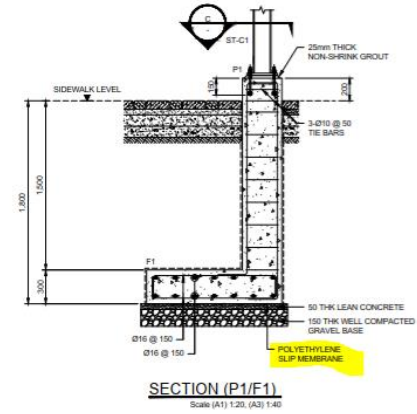


Metro Manila Subway Project Phase 1
PACKAGE CP104: (ORTIGAS NORTH AND ORTIGAS SOUTH)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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Volume IA Part 1 : Bidding Procedures
Section IV Bidding Form-Bill of Quantities (BOQ)

1.	<p>Bill No. 6A & 6B 1016 Fiber Reinforced Asphalt Emulsion at Station Plaza Neither drawings nor specifications are found.</p>	<p>Please provide the drawings and specifications describing the fiber reinforced asphalt emulsion at the Station Plazas.</p>	<p>Fiber Reinforced Asphalt emulsion was updated into Polyethylene Sheet Membrane. Please see below screenshot of revised BOQ submitted last 17 December 2020.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 80%;">Waterproofing</td> <td style="width: 20%;"></td> </tr> <tr> <td>Polyethelene Slip Membrane</td> <td style="text-align: right;">m2</td> </tr> </table> <p>Please refer to SPL-S-BS-ON-3012 for details.</p> <div style="text-align: center; margin-top: 20px;">  <p>SECTION (P1/F1) Scale (A1) 1:20 (A2) 1:40</p> </div>	Waterproofing		Polyethelene Slip Membrane	m2
Waterproofing							
Polyethelene Slip Membrane	m2						
2.	<p>Bill No. 6A & 6B 1032 Paint Finish at Station Plaza No drawings describing scope</p>	<p>Please provide the drawings describing the scope of the paint finish with specifications at the Station Plazas.</p>	<p>Paint finish to walls, columns and piers were paint finish for assumed for fence. While paint finish to structural steel members were assumed finish for the bus bay shelter.</p>				

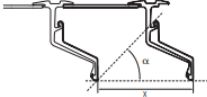
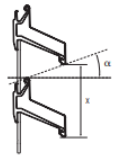
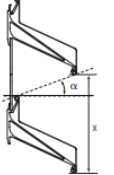
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE												
	of the paint finish are found in the Station Plazas.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td>Paint Finish</td> <td></td> </tr> <tr> <td>1032</td> <td>1032(a)</td> <td>to walls, column and piers</td> <td>m2</td> </tr> <tr> <td>1032</td> <td>1032(a)</td> <td>to structural steel members</td> <td>m2</td> </tr> </table>			Paint Finish		1032	1032(a)	to walls, column and piers	m2	1032	1032(a)	to structural steel members	m2
		Paint Finish													
1032	1032(a)	to walls, column and piers	m2												
1032	1032(a)	to structural steel members	m2												
3.	<p>Bill No. 7A: BOQ-217 and 7B: BOQ 219</p> <p>Signage at Pedestrian Bridges</p> <p>The item in Bill No. 7A describes as follows: "Signages Identification signs, Information signs, Fire/Emergency signs and Wayfinding/Directional signs".</p> <p>However, neither drawings indicating signs nor specifications are found.</p>	Please provide us the drawings and specifications for the signage.	<p>Signages at Pedestrian Bridges were tagged as N/A due to absence of plans.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td>Signages</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="background-color: yellow;"></td> <td style="background-color: yellow;"></td> <td>Identification signs, Information signs, Fire/Emergency signs and Wayfinding/Directional signs</td> <td>Is</td> <td></td> <td>N/A</td> </tr> </table> <p>Architectural TS Section 1813 is identified as "Not Used".</p>			Signages						Identification signs, Information signs, Fire/Emergency signs and Wayfinding/Directional signs	Is		N/A
		Signages													
		Identification signs, Information signs, Fire/Emergency signs and Wayfinding/Directional signs	Is		N/A										
4.	<p>Bill No. 7A: BOQ-215 2305(3)</p> <p>DWG SPL</p>	Please tell us which one is correct. Please also provide the specifications for this louver.	<p>BOQ submitted last 21 April 2020 shows below description.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>1804</td> <td>1804 (1)</td> <td>Standard Fixed Extruded Mullion Louver</td> <td>m2</td> </tr> </table> <p>However, material description in TS shows aluminum</p>	1804	1804 (1)	Standard Fixed Extruded Mullion Louver	m2								
1804	1804 (1)	Standard Fixed Extruded Mullion Louver	m2												

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Louver at PEDESTRIAN BRIDGE No. 1 (Bill No. 7A) DWG Nos. SPL-PB1-A-ON-2015, 2 DETAIL indicates STEEL LOUVER. However, Bill No. 7A describes Aluminum Louver		<p style="text-align: right;"><small>Dimensions of connection and fixings shall be as indicated in the Drawings.</small></p> <p>1804.2.2 Materials</p> <ol style="list-style-type: none"> 1) Aluminum: JIS H4100, Aluminum and Aluminum-alloy Extruded Shapes; and JIS A5757 & 5758 2) Sealant: Extruded sections must meet ASTM B429, G102, alloy as specified. Manufacturer's standard, non-corrosive, compatible with louver material and building material. 3) Insect Screen: Stainless Steel, minimum 14/18 size mesh, removable. <p>Architectural Drawings description to be revised.</p> <p>Aluminum extruded louvers are available and typically used on exterior areas for ventilation due to material performance.</p> <p>Typical details shown below:</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE																																				
			<p>CARRIER SYSTEMS</p> <p>A variety of carrier systems is available allowing the optimal solution for each application:</p> <ul style="list-style-type: none"> - the self supporting extruded SLR-40/60/60V/100 and the direct mount SLR-10 with different modules due to different spacers and brackets. <p>Each solution has its own modulation and shading angle.</p> <p>See page 6 - 7 for a complete overview of carrier systems suitable for 70S and 132S.</p> <p>MATERIAL</p> <p>The 70S and 132S panels are roll formed from 0.6 mm pre-painted (Luxacote® system) stove enamelled aluminium strip of corrosion resistant alloy EN-AW-3005.</p> <p>The SLR-carrier system, brackets and spacers are aluminium extruded profiles.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>SHADING ANGLES - Horizontal</p>  <p>70S</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Spacer</th> <th>x</th> <th>α</th> </tr> </thead> <tbody> <tr> <td>48 mm</td> <td>75</td> <td>67°</td> </tr> <tr> <td>63 mm</td> <td>90</td> <td>57°</td> </tr> <tr> <td>88 mm</td> <td>115</td> <td>44°</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <p>SHADING ANGLES - Vertical</p>  <p>70S</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Spacer</th> <th>x</th> <th>α</th> </tr> </thead> <tbody> <tr> <td>48 mm</td> <td>70</td> <td>0°</td> </tr> <tr> <td>63 mm</td> <td>85</td> <td>20°</td> </tr> <tr> <td>88 mm</td> <td>110</td> <td>43°</td> </tr> </tbody> </table> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>SHADING ANGLES - Vertical</p>  <p>132S</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Spacer</th> <th>x</th> <th>α</th> </tr> </thead> <tbody> <tr> <td>88 mm</td> <td>132</td> <td>0°</td> </tr> <tr> <td>126 mm*</td> <td>170</td> <td>22°</td> </tr> <tr> <td>176 mm**</td> <td>220</td> <td>42°</td> </tr> </tbody> </table> </div> <div style="width: 45%; font-size: small;"> <p>*1 126 mm (2 x 63 mm) - ** 176 mm (2 x 88 mm)</p> </div> </div> <p>SHADING ANGLES - Angled</p> <p>The shading angle of a sun control system mounted under an angle is different to a horizontal projected system. For each individual mounting angle the shading angle can be calculated by our project support team (also for combined systems).</p>	Spacer	x	α	48 mm	75	67°	63 mm	90	57°	88 mm	115	44°	Spacer	x	α	48 mm	70	0°	63 mm	85	20°	88 mm	110	43°	Spacer	x	α	88 mm	132	0°	126 mm*	170	22°	176 mm**	220	42°
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Volume III Part 2: Works Requirements
Section VI Works Requirements Technical Specifications (TS)

2 Architecture

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
5.	<p>TS2 Architecture p176 s1004.2.4 15) & p181. 1004.3.3 12) BOQ Bill No. 4 Door stops The specifications state the followings: “Wall- and Floor-Mounted Stops: In accordance with BHMA A156.16; polished cast brass, bronze, or aluminum base metal.” and “Stops: Provide floor stops for doors unless wall or other type stops are indicated in the door hardware schedule. Do not mount floor stops where they shall impede traffic. Provide overhead holders where floor- and wall-mountings are impractical.”</p>	<p>Despite of the statement in the specifications, there are no door stops in Bill No. 4. Kindly provide the pay items and quantities.</p>	<p>Door stops are required. The cost of door stops is included under each unit prices of door hardware-stets. Please refer to Annex C of this GBB.</p>
6.	<p>TS 02 P33 to P35</p>	<p>As for item (i) (1), please delete skylight and elevator landing door since no skylight and elevator</p>	<p>Please follow the drawings details in Technical Specification 2 Architecture in Annex C of this GBB.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>C01.3 5) d) Works for the Mock-ups item (i) (1) item (ii) (1) item (v) (3)</p>	<p>to be installed in this area. As for item (ii) (1), please tell us how many skylights are required. As for item (v) (3), do you require the fire shutter or just fire shutter guard rail? Kindly issue an addendum if any changes you make.</p>	<p>Please consider the fire shutter as noted in specifications</p>
7.	<p>TS 02 P34 to P35 C01.3 5) d) (v) and P741 to P742 Appendix 2 Mock-up1 - Toilet Mock-up (1) A full-scale mock-up of a room of each toilet and Ticket Office. (2) Toilet mock-ups shall include at least but not limited to wall, floor and ceiling finishing including stone linings. 1 x toilet lavatory booth with a set of water closet system and flush panel, sensor and air extract louver at recessed ceiling corner. 1 x janitor</p>	<p>Do you require the mock-up for the entire public toilet including the customer service office between GL 19 to GL 27, or can we minimize the size of the mock-up if we can satisfy the requirements described in item (2)? Please issue an addendum for any changes you make.</p>	<p>Bidder shall provide cost for the Mockup requirements specified in the Bid documents. Size of the mockups shall be based on the drawing details</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	booth with a set of cleaner's sink. 2 x urinals with flush panel, sensor and separator panel. 1 x full-scale unit of female lavatory space with washbasins counter, vanity mirror, faucet, lighting fittings and other architectural elements and a set of mechanical and electrical fittings and floor drainage, etc.		