes			Allowance for Benches			Allowance for Park Furnitures
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5.	Bill of Quantities Bill 7 1018(8)a 300x300mm yellow directional tactile1018(8)b 300x300mm yellow hazard warning tactile	Is the drawing shown below (SPL-C-RD-OS-1032) is for Pay iItem 1018(8)a and Pay iItem 1018(8)b? Please confirm if this Item is Stainless Steel Tactile and what color.	300x300x50mm Tactile has its own pay item in the BOQ																											
6.	Bill of Quantities Bill 5A, Item 1203 (1)  STN -MEP-VAC-ON-3811	Please clarify which of the following conflict items shall prevail:	<p>BOQ in GBB10 uses 10.99m.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">1203</td> <td style="text-align: center;">1203(1)</td> <td>PE-1; Passenger Elevator, 1600kg, 2stops/openings, Front and rear opening, 10.99m traveling ht, 60 m/m speed,</td> <td style="text-align: center;">set</td> <td style="text-align: center;">1.00</td> </tr> </table>	1203	1203(1)	PE-1; Passenger Elevator, 1600kg, 2stops/openings, Front and rear opening, 10.99m traveling ht, 60 m/m speed,	set	1.00																						
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		North Station ELEV-01 Traveling Height	10.99 meters	Not reflected	6.3 meters						
7.	Bill of Quantities Bill 5A, Item 1203 (1)  STN -MEP-VAC-ON-3812, STN-AR-ON-9671	Please clarify which of the following conflict items shall prevail:				BOQ in GBB10 uses 11.54m.					
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		North Station ELEV-02 Traveling Height	11.54 meters	11.54 meters	19.94 meters						
8.	Bill of Quantities Bill 5A, Item 1233 (1)  MEP-VAC-ON-3822, MEP-VAC-ON-3823, MEP-AR-A-ON-1001	Please clarify which of the following conflict items shall				Escalator step width shall be minimum 1000 mm. However, BOQ description provides total width of escalator requirements including housing.					
		Description	As per MEP Plan	As per Architectural Plan	As per BOQ						
		North Station ESCA 1 & 2 Step width	1010 mm	1000 mm	1550 mm						

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9.	Bill of Quantities Bill 5A, Item 1233 (1)  MEP-VAC-ON-3825, MEP-VAC-ON-3826, STN-AR-A-ON-1002	Please clarify which of the following conflict items shall prevail:  <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 25%;">Description</th> <th style="width: 25%; background-color: yellow;">As per MEP Plan</th> <th style="width: 25%; background-color: lightblue;">As per Architectural Plan</th> <th style="width: 25%; background-color: lightorange;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td>North Station ESCA 3 &amp; 4 Step width</td> <td>1010 mm</td> <td>1000 mm</td> <td>1550 mm</td> </tr> </tbody> </table>	Description	As per MEP Plan	As per Architectural Plan	As per BOQ	North Station ESCA 3 & 4 Step width	1010 mm	1000 mm	1550 mm	Escalator step width shall be minimum 1000 mm. However, BOQ description provides total width of escalator requirements including housing.  Please refer to the MEP Plan Drawing below:  <div style="text-align: right; border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> <p><b>NOTE :</b> THIS DRAWING IS INDICATIVE ONLY AND FURTHER COORDINATION WITH RESPECTIVE ESCALATOR VENDOR SHALL BE REQUIRED. TECHNICAL SPECIFICATION SECTION 1233 NEEDS TO BE REFERRED FOR TECHNICAL PARTICULAR OF ESCALATOR.</p> </div> <div style="text-align: center; margin-top: 20px;"> <p style="text-align: center;"><b>SECTION A-A</b> Scale (A1) 1:25</p> </div>
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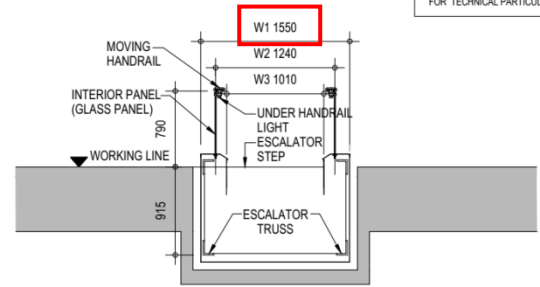
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13.	Bill of Quantities Bill 5B, Item 1203 (1)  STN-AR-A-OS-9671, STN- MEP-VAC-OS-3812	<p>Please clarify which of the following conflict items shall prevail:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 25%;">Description</th> <th style="width: 25%;">As per MEP Plan</th> <th style="width: 25%;">As per Architectural Plan</th> <th style="width: 25%;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td>South Station ELEV-02 Opening</td> <td>3 stops, 2 front / 1 rear</td> <td>3 stops, 2 front / 1 rear</td> <td>4 stops/ opening</td> </tr> </tbody> </table>	Description	As per MEP Plan	As per Architectural Plan	As per BOQ	South Station ELEV-02 Opening	3 stops, 2 front / 1 rear	3 stops, 2 front / 1 rear	4 stops/ opening	<p>Refer to BOQ in GBB 10. It shall be 3steps, 2front/ 1 rear</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">1203</td> <td style="width: 25%;">1203(1)</td> <td style="width: 50%;">PE-2; Passenger Elevator, 1600kg, 3stops/openings, front and rear opening; 11.54m traveling ht, 60 m/m speed</td> <td style="width: 25%;">set</td> </tr> </table>	1203	1203(1)	PE-2; Passenger Elevator, 1600kg, 3stops/openings, front and rear opening; 11.54m traveling ht, 60 m/m speed	set
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14.	Bill of Quantities Bill 5B, Item 1233 (1)MEP-VAC-OS- 3822, MEP-VAC-OS-3823, MEP-AR-A-OS-1001	<p>Please clarify which of the following conflict items shall prevail:</p>	<p>Escalator step width shall be minimum 1000 mm. However, BOQ description provides total width of escalator requirements including housing.</p> <p>Please refer to MEP Plan Drawing Below.</p>												

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES			RESPONSE										
		Description	As per MEP Plan	As per Architectural Plan	As per										
		South Station ESCA 1 Step width	1010 mm	1000 mm	1550 mm										
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;"> <p><b>NOTE :</b> THIS DRAWING IS INDICATIVE ONLY AND FURTHER COORDINATION WITH RESPECTIVE ESCALATOR VENDOR SHALL BE REQUIRED. TECHNICAL SPECIFICATION SECTION 1233 NEEDS TO BE REFERRED FOR TECHNICAL PARTICULAR OF ESCALATOR.</p> </div>  <p style="text-align: center;">SECTION A-A - Scale (A1) 1:25</p> <table border="1" style="width: 100%; margin-top: 20px; border-collapse: collapse;"> <tr> <td style="width: 60%; text-align: center;">METRO MANILA SUBWAY PROJECT PHASE1</td> <td style="width: 40%;">DATE August 2020</td> </tr> <tr> <td style="text-align: center;">PACKAGE CP 104</td> <td>SCALE AS SHOWN</td> </tr> <tr> <td style="text-align: center;"><b>Ortigas South Station Escalator No. 1 (Sheet 2)</b></td> <td>SHEET No.</td> </tr> <tr> <td></td> <td>DRG No. STN-MEP-VAC-OS-3822</td> </tr> <tr> <td></td> <td>DRG S. <span style="float: right;">REV 4</span></td> </tr> </table>						METRO MANILA SUBWAY PROJECT PHASE1	DATE August 2020	PACKAGE CP 104	SCALE AS SHOWN	<b>Ortigas South Station Escalator No. 1 (Sheet 2)</b>	SHEET No.		DRG No. STN-MEP-VAC-OS-3822		DRG S. <span style="float: right;">REV 4</span>
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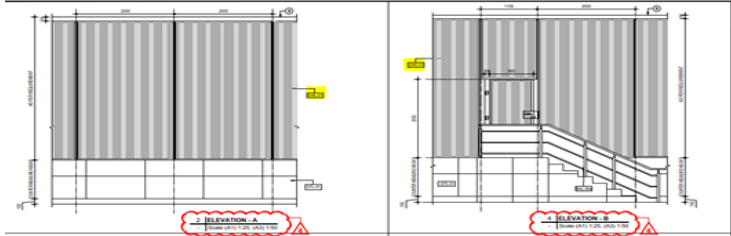
**Metro Manila Subway Project Phase 1**  
**PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

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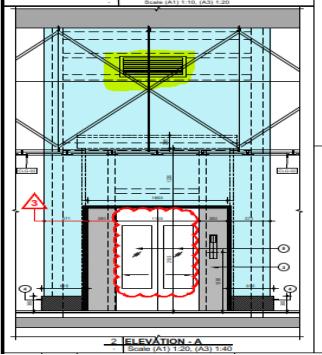
**Metro Manila Subway Project Phase 1  
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

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DRG S.	REV 4										
15.	Pay Item 1032 Painting, Varnishing and other Related Works	We would like to clarify if all painted areas are required for Anti Graffiti Coating. If not, may we request a schedule for Anti-Graffiti Coating.	<p>Anti-graffiti coating on drawings is not identified. TS does not include Anti-graffiti coating on Products (TS Section 1032.2.1) and Pay Item schedule (TS Section 1032.4.2)</p> <p>No paint in public area (paid and unpaid) since all wall finishes are stone finishes</p>								
16.	2010(1) Evacuation Passage, Handrail and Step	Is this pay item the same as the Emergency Stairs on the Civil Plan Station Drawings? If so, please clarify the specifications since the this pay item is under 2010 Steel Work. May we also request for the detailed drawing for the evacuation passage mentioned.	The Pay item 2010(1) is for Evacuation Passage on CN-CE-CO-0015 and other relevant drawings. Not for Emergency Stairs.								
17.	Bill of Quantities pay item 1113(2a)	Please provide details for Capacitor Banks and External Battery System.	For Capacitor Bank Electrical schematic drawing (OS-2001 & ON-2001) needs to be referred. For UPS system 2 hrs Battery Back backup has been considered.								

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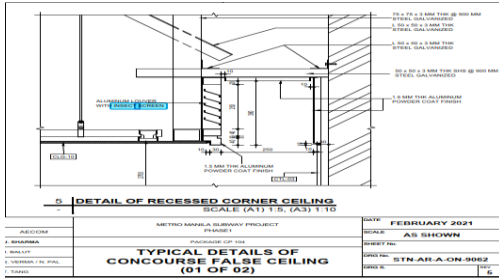
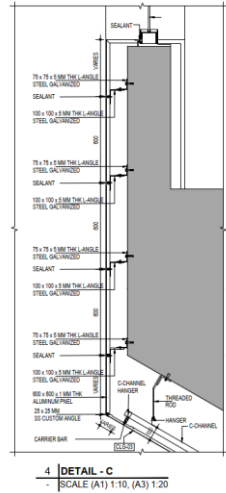
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
18.	Bill of Quantities, Bill 2A and Bill 2B, Item No. 2005	Please provide existing Plans, details and relocation lay-out for those items to be reinstated/relocated (Single Arm Street Lighting)	Location and details shall comply with relevant authorities' requirements.
19.	Bill of Quantities, Bill 4A and Bill 4B, Item No. 1002	As per Bill of Quantities, Alarm Reset Button and Alarm Pull Chord (2 Bangles) are reflected but there are no plans and specifications. Please clarify if this is part of scope. If yes, please provide location on plans and its specifications.	Alarm Reset Button and Alarm Pull chord were removed. The items were deleted in Revised BOQ.
20.	BILL NO. 4a & 4b  Metal Louvers  Pay Item no. 1804 (1) Extruded Aluminum Vertical Louvers	May we request a separate drawing details (Size, profile, and configurations) for the item "Extruded Aluminum Vertical Louvers".	It is considered in BOQ with Pay Item no. 1804 (1) under Metal Louvers and located entrances and outdoor machinery.  Please refer to Drawing Sheet No. STA-AR-A-ON/OS-9240 (Typical Details); ON:STN-AR-A-ON-6033 to STN-AR-A-ON-6047 & OS: STN-AR-A-OS-6007 to STN-AR-A-OS-6019  
21.	BILL NO. 4a & 4b  Metal Louvers	May we request a separate drawing details (Size, profile, and configurations) for the item "Extruded Aluminum Horizontal Louvers with Insect Screen".	It is considered in BOQ with Pay Item no. 1804 (2) located at elevator shaft.  Please refer to Drawing Sheet No. STA-AR-A-ON/OS-9131

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Pay Item no. 1804 (1) Extruded Aluminum Horizontal Louvers with Insect Screen</p>		<p>(Typical Details); ON: STN-AR-A-ON-7000;STN-AR-A-ON-7001 &amp; OS: STN-AR-A-OS-7000; STN-AR-A-OS-7001</p> 
22.	<p>BILL NO. 4a &amp; 4b</p> <p>Metal Louvers</p> <p>Pay Item no. 1804 (1) Extract Air Aluminum Louver with Insect Screen</p>	<p>May we request a separate drawing details (Size, profile, and configurations) for the item "Extract Air Aluminum Louver with Insect Screen" .</p>	<p>It is considered in BOQ with Pay Item no. 1804 (3) located at public toilet.</p> <p>Please refer to Drawing Sheet No. STA-AR-A-ON/OS-9062 (Typical details); ON: STN-AR-A-ON-5100; STN-AR-A-ON-5102; STN-AR-A-ON-5106 &amp; OS: STN-AR-A-OS-5100; STN-AR-A-OS-5102; STN-AR-A-OS-5106</p>



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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
23.	<p>BILL NO. 4a &amp; 4b</p> <p>Ceiling Works</p> <p>Pay Item no. 1811 (9)</p> <p>Aluminum Composite Panel Cladding</p>	<p>May we request a finishing Schedule, Locations and Drawings details for the item "Aluminum Composite Panel Cladding".</p>	<p>Please refer to drawing sheet no. STA-AR-A- ON/OS-9060 "Detail-C".</p> <p>Aluminum panels are used only at entrance locations.</p> 

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
24.	<p>BILL NO. 4a &amp; 4b</p> <p>Phenolic Partitions</p> <p>Pay Item no. 1816 (1) a3</p> <p>1816 (1) a1</p> <p>1816 (1) a2</p> <p>Phenolic Partition - Shower Partition</p> <p>Phenolic Partition - Toilet Partition</p> <p>Phenolic Partition - Urinal Partition</p>	<p>As stated on the provided Technical Specifications (File Page:671 / PDF Page:687):</p> <p>Description: 12 mm thick high pressure-laminate (HPL) 18 mm thick phenolic board toilet/urinal partition and toilet door, floor-mounted,including hinged doors, front pilasters, pedestals including accessories to complete the assembly and fixing to building structure.</p> <p>We would like to clarify that the Phenolic Board is 18mm THK and the High Pressure-Laminate is 12mm THK which means 12mm HPL + 18mm Phenolic board + 12mm HPL is the complete set of finish (12 + 18 + 12 = 42mm thk) for the partitons.</p> <p>Please Clarify.</p>	<p>12mm thk for toilet partition while 18mm thk is used for operable wall partitions. Please see drawing sheet no. STA-AR-A-OS/ON-9501.</p> <p>Please refer to BOQ Pay Item No. 1816 (1) a1, 1816 (1) a2 and 1816 (1) a3.</p>
25.	<p>BILL NO. 4a &amp; 4b</p> <p>Room Fire Rating hours</p> <p>Intumescent Painting</p>	<p>May we request a Fire Rated Rooms Schedule indicating required fire rating hours.</p>	<p>Fire rated construction for rooms are indicated in drawing, please see drawing sheet no. STA-AR-A-OS/ON-0600/0601. Intumescent coating is only used for steel structural members of glass shaft elevator from B1F to B3F.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
26.	<p>CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1126 (7) ,1126(8) ,</p> <p>CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 B / 1126 (7) ,1126(8)</p> <p>MEP Technical Specifications, Section 1126</p>	<p>As per Technical Specifications, Main Distribution Frame Panel (MDF) and Distribution Frames (IDF) are by Telephone service provider. However, it is still reflected in Bid Bulletin No.5, Revised Bill of Quantities. Kindly confirm if we will still provide cost for these items. If yes, we would like to request for the technical specifications</p>	<p>1127.2.4 "MDF Room" should be corrected as "Telecom Room".</p> <p>The scope of the telephone service provider should be clearly shown in the relevant drawings. Demarcation NOTE in MEP drawings shall be modified.</p> <p>Kindly refer to updated BOQ. TEL and LAN system only includes cable trays and conduits.</p>
27.	<p>CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1126 (6a) ,1126(6b) ,</p> <p>CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 B / 1126 (4a) ,1126(4b)</p>	<p>As per Technical Specifications, telephone jacks and face plates are by Telephone service provider. However, field devices such as telephone outlets are still reflected in Bid Bulletin No.5, Revised Bill of Quantities. Kindly confirm if we will still provide cost for these items. If yes, we would like to request for the technical specifications</p>	<p>The scope of the telephone service provider should be clearly shown in the relevant drawings. Demarcation NOTE in MEP drawings shall be modified.</p> <p>These are excluded in the updated BOQ.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	MEP Technical Specifications, Section 1126		
28.	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1127 (6)  CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 B / 1127 (6)  MEP Technical Specifications, Section 1127	As per Technical Specifications, "Design, supply, install, test and commission of all equipment (hardware and software), cables, materials and interfaces required to complete the Local Area Network System (LAN System) are by Telephone service provider". However, as per Bid Bulletin No.5, Revised Bill of Quantities, field devices such as LAN outlet are still reflected. Kindly confirm if we will still provide cost for these items. If yes, we would like to request for the technical specifications	The scope of the telephone service provider should be clearly shown in the relevant drawings. Demarcation NOTE in MEP drawings shall be modified.  Kindly refer to updated BOQ. TEL and LAN system only includes cable trays and conduits.
29.	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1127 (7)  CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 B / 1127 (7)	As per Technical Specifications, "Design, supply, install, test and commission of all equipment (hardware and software), cables, materials and interfaces required to complete the Local Area Network System (LAN System) are by Telephone service provider". However, as per Bid Bulletin No.5, Revised Bill of Quantities, Intermediate Distribution Frame (IDF) are still reflected. Kindly confirm if we will still provide cost for these items. If yes, we would	The scope of the telephone service provider should be clearly shown in the relevant drawings. Demarcation NOTE in MEP drawings shall be modified.  Kindly refer to updated BOQ. TEL and LAN system only includes cable trays and conduits.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	MEP Technical Specifications, Section 1127	like to request for the technical specifications	
30.	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1125 (1-7)  CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 B / 1125 (1-7)  MEP Technical Specifications, Section 1125	As per Technical Specifications, "Master Antenna Television System are by Telephone service provider". However, as per Bid Bulletin No.5, Revised Bill of Quantities, Pay Item 1125, there are line items dedicated for MATV System such as Cable Ladders, riser cables, conduits, field devices such as TV Outlets, MATV Head End Equipment and Pullbox. Kindly confirm if we will still provide cost for these items. If yes, we would like to request for the technical specifications	The scope of the telephone service provider should be clearly shown in the relevant drawings. Demarcation NOTE in MEP drawings shall be modified.  Kindly refer to updated BOQ. MATV is already excluded.
31.	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1123 (7)  CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 B / 1123 (7)	Please provide reference plans for the new line item in Revised BOQ at Bid Bulletin No.5, "Tunnel Fireman's Telephone including necessary controls, conduits and wirings as required".	BOQ based the pay item on the following drawing STN-MEP-FPS-TUN8-3111; 3112; 2101
32.	Bill of Quantities Bill 5A, Bill of Quantities Bill 5B,	Please clarify which type of fire extinguishers will be used since there are conflict between the Original BOQ, Revised	BOQ in GBB10 followed latest plans and Fire Extinguisher schedule

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																																																		
	STN-MEP-FPS-CWD-0102	<p>BOQ, and Plans.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="background-color: #d9ead3;">Pay Item</th> <th style="background-color: #d9ead3;">Original BOQ</th> <th style="background-color: #d9ead3;">Revised BOQ</th> <th style="background-color: #d9ead3;">As Per Plan</th> </tr> </thead> <tbody> <tr> <td>1202(8)</td> <td>FEX - Clean gas type, 4.54kg</td> <td>FEX - CO2 type, 4.54kg</td> <td>FEX - Clean Gas Type, 4.54kg</td> </tr> <tr> <td>1202(6)</td> <td>WFEX - ABC class, 22.68kg</td> <td>WFEX - Dry chemical type, ABC class, 22.68kg</td> <td>WFEX - Foam Type, 22.68kg</td> </tr> <tr> <td>1202(8)</td> <td>WFEX - Clean gas type, 22.68kg</td> <td>WFEX - CO2 type, 22.68kg</td> <td>WFEX - Clean Gas Type, 22.68kg</td> </tr> </tbody> </table>	Pay Item	Original BOQ	Revised BOQ	As Per Plan	1202(8)	FEX - Clean gas type, 4.54kg	FEX - CO2 type, 4.54kg	FEX - Clean Gas Type, 4.54kg	1202(6)	WFEX - ABC class, 22.68kg	WFEX - Dry chemical type, ABC class, 22.68kg	WFEX - Foam Type, 22.68kg	1202(8)	WFEX - Clean gas type, 22.68kg	WFEX - CO2 type, 22.68kg	WFEX - Clean Gas Type, 22.68kg	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="5">Portable fire extinguisher, including supporting frames or brackets and all other necessary accessories</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>1202(9)</td> <td>FEX - Dry Chemical type, ABC class, 4.54kg</td> <td>pc</td> <td>88.00</td> </tr> <tr> <td>1202</td> <td>1202(7)</td> <td>FEX - CO2 type, 4.54kg</td> <td>pc</td> <td>21.00</td> </tr> <tr> <td>1202</td> <td>1202(8)</td> <td>WFEX - Foam Wheeled, ABC class, 22.68kg</td> <td>pc</td> <td>1.00</td> </tr> <tr> <td>1202</td> <td>1202(7)</td> <td>WFEX - CO2 type, 22.68kg</td> <td>pc</td> <td>1.00</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="5">Portable fire extinguisher, including supporting frames or brackets and all other necessary accessories</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>1202(9)</td> <td>FEX - Dry Chemical type, ABC class, 4.54kg</td> <td>pc</td> <td>79.00</td> </tr> <tr> <td>1202</td> <td>1202(8)</td> <td>FEX - Clean Gas type, 4.54kg</td> <td>pc</td> <td>17.00</td> </tr> <tr> <td>1202</td> <td>1202(9)</td> <td>WFEX - Dry chemical type, ABC class, 22.68kg</td> <td>pc</td> <td>1.00</td> </tr> <tr> <td>1202</td> <td>1202(8)</td> <td>WFEX - Clean Gas type, 22.68kg</td> <td>pc</td> <td>1.00</td> </tr> </tbody> </table>	Portable fire extinguisher, including supporting frames or brackets and all other necessary accessories					1202	1202(9)	FEX - Dry Chemical type, ABC class, 4.54kg	pc	88.00	1202	1202(7)	FEX - CO2 type, 4.54kg	pc	21.00	1202	1202(8)	WFEX - Foam Wheeled, ABC class, 22.68kg	pc	1.00	1202	1202(7)	WFEX - CO2 type, 22.68kg	pc	1.00	Portable fire extinguisher, including supporting frames or brackets and all other necessary accessories					1202	1202(9)	FEX - Dry Chemical type, ABC class, 4.54kg	pc	79.00	1202	1202(8)	FEX - Clean Gas type, 4.54kg	pc	17.00	1202	1202(9)	WFEX - Dry chemical type, ABC class, 22.68kg	pc	1.00	1202	1202(8)	WFEX - Clean Gas type, 22.68kg	pc	1.00
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33.	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1122 (2)	<p>Kindly clarify if whose scope is the supply and installation of 400mm2 Copper Strip Grounding Mat. As per Specs, Schematic Diagram and Electrical Revised BOQ (Bid Bulletin No.5), it is by Civil Scope. However, it is not reflected on Civil Structural and Architectural Pay Item/BOQ.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="background-color: #d9ead3;">Description</th> <th style="background-color: #d9ead3;">Tech Specs</th> <th style="background-color: #d9ead3;">Plans</th> <th style="background-color: #d9ead3;">Electrical BOQ</th> <th style="background-color: #d9ead3;">Civil BOQ</th> </tr> </thead> <tbody> <tr> <td>400mm2 Copper Strip</td> <td>By Civil Contractor</td> <td>Not reflected</td> <td>By Civil Contractor</td> <td>Not reflected</td> </tr> </tbody> </table>	Description	Tech Specs	Plans	Electrical BOQ	Civil BOQ	400mm2 Copper Strip	By Civil Contractor	Not reflected	By Civil Contractor	Not reflected	BOQ followed the Tech Specs showing "By Civil Contractor"																																																								
Description	Tech Specs	Plans	Electrical BOQ	Civil BOQ																																																																	
400mm2 Copper Strip	By Civil Contractor	Not reflected	By Civil Contractor	Not reflected																																																																	
34.	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1121 (a) / Bill 5B / 1121 (a) 01_CP104_P1_S(IA)_ (BF- BOQ)_16Sep2020_rev / Bill 8	<p>As per Original BOQ, there is a separate Bill for Tunnel Lighting System (Bill 8). However, in Revised BOQ (Bid Bulletin No.5), there is a new line item for Tunnel Lightings and outlets reflected in Bill 5A and Bill 5B. Kindly confirm if both items are the same. If yes, please verify if we will still consider the Bill 8 (Tunnel Lighting System).</p>	5A/5B BOQ excluded Tunnel Lighting System based on the scope of works																																																																		
35.	STN-MEP-ELL-ON-2012	As per BOQ, Lighting fixtures for A1, A5 and B1 has no	DB schedule and Dialux report need to be referred for																																																																		

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	CP104 BOQ table_10Dec2020_Bill.No.2,3, 4,5 / Bill 5 A / 1118 (a) / 1118 (b) / 1118 (li) / 1118 (lk) / 1118 (ll) / 1118 (lm)	wattage ratings. But as per plan, each type of lighting fixture has a designated wattage ratings, e.g. Type A1 has a wattage rating of 53 Watts and 34 Watts, which has different cost. Kindly advise which wattage will be considered in the cost.	quantity and wattage of fixture.

Volume III Part 2 : Works Requirements  
Section VI Works Requirements General Specifications (GS)

36.	GS 189 Appendix 1 9.4 a) vii) Final Integration Test FIT shall be carried out at the end of Operation and Maintenance period. The Contractor shall perform full system diagnostics test to demonstrate that the system is fully functional and have been properly maintained.	Please provide the requirements of the timing and duration of the Operation and Maintenance Period.	Deleted Appendix 2 _9.4 a) vii) FIT (Final Integration Test)
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**Metro Manila Subway Project Phase 1**  
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
Volume III Part 2 : Works Requirements Section VI Works Requirements Technical Specifications (TS)			
1 Civil			
37.	Vol. II, Part 2: Works Requirements/ Technical Specifications (TS), 1: Civil Works (General) p. 53 p. 86 301- Bituminous Prime Coat Basis of Payment "Not Used."  Bill of Quantities (BOQ) a part of Section IV, Bidding Forms p. BOQ-208 & 211 Part D: Building Works/ D.1 Structural Works Item 310(1)- PCC Pavement (Unreinforced), m <sup>3</sup>	Pages BOQ-208 and BOQ-211:  1) There are Pay Items 301(1) with incorrect item description, and with quantities while it is indicated "not used" in technical specification.  2) There are Pay Items description of "PCC Pavement (Unreinforced)" but Item Nos. are incorrect.  Are these clerical errors only? Please clarify.	These are clerical errors only.
38.	Vol. II, Part 2: Works	Pages BOQ-208 and BOQ-211:	These are clerical errors only.



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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>Requirements/Technical Specifications (TS), 1: Civil Works (General) p. 90 Part 4 BRIDGE CONSTRUCTION Not Used.”</p> <p>Bill of Quantities (BOQ) a part of Section IV, Bidding Forms p. BOQ-208 &amp; 211 Part D: Building Works D.1 Structural Works</p>	<p>There are Pay Items 400(1), 400(2), 400(5), 400(6), 405(2), 402(1&amp;2), 405(1), and 414 but Part 4- Bridge Construction is indicated “not used” in technical specification.</p> <p>Please clarify.</p>	
39.	<p>BOQ Bill No. 4A &amp; 4B 1811 Aluminum Composite Panel Cladding</p>	<p>Please provide the drawings describing the scope of the Aluminum Composite Panel Cladding.</p>	<p>Please refer to drawing sheet no. STA-AR-A- ON-9060 “Detail-C”.</p> <p>Aluminum panels are used only at entrance locations.</p> <p>Refer to TS Section 18112.1.3 and Pay Item 1811 (3)</p>

<b>Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	No drawings describing scope of the paint finish are found in both the North and South Stations.		
40.	BOQ Bill No. 4A, 4B 1811 & Bill No. 7A 1039 Aluminum Composite Panel Cladding at the Stations and Pedestrian Bridge There are no specifications for the Aluminum Composite Panel Cladding found.	Please provide the specifications for the Aluminum Composite Panel Cladding.	<u>Bill No. 4A, 4B 1811</u> Refer to drawing sheet STN-AR-A-OS-9180, Detail A regarding Aluminum Coping describe in TS Section 1039.2.1 with Pay Item 1039  Refer to drawing sheet STA-AR-A- ON-9060, Detail-C regarding Aluminum Ceiling Panel describe in TS Section 18112.1.3 with Pay Item 1811 (3)
41.	TS2 Arch p604 to p606 1811.2.1 Armstrong Aluminum Ceiling Panels: CLG-1, CLG-2, CLG-3, CLG-6, CLG-7 Manufacturer: Armstrong or approved equal or better.	We are unable to contact the manufacturer: Armstrong since their website show "Armstrong World Industries, Inc. has completed the sale of its EMEA and Pacific Rim businesses." Kindly provide us the contact and email address which are very reliable because these ceilings are very complicated due to ceiling depths as well as earthquake zone, and therefore probably be extremely expensive.	Material can be acquired/referenced to other suppliers that has similar or better specifications as indicated.  Just for only Bidder's reference, below is the contact of Armstrong ceiling solutions brought by Knauf. Anthony B. Vargas, Country Manager Philippines. Email: <u><a href="mailto:Vargas.Anthony@knaufmarketing.com">Vargas.Anthony@knaufmarketing.com</a></u>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
42.	TS2 Arch p296 to p299 1018.6.1 Granite Stones: FLG-01, FLG-01, FLG-02, FLG-03, FLG-04, GTL-01, GTL-02, GTL-03, GTL-04, GTL-05, SKT-01, In-laid Granite Stone Directional Symbol with Metal Trim, Granite Stone Threshold Manufacturer: Kaufmanstone or approved equal or better.	The requirements are proprietary specifications. Therefore there will be no competitiveness in prices. Please specify other granite stones which the bidders are able to select from a list of approved manufacturers in order to make prices competitive and to avoid increase of the project cost.	Granite stone can be referred to other suppliers that has equal or better materials specifications matching the stones indicated. Bidders can select/nominate different supplier/ Manufacturer as long as the size and color of granite stone match the specifications. "Approved equal or better" is indicated in the stone specifications to avoid reference to single supplier/Manufacturer.  Possible other comparative suppliers are "Euroasia" and "MultiRich" for your selection of competitive price. Just for Bidderr's/ contractor's reference only.
2 Architecture			
43.	Vol. II, Part 2: Works Requirements/Technical Specifications (TS), 2: Architecture p. 54 Part 8: Earthwork  Item 802	Pages BOQ-208 and BOQ-211:  There is Item 802 (1) with item description of "Fill and Backfill", and with quantities while in the Technical Specification, Item 802 (1) is Unsuitable Excavation.  Please clarify.	Item 802 (1) Unsuitable soil not applicable.  Pay Item 802(1) tagged as "Not Used "on TS in GBB 10

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Excavation Item 802(1)- Unsuitable Excavation in Cubic Meter  Bill of Quantities (BOQ) a part of Section IV, Bidding Forms p. BOQ-208 & 211 Part A: Earthworks		
44.	Arch P175 1004.2.4 12)  VI DWG Arch Master Keys DWG Nos. STN-AR-A-ON/OS-7007 to7011  The second last note in the drawings indicate "CONTRACTOR SHALL	Please advise us how many group masters keys and grand master keys you require.	Minimum of 4 master keys for each group, and 4 keys for grand master keys

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>PROVIDE 10 COPIES OF MASTER KEYS".</p> <p>However Item 12) of the specifications state the followings: "In general, provide for grand master keying. Provide at least 4 keys for each lock, 4 master keys for each group of locks, and 4 grand master keys, unless otherwise requested by the Employer."</p>		
45.	<p>TS2 Arch p176 &amp; p181 1004.2.4 17) 1004.3.3 11)</p> <p>BOQ Bill No. 4 Aluminum Thresholds with Sealant The specifications state the followings: "In accordance with BHMA A156.21;</p>	<p>Despite of the statement in the specifications, there are no aluminum thresholds with the sealant in Bill No. 4. Kindly provide the pay items and quantities.</p>	<p>Thresholds provided are similar to the floor finish where the door is located. Refer to Pay item:</p> <p>1018 (5) b9 Glazed Ceramic Tile – 200mm Threshold 1018 (3) a3 Granite Stone Honed Finish – 200mm Threshold 1020 (3) Vinyl Tile – 200mm Threshold BOQ References: OSS 1018 (5) b9 Glazed Ceramic Tile – 200mm Threshold</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																				
	fabricated to full width of opening indicated. Thresholds shall be in aluminum at exterior and interior doors and installed complete with lead shields using stainless steel screws, except washroom doors to have stone thresholds.” and “Thresholds: Set thresholds for exterior doors, and other doors indicated within the approved door hardware schedule and indicated on the Drawings, in full bed of sealant in accordance with requirements specified in TS Section 1815 Sealants.”		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1018</td> <td style="text-align: center;">1018 (5) b9</td> <td style="text-align: center;">Glazed Ceramic Tile - 200mm Threshold</td> <td style="text-align: center;">lm</td> <td style="text-align: center;">19.95</td> </tr> </table> <p>1018 (3) a3 Granite Stone Honed Finish – 200mm Threshold</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1018</td> <td style="text-align: center;">1018 (3) a3</td> <td style="text-align: center;">Granite Stone Honed Finish - 200mm Threshold</td> <td style="text-align: center;">lm</td> <td style="text-align: center;">11.58</td> </tr> </table> <p>ONS</p> <p>1018 (5) b9 Glazed Ceramic Tile – 200mm Threshold</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1018</td> <td style="text-align: center;">1018 (5) b9</td> <td style="text-align: center;">Glazed Ceramic Tile - 200mm Threshold</td> <td style="text-align: center;">lm</td> <td style="text-align: center;">24.80</td> </tr> </table> <p>1018 (3) a3 Granite Stone Honed Finish – 200mm Threshold</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1018</td> <td style="text-align: center;">1018 (3) a3</td> <td style="text-align: center;">Granite Stone Honed Finish - 200mm Threshold</td> <td style="text-align: center;">lm</td> <td style="text-align: center;">30.20</td> </tr> </table>	1018	1018 (5) b9	Glazed Ceramic Tile - 200mm Threshold	lm	19.95	1018	1018 (3) a3	Granite Stone Honed Finish - 200mm Threshold	lm	11.58	1018	1018 (5) b9	Glazed Ceramic Tile - 200mm Threshold	lm	24.80	1018	1018 (3) a3	Granite Stone Honed Finish - 200mm Threshold	lm	30.20
1018	1018 (5) b9	Glazed Ceramic Tile - 200mm Threshold	lm	19.95																			
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1018	1018 (3) a3	Granite Stone Honed Finish - 200mm Threshold	lm	30.20																			
46.	VI TS2 Arch p291 & p302 1018.5, 2), 1018.5.2, 2) & 1018.6.2, 2) Granite Wall Tile - Dry Cladding The headings for sub-clauses 1018.5,	Please confirm which heading is correct.	Follow plans regarding granite tile installation methodology.  BOQ considered dry cladding.																				

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE										
	2) and 1018.5.2, 2) are Granite Wall Tile -Dry Cladding.  On the other hand, the heading for sub-clause 1018.6, 2) is  Granite Wall Tile - Wet Cladding		Addendum for TS: Update specifications for 1018.6.2.2 to Granite Wall Tile- Dry Cladding										
47.	TS2 Arch p346 & p381 DWG  BOQ Bill No. 1027( 1032 1027.2.1 1032.2.1 Smooth Plaster Cement Finish under Painting Finishes Neither the sub-clauses 1027.2.1 nor 1032.2.1 of the specifications include the cement plaster finish under the painting.	May we consider that the cement plaster finish under painting shall be included in pay items 1027(1) Cement Plaster Finish in Bill No. 4?	We consider in BOQ under separate pay item no. 1027 (1) Cement plaster finish.  BOQ References:  ONS 1027 (1) Cement plaster finish <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">1027</td> <td style="width: 10%;">1027 (1)</td> <td style="width: 60%;">Cement Plaster Finish</td> <td style="width: 10%;">m2</td> <td style="width: 10%; text-align: right;">35,840.80</td> </tr> </table> OSS 1027 (1) Cement plaster finish <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">1027</td> <td style="width: 10%;">1027 (1)</td> <td style="width: 60%;">Cement Plaster Finish</td> <td style="width: 10%;">m2</td> <td style="width: 10%; text-align: right;">25,404.51</td> </tr> </table>	1027	1027 (1)	Cement Plaster Finish	m2	35,840.80	1027	1027 (1)	Cement Plaster Finish	m2	25,404.51
1027	1027 (1)	Cement Plaster Finish	m2	35,840.80									
1027	1027 (1)	Cement Plaster Finish	m2	25,404.51									

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	DWG Nos. STN-AR-A-ON/OS-9002 indicate 20mm thick plaster under PLT-02 Acrylic Polyurethane Paint		
48.	<p>TS 02 Arch P26 to P34 P732 to P747 C01.3 and Appendix 2 Mock-up Requirements</p> <p>We have compiled the mock-up requirements into 3D models in the attachment No. 1 and a facility which will house the mock-ups required as per the specifications. It shows that CP 104 contractor will require a three story facility approximately 60m long x 30m wide x 16 high. Some requirements are as follows:</p> <p>1) Mock-up 2: Mock-up for Ortigas South Entrance require visual mock-</p>	<p>We find these mock-up requirements are unreasonable and excessively expensive for the Employer. We request that you either remove these mock-up requirements since each section of the architecture specification describes mock-up requirement required for the section, or that you please revise the requirements to the reasonable sizes and items.</p> <p>Please see Attachments to this RFC Set No 14 relating to this RFC.</p>	<p>Bidder should provide cost for the Mockup requirements specified in the Bidding documents. Size of the mockups shall be based on the drawing details</p>



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<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	<p>up which shall have width and length equal to the actual entrance building with 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.</p> <p>2) Mock-up 4: Mock-up for Ortigas South Escalator at B1F Level including columns, walls, floors, gallery walls, ceiling, doors, shutters, tactile, balustrade, glass partition, smoke curtain, supply and return air grills, and other required mechanical and electrical equipment, lighting fittings, signage, etc.</p> <p>3) Mock-up 5 - Mock-up for Ortigas South Escalator at B3F Level</p>		

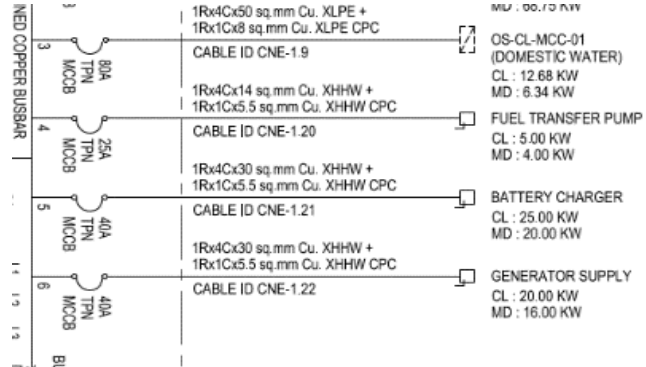
**Metro Manila Subway Project Phase 1  
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	<p>including columns, walls, floors, gallery walls, ceiling, doors, shutters, tactile, balustrade, glass partition, smoke curtain, supply and return air grills, and other required mechanical and electrical equipment, lighting fittings, signage, etc.</p> <p>4) Mock-up 1 - Mock-up for Ortigas South Toilet and Ticket Office; A full-scale mock-up of a room of each toilet and ticket to contain all architectural elements and a set of mechanical and electrical fittings including, but not limited to, water closet, lavatory-booth, washbasin counter, vanity mirror, faucet, and lighting fittings.</p> <p>5) Ventilation Tower Louvers at Entrance 2 in Mock-up 2 - Mock-up for Ortigas South Entrance - 1</p> <p>(1) A full-scale mock-up of a set of</p>		

**Metro Manila Subway Project Phase 1  
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	louvers 6) Signage fixture prepared for each of the elements of the signage works including the under laying steel structure, other architectural components, and mechanical and electrical components involved		
49.	VI TS2 280 1018.2.1 4) CTL-01 Wall Tile Size: 1200 x 600 x 10mm. Color: Mozzaico Ruvido Grigio or as approved equal or better.	We received the following comments from the specified supplier:  1. Ruvido Grigio tile is ceramic tile.  2. They do not recommend to use for the size 1200 x 600 x 10mm because the standard size of this tile is 300 x 300 x 10mm. They doubt if the manufacturer would produce this size for Ruvido Grigio tile which is ceramic tile that is not strong such as porcelain tile. They cannot communicate with the manufacturer due to Chinese New Year holidays as of this writing.  Please allow us to use the size of 300 x 300 x 10mm, or specify other tiles from porcelain tiles.	Please check with other suppliers as stated in specs 'approved equal or better'
3. Mechanical, Electrical and Plumbing			

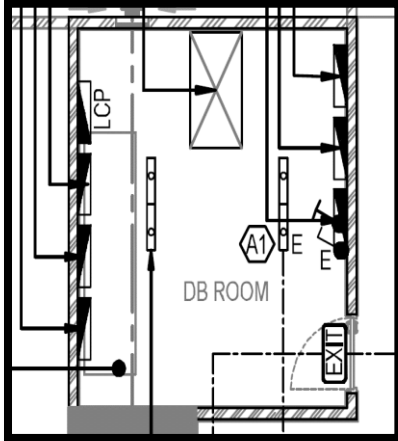
**Metro Manila Subway Project Phase 1**  
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
50.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1241.2.3	Please clarify the starter for the controller to be used if wye-delta closed transition or wye-delta open transition.	If it is inertial type of load, open transition type shall be used. If it is frictional type of load, then closed transition shall be used.
51.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1121  Bill of Quantities, Bill 5A and Bill 5B, Item 1121 (a), 1121 (b), 1121 (c)	As per technical specifications, low voltage power cables shall be grade fire resistant type with low smoke and fume (LSF) and zero halogen and XLPE insulated. However, in the Bill of Quantities, low voltage power cables are XHHW. Kindly clarify which will prevail?	<p>XLPE will prevail.</p> <p>BOQ followed schematic diagram. Please confirm what will govern. Kindly refer to below plans.</p> <p>MEP Drawings and BOQ were amended in GBB10</p>  <p>As reflected on schematic diagram XHHW sizes were used. BOQ still uses XHHW.</p>

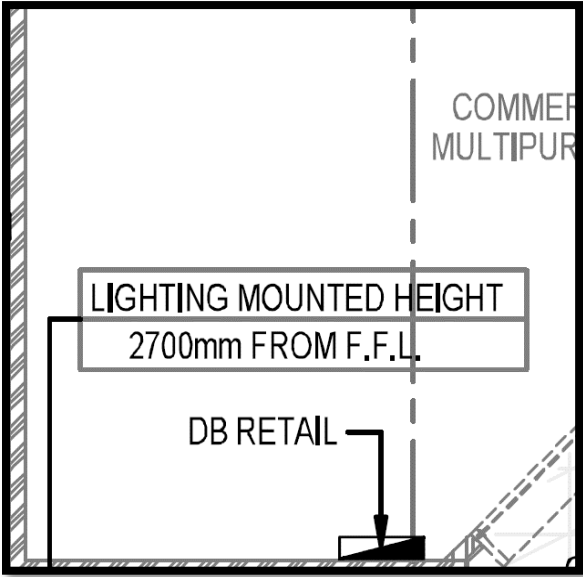
**Metro Manila Subway Project Phase 1  
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

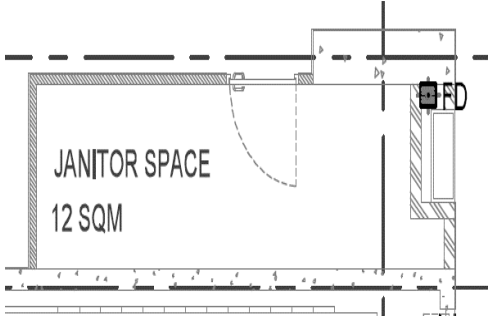
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
52.	Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1123.3.3	Please confirm if no duct smoke detectors are to be considered. No duct smoke detector units were on FDAS or Mechanical Plans but mentioned in the technical specifications.	Required Duct Smoke Detectors Near Supply & return air ducts of AHU's.  Refer to the latest MEP Drawings & BOQ

Volume III Part 2 : Works Requirements  
Section VI Works Requirements Employer's Drawings (DRW)

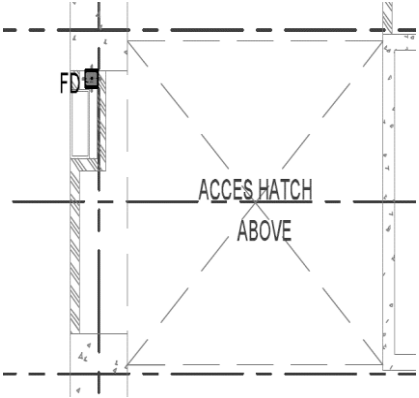
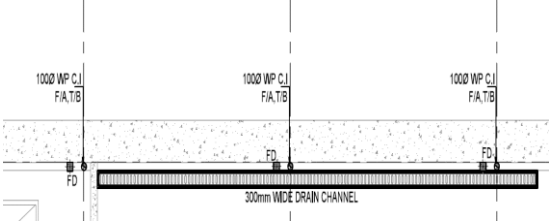
<p>53.</p> <p>Ortigas North Station STP-MEP-ELL-ON-3111 STN-MEP-ELL-ON-3115 STN-MEP-ELL-ON-3122 STN-MEP-ELL-ON-3124 STN-MEP-ELL-ON-3131 STN-MEP-ELL-ON-3134 Bill of Quantities Bill 5A, Item 1113 (1bd and lbe ) Ortigas South Station STN-MEP-ELL-OS-3111 STN-MEP-ELL-OS-3113 STN-MEP-ELL-OS-3114 STN-MEP-ELL-OS-3122</p>	<p>Please provide Lighting Control Panel Load Schedule for both Station.</p> 	<p>LCP shall be consisting of relay to operate presence detector of lighting circuits fed from various lighting DBs. Please note there shall not be any different lighting circuit inside the LCP. Lighting DB schedules is included under Electrical drawings (OS-2007 to 2052 and ON-2007 to 2046). Bidder also needs to refer to the latest BOQ</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: yellow; width: 50px;"></td> <td>Lighting Control Panel (LCP); including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxiliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-OS-3100 to 3244</td> </tr> <tr> <td style="background-color: yellow; text-align: center;">1113</td> <td>Lighting Control Panel (LCP)</td> </tr> </table>		Lighting Control Panel (LCP); including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxiliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-OS-3100 to 3244	1113	Lighting Control Panel (LCP)
	Lighting Control Panel (LCP); including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxiliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-OS-3100 to 3244					
1113	Lighting Control Panel (LCP)					

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	STN-MEP-ELL-OS-3124 STN-MEP-ELL-OS-3131 STN-MEP-ELL-OS-3134		
54.	Ortigas North StationSTP-MEP-ELL-ON-3111STN-MEP-ELL-ON-3211Ortigas South StationSTN-MEP-ELL-OS-3114STN-MEP-ELL-OS-3214	Kindly provide details for this panel.  	Outgoing distribution of Retail DB is unknown only 6 Way TPN DB has been considered.
55.	STN-MEP-PLD-OS-3231	Kindly verify/provide drainage piping layout and sizes of floor drain located near the janitor space (Grid B-5) at Platform Level Ortigas South Station.	Pipe routing for platform level FD comes in Under-platform level, Under-platform level is under Civil scope which is stated in Drainage Layout & Schematic.

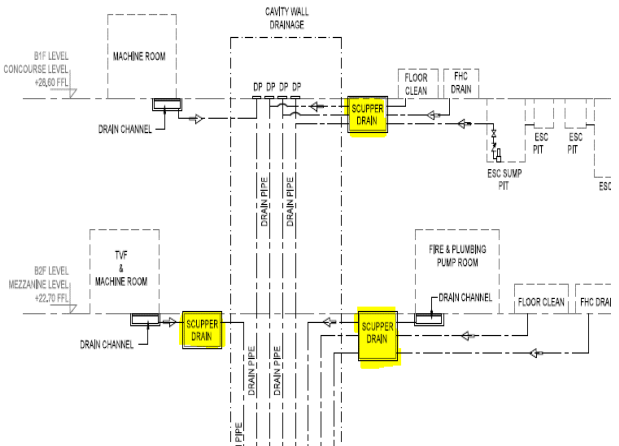
<b>Metro Manila Subway Project Phase 1 PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)</b>			
<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
			
56.	STN-MEP-PLD-OS-3233	Kindly verify/provide drainage piping layout and size of floor drain located at Ortigas South Station near Staircase 6 (Grid B-19) at Platform Level.	Pipe routing for platform level FD comes in Under-platform level, Under-platform level is under Civil scope which is stated in Drainage Layout & Schematic
57.	STN-MEP-PLD-OS-3234	Kindly verify/provide drainage piping layout and size of floor drain located at Ortigas South Station near Access Hatch (Grid B-32) at Platform Level.	Pipe routing for platform level FD comes in Under-platform level, Under-platform level is under Civil scope which is stated in Drainage Layout & Schematic

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

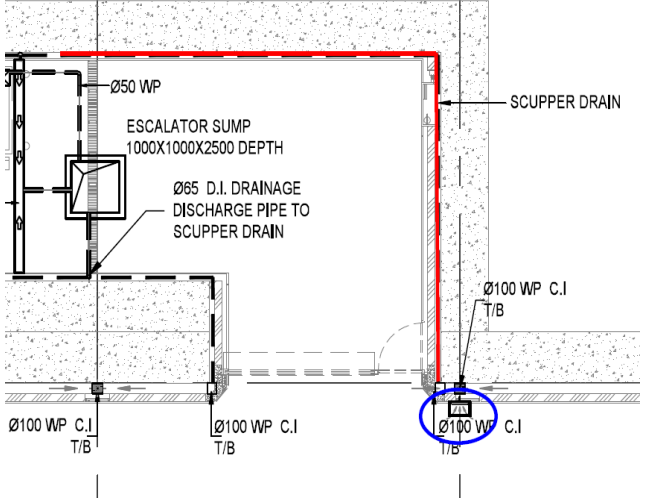
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
58.	STN-MEP-PLD-OS-3221	<p>Kindly provide/verify the drainage piping layout from the 300mm wide drain channel located at Ortigas South Station Mezzanine Level (Grid A-7)</p> 	There will be no piping to drain, water from 300mm wide drain channel. From 300mm drain channel it will goes to nearby FD directly
59.	STN-MEP-PLD-ON-2201 STN-MEP-PLD-OS-2201	Kindly verify what type of scupper is shown. Also, provide detailed drawing.	Details of Scupper drain is in Arch. Scope, Refer STN-AR-A-ON-9180 for details



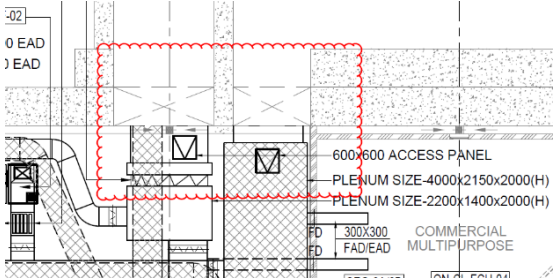
**Metro Manila Subway Project Phase 1**  
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		 <p>The diagram illustrates the drainage layout for two levels: B1F (Concourse Level, +26.50 FFL) and B2F (Mezzanine Level, +22.70 FFL). Key components include Machine Rooms, T/F &amp; Machine Rooms, Fire &amp; Plumbing Pump Rooms, and various drainage fixtures like scupper drains, floor clean drains, and floor clean drains. A cavity wall drainage system is also shown. Two scupper drains are highlighted in yellow, and a pipe is highlighted in red.</p>	
60.	STN-MEP-PLD-ON-3212	<p>Kindly confirm if our understanding that the item shown below is a scupper drain (encircled in blue) and the item with red highlight is the pipe. If yes, what is the size of the pipe.</p>	<p>Rectangle marked in blue is not scupper drain, highlighted red item is not a pipe</p>

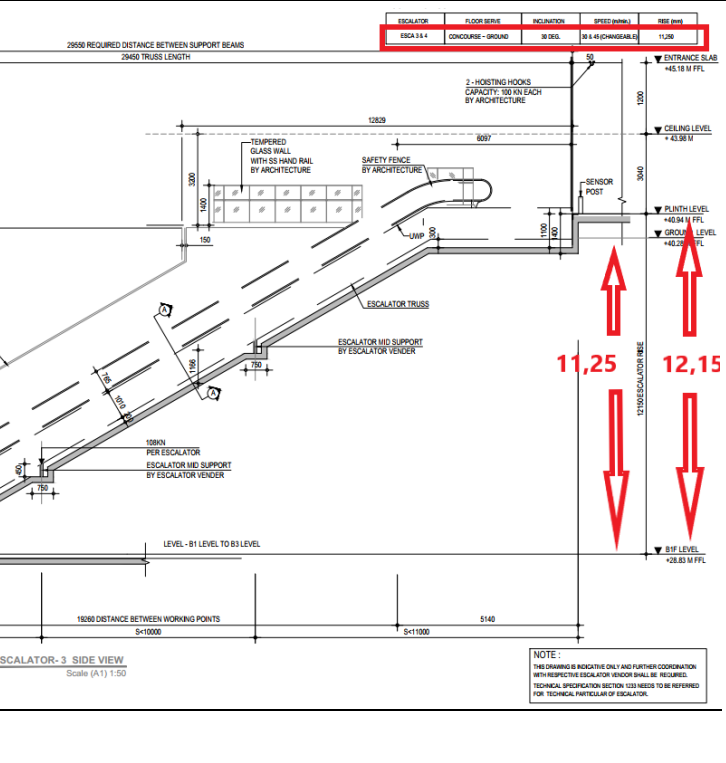
**Metro Manila Subway Project Phase 1**  
**PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)**

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
61.	STN-AR-A-ON-1003 to STN-AR-A-ON-1004  STN-MEP-P-PLD-ON-3231 to STN-MEP-P-PLD-ON-3246	Kindly verify the number of Floor Drain at Platform and Underplatform level, based on Architectural Plan it was two (2), but on the Drainage Plan, it is only one (1) FD. And also, please provide the piping layout from the FD to the Waste Stack.	No FD at platform and under platform level.
62.	Ortigas North Station STN-MEP-VAC-ON-3111 - Concourse Level Plan	Please provide details of opening of EAD, FAD provided. Please confirm if there is louver?	There is no louver at concourse level.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
63.	STN-MEP-VAC-OS-3827	<p>In reference to Escalator Rise, the plan lay-out shows 12.15meters of rise. However, in the same plan, the escalator summary shows an escalator rise of 11.25meters. Which will prevail?</p>	<p>Escalator rise shall be 12150 mm</p> <p>Bidder to refer to the information below, And bidder to understand the drawing before making such query.</p>

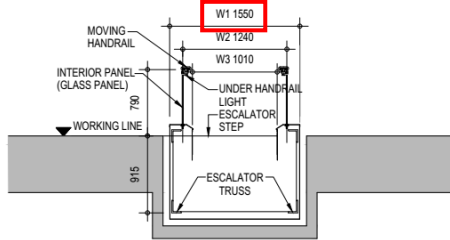
Metro Manila Subway Project Phase 1  
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			

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

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE										
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64.	Bill of Quantities Bill 5B, Item 1233 (1)  MEP-VAC-OS-3825, MEP-VAC-OS-3826, MEP-AR-A-OS-1001	Please clarify which of the following conflict items shall prevail: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%;">Description</th> <th style="width: 25%;">As per MEP Plan</th> <th style="width: 25%;">As per Architectural Plan</th> <th style="width: 25%;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td>South Station ESCA 2 Step width</td> <td style="text-align: center;">1010 mm</td> <td style="text-align: center;">1000 mm</td> <td style="text-align: center;">1550 mm</td> </tr> </tbody> </table>	Description	As per MEP Plan	As per Architectural Plan	As per BOQ	South Station ESCA 2 Step width	1010 mm	1000 mm	1550 mm	Escalator step width shall be minimum 1000 mm. However, BOQ description provides total width of escalator requirements including housing.		
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	MEP-VAC-OS-3828, MEP-VAC-OS-3829, STN-AR-A-OS-1003	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 25%;">Description</th> <th style="width: 25%;">As per MEP Plan</th> <th style="width: 25%;">As per Architectural Plan</th> <th style="width: 25%;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td>South Station ESCA 3 Step width</td> <td>1010 mm</td> <td>1000 mm</td> <td>1550 mm</td> </tr> </tbody> </table>	Description	As per MEP Plan	As per Architectural Plan	As per BOQ	South Station ESCA 3 Step width	1010 mm	1000 mm	1550 mm	<p>escalator requirements including housing. Please refer to the MEP Plan Drawing below</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">METRO MANILA SUBWAY PROJECT PHASE1</td> <td style="padding: 5px;">DATE August 2020</td> </tr> <tr> <td style="text-align: center; padding: 5px;">PACKAGE CP 104</td> <td style="padding: 5px;">SCALE AS SHOWN</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 5px;"><b>Ortigas South Station Escalator No. 3 (Sheet 2)</b></td> </tr> <tr> <td style="padding: 5px;">DRG No. STN-MEP-VAC-OS-3828</td> <td style="padding: 5px;">SHEET No.</td> </tr> <tr> <td style="padding: 5px;">DRG S.</td> <td style="text-align: right; padding: 5px;">REV 4</td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><b>NOTE :</b> THIS DRAWING IS INDICATIVE ONLY AND FURTHER COORDINATION WITH RESPECTIVE ESCALATOR VENDOR SHALL BE REQUIRED. TECHNICAL SPECIFICATION SECTION 1233 NEEDS TO BE REFERRED FOR TECHNICAL PARTICULAR OF ESCALATOR.</p> </div> <div style="text-align: center;">  <p style="text-align: center;">SECTION A-A - Scale (A1) 1:25</p> </div>	METRO MANILA SUBWAY PROJECT PHASE1	DATE August 2020	PACKAGE CP 104	SCALE AS SHOWN	<b>Ortigas South Station Escalator No. 3 (Sheet 2)</b>		DRG No. STN-MEP-VAC-OS-3828	SHEET No.	DRG S.	REV 4
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**Metro Manila Subway Project Phase 1**  
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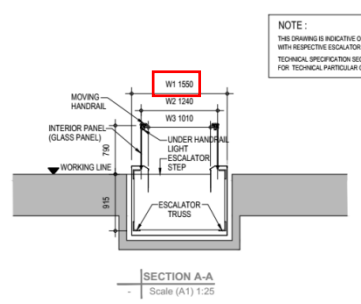
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DRG S.	REV 4												
66.	Bill of Quantities Bill 5B, Item 1233 (1)  MEP-VAC-OS-3831, MEP-VAC-OS-3832, STN-AR-A-OS-1002, STN-AR-A-OS-1003	Please clarify which of the following conflict items shall prevail: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%;">Description</th> <th style="width: 25%;">As per MEP Plan</th> <th style="width: 25%;">As per Architectural Plan</th> <th style="width: 25%;">As per BOQ</th> </tr> </thead> <tbody> <tr> <td>South Station ESCA 4-5 Step width</td> <td style="text-align: center;">1010 mm</td> <td style="text-align: center;">1000 mm</td> <td style="text-align: center;">1550 mm</td> </tr> </tbody> </table>	Description	As per MEP Plan	As per Architectural Plan	As per BOQ	South Station ESCA 4-5 Step width	1010 mm	1000 mm	1550 mm	Escalator step width shall be minimum 1000 mm. However, BOQ description provides total width of escalator requirements including housing.		
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67.	Bill of Quantities Bill 5B, Item 1233 (1)STN-MEP-VAC-OS-3834, STN-MEP-VAC-OS-3835, STN-AR-A-OS-1004 to STN-AR-A-OS-1005	Please clarify which of the following conflict items shall prevail:	Escalator step width shall be minimum 1000 mm. However, BOQ description provides total width of escalator requirements including housing. Please refer to the MEP Plan Drawing below										



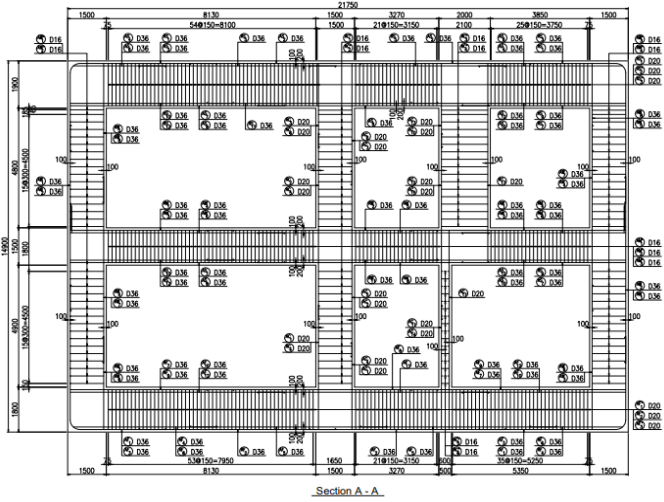
**Metro Manila Subway Project Phase 1**  
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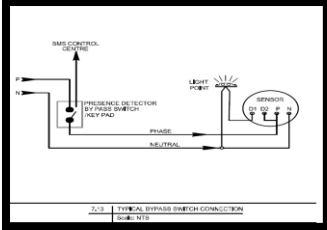
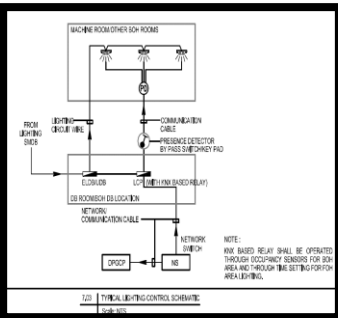
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	DRG S. <span style="float: right;">REV 4</span>												
68.	STN-CE-OS-0436	Based on the bid drawings provided. We noticed that there are no details of stirrups/ ties for Ventilation Shaft, also Slab and Wall reinforcement details of Entrance 01. May we request for the detailed drawings/blow-up reinforcement.	<p>There are no detail for stirrups as the detail design still has not completed yet.</p> <p>For bidding pricing, please refer to the quantity of Steel bar in BOQ 2008(5) for each station.</p>										

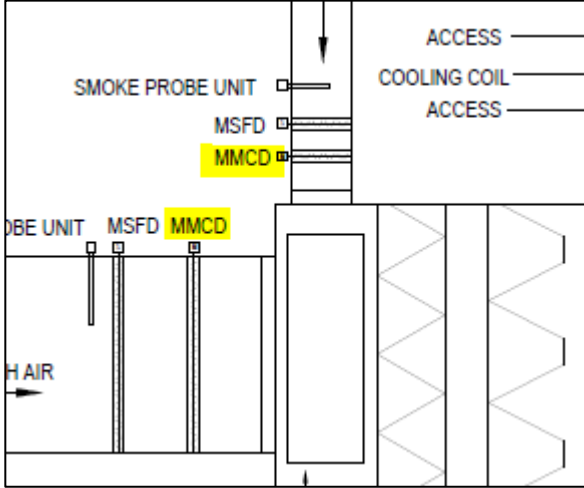
**Metro Manila Subway Project Phase 1**  
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		 <p style="text-align: center;">Section A - A</p>	
69.	<p>Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1113.4.2</p> <p>STN-MEP-ELL-OS-2007 to STN-MEP-ELL-OS-2052</p> <p>STN-MEP-ELL-OS-3210 to STN-MEP-ELL-OS-3215</p>	<p>Please provide Schedule of Loads for OS-CL-PDB-03 since it is reflected in EL Small Power Layout - Concourse Level and Bill of Quantities.</p>	<p>Refer to STN-MEP-ELL-OS-2035</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Bill of Quantities 1113 5B, Item 1113		
70.	STN-MEP-ELL-CWD-1004	<p>As per our understanding this figure 7.13 is a stand alone setup for occupancy sensor, while figure 7.03 is a digital system setup. Please provide the zones applicable for each setup.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	<p>There are two control points of lighting distribution of a level one at right side electrical room another one at left side. However, presence detector coverage 7m for small room 14m bigger room to switch on/off light fixtures.</p>
71.	STN-MEP-BMS-CWD-1013 STN-MEP-BMS-CWD-1014	<p>Please provide sequence of operation for the Tunnel Ventilation Fan and Motorized Smoke and Fire Damper.</p>	<p>Tunnel Ventilation operation Conditions are shown in the Drawings: STN-MEP-BMS-OS-3761,3762,3763 &amp; STN-MEP-BMS-ON-3771,3772,3773</p>
72.	STN-MEP-VAC-CWD-0104	<p>In reference to the detail sheet for Air Handling Unit with mixing box, what is the abbreviation of MMCD?</p>	<p>MEP drawing was updated to show the Air Handling Unit with mixing box. Please refer to STN-MEP-VAC-CWD-1106-0.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
73.	STN-MEP-FPS-TUN8-3111 STN-MEP-FPS-TUN8-3112 STN-MEP-FPS-TUN9-3111	In tunnel wet standpipe and hose system layout there are no reference dimension reflected. Please provide.	All the equipment related dimensions are shown in the drawings: - STN-MEP-FPS-TUN8-2101 & STN-MEP-FPS-TUN9-2101.
74.	STN-MEP-PLD-ON-4105 STN-MEP-FPS-ON-4101 STN-MEP-PLD-OS-4105 STN-MEP-FPS-OS-4101	As per supplier, their standard panel size, for a Stainless Steel Water Tank, ranges from 0.5meter to 1 meter. However, as per plan, there are sizes that do not meet the standard range, e.g. 3.4meters. Please verify if we can alter/ propose the following dimensions:	Yes, Proposed size of water tank can be used.

**Metro Manila Subway Project Phase 1**  
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75.	Bill 5A/5B Pay item No. 1237 (5) STN-MEP-PLD-ON-5101/ STN-MEP-PLD-OS-5101	<p>In reference to Bid Bulletin No.5, Revised BOQ, the quantity for Water Heater (SL No.2 to 4) does not match the equipment schedule. Please clarify which quantity will prevail.</p> <p>As per BOQ:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 70%;">DESCRIPTION</th> <th style="width: 10%;">UNIT</th> <th style="width: 20%;">QTY</th> </tr> </thead> <tbody> <tr> <td>Electric water heater; 15L capacity; horizontal wall mounted, 1.5kW; 3ph; 380V; 60Hz, ref SL no.2 to 4</td> <td>pc</td> <td>5.00</td> </tr> </tbody> </table>	DESCRIPTION	UNIT	QTY	Electric water heater; 15L capacity; horizontal wall mounted, 1.5kW; 3ph; 380V; 60Hz, ref SL no.2 to 4	pc	5.00	<p>BOQ updated following latest equipment schedule. Please see screenshot below.</p> <p>OSS - BOQ</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;">Description</th> <th style="width: 10%;">Quantity</th> <th style="width: 10%;">Unit</th> <th style="width: 20%;">Remarks</th> </tr> </thead> <tbody> <tr> <td>Water heater; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1237(5) Electric water heater; 25L capacity; horizontal wall mounted, 2kW; 3ph; 380V; 60Hz, ref SL no.1</td> <td>2</td> <td>pc</td> <td></td> </tr> <tr> <td>1237(5) Electric water heater; 15L capacity; horizontal wall mounted, 1.5kW; 3ph; 380V; 60Hz, ref SL no.2 to 4</td> <td>5</td> <td>pc</td> <td></td> </tr> </tbody> </table> <p>OSS - Equipment Schedule</p>	Description	Quantity	Unit	Remarks	Water heater; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described				1237(5) Electric water heater; 25L capacity; horizontal wall mounted, 2kW; 3ph; 380V; 60Hz, ref SL no.1	2	pc		1237(5) Electric water heater; 15L capacity; horizontal wall mounted, 1.5kW; 3ph; 380V; 60Hz, ref SL no.2 to 4	5	pc																																																							
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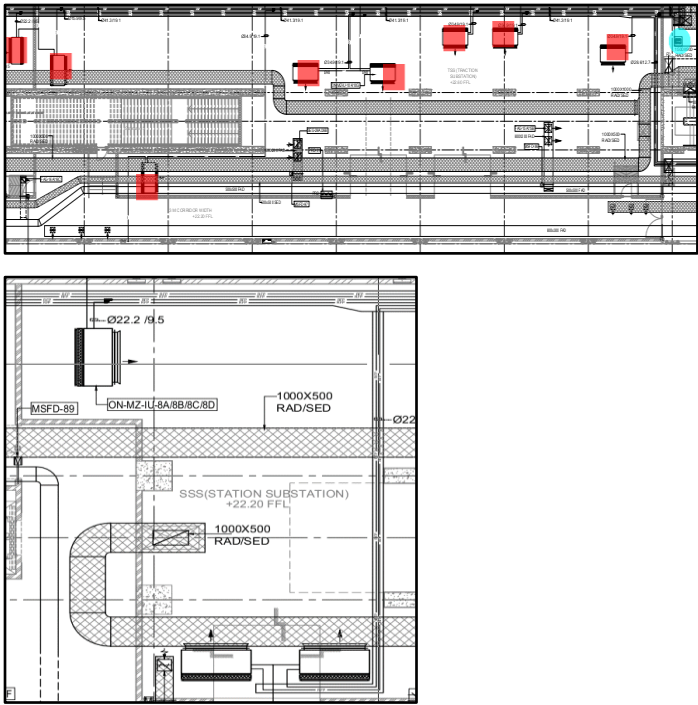
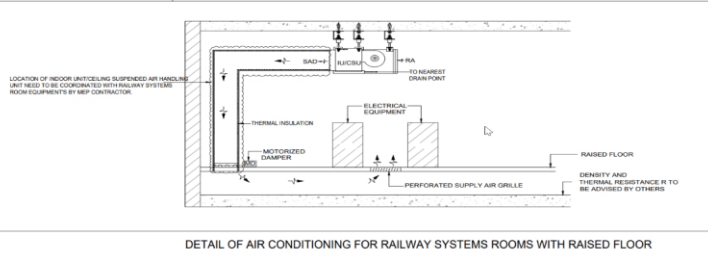
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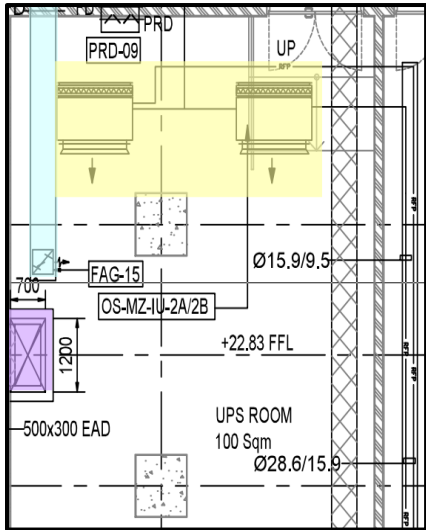
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76.	STN-MEP-VAC-ON-3123 and STN-MEP-VAC-ON-3124	<p>Please verify if there is a need for airconditioning ductworks and air terminals for the following Ceiling Concealed unit:</p> <p>1.ON- MZ- IU- 2A/2B (2 UNITS) 2.ON-MZ- IU-8A/8B/8C/8D (4 UNITS) 3.ON-MZ-IU-10A/10G (7 UNITS)</p> <p>If yes, please provide detailed ducting layout with specific Air terminal Grille Size.</p>	<p>Railway System is differet scope.</p> <p>Ductwork and Air terminals details shall be updated "by contractor" once system layouts are availabe.</p> <p>Typical detail VAC-CWD 1104 should include the detail.</p> <p>Lumpsum line items shall be included in the BOQ for the tentative ductwork inside system rooms.</p>																					



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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			 <p style="text-align: center;">DETAIL OF AIR CONDITIONING FOR RAILWAY SYSTEMS ROOMS WITH RAISED FLOOR</p>
77.	STN-MEP-VAC-OS-3122	<p>Please verify if there is a need for airconditioning ductworks and air terminals for the following Ceiling Concealed unit:</p> <ol style="list-style-type: none"> <li>1.OS- MZ- IU- 2A/2B (2 UNITS)</li> <li>2.OS-MZ- IU-8A/8B/8C (3 UNITS)</li> </ol>	<p>This is excluded from BOQ based on the scope of works</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE

Volume IV. Part 3 - Conditions of Contract and Contract Forms

78.	Section VIII Particular Conditions (PC) PC-10 6. Professional Indemnity Insurance	May the Employer and the Contractor agree to an appropriate insurance in case the PI Insurance for major temporary works not accepted by the global reinsurance market?	It would be acceptable if the Bidder proves the PI Insurance for major temporary works not accepted by the global reinsurance market
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<b>ITEM NO.</b>	<b>REFERENCE/CLAUSE/SECTION</b>	<b>QUERIES</b>	<b>RESPONSE</b>
	GBB No.6 Item no.21		