



General Bid Bulletin No. 12
29 November 2021

METRO MANILA SUBWAY PROJECT PHASE I

**PACKAGE CP102:
TWO UNDERGROUND STATIONS (QUEZON AVENUE AND EAST AVENUE)
AND TUNNELS
(IFB No: 21-034-6)**

TO ALL PROSPECTIVE BIDDERS:

This General Bid Bulletin is issued to amend/clarify certain provisions in the Bidding Documents for the above-mentioned Project. Please refer to the attached Annexes of this General Bid Bulletin for details:

1. Annex "A" – Answers to Queries from Prospective Bidders including Clarifications to the Bidding Documents.
2. Annex "B" – Addendum to the Bidding Documents
3. Annex "C" – Revised pages of the Bidding Documents

All other portions of the Bidding Documents not affected by these revisions, amendments and/or clarifications shall remain unchanged.

Revisions/amendments/clarifications made herein shall be conserved as an integral part of the Bidding Documents of this Project

For your guidance and information.

For the Bids and Award Committee

SIGNATURE REDACTED

WEBSTER M. LAUREÑANA
Chairperson

Metro Manila Subway Project Phase 1
PACKAGE CP102 (Quezon Avenue and East Avenue)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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Volume I Part1: Bid Procedures

1.	General Bid Bulletin No. 6	Please clarify what is the Project Office Registration Fee? Where can we secure this fee?	The Bidder is reminded to follow Item 8 of GBB No.6. Details could be discussed during contract negotiation, if necessary.
2.	Page BDS-6 ITB 14.8 ITB 14.8 (Last paragraph) The Employer is in the process of finalizing a mechanism to address all COVID-19 Effects related issues and claims that it intends to use for all its ADB- and JICA-funded projects. This mechanism, once finalized, will be published in a bid bulletin.	The Bidder would like to know when the Employer is going to publish in the bid bulletin the said mechanism to address all COVID-19 effects related issues and claims for ADB and JICA-funded projects.	This will be discussed during Negotiation.
3.	BF-48, BF-50, Technical Bid: Contents No. 8 "List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment", Technical Bid: Contents No. 9 "List of Recommended Spare Parts and Special Tools to be provided upon receipt of Employer's Instruction", and	The Bidder would like to confirm its understanding that if the Bidder already provided a complete list and detailed information for Technical Bid: Contents No. 8 "List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment" and there is nothing to recommend for the Technical Bid: Content No. 9 "List of Recommended Spare Parts and Special Tools to be provided upon receipt of Employer's Instruction", then it is not necessary to fill-up or to provide details for the Technical Bid: Content No. 9 "List of Recommended Spare Parts and	The Bidder's understanding is correct. However, the Bidder is reminded to confirm if there are no recommended spare parts etc.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>BF-63, BF-66 Price Bid: Contents No. 2 "Price List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment",</p> <p>Price Bid: Contents No. 3 "Price List of Recommended Spare Part and Special Tools to be provided upon receipt of Employer's Instruction"</p>	<p>Special Tools to be provided upon receipt of Employer's Instruction".</p> <p>Same manner as above for Price Bid: Contents No. 2 "Price List of Contractual Spare Parts, Consumables and Special Tools, Jigs and Test Equipment" and Price Bid: Contents No. 3 "Price List of Recommended Spare Part and Special Tools to be provided upon receipt of Employer's Instruction".</p>	
<i>Volume IA Bill of Quantities (BOQ)</i>			
4.	<p>North Avenue Station Plaza: Interfaces A set of drawings is provided for this area and Bill 2A and 6A is provided for payment. There is no specification for this work.</p>	<p>Please provide details of the interfaces between the CP101 work on North Avenue Station and the construction of the Station Plaza by CP102. The information listed in General Specification Appendix 4 Page 4-39, Section 2.4 Station Plaza, Row 2 is needed to allow bidders to price this work.</p>	<p>Station plaza shall be CP102 scope of works. Timing of completion of entrance and ventilation shaft shall be coordinated with CP101 contractor as interface coordination.</p>
5.	<p>Trimming Works Bill No. 4A, BOQ-44, and Bill No. 4B BOQ-56 Part A Earthworks, Trimming Works No. 803</p>	<p>"Trimming Works" under PART A, EARTHWORKS is described in the BOQ-29 and BOQ-38 also No.803.4.2 Basis of Payment in the Volume 2, Architecture Technical Specification, however, bidder could not find the Technical Specification and related works location. The Bidder would like to request for the description of "Trimming Works" and related works</p>	<p>Technical Description for "Trimming Works" shall be referred to the following clause: TS Section 803.3.2.1.2</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			<p>803.2 Products</p> <p>803.2.1 Materials</p> <p>1) General Site Fill and Embankment Material: Fill materials shall be free of debris, roots, wood, scrap material, vegetable matter, refuse, soft unsound particles, deleterious, or objectionable materials. Provide a soil material from the site or borrow that can be readily compacted to the specified densities. Materials shall be classified as GP, GM, GC, SP, SM or SW by ASTM D 2487. The Contractor shall provide all imported fill materials from approved sources.</p> <p>2) Trenches or foundation pits: for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Drawings or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown. The elevations of the bottoms of footings, as shown on the Drawings, shall be considered as approximate only and the Engineer may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary, to secure a satisfactory foundation.</p> <p>.....</p> <p>TS Section 803.3.3</p> <p>803.3.3 General Excavation and Trenching</p> <p>Keep excavations free from water while construction is in progress. Notify the Engineer immediately in writing if it becomes necessary to remove rock or hard, unstable, or otherwise unsatisfactory material to a depth greater than indicated. Sides of trenches shall not be sloped from the bottom of the trench up to the elevation of the top of the pipe. Excavate ledge rock, boulders, and other unyielding material to an over depth at least 150 mm below the bottom of the pipe and appurtenances unless otherwise indicated or specified. Over excavate soft weak soil.</p>
6.	Architectural Works (Mock-up)	The Bidder understands that the items to be mocked-up at required locations are the same	Refer to C01.3.4) k), The approved Quality Benchmark installations may be incorporated in the Permanent Works with the approval of

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	Bill of Quantities Items C01.3.1 to C01.3.6	<p>items which will be used for permanent finishing in those locations. Please confirm whether our understanding is correct or not.</p> <p>If the mock-up items are acceptable to the Engineer and comply with the Contract requirements, we understand that these mock-up items will not be removed and will become parts of the permanent works (working mock-up). Please confirm whether our understanding is correct or not.</p>	<p>the Engineer. However Mock-up Assemblies designated in Appendix 2 are required off-site locations that cannot be the Permanent Works.</p>					
7.	Bill of Quantities Item No. 1033 (3) Catwalk for Equipment Maintenance	Please provide the detailed drawings, location and quantity of the catwalk for equipment maintenance.	<p>Refer to STN-AR-A-QA-9850, STN-AR-A-EA-9850 for Out-Door units. Kindly see 1033 of BOQ.</p> <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> <td style="text-align: center;">1.00</td> </tr> </table>	1033	1033 (3)	Catwalk for Equipment Maintenance	is	1.00
1033	1033 (3)	Catwalk for Equipment Maintenance	is	1.00				
8.	1119 of Bill No. 5B	Reference is made to the Lighting Control Panel (LCP) included in the item number 1119 of Bill No. 5B. Please furnish us with the LCP single line diagram.	Necessary tender Documents are already provided. The Wet Standpipe System is considered for Tunnels.					
9.	1114 of Bill Nos. 5A and 5B	Please advise the battery rated capacity of the external battery system included in the item number 1114 of Bill Nos. 5A and 5B.	The battery rated capacity of the external battery system is 200 AH. Battery is a complete pay item under UPS. Battery rating shall be for 2 hrs backup.					
10.	Volume IA Part I Bill of Quantities (BOQ): BOQ Item "Builder's work in connection to services" BOQ Item "Builder's works in connection to services"	The Bidder would like to request the Employer to please advise what considerations should be included in costing for this pay item.	Allowance only for the tapping and connection.					
11.	Volume IA Part I Bill of Quantities (BOQ):	The Bidder would like to clarify the structure to be removed and restored. Please provide.	Your understanding is correct. Removal of structure and obstructions and Restoration at Pedestrian Bridges are not covered					

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Pedestrian Bridge - Bill of Quantities 101 (2) Removal of Structure & Obstructions and Restoration BOQ: Pedestrian Bridge - Bill of Quantities 101 (2) Removal of Structure & Obstructions and Restoration	Please confirm that removal of structure and obstructions and Restoration at Pedestrian Bridges are not covered by the Provisional Sum.	by the Provisional Sum.
12.	BOQ Bill No. 5A (BOQ-172) and 5B (BOQ-261) Tunnel Drainage System	There is no "No." nor "Pay Item No." shown in BOQ. Bidder requests the Employer to advise the relevant Drawings and Specifications regarding the said items.	Please follow TS. Updated BoQ has been aligned to the latest Technical specifications
13.	VolumeIA Part 1: Bill of Quantities (BOQ) SPL-C-RD-QA-1032 SPL-A-LA-QA-2701 SPL-A-LA-QA-2702 SPL-A-LA-QA-2703	Bidder found the discrepancy between "Paver Blocks Details" on SPL-C-RD-QA-1032 and the rest of the referred drawings: Paver Block shall be 200x100x60mm in the former drawing, while 368x50x60mm is stated in the rest of the drawings. The Sub-base shall be 200mm crushed aggregate in the former drawing, while 75mm thk well-compacted sand bed is stated in the rest of the drawings. Please clarify above, or advise otherwise. Please clarify size and sub base of paver blocks to Quezon Avenue Plaza conflict between paver block detail and section.	368x50x60 MM is correct. Construction requirements and other technical specifications shall be referred to TS 716 "CONCRETE PAVERS". Please refer to TS716.
14.	VolumeIA Part 1: Bill of Quantities (BOQ) SPL-A-LA-QA-2701 SPL-A-LA-QA-2702	Please provide detail for "Movable Planter (denoted as "E")" in the referred drawings, which state "see details" but are unable to be found.	The additional drawing to be provided. Please refer SPL-A-LA-QA-2801
15.	VolumeIA Part 1: Bill of Quantities (BOQ) SPL-A-LA-QA-2701	Please advise the details for Napolie Stone on 150mm thick reinforced concrete slab and	The additional drawing to be provided. Please refer SPL-A-LA-QA-2801

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Annex "A"

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	SPL-A-LA-QA-2702 SPL-A-LA-QA-2703	100mm thick compacted gravel base course.	
16.	VolumeIA Part 1: Bill of Quantities (BOQ) SPL-A-LA-QA-2701 SPL-A-LA-QA-2702 SPL-A-LA-QA-2703	Ref. denote "B", please provide the details for the 150mm thick reinforced concrete slab under Napolie stone	The additional drawing to be provided. Please refer SPL-A-LA-QA-2801
17.	VolumeIA Part 1: Bill of Quantities (BOQ) SPL-A-LA-QA-2701 SPL-A-LA-QA-2702	Please advise the size of the planter box, of which only the ground height is shown as 450mm in SPL-A-LA-QA- 2701, and the rest are unknown.	The additional drawing to be provided. Please refer SPL-A-LA-QA-2801
18.	VolumeIA Part 1: Bill of Quantities (BOQ) Bill 6A, Bill 6B and Bill 6C	Please advise the installation locations of the "bollard" indicated in BOQ for North Avenue Plaza, Quezon Avenue Plaza and East Avenue Plaza.	It will be installed beside the hydrant. Please refer to SPL-WS-NA-6014, SPL-WS-NA-6001- 6003 (note: please refer to similar drawings for Quezon Avenue and East Avenue stations). For East Avenue, please also refer to SPL-C-SD-EA-1005.
19.	VolumeIA Part 1: Bill of Quantities (BOQ) SPL-S-BS-QA-3012 Bill No.6B	Bidder found the discrepancy that the waterproofing to footing at bus shelter is stated as "polyethylene slip membrane" in the drawings, while it is specified as "fiber reinforced asphalt emulsion" in Pay Item No. 1016 of Bill No. 6B. Please clarify.	Polyethylene slip membrane should govern.
20.	Bill of Quantities Bill No.5A (Tunnel Drainage System)	Please provide Sanitary and Plumbing layout for the tunnel at Quezon Avenue and East Avenue.	No sanitary and plumbing layout for the tunnel at Quezon Avenue and East Avenue. The drainage system in the tunnel is included in the Civil drawing.
21.	BOQ Bill 5A and 5B Pay item 1210 (1)	Please provide technical specifications for Automatic Tube Cleaner.	No Automatic Tube Cleaner
22.	BOQ Bill 5A and 5B Pay item 1237(4) STN-MEP-PLD-QA-5101	There is conflict with the Electric Water Heater rated voltage and power between Equipment Schedule and BOQ for Quezon Ave Station. Please confirm which will prevail.	Please refer to the latest STN-MEP-PLD-QA-5101.
23.	BOQ	There is conflict with the Make up water Pump	0.7 L/s is correct. Please refer to the latest STN-MEP-PLD-QA-

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Annex "A"

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Bill 5A and 5B Pay item 1201(1) STN-MEP-PLD-QA-5101	Capacity between Equipment Schedule and BOQ for Quezon Ave Station. Please confirm which will prevail.	5101.
24.	BILL NO. 5A and BILL NO. 58 - Pay Item No. 1211(5)	Please provide dimension, quantity, location or schedule sheet for the Pressure relief grille.	Pressure relief grilles (PRG) are reflected in BoQ under mechanical ventilation and pressurization systems, pay item number 1211(5). Quantity, dimension, and location of PRG are reflected in the revised schedule of VAC drawing no. STN-MEP-VAC-EA-5105
25.	Bill of Quantities; Bill 5A & 5B; Pay Item No. 1202(5)	Please confirm if there is no sidewall sprinkler head as it is not shown on plans but listed on BOQ	Sidewall Sprinklers are provided in Dormitories and Janitor Rooms at Platform level.
26.	BILL NO. 5A - Pay Item no. 1218 (1) STN-MEP-VAC-QA-5101	Please clarify the flow rate of WCC- Condenser Water Pump (QA-MZ-CDWP-01,02, & 03) due to conflict on BOQ and Equipment Schedule.	This has been revised and will be issued as an addendum.
27.	Bill No.6A - Station Plaza (North Avenue station) Bollards bill 6A miscellaneous structure. BILL NO. 6A - STATION PLAZA (NORTH AVENUE STATION) Bollards	May we request for the locations of the bollards as well as the bollard diameter.	It will be installed beside the hydrant. Please refer to SPL-WS-NA-6014, SPL-WS-NA-6001- 6003. Its diameter is shown in SPL-C-RD-NA-1032.
28.	Bill No.6A - Station Plaza (North Avenue station) Napolie stone 100x100x13MM 100x100x13MM BILL NO. 6A - STATION PLAZA (NORTH AVENUE	Kindly provide the locations of the items listed.	Please refer to SPL-C-SD-NA-1005 "PAVER BLOCK"

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	STATION) Napolie Stone 100x100x13MM Granito Tile 100x100x13MM		
29.	Bill of Quantity (BOQ) - Bill No. 5B Item no 1237(4) STN-MEP-PLD-KP-5101	Please confirm if an electric water heater rated at 220V single phase is acceptable in case suppliers could not offer 380V 3phase.	EWH should be 380V
30.	Sprinkler Heads (Pendent and Upright)	Please verify the quantities of upright and pendant sprinkler heads in the BOQ if these are not interchanged in Quezon Avenue Station. Compared with East Avenue Station, there is only a small variance between the BOQ and verified quantities.	Please refer to the updated BOQ.
31.	Fire Hose Box	Please confirm if there is no fire hose box at Quezon Avenue Station as it is not shown on plans but with pay item in the BOQ.	Please refer to the updated BOQ.
32.	Bill of Quantity (BOQ) Pay Item 1014 (1) b2 Pay Item 1015-A	Please provide the Technical Specs for the following pay items as these items are not included in the Technical Specs. 1. Pre painted GI roofing 2. Solid Polycarbonate Roof Sheets	Please refer to the spec of Architecture.
33.	BOQ: BILL NO. 5A - STATIONS E & M WORKS	Kindly provide the quantity for exit lighting in Quezon Avenue Station.	Please refer to the updated BOQ.
34.	BOQ: BILL NO. 5A, 5B - STATIONS E & M WORKS	Kindly provide the quantity for the following: Bill 5A: 1109 (3) - 400mm2 Bare copper conductor	Please refer to the updated BOQ.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		1109 (4) - 20mm diameter x 3000mm long ground rod Bill 5B: 1109 (3) - 400mm ² Copper Strip 1109 (4) - 20mm diameter x 3000mm long ground rod	
35.	GBB 8, ITEM NO. 186	Reference to GBB 8, Item No. 186, please provide pay item in the BOQ for MATV System for Bill 5A and 5B.	The MATV system is already not part of the scope. Please refer to the latest Technical Specification.
36.	GBB 8, ITEM NO. 16 Bill of Quantities; Bill 5A; Pay Item No. 1124	Reference to GBB 8, Item No. 16, please provide a pay item in the BOQ for 200 x 100 Cable tray (Access Control System) for Bill 5B.	Please refer to updated BOQ
37.	GBB 8, ITEM NO. 18 Bill of Quantities; Bill 5A & 5B; Pay Item No. 1126 Technical Specifications 3: Mechanical, Electrical and Plumbing Part 1126.2.1 Scope of Supply Part 1126.3.1 Method of Measurement Part 1126.3.2 Basis of Payment STN-MEP-ELV-QA-2071 STN-MEP-ELV-EA-2044	(Our understanding is that response for ITEM no. 18 query unintentionally went to ITEM no. 194, Please confirm.) Kindly clarify our scope of work under Telephone and Broadband Distribution System due to conflicts	Their service system is already not part of the scope. Please refer to the latest Technical Specification.
38.	BOQ Bill No. 5A(BOQ-147), and Bill No.5B(BOQ-237) 1123(7) Tunnel fireman's telephone	Employer is kindly requested to provide Bidder with the relevant drawings and specifications regarding the said item.	Contractor to consider as per vendor's standard.

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Annex "A"

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	including necessary controls, conduits and wirings as required		
39.	BOQ overall	To avoid confusion, the Bidder would like to request the Employer to provide the latest version of BOQ (Bill No.1 to Bill No.10) to be used for the bid submission.	Please refer to BOQ in Attachment
40.	BOQ Bill 5A and 5B Pay item 1211 (6)	Please provide technical specifications for Fresh Air Filter.	Fresh Air Filter condition is the same as the air filter for AHU.
41.	BOQ Bill 5A and 5B No Pay item	Please provide technical specifications for Hydrogen Gas Sensor.	Hydrogen Gas Sensor is provided at the Battery Exhaust Fan to detect the leakage of the hydrogen from the battery.
42.	BOQ Pay item 2305 (4)	Pay item Painting & FireProofing for Structural Steel Frame unit of measurement is m2 in BOQ while on TS 2305 the unit of measurement is kg. Please clarify which to follow	Pay item for Painting & FireProofing for Structural Frame in BOQ will govern, that is m2.
43.	Bill of Quantity (BOQ) - Bill No. 7A Quezon Avenue Station Bill of Quantity (BOQ) - Bill No. 6B Quezon Avenue Station Fiber reinforced asphalt emulsion	Please specify location of application/installation of this Pay Item.	Please follow the quantity shown in BOQ.
44.	Bill of Quantity (BOQ) - Bill No. 7A Quezon Avenue Station Polyethylene sheet; 6mil	Please specify location of application/installation of this Pay Item.	Please follow the quantity shown in BOQ.
45.	Bill of Quantity (BOQ) - Bill No. 7A Quezon Avenue Station	Please specify location of application/installation of this Pay Item.	Please follow the quantity shown in BOQ.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Item No. 1823 Wire Mesh framed angle bar		
46.	Bill of Quantity (BOQ) - Bill No. 6B Quezon Avenue Station Item No. 603-A Bollards	Location of bollards is not indicated on drawings. Please specify the location of this Pay Item.	It will be installed beside fire hydrants. Please refer to SPL-WS-QA-6014.
47.	Bill of Quantity (BOQ) - Bill No. 4A Item No. 1047(2) Structural Steel	Please specify location/ drawing no./ sheet no. where this Pay Item is considered since the quantity we're getting from the drawings are only a fraction of the BOQ Quantity.	Structural Steel is considers the following 1. Outdoor Area (Equipment Area) 2. For Elevators 3. Ceiling Hangers
48.	Bill of Quantity (BOQ) - Bill Bill No. 6C Item No. 600 (1)	Kindly provide locations for the following items in Bill No. 6 - East Ave. Plaza 600(1) - Curb and Gutter (Type 1) 600(1) - Curb and Gutter (Type 2)	Please refer to the cross section shown in SPL-C-RD-EA-1026.
49.	Details for Retaining Wall for Type-1 Fence - East Ave. Plaza	Kindly provide the details for the Retaining Wall for Type-1 Fence as shown in SPL-C-F-EA-1013.	Please refer to latest updated BOQ
50.	Bill of Quantity (BOQ) Pay Item 1013 (2c) Pay Item 1013 (2) a2	Kindly specify the gauge/thickness and technical specifications for Gutter	Gauge/thickness shall be as per manufacturer's standard and recommendation. For Gutter/trunking specification, refer to Section 1117.
51.	Bill of Quantity (BOQ) Bill 6B Pay Item 414	Bill 6B Station Plaza Pay Item 414 - Forms and Falseworks unit of measurement is lump sum as stated. We would like to clarify if the unit of measurement should be in sq.m, same with the unit of measurement of other pay Item of Forms and Falseworks	Square meter is correct. Please refer to the revised BOQ.
52.	BOQ: BILL NO. 5A, 5B - STATIONS E & M WORKS	The Lighting Control Panel (LCP) has a pay item only in Bill 5B. Please provide the same for Quezon Avenue Station Bill 5A since LCPs are	Lighting Control Panes(LCP) is the same as Bill 5B/

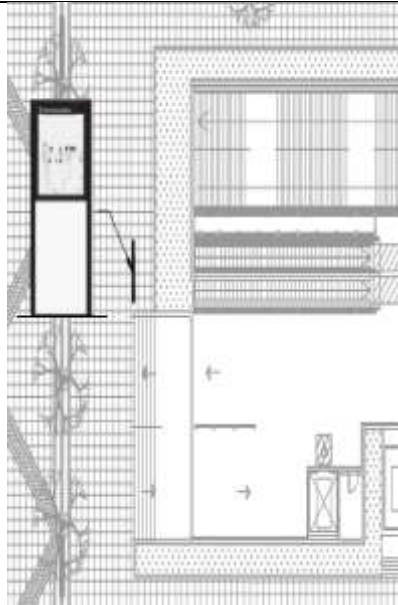
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		reflected on plans.	
53.	<p>GBB 8, ITEM NO. 196</p> <p>DWG: STN-MEP-ELL-QA-2003</p> <p>BOQ: BILL NO. 5A - STATIONS E & M WORKS (QUEZON AVENUE STATION), Item 1113, 1113 (5)</p>	<p>Kindly clarify the discrepancy of ATS size between the drawing and BOQ</p>	<p>QA : 2000A ATS , EA: 1200A ATS</p>
54.	<p>GBB 8, ITEM NO. 17</p> <p>BILL NO. 5B - Pay Item No. 1213 (2)</p> <p>STN-MEP-VAC-EA-5102</p>	<p>This is to request for clarification again regarding our query as follows due to unclear answer in GBB8, Item No. 17:</p> <p>Please provide the cooling capacity rating of the AHU unit with tagging EA-MZ-AHUDX-01. There is no indicated capacity in the BOQ and Equipment Schedule.</p>	<p>Refer to Equipment schedule.</p>
55.	<p>GBB8 ITEM NO.15</p> <p>Bill of Quantities; Bill.5A & 5B; Pay Item No. 1124</p>	<p>Reference to GBB 8, Item No. 15, please provide a pay item in the BOQ for Polyvinyl Chloride Conduit (PVC) for Bill 5A and 5B. Furthermore, please indicate sizes.</p>	<p>Refer to TS 1116 for necessary conduits specification and sizes.</p>
56.	<p>Bill 6A, 6B, 6C Item 605(1) Station Plaza Signages</p>	<p>Please clarify the location, and details of the warning signs on each station plazas, if there are any. As per initial checking, only the Emergency Vehicle sign on Quezon Avenue Station Plaza (SPL-C-RD-QA-1034) falls under the category of Warning Signs; however, BOQ quantities show that there are supposedly other Warning</p>	<p>It is counted as a warning sign. Please finalize according to the final plan during the construction stage.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		Signs in each station. (NA: 6; QA: 4; EA: 9)	
57.	Bill 6A, 6B, 6C Item 605(2) Station Plaza Signages STN-AR-A-EA-8210 to 8211 STN-AR-A-QA-8209 to 8210 STN-AR-A-EA-8257 to 8262 STN-AR-A-QA-8255 to 8260	kindly confirm if the tabulated signages are all Regulatory Signs or if some are counted as Warning Signs. If so, please identify which signs should be counted as regulatory, and which are warning signs.	Signages should follow DO-05 series 2017(DPWH) and based on this, Regulatory Signs - R1-2, R3-1, R5-4C, R5-9A, R6-8, R6-11 BOQ put all Signage under Regulatory Signs.
58.	Bill 6A Item 605(3) Station Plaza Signages	Please confirm if the sign below (left picture with red border) is an information sign, a tall symbol sign, or a pair of information and tall symbol sign (right picture) located in the same area. (See SPL-C-RD-NA-1034 to 1035)	Tall symbol signs will be installed at each staircase of entrances. It's location will be on the Mindanao Avenue side. Please finalize according to the final plan during the construction stage.
59.	Bill 6B, 6C Item 605(3) Station Plaza Signages	Kindly identify which type of informatory signs are to be installed and kindly pinpoint the exact location of each signs in each stations (QA: 2; EA: 3)	Information signs will be installed beside the staircase on each entrance. Please refer to an example at North Avenue Station. Exact location shall be finalized after re-design of the entrance.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
<p><i>Volume II Works Requirements Section VI</i> <i>Works Requirements – General Specification (GS)</i></p>			
60.	GS156 137.2 Training The Contractor shall arrange the special training program at a similar size or similar functioning of the subway system and/or part of the station before its commissioning.	Please confirm that all training can be undertaken on the CP102 site and/or at the factories providing Plant for CP102.	Please follow the bidding document. The Contractor shall arrange the special training program at a similar size or similar functioning of the subway system and/or part of the station before its commissioning.
61.	GS 68	Kindly clarify if a witness is required or just the factory acceptance test	Employers and engineers will attend the factory acceptance test.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	<p>116.4.1 Requirement for FAT Factory Acceptance Test is required prior to delivery for the following:</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); (xi) Pumps; (xii) Uninterrupted Power Supply System; (xiii) Water Tanks; and (xiv) FHU (Fire Hydrant System). 	<p>certificate/report/document.</p>	
62.	<p>GS 156 137.2(a) Training (a) Classroom theory lecture to ensure a</p>	<p>Please confirm that classroom theory lectures need not be arranged in both the factory and on the Site, but can be on the Site only.</p>	<p>Please follow the bidding document. Classroom theory lecture should be arranged to ensure a clear understanding of each system in the factory and on the Site.</p>

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	clear understanding of each system in the factory and on the Site		
63.	Table 2.2 of Appendix 4	Reference is made to Table 2.2 of Appendix 4 to the General Specifications (GS). In accordance with the item 5 of the above-referenced table, the Contractor is responsible for supply and fixing of all trackside brackets, bolts, anchors, nuts, washers, packers, shims and the like for the cable and supporting structure for the fire main, socket outlets, drainage pipes. Please provide us with the details of the brackets, bolts, anchors, nuts, washers, packers, shims and the like for our pricing.	Please estimate based on the given information provided in the Bidding documents.
64.	VI GS 28 106 4 Trial Running	Please confirm when Trial Running will take place and what role the CP102 Contractor will have in Trial Running.	Currently, the duration of trial run is 3 months subject to change depending on the test results. The CP106 and CP107 Contractor will lead this activity. The facilities and the requirements by other parties such as Civil Contractor shall be determined by CP106 & CP107 Contractor. Therefore, The Engineer and the Employer are not in a position to advise for the Civil contractor's role at this moment. Civil Contractor to discuss with CP106 & CP107 Contractor as part of the interface coordination scope during the implementation stage.
65.	VI GS 108 126.8 Combined Service Drawings	Please describe what role the CP102 and CP106 Contractors shall each play in the production of Combined Service Drawings.	The Bidder to follow the scope of work as per Employer's Requirement General Specifications Section 126.8
66.	VI GS APP4-30 2.2 20	Please confirm that the space and dimensions for the evacuation walkway will follow the Employer's Drawings.	Yes. Follow the employer's drawing

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	Space for side evacuation walkway CP107 contractor or the Engineer will provide the structure gauge of the rolling stock for the Contractor to design the evacuation side walkway. And a civil contractor will fix the walkway.		
67.	VI GS APP4-30 2.2 21 Access for CP106 Provision of access and work areas on the ground level at the Cut and Cover Structure at North Avenue Station, Quezon Avenue Station and East Avenue Station for delivery of track work material and equipment.	a) Please provide information on the location of works areas and openings in slabs required by CP106 for their work. b) Please provide dates when CP106 will no longer require the use of openings in station slabs.	The Engineer does not understand the access shaft provision for the delivery of track work material and equipment in CP102, However, we, the Engineer, acknowledge the general statement in App4. The text does not apply to the CP102 in the absence of provision of shafts for delivering of Trackwork materials and equipment (i.e, rails) at Quezon & East Avenue Station. For the general CP106 material & equipment delivery to the station for System Works to commence upon gaining access, the provision for delivery shall be discussed between CP102 & CP106 including storage of material at grade during implementation stage.
68.	GBB No. 10, Page 12 of 16, Volume II Part 2 General Specifications (GS) 130.2 Insurances, Page 139, In General Specifications (GS): 130.2 Insurances, In General Specifications (GS): 130.2 Insurances, Volume IV Part 3 Section VIII –	In GBB 10, Item no. 63, the Employer informed that Professional Indemnity Insurance (PII) of USD 25 million minimum limit is required and it shall be maintained until 2 years after the expiry of Defects Notification Period (DNP). Furthermore, the Employer also confirmed Bidder's understanding that the design scope of the Bidder/ Contractor is for temporary works only. On that note, PII of USD 25 million minimum limit and extended until 2 years after DNP is not necessary. Temporary works will be	The Bidder is required to prepare Bids complying with the requirements in Bidding Documents.It should be noted again that the Contractor will be required to carry out design of major Temporary Works as set forth in General Specification and/or Technical Specification.

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	Particular Conditions (PC) Attachment 4 – to Part A Schedule of Insurances Page PC-13 In Particular Conditions (PC): Attachment 4 – to Part A Schedule of Insurances Employer’s Response in GBB No. 10, Item No. 63: “No, Bidder’s understanding is not correct. The Bidder / Contractor is required to carry out design of major Temporary Works including temporary works for excavation of station box etc. as set forth in General Specification and/or Technical Specification. As such, the indicated Professional Indemnity Insurance is required.”	demolished soon as the permanent works are completed. Please confirm that PII is not required. Or if required for temporary works, it should not extend until DNP and the minimum limit required shall be reduced. The Employer is kindly requested to inform the revised requirement for Professional Indemnity Insurance, if any.	
69.	Warranty	We noticed in the bid documents the warranties of mostly architectural items are longer than the normal warranties being offered by the suppliers. We would like to confirm the warranties of the following work description below.	The warranty periods required in the Bidding/Contract Documents are reasonable for this important subway project. The Employer will not accept, for example, steel doors and frames, roll-up shutters and raised access floor assemblies that will be out of order in 1 year or so and granite stone panels/tiles that may be broken in 2 years or so. As such, the Contractor shall comply with the warranty period requirements set out in the Bidding/Contract Documents
<i>Volume II Works Requirements Section VI</i> <i>Works Requirements – Technical Specification (TS)</i>			

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
70.	Specification Master Clock System	As per Technical Specification Master Clock System is mentioned as part of the interface for other systems but it is not reflected in the BOQ provided. Please confirm if the Master Clock System is part of our scope.	Central master clock is provided by CP106. Any additional slave master clock or interfacing required by the civil contractor to be coordinated with the CP106.
71.	TS1 224 618.2.1 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.	It is obligatory during the maintenance period.
72.	TS3 1214.1.9 1215.1.10 1216.1.8 1217.1.6 1218.1.6 1219.1.4 Special warranty Page 417, for example; (b) Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of water units that fail in materials or workmanship within specified period.	Please confirm that all requirements for warranty in the Specifications will be subordinated to the requirements of the Conditions of Contract Clause 11 [Defects Liability] and that there is no requirement of special warranty within a special period.	The bidder's understanding is not correct. Please follow the provision of the bidding document.
73.	TS1 222 618.1 Manufacturer of Fire Protection System ... All materials and equipment in the system shall be new and current products of a manufacturer regularly engaged in the production of such materials and	The Fire Protection System components will be provided based on the specification and codes to the approval of the relevant authorities. For some equipment the supplier may require components from various manufacturers and not just a single manufacturer.	Follow the provisions of the bidding document.

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	equipment. Where two or more pieces of equipment are required to perform interrelated functions, they shall be products of one manufacturer.	Please confirm that where it proves impossible to provide components from only one supplier, then this requirement will be waived.	
74.	Internal Structure of Entrance/ Ventilation Shaft in the clause 2007.4.2. of the Technical Specifications	Whilst there is the Pay Item No.2007(6)h for Internal Structure of Entrance/ Ventilation Shaft in the clause 2007.4.2. of the Technical Specifications (TS), there is no such item in the Bill of Quantities (BOQ). Please confirm that there is no such structure to be constructed and paid under the Pay Item No. 2007 (6)h.	It is confirmed that there is no such structure to be constructed and paid under the Pay Item No. 2007 (6)h.
75.	TS2 71 BOQ 803.4.2 803 (2) Gypsum Board 140mm	“Trimming Works” under PART A, EARTHWORKS is described in the BOQ-29 and BOQ-38 also No.803.4.2 Basis of Payment in the Volume 2, Architecture Technical Specification, however, bidder could not find the Technical Specification and related works location. The Bidder would like to request for the description of “Trimming Works” and related works	Refer to TS Section 1041.2.1 shown as below

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			<p>2) IWB-01 Interior Gypsum Board Partition</p> <p>a) Description: Gypsum board partition to locations as indicated on the Drawings mounted on metal stud framing.</p> <p>b) Manufacturer: As approved by the Engineer.</p> <p>c) Framing: Galvanized steel framework made of special section power-pressed/rolled form galvanized steel sheet with zinc coating of 120 gm/sqm (both sides inclusive)</p> <p>d) Floor and Ceiling U-Tracks: 76 x 50 mm Steel U-Track, GA 25</p> <p>e) Fixing of wall studs: 0.80 mm thick, 76 mm wide having one flange of 40 mm.</p> <p>f) Insulation: Nominal 50 mm thick, 48 kg/cum density rockwool insulation.</p> <p>g) Overall Thickness: As indicated on the Drawings.</p> <p>3) IWB-02 Interior Gypsum Board (2 hours Fire Rated)</p> <p>a) Description: 2 hours fire rated gypsum board partition to locations as indicated on the Drawings mounted on metal stud framing.</p> <p>b) Manufacturer: As approved by the Engineer.</p> <p>c) Framing: Galvanized steel framework made of special section power-pressed/rolled form galvanized steel sheet with zinc coating of 120 gm/sqm (both sides inclusive).</p> <p>d) Floor and Ceiling U-Tracks: 76 x 50 mm Steel U-Track, GA 25</p> <p>e) Fixing of wall studs: 0.80 mm thick, 76 mm wide having one flange of 40 mm.</p> <p>f) Lining(s): 2 hours fire-rated lining on both sides.</p> <p>g) Insulation: Nominal 50 mm thick, 48 kg/cum density rockwool insulation.</p> <p>h) Overall Thickness: As indicated on the Drawings.</p>
76.	Technical Specifications 3: Mechanical, Electrical and Plumbing Part No. 1203.3.6.k.ii.4	Kindly clarify which elevator units shall either have a framed door with glass vision panel or stainless steel finish door for both Quezon Avenue and East Avenue Stations.	All elevator units will have a framed door with a glass vision panel as shown in drawings (STN-AR-A-QA-9700, STN-AR-A-QA-9671, STN-MEP-VAC-EA-3815, STN-MEP-VAC-QA-3815). Please refer to MEP TS 1203.3.6.k.ii.3 for door specification.

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77.	Volume II Part2 Works Requirements SectionVI Works Requirements - Technical Specification (TS)	<p>There are some discrepancies between TS,BOQ and Drawings. So we would like to clarify pipe materials described below.</p> <table border="1" data-bbox="719 501 1160 1327"> <thead> <tr> <th>Item</th> <th>Our proposal</th> <th>Spec</th> </tr> </thead> <tbody> <tr> <td>REFRIGERANT PIPING</td> <td>Cu,type L</td> <td>TS 1213.3.1 4) (a)</td> </tr> <tr> <td>CONDENSATE WATER</td> <td>Galvanized Iron (GI) ASTM A-53</td> <td>TS 1209.2.1</td> </tr> <tr> <td>CHILLED WATER</td> <td>Galvanized Iron (GI). ASTM A-53</td> <td>TS 1209.2.1</td> </tr> <tr> <td>WET PIPE SPRINKLER</td> <td>Black steel pipe, ASTM A-106 or A-53 seamless. schedule 40</td> <td>TS 1202.2.2 (a)</td> </tr> <tr> <td>TUNNEL FIRE PROTECTION</td> <td>Black steel pipe, ASTM A-106 or A-53 seamless. schedule 40</td> <td>Not mentioned</td> </tr> <tr> <td>STORM DRAINAGE</td> <td>Cast Iron Pipe Class 'C' Ductile Iron for pressurized pipe</td> <td>TS 1234.2.2 (a)&(b)</td> </tr> <tr> <td>Sanitary & Waste(Soil)</td> <td>Cast Iron Class 'C' Ductile Iron for pressurized pipe</td> <td>TS 1234.2.2 (a)&(b)</td> </tr> <tr> <td>Sanitary & Waste(Waste)</td> <td>Cast Iron Class 'C' Ductile Iron for pressurized pipe</td> <td>TS 1234.2.2 (a)&(b)</td> </tr> <tr> <td>Sanitary & Waste(Ventl)</td> <td>Cast Iron Pipe Class 'C'</td> <td>TS 1234.2.2 (a)</td> </tr> <tr> <td>Stormwater</td> <td>Cast Iron Class 'C' Ductile Iron for pressurized pipe</td> <td>TS 1235.2.2 (a)</td> </tr> <tr> <td>WATER SUPPLY</td> <td>Galvanized steel pipes schedule 40</td> <td>1237.2.2 (a)</td> </tr> <tr> <td>HOT WATER SUPPLY</td> <td>Polypropylene (PPrC) pipes PN20</td> <td>Not mentioned</td> </tr> <tr> <td>TUNNEL DRAINAGE SYSTEM</td> <td>Cast Iron Class 'C' Ductile Iron for pressurized pipe</td> <td>Not mentioned</td> </tr> </tbody> </table>	Item	Our proposal	Spec	REFRIGERANT PIPING	Cu,type L	TS 1213.3.1 4) (a)	CONDENSATE WATER	Galvanized Iron (GI) ASTM A-53	TS 1209.2.1	CHILLED WATER	Galvanized Iron (GI). ASTM A-53	TS 1209.2.1	WET PIPE SPRINKLER	Black steel pipe, ASTM A-106 or A-53 seamless. schedule 40	TS 1202.2.2 (a)	TUNNEL FIRE PROTECTION	Black steel pipe, ASTM A-106 or A-53 seamless. schedule 40	Not mentioned	STORM DRAINAGE	Cast Iron Pipe Class 'C' Ductile Iron for pressurized pipe	TS 1234.2.2 (a)&(b)	Sanitary & Waste(Soil)	Cast Iron Class 'C' Ductile Iron for pressurized pipe	TS 1234.2.2 (a)&(b)	Sanitary & Waste(Waste)	Cast Iron Class 'C' Ductile Iron for pressurized pipe	TS 1234.2.2 (a)&(b)	Sanitary & Waste(Ventl)	Cast Iron Pipe Class 'C'	TS 1234.2.2 (a)	Stormwater	Cast Iron Class 'C' Ductile Iron for pressurized pipe	TS 1235.2.2 (a)	WATER SUPPLY	Galvanized steel pipes schedule 40	1237.2.2 (a)	HOT WATER SUPPLY	Polypropylene (PPrC) pipes PN20	Not mentioned	TUNNEL DRAINAGE SYSTEM	Cast Iron Class 'C' Ductile Iron for pressurized pipe	Not mentioned	Please follow TS. Updated BoQ has been aligned to the latest Technical specifications
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78.	VolumeII Part2 Works Requirements SectionVI Works Requirements - Technical Specification (TS) 1212.2 Products, and 1213.3 Execution	With regard to Insulation, there are some uncertain points among TS, BOQ and Drawings. Please advise whether Bidder can assume insulation materials described as follows.	Please follow TS. Updated BoQ has been aligned to the latest Technical specifications

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79.	<p>TS3 Mechanical Electrical, Plumbing: Fire Pump Section 1241.2.1 (g)</p> <p>Bill of Quantities Bill 5A, Item 12411 (1)</p>	<p>Please clarify the Pump Capacity and Pump Head requirement for Main Fire Pump, which will prevail:</p>	<p>MEP Equipment Schedule shall prevail for Pump Head Requirement. QA Station BOQ :</p> <div style="border: 1px solid green; padding: 5px; margin: 5px 0;"> <p>QA-B3-MFP-01; Main fire pump; horizontal split case pump; electric motor driven; 238CMH @ 95 head MWC TDH; 123.84kW motor rating; 380V, 3ph, 60Hz; ref STN-MEP-FPS-QA-5101</p> </div> <p>Equipment Schedule :</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 5px 0;"> <thead> <tr> <th>DESCRIPTION</th> <th>CAPACITY (M³/HR/PM)</th> <th>TYPE OF PUMP</th> <th>HEAD (MWC)</th> <th>DRIVE</th> <th>MOTOR RATING (KW)</th> <th>PHASE/VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>MAIN FIRE PUMP</td> <td>238 (307)</td> <td>HORIZONTAL SPLIT CASE FIRE PUMP (LISTED & FM APPROVED-SET INCLUDE MOTOR AND PANEL)</td> <td>95.0</td> <td>ELECTRICAL MOTOR</td> <td>123.84</td> <td>3Ø/380</td> </tr> <tr> <td>JOCKEY PUMP</td> <td>2.9 (3.7)</td> <td>VERTICAL INLINE PUMP</td> <td>102</td> <td>ELECTRICAL MOTOR</td> <td>7.45</td> <td>3Ø/380</td> </tr> </tbody> </table> <p>EA Station BOQ :</p> <div style="border: 1px solid green; padding: 5px; margin: 5px 0;"> <p>EA-MZ-MFP-01; Main fire pump; horizontal split case pump; electric motor driven; 238 CMH @ 102 head MWC TDH; 96kW motor rating; 380V, 3ph, 60Hz; ref STN-MEP-FPS-EA-5101</p> </div> <p>Equipment Schedule :</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 5px 0;"> <thead> <tr> <th>DESCRIPTION</th> <th>CAPACITY (M³/HR/PM)</th> <th>TYPE OF PUMP</th> <th>HEAD (METER)</th> <th>DRIVE</th> <th>MOTOR RATING (KW)</th> <th>PHASE/VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>MAIN FIRE PUMP</td> <td>238(307)</td> <td>HORIZONTAL SPLIT CASING PUMP</td> <td>102</td> <td>ELECTRICAL MOTOR</td> <td>96</td> <td>3Ø/380</td> </tr> <tr> <td>JOCKEY PUMP WITH CONTROL PANEL</td> <td>2.9(3.7)</td> <td>VERTICAL INLINE PUMP</td> <td>109</td> <td>ELECTRICAL MOTOR</td> <td>7.7</td> <td>3Ø/380</td> </tr> </tbody> </table>	DESCRIPTION	CAPACITY (M ³ /HR/PM)	TYPE OF PUMP	HEAD (MWC)	DRIVE	MOTOR RATING (KW)	PHASE/VOLTAGE	MAIN FIRE PUMP	238 (307)	HORIZONTAL SPLIT CASE FIRE PUMP (LISTED & FM APPROVED-SET INCLUDE MOTOR AND PANEL)	95.0	ELECTRICAL MOTOR	123.84	3Ø/380	JOCKEY PUMP	2.9 (3.7)	VERTICAL INLINE PUMP	102	ELECTRICAL MOTOR	7.45	3Ø/380	DESCRIPTION	CAPACITY (M ³ /HR/PM)	TYPE OF PUMP	HEAD (METER)	DRIVE	MOTOR RATING (KW)	PHASE/VOLTAGE	MAIN FIRE PUMP	238(307)	HORIZONTAL SPLIT CASING PUMP	102	ELECTRICAL MOTOR	96	3Ø/380	JOCKEY PUMP WITH CONTROL PANEL	2.9(3.7)	VERTICAL INLINE PUMP	109	ELECTRICAL MOTOR	7.7	3Ø/380
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
80.	TS3 MEP Section 1236	The warranty for STP is not stated in the Technical Specifications, kindly specify.	Please STP read 1236 Package Type Sewer Treatment Plant
81.	TS3 MEP Section 1236 & Section 1201	Please confirm if there will be no Factory Acceptance Test(FAT) for Pumps & STP since it is not stated on the Technical Specifications.	In principle, it is not necessary.
82.	Section VI Technical Specifications 3: Mechanical, Electrical, Plumbing: Section 1227.1.3.g Section 1228.1.3.d STN-MEP-VAC-QA-5106, STN-MEP-VAC-EA-5106	Please specify which of the following shall prevail for Tunnel Ventilation fire rating hours (technical specs or equipment sched2): As per Technical Specs: 250deg C, 2 hours As per Equipment Schedule: 250deg C, 1 hour	2 hour is correct.
83.	MEP GENERAL WORKS LIST OF ACRONYMS AND DEFINITION OF TERMS #1	We interpret MTBF (Mean Time Between Failures) as required in ONLY BMS and elevator. Please clarify and confirm.	In addition to your assumption, the engineer accounts that the design shall accounts for the RAMS targets including MTBF and performance for the following systems: Lighting System, UPS, Emergency Generators, Fire Systems, Plumbing, BMS, System Monitoring (BMS-Door Access Control and Server), VAC, Passenger Mobility Services - Lifts and Elevators, and TVS.
84.	MEP GENERAL WORKS LIST OF ACRONYMS AND DEFINITION OF TERMS #2	We interpret RAMS is required in ONLY BMS, which has No requirement of IA (Inherent Availability) and MART (Mean Active Repair Time). Please clarify and confirm.	The bidder shall note that BMS is a control and monitoring system. The sub-systems shall interface with BMS for monitoring and control and these subsystems shall have their own RAMS targets.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
85.	TS 3 231 1130.2.2 6) Technical Requirements of Programmable Logic Controller	We interpret that SIL (Safety Integrity Level) is required in ONLY BMS. Please clarify and confirm.	The safety requirement is applicable to safety critical/related systems. So, the Engineer expects the FIRE Fighting and detection systems to be installed as SIL2 certified systems and Lifts and Elevators to be supplied with supplier safety certification at the delivery.
86.	1214.1.9, 1215.1.10 1216.1.8, 1217.1.6, 1218.1.6 1219.1.11 Special Warranty "Manufacturer's standard form in which a manufacturer agrees to repair or replace components of water units that fail in materials or workmanship within a specified period."	Please define the condition of "specified period" for special warranty for: TS1214: Fan coil unit TS1215: Air Handling unit TS1216: FAN TS1217: chilled water pump TS1218: Condenser Water pump TS1219: Cooling Tower	Specified period is referring to the warranty period extension agreement between manufacturer and owner after the warranty period.
87.	Volume II Part2 Works Requirements, Section VI Works Requirements - Technical Specification (TS), 1130 Building Management System (BMS), 1130 2.1 4), 5), and 6)	MTTR (Mean Time to Repair) is calculated by the below formula. $MTTR = MTBF * (1 - Availability) / Availability$. where, $MTBF = 50,000$ hr, and $Availability = 0.9999$ (ref. 1130.2.1, 4) and 5)) Therefore, MTTR is driven to 5 hr. Employers are requested to clarify which of 5 hr (as calculated from above) or 0.5 hr (ref. 1130.2.1, 6)) shall be used.	As per TS, MTBF is > 50,000 hr. Refer to TS 1130.2.1.6 for MTTR value of BMS System.
88.	420, 432, 447, 457, 467 Warranty 1.214.1.9, 1215. 1.10, 1.216. 1.8, 1217.1.6, 1218.1.6 (b) Special Warranty:	Kindly define the condition of "specified period" for Special Warranty for: TS1214: Fan Coil Unit TS1215: Air Handling Unit TS1216: FAN TS1217: Chilled Water Pump TS1218: Condenser Water Pump	Specified period is referring to the warranty period extension agreement between manufacturer and owner after the warranty period.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Manufacturer's standard form in which the manufacturer agrees to repair or replace components of fan units that fail in materials or workmanship within a specified period.		
89.	<p>Section VI (TS) 3. Mechanical, Electrical and Plumbing, Page 32, Section VI General Specifications - (GS) Page 158 e) Supply of Spare Parts, Special Tools, Test Equipment and Consumable,</p> <p>138.1 Details of Supply Consumable quantity sufficient for a period of one year shall be supplied by the Contractor. (b) The Spare Parts to be supplied by the Contractor shall consist of: (i) Commissioning Spares; and (ii) Spare parts, consumables, and necessary tools required for two (2) years operation and maintenance after the Defect Notification Period (for those spare parts named in this paragraph (ii), hereinafter referred to as "Contract Spares").</p>	<p>The Bidder would like to clarify the "Consumables" which Clause or specification shall follow, the one year indicated by MEP — Technical specification or two (2) years indicated by 138.1 (b) (ii) of General Specifications.</p>	<p>Contractor to follow Appendix-1 of MEP TS</p>


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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
90.	TS3 MEP Section 1235.2.2(g) SPL-A-BS-EA-2014 SPL-A-BS-QA-2014 SPL-A-BS-NA-2013	There is conflict with the Downspout material between BOQ and Bus Shelter for North, Quezon & East Ave Station Plazas.	Refer to revised SPL-A-BS-EA-2014, SPL-A-BS-QA-2014, and SPL-A-BS-NA-2013
91.	Technical Specifications 5: Pedestrian Bridge Part 2324.2 General Specification SPL-PB1-A-QA-2034 SPL-PB1-A-QA-2035 SPL-PB1-M-QA-6003 SPL-PB1-M-QA-6004	Please confirm the orientation of elevator openings for all elevator units	The orientation is correct as per Drawing
92.	Section VI Technical Specifications 3: Mechanical, Electrical, Plumbing: Sections 1214.1.9, 1215.1.10, 1216.1.8, 1217.1.6, 1218.1.6 and 1220.1.9	Please define the condition of "specified period" for special warranty for <ul style="list-style-type: none"> • TS1214: Fan Coil Unit • TS1215 : Air Handling Unit • TS1216: Fan • TS1217: Chilled Water Pump • TS1218: Condenser Water Pump • TS1220: Air Cooled Chiller-Scroll 	Specified period is referring to the warranty period extension agreement between manufacturer and owner after the warranty period.
93.	Technical Specification 3: Mechanical, Electrical, Plumbing: Section 1213.1.5 (a) and (c) and Section 12133.8 VRF System Commissioning 5) VRF Equipment Warranty (c).	There is a discrepancy in the limited warranty for the compressor. We interpret The warranty shall be 6 years from the date of installation. Please confirm and advise.	Yes. It is Confirmed.
94.	Section VI Works Requirements Technical Specifications (TS) 1041 STN-AR-A-EA-9001	Please clarify spacing of wall studs: 360mm C/C as per typical wall type details or 610mm under Technical Specifications .	Drawing specifications shall be followed. TS shall be revised from 610mm to 360mm.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
95.	Section C01.3 of Section VI Technical Specifications Architecture	Please confirm if mockup shall be done off site on a temporary structure or on site inside permanent structure as shown in Section VI Technical Specifications Architecture Appendix 2	Mock-Ups designated in Archi Technical Specification Appendix 2 are Assembly unit mock-ups which are required off-site location. While single product mock-ups which do not consist of the above assembly unit may be located on site by the Engineers approval.
<i>Volume III Part2: Works Requirements</i> <i>Works Requirements – Employer’s Drawings (DRW)</i>			
96.	TN-CE-0006, 0007 and 0056	Reference is made to the Drawing Numbers TN-CE-0006, 0007 and 0056. Please confirm that CP106 should supply CP102 with "Insert M12" and "Insert Plug" for incorporation into the segmental lining as stated in Appendix 4 to General Specification (GS)	Yes, CP106 should supply CP102 with "Insert M12"and"Insert Plug".
97.	North Avenue Station Plaza: Access Dates A set of drawings is provided for this area and Bill 2A and 6A is provided for payment. There is no specification for this work.	a) Please provide the date when access will be provided by CP101 to the whole area of the North Avenue Station Plaza for CP102 construction. b) Please provide the date when access will be provided to the works area at CP101 Station shown on Drawing No. UT-CE-QA-0011. c) Please provide the date when access will be granted to CP102 for the track slab of North Avenue Station for launching and recovery of TBM's.	a) The time for Access to the North Avenue Station launching shaft area as shown on the Drawing No. UT-CE-QA-0011 shall be within 20 months after the Commencement Date. b) The Contractor shall make interface coordination with CP101 Contractor with respect to the time for the Access to the other areas of the North Avenue Station. c) The Bidder may assume and show in his Bid reasonable time for Access to such areas for the timely completion of the Works.
98.	"Volume III. Part 2: Works Requirements Section VI Works Requirements- Employer’s Drawings (DRW)"	Bidders would like to ask whether the drawings which do not carry the signatures are authorized for the tender.	The drawings are authorized for the tender.
99.	Drawings and Information on Existing Structures.	Please provide drawings and information on existing structures along the route that may be affected by construction work.	Please refer to the topographic map.
100.			

Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
101.	Right of Way for Entrances at EA Station DWG UT-CE-EA-0010 Site Utilisation Plan Access During Construction	Please provide precise measurements of the Right of Way that will be provided within demolished properties, so that clearance to construction work on the two station entrances can be determined.	Please refer to the relevant drawings in the bidding document.
102.	North Avenue Station Plaza Dwg SPL-C-SD-NA-1004 North Avenue Station Plaza Perspective shows a number station entrances, ventilation shafts and a pedestrian bridge.	Please confirm that all entrances, ventilation buildings and pedestrian bridges will be constructed by CP101 and the work completed before the date when CP102 is granted access to construct the plaza.	CP102 scope of works shall be only station plaza. Timing of completion of entrance and ventilation shaft shall be coordinated with CP101 contractor as interface coordination.
103.	STN-AR-A-QA-1203 STN-AR-A-QA-1303 STN-AR-A-QA-1403 STN-AR-A-QA-1602	Kindly confirm that as per architectural drawing of Quezon Avenue Station for Elevator 2, there is no need for a double opening feature of the elevator car since all the opening is only at one side of the elevator car. 	yes. EV-02 opens at one side only, as shown in architecture drawings.
104.	GBB 9, ITEM NO. 40	Reference to GBB 9, Item No. 40, please clarify which will prevail regarding scope on Advertisement Panels as there is conflict on the first and last sentence as highlighted below.	All advertisement panels at trackside are considered exterior lighting fixtures as per TS 632 and shall be priced at lump sum per details shown in STN-AR-A-QA/EA-9400 (rev1). The bidder shall also refer to MEP Technical Specification section 1111.1.1 under item letter H that signage and advertisement panel shall be provided with complete and operational system for both normal and standby electric power system.

Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		<p>Advertisement panels at track side are under Railway Systems as per Scope of Works.</p> <p>Based on MEP TS Section 1111.1.1 under item H signage and advertising system shall be provided with complete and operational systems for both normal and standby electric power systems.</p> <p>All advertisement panels at track side are considered exterior lighting fixtures per TS 632 of TS Civil and shall be priced at lump sum per details shown in STN-AB-A-QA/EA-9400(Rev. 1)</p>	
105.	STN-MEP-ELL-QA-2001 to 2007 and STN-MEP-ELL-EA- 2001 to 2006	<p>Reference is made to the drawing numbers STN-MEP-ELL-QA-2001 to 2007 and STN-MEP-ELL-EA- 2001 to 2006. The panel boards included in the BOQ Nos. 5A and 5B listed below cannot be located in the above referenced drawings. Please clarify and advise.</p> <p>Quezon Avenue Station (Bill No. 5A)</p> <ul style="list-style-type: none"> • QA-B1-PDB-04 • QA-B3-ELDB-06 • QA-B2-PMCP-01 & 02 • QA-B3-SMDB-01 & 02 • QA-B1-PDB-12 • QA-B1-UPDB-01 • QA-B4-PDB-03 & 04 • QA-SL-ELDB-02 • QA-SL-ULDB-01, 02 & 03 • QA-ADV-PDB-01 to 06 <p>East Avenue Station (Bill No. 5B)</p> <ul style="list-style-type: none"> • EA-MZ-UPS-01 & 02 	<ul style="list-style-type: none"> • QA-B1-PDB-04- Not used • QA-B3-ELDB-06- Not used • QA-B2-PMCP-01 & 02 Refer Panel And DB Schedule in Calculation part used for sewage panel • QA-B3-SMDB-01 & 02 Refer drawing STN-MEP-ELL-QA-2005 QA_ESMDB-01 and ESMDB-02 • QA-B1-PDB-12 Not used • QA-B1-UPDB-01 Not used • QA-B4-PDB-03 & 04 Not used <p>FOR QA-SL-ELDB-02 REFER-STN-MEP-ELL-QA-2120</p> <p>FOR QA-ADV-PDB-01 TO QA-ADV-PDB-06 Refer Panel And DB Schedule in Calculation part.</p> <p>FOR SL-ULDB-01 TO 03 REFER SL-ULPDB-01 TO 03 In drawings.</p> <p>FOR EA-UPS-01 and UPS-02 Refer drawing STN-MEP-EA-ELL-2005 and 2006</p> <p>For EA-MZ-EMCC-08 refer drawing number- STN-MEP-EA-ELL-2006</p> <p>No Such Panel as EA-MZ-PD-01 it may be busduct tagging(EA-MZ-BD-01)</p>

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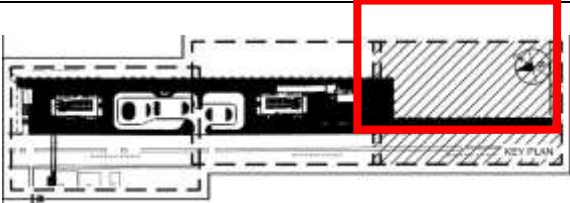
ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		<ul style="list-style-type: none"> • EA-MZ-EMCC-08 • EA-MZ-PD-01 	
106.	STN-MEP-PLD-QA-3312	Please provide isometric layout of toilets for Quezon Avenue and East Avenue.	Isometric layout is shown in the latest drawing.
107.	STN-MEP-PLD-EA-5201	Please indicate the type of material to be used for Oil Grease Trap.	precast concrete grease trap,
108.	STN-MEP-ELL-EA-3107 STN-MEP-BMS-EA-3107	Please clarify if there will be a Sewage Treatment Plant for East Avenue Station since it is reflected on Electrical and Auxiliary plans.	There is no Sewage Treatment Plant,
109.	STN-MEP-PLD-EA-3331	Please provide detailed drawings for the Janitor Room Pit.	No pit in the Janitor room.
110.	SPL-E-OA-5041 & SPL-E-QA-5042 STN-MEP-ELV-OA-2102 STN-MEP-ELV-QA-2071 SPL-E-EA-5041 & SPL-E-EA-5042 STN-MEP-ELV-EA-2044 STN-MEP-ELV-EA-2048	Kindly provide the details and layout of the Service Entrance and Concrete Encasement for Telephone and Data System for both Quezon Avenue and East Avenue Stations	Service Entrance details have already been included in the Submission on 29 June 2021. Service entrances are updated in STN-MEP-ELV-QA-3105,STN-MEP-ELV-QA-3115,STN-MEP-ELV-QA-3405,STN-MEP-ELV-QA-3415,STN-MEP-ELV-EA-3617,STN-MEP-ELV-EA-3686,STN-MEP-ELV-EA-3637,STN-MEP-ELV-EA-3646.
111.	STN-MEP-FPS-CWD-1201 STN-MEP-FPS-EA4200 STN-MEP-FPS-EA-3210 STN-MEP-FPS-EA-3220 STN-MEP-FPS-EA-3230 STN-MEP-FPS-EA-3240 STN-MEP-FPS-EA-3250 STN-MEP-FPS-QA-3200 STN-MEP-FPS-QA-3210 STN-MEP-FPS-DA-3220 STN-MEP-FPS-QA-3230 STN-MEP-FPS-QA4240 STN-MEP-FPS-QA-3250	Please confirm if the FEX type-III rejected on plans is the wall mounted fire extinguisher in the miscellaneous details.	FEX type-III is the wall mounted fire extinguisher.
112.	Load Schedules STN-MEP-ELL-EA-3124	Please provide a Lighting Control Panel Load Schedule for both Stations.	Lighting Control Panel is used to control the lighting DB ELDB, ELDBs Loads are already mentioned in Drawings and

General Bid Bulletin No.12
Annex "A"

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			Calculations.Refer CWD Drawing number-STN-MEP-ELL-CWD-1004. 7.03 for better understanding
113.	STN-MEP-PLD-QA-3312	Please provide Plumbing and Sanitary Piping Layout for Kitchen Sink located at the Staff Room.	Refer Drawing No. STN-MEP-PLD-QA-3312 of PLD submission on 14/09/2021,
114.	Bill of Quantities; Bill 7A; Pay Item D3 SPL-PB1-A-QA-2003 to SPL-PB1-A-QA-2006 SPL-PB1-M-QA-6003 & SPL-PB1-M-QA-6004	Please confirm the total number of elevator units for Quezon Avenue Pedestrian Bridge.	There are four (4) passenger elevators
115.	Bill of Quantities; Bill 7A; Pay Item D3 SPL-PB1-M-QA-6003 SPL-PB1-M-QA-6004	Please confirm the travel height for the elevator units at Quezon Avenue Pedestrian Bridge.	Travel height is 5.97 meters.
116.	QUEZON AVENUE STATION PLAZA GENERAL ROAD LAYOUT SPL-C-RD-QA-1021 Rev.0 QUEZON AVENUE STATION PLAZA TYPICAL ROAD SECTIONS AND CURB DETAILS SPL-C-RD-QA-1025 Rev. 0	Based on the layout drawing , road sections and curbs details for Quezon Avenue Plaza, Please show the detail cross section designated on the plan layout shown below;	Kindly find SPL-C-RD-QA-1025
117.	SPL-C-DR-EA-1041 SPL-C-DR-NA-1041 SPL-C-DR-NA-1042 SPL-A-LA-NA-2501 SPL-A-LA-NA-2502 SPL-A-LA-NA-2503	Please provide Perforated pipe size and details for North Avenue, East Avenue and Quezon Avenue Station Plazas.	Kindly find attached revised SPL-C-DR-NA-1053 and SPL-C-DR-EA-1053.
118.	SPL-C-DR-NA-1041 SPL-C-DR-NA-1042	Please provide Part 3 - Storm Drainage System Layout for North Avenue Station Plaza as reflected on the Key plan.	The area shown in the red box is out of scope.

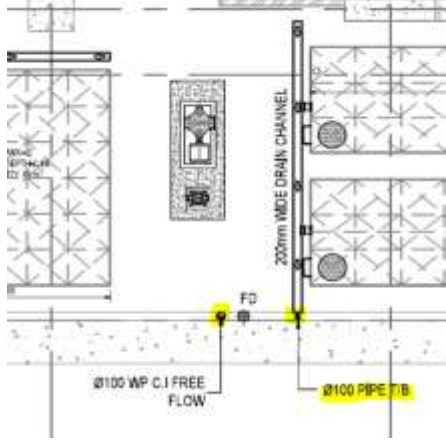
Metro Manila Subway Project Phase 1
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			
119.	Bill of Quantity (BOQ) - Bill No. 5A & 5B Item no. 1238(1) and 1238(2) STN-MEP-PLD-QA-4105 STN-MEP-PLD-EA-4105	There is conflict in the capacity between Domestic and Make up Water Tank between Drawing/Equipment Schedule and BOQ for Quezon Ave and East Avenue Station. Please confirm which will prevail.	Equipment Schedule shall prevail.
120.	STN-MEP-VAC-EA-3117 STN-MEP-VAC-EA-3121 STN-MEP-VAC-EA-3123 STN-MEP-VAC-EA-3124 STN-MEP-VAC-EA-3125 STN-MEP-VAC-EA-3126 STN-MEP-VAC-EA-3131 STN-MEP-VAC-EA-3132 STN-MEP-VAC-EA-3133 STN-MEP-VAC-EA-3135	On East Ave Station, please clarify the following items if these are included in our scope since these are not reflected on the equipment schedule while reflected on layout. If so, please provide pay items in the BOQ. FIRE DAMPERS 200X150 FD - 2 units 200X200 FD - 40 units 250X200 FD - 4 units 250X250 FD - 1 unit 300X150 FD - 3 units 300X200 FD -3 units 300X250 FD - 14 units 300X300 FD 14 units 350X350 FD - 10 units 400X200 FD - 1 unit 400X300 FD - 2 units 500X300 FD - 2 units	Updated BoQ follows the latest Drawing submission.


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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		500X400 FD - 2 units 500X500 FD - 1 unit 600X350 FD - 2 units 650X250 FD - 1 unit 700X200 FD - 2 units 1000X500 FD - 1 unit 1000X600 FD - 4 units 1000X900 FD - 8 units 1000X1000 FD - 1 unit	
121.	STA-S-QA-3003 STA-S-EA-3003	Please confirm painting material to be used for Metal Structures: STA-S-QA-3003 and STA-S-EA-3003 indicates 3-coat system while on TS 1047 item 14 shows only anti corrosive paints.	STA-S-QA-3003 and STA-S-EA-3003 8.43 refers JIS K 5674, & JASS 18 M-111 which are also referred in TS 1047.2.2 14). Under 8.43.4 One(1) apply of PRIMER and Two(2) applies of ANTI-CORROSIVE PAINTS are described. Hence STA-S-QA/EA-3003 and AR, TS require the same application. At the same, AR-A-EA-0201 indicates Primer and Rustproof (Anti-Corrosive) the same as above, and Synthetic Oil Paint as Finish.
122.	TS 1016.2 Products STN-AR-A-QA-0200 STN-AR-A-EA-0200	Please clarify the following: Under TS1016.2, WPS-01 Bituminous Waterproofing /Asphalt membrane waterproofing thickness is approximately 8.0mmthk as stated whereas in drawings STN-AR-A-QA-0200 and STN-AR-A-EA-0200 Asphalt membrane waterproofing thickness is ± 2.00mm thick. Which one to follow?	Drawing Specifications to be followed. TS to be revised from 2mm to 5mm thk.
123.	TS 1016.2 Products STN-AR-A-QA-0200 STN-AR-A-EA-0200	Please clarify the following: Under TS1016.2, WPS-02 Elastomeric Waterproofing thickness is approximately 2.00mmthk as stated whereas in drawings STN-AR-A-QA-0200 and STN-AR-A-EA-0200 Elastomeric Waterproofing thickness is ± 5.00mm thick. Which one to follow?	Drawing Specifications to be followed. TS to be revised from 2mm to 5mm thk.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
124.	STN-MEP-PLD-EA-0201 to STN-MEP-PLD-EA-5201	<p>Please clarify the piping of the Drainage System in all levels at East Avenue Station for 100mm Waste Pipe, since some pipe connections are not reflected on the lower level as shown in sample below.</p>  <p>Platform Level SN-MEP-PLD-EA-3232 GL: F/10-11</p>	<p>100mm waste pipe is taken out all floor drain to sump provided at under-croft level. Refer civil drawings for the details of the under platform-level drainage system.</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		 <p>Platform Level SN-MEP-PLD-EA-3242 GL: F/10-11</p>	
125.	<p>Bill of Quantities - Bill No. 5A Item No. 1235(6)</p> <p>STN-AR-A-QA-1100 STN-AR-A-QA-1102 STN-AR-A-QA-1104</p> <p>STN-MEP-PLD-QA-3201 STN-MEP-PLD-QA-3204</p>	<p>Please provide details and layout of Aluminum rectangular pipe/down take pipe & fittings as reflected in BOQ and Architectural Drawings for Quezon Avenue Stations.</p>	<p>Please refer to STN-AR-A-QA-9180 tagged as "4".</p>

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
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	STN-MEP-PLD-QA-3205		
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126.	Bill of Quantities - Bill No. 5B Item No. 1235(6) STN-AR-A-QA-1100 STN-AR-A-EA-1102 STN-AR-A-EA-1106 STN-MEP-PLD-QA-3201	Please provide details and layout of Aluminum rectangular pipe/down take pipe & fittings as reflected in BOQ and Architectural Drawings for East Avenue Stations	Please refer to STN-AR-A-EA-9180 tagged as "4".
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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	STN-MEP-PLD-EA-3202 STN-MEP-PLD-EA-3207		
127.	Technical Specifications (TS) 5: Pedestrian Bridge Part No. 2324.2.5 Elevator Car SPI-PB1-M-QA-6003	Kindly clarify which shall govern regarding the door opening dimension for both elevator car door and landing door:	900mm is correct.
128.	GBB 8, ITEM NO. 195 SPL-E-EA-5001	This is to request for clarification again regarding our query as follows due to unclear answer in GBB8, Item No. 195: Please confirm if the lighting fixtures with "By Others" specified in the Drawing's Lighting Electrical Legend are excluded in our Scope.	"BY OTHERS" items are not included in the design.
129.	Quezon Avenue Station: STN-MEP-ELL-QA-2181 to STN-MEP-ELL-QA-3944 East Avenue Station: STN-MEP-ELL-EA-2101 to STN-MEP-ELL-EA-3945	Please clarify the functionality of the clear glass panel in FDAS drawings, since they are not connected to FDAS loops. Additionally, there is no pay item for clear glass panels.	CGP is for a clean gas system. From FDAS controlling signals are taken for it through the Control Module placed just beside of this panel.
130.	GBB8 Item No. 194 SPL-PB1-P-QA-5003 SPL-PB1-P-QA-5004 SPL-PB1-P-QA-5007 SPL-PB1-P-QA-5009 SPL-PB1-P-QA-5010	This is to request for clarification again regarding our query as follows due to unclear answer in GBB8, Item No. 194: There is conflict with the Downspout pipe diameter reflected in Schematic Diagram (all downspouts are 80mm) and Drawing Layout (80mm & 100mm) located at Quezon Avenue	80mm is correct.

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
		Pedestrian Bridge 1. Please confirm which will prevail?	
131.	Bill 4A and 4B Station Signages STN-AR-A-EA-8210 to 8211 STN-AR-A-QA-8209 to 8210 STN-AR-A-EA-8257 to 8262 STN-AR-A-QA-8255 to 8260	Which pay item [1813(1), 1813(2),1813(3),1813(4),1813(7),1813(8),1813(9),1813(10)] covers the following type of signs: a.) Level Signs; b.) Prohibitory Signs; c.) Pictogram Identification Signs	Level Signs and Prohibitory Signs are under 1813 (8) - Room Identification Signs. Pictogram Identification Signs is under 1813(1) - Identification Signs
<i>Volume IV Part3: Conditions of Contract and Contract Forms</i>			
132.	Section III, Particular Conditions Attachment-2A Provision of TBM Retrieval Windows to the CP103 Contractor at East Avenue Station, 2nd paragraph: "Delay damages are not stipulated for this provision of TBM Retrieval Windows, which does not relieve the Contractor from any and all liabilities for costs, expenses, loses and damages to be incurred by the CP103 contractor arising out of failure by the Contractor to provide the CP103 contractor with the TBM Retrieval Windows as specified hereunder.	Bidder is unable to assess how much is the risk exposure which may be claimed by CP103 contractor due to Contractor's possible delay, because there is no Key Date which is set out for the TBM Retrieval Windows. Bidder requests Employer that Delay Damage (ref. GC 8.7) shall be applied to avoid any dispute and/or verification for the determination of the claimed amount with respect to CP103. Bidders also request the Employer to confirm that the right of claim shall be reciprocal and both of Employer and Contractor are mutually indemnified.	(1) The Bidder's attention should be drawn to Item (2) (iii) of Attachment 2A quoted below: <i>(iii) The Contractor shall make good interface coordination with CP103 Contractor with respect to the detailed schedule and scope of works for the above provision of custody of Retrieval Shaft and lent of working area. The Contractor shall report the results of such interface coordination to the Engineer for the Engineer's approval.</i> The Bidder is required to coordinate with CP103 Contractor to agree to the detailed schedule on provision of Retrieval Shaft at East Avenue Station. If the Bidder fails to keep his promise on such schedule, the Bidder should be liable for any negative results to be suffered by CP103 Contractor. (2) In case any event of delay by the Contractor or any other Interfacing Contractor happens, such event will be coped with in accordance with the Contract and Works Requirements including provisions related to Interface Management.
133.	General Bid Bulletin No. 6 Section VIII. Particular Conditions	In GBB No. 6, it was clarified that Japanese Subcontractors / Suppliers are not exempted from paying business tax. Does this apply to	The Bidder is reminded to follow Item 11 of GBB No.6

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ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
	Part B: Specific Provisions Section II. Bid Data Sheet	Japanese Subcontractors / Suppliers hired in compliance with JICA's Special Terms of Economic Partnership (STEP)?	
134.	<p>In the Particular Conditions (PC): Sub-clause 2.1 Time for Access to the Site: Within two (2) weeks after Commencement Date,</p> <p>Sub-clause 8.1 (c) Commencement of Works: Within two (2) weeks after Commencement Date,</p> <p>In the General Conditions (GC) 8.1: (c) except if otherwise specified in the Contract Data, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works;</p> <p>Response in GBB No. 10, Item no. 3: "For Bid purposes, the target Commencement Date to be 1st December 2022"</p>	<p>1. Can the Bidder consider that on the given target date of Commencement (1st December 2022), all Land Acquisition of the Employer for the Right of Way (ROW) is completed for CP102 Contractor use.</p> <p>2. In case of delay and handover to the Contractor from the date of Commencement of Works, the Bidder understands that the Contractor will also adjust the work activities completion dates in reference to the Original Schedule required by the Employer.</p>	<p>1. The Bidder is reminded that the assumed Commencement Date stated in Item No.3 in GBB No. 10 was published for the purpose of helping the Bidder base the Bid Programme on it. Land acquisition and any other works related to provisions of Site Access has been and will be continued toward satisfaction of requirements of Bidding Documents and the Contract.</p> <p>2. In case it is found that any adjustment is necessary with respect to Key Dates and/or Time for Completion during the contract negotiation and/or during contract implementation for any reason, such adjustment will be made to the extent reasonable and necessary through mutual consultation in accordance with the provisions of the Contract including Sub-Clauses 2.1 and 8.4.</p>
135.	VIII PC-9 PC-10 Attach 3 Access Dates	<p>a) Please provide the date when CP106 will provide 380v power to CP102 Works so that testing of the MEP Plant by CP102 can commence.</p> <p>b) Please provide the date when CP106 will provide access to track areas on completion of their trackwork so that CP102 can proceed with its own trackside installation works.</p>	<p>a) In the current CP106 Schedule, permanent power shall be available on week no. 222 from the commencement date of CP106. The indicative commencement date of CP106 is currently planned Jan 2022. Note that Notice of Award for CP106 Contract issued on 8 Oct and published in PS DBM website. Further details of this interface shall be discussed during the implementation stage and the above dates are subject to the results of those discussions. Note: The Engineer assumed that Temporary Power shall be</p>

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PACKAGE CP102 (Quezon Avenue and East Avenue)

ITEM NO.	REFERENCE/CLAUSE/SECTION	QUERIES	RESPONSE
			<p>provisioned for the use of Civil Contractor MEP works in the absence of permanent power.</p> <p>b) The Engineer and The Employer are not responsible for the Civil Contractor to use any asset of CP106 that is not fully commissioned and handed over for railway operation. Therefore, Civil Contractor to coordinate and discuss with CP106 during the implementation stage.</p>
136.	<p>General Bid Bulletin No. 6</p> <p>Section VIII. Particular Conditions Part B: Specific Provisions</p> <p>Section II. Bid Data Sheet</p>	<p>Please clarify if the Contractor being referred in GBB No. 6's Response to Query, in case of a JV, refers to both the Japanese and Filipino Contractors or does it refer to the Japanese Contractor only. Sub-Clause 14.1 of the Specific Provisions and Sub-Item ITB 14.7 of the Bid Data Sheet specifically states that Japanese companies operating as suppliers and contractors are exempted from duties and related fiscal charges imposed in the Philippines</p>	<p>The Bidder is to be reminded that though the Joint Venture will act in its name with joint and several liabilities of members of the JV, applicability of Sub-Clause 14.1 of the Specific Provisions and Sub-Item ITB 14.7 of the Bid Data Sheet shall be understood in accordance with the provisions therein and clarifications by GBBs.</p>

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ITEM NO.	REFERENCE CLAUSE/SECTION	ADDENDUM No. 12

<i>Volume IA Bill of Quantities (BOQ)</i>		
1.	BOQ Bill of No1, 2bc, 3, 4A,4B, 5A, 5B, 8	Refer to the latest versions of BOQ Bill of No1, 2bc, 3, 4A,4B, 5A, 5B, 8.
<i>Volume II. Part 2: Works Requirements Section VI: Works Requirements, General Specifications</i>		
2.	Volume II Part 2 WORKS REQUIREMENTS Section VI Works Requirements General Specifications APPENDIX 1 SCOPE OF WORKS item 2.2 Building Works 3) Electrical and Mechanical (E&M) Works a) Electrical, Mechanical, and Plumbing System Page Appendix 1-5	<p>Please delete the phrase of "Design and Manufacture" and substitute with the word "Supply" in Item 2.2 Building Works 3) Electrical and Mechanical (E&M) Works a) Electrical, Mechanical, and Plumbing System</p> <p>(b) 3) Electrical and Mechanical (E&M) Works a) Electrical, Mechanical, and Plumbing System Design and manufacture, Supply, installation, testing and commissioning of the E&M station and E&M tunnel shall comprise, but not be limited to, the following:</p>
<i>Volume II. Part 2: Works Requirements Section VI: Works Requirements, Technical Specifications 3: Mechanical, Electrical and Plumbing</i>		

Metro Manila Subway Project Phase 1 PACKAGE CP102 (Quezon Avenue and East Avenue)		
ITEM NO.	REFERENCE CLAUSE/SECTION	ADDENDUM No. 12
3.	Volume II. Part 2: Works Requirements/Technical Specifications 3: Mechanical, Electrical and Plumbing Page 14, I01.1.1 Design Principle, Code and Regulation	<p>Please delete the phrase of "and at no additional cost to the Employer." in Item (b) of I01.1.1 Design Principle, Code and Regulation as follows:</p> <p>(b) Should any change in the Drawings or Specifications be required to comply with governmental regulations, the Contractor shall notify the Engineer prior to Execution of the Work. The Work shall be carried out according to the requirements of such regulations/code in accordance with the instruction of the Engineer and at no additional cost to the Employer</p>

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Refer to the revised TS and drawings in Attachment.

Volume II Part 2: Works Requirements >> Section VI Works Requirements >> Technical Specifications			
No.	Reference	Original	Corrected, Supplemented or Modified
4.	Cover Page Date	PDF – Page 1 March 2021	PDF – Page 1 (Updated Date) September 2021
5.	List of Abbreviations	PDF -Page 23 <Non-existing Item>	PDF – Page 23 (Additional Abbreviations) SUS Stainless Steel
6.	Section 1004.2.4.17	PDF – Page 193 stainless	PDF – Page 195 (Spelling Correction) stainless
7.	Section 1012.2.1.1.b	PDF – Page 253 safely	PDF – Page 257 (Revised description) safety
8.	Section 1012.2.1.1.d	PDF – Page 253 2-6 mm thick 2-hour fire-resistive laminated glass	PDF – Page 257 (Revised Specifications) 25 mm (12mm + 1.52 PVB + 12mm) 2-hour fire-resistive full-tempered laminated glass
9.	Section 1012.2.1.1.e	PDF - Page 253 12 mm thick toughened	PDF - Page 257 (Revised Description) 16 mm thick full-tempered
10.	Section 1012.2.4.2.a	PDF – Page 256 Toughened	PDF -Page 260 (Revised Description) Tempered
11.	Section 1012.2.4.2.b.ii	PDF – Page 257 toughened	PDF – Page 261 (Revised Description) full-tempered
12.	Section 1012.2.4.d.i	PDF – Page 258	PDF – Page 262 (Revised Description)

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		Fire-Rated Fire-protection-rated	Fire-Resistive Fire-resistive												
13.	Section 1012.2.7.3	PDF – Page 261 Toughened/Tempered	PDF – Page 265 (Revised Description) Tempered												
14.	Section 1012.4.2	PDF - Page 267 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">1012 (9) a1</td> <td style="width: 50%;">Fire Rated Laminated Glass – 2.6mm with Polyvinyl Butyral Film Interlayer and Security Film</td> <td style="width: 25%;">Square Meter</td> </tr> <tr> <td>1012 (10) a1</td> <td>Toughened Glass – 12 mm with Frosted Film</td> <td>Square Meter</td> </tr> </table>	1012 (9) a1	Fire Rated Laminated Glass – 2.6mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter	1012 (10) a1	Toughened Glass – 12 mm with Frosted Film	Square Meter	PDF - Page 271 (Revised Description) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">1012 (9) a1</td> <td style="width: 50%;">Fire-Resistive Laminated Glass – 25mm with Polyvinyl Butyral Film Interlayer and Security Film</td> <td style="width: 25%;">Square Meter</td> </tr> <tr> <td>1012 (10) a1</td> <td>Tempered Glass – 16 mm with Security Film</td> <td>Square Meter</td> </tr> </table>	1012 (9) a1	Fire-Resistive Laminated Glass – 25mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter	1012 (10) a1	Tempered Glass – 16 mm with Security Film	Square Meter
1012 (9) a1	Fire Rated Laminated Glass – 2.6mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter													
1012 (10) a1	Toughened Glass – 12 mm with Frosted Film	Square Meter													
1012 (9) a1	Fire-Resistive Laminated Glass – 25mm with Polyvinyl Butyral Film Interlayer and Security Film	Square Meter													
1012 (10) a1	Tempered Glass – 16 mm with Security Film	Square Meter													
15.	Section 1031.1.5 Codes and Standards	PDF – Page 389 <Non-Existing Item>	PDF – Page 393 (Additional Codes and Standards) ASTM International (ASTM) ASTM E136 Standard Test Method for Behavior Of Materials In A Vertical Tube Furnace At 750oC ASTM C167-2009 Standard Test Method for Thickness and Density of Blanket or Batt Thermal Insulations. ASTM C518-2010 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus. ASTM C665-2011 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing. ASTM C795-2013 Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel. ASTM E413-2010 Classification for Rating Sound Insulation. ASTM E1050-2012 Standard Test Method for Impedance and Absorption of Acoustical Materials Using a Tube, Two Microphones and a Digital Frequency Analysis System. Underwriters' Laboratories (UL) UL 181-2005 Factory-Made Air Ducts and Connectors.												
16.	Section 1031.2.1.1	PDF – Page 390 <Non-Existing Item>	PDF – Page 395 (Additional Description) c) Size, profile and configurations: As indicated in the Drawings.												

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			d) Methods of connection and fixings: As indicated in the Drawings.
17.	Section 1031.2.2.1 Performance Requirements	PDF – Page 390 1) Glass Wool Acoustic Panel a) Acoustical Performance: Derived from tests conducted according to ASTM C 423 on a Type D5 mounting by a National Voluntary Accreditation Program (NVLAP) accredited laboratory (i) 27 mm Thickness Noise Reduction Coefficient (NRC) - 0.75. (ii) 52.4 mm Thickness NRC - 0.95 b) Fire Performance: Each component shall have been tested according to ASTM E 84 and has a Class I/A rating.	PDF – Page 395 (Revised Description) 1) Glass Wool Blanket with Glass Fiber Cloth a) Lightweight glass wool blanket with glass fiber cloth for firestopping to ASTM C 612 that provides fire resistance to ASTM E 136 and sound control to ASTM C 423. (i) Fire performance: (1) Non-combustibility: To ASTM E 136. (2) Surface Burning Characteristics: To ASTM E 84. Flame spread: 0. Smoke developed: 0 (3) Smoulder resistance: 0.01 percent to ASTM C 612. (ii) Acoustical Performance: (1) Airborne sound transmission loss: To ASTM E90. (2) Rating sound insulation: To ASTM E413. (3) Sound absorption coefficient: To ASTM C423 for 50mm thickness, NRC 1.00. (iii) Moisture Absorption: 95% relative humidity to ASTM C 1104/C 1104M. (iv) Impedance and absorption of acoustic materials: To ASTM E1050. (v) Air erosion velocity: 5.08 m/s maximum to UL 181. (vi) Thermal resistance: To ASTM C518. (vii) Corrosive resistance: To ASTM C665, Corrosive to steel - Pass. (viii) Stainless steel stress corrosion: To ASTM C795. (ix) Density: To ASTM C 303, 32 kg/m3 (x) Recycled content: 16 % minimum.
18.	Section 1031.2.2.2.b.ii	PDF – Page 391 to be	PDF – Page 396 (Revised description) shall be
19.	Section 1031.2.3.1 Materials	PDF – Page 392 <Non-existing Item>	PDF – Page 397 (Additional Specifications) a) Non-combustible, lightweight, glasswool blanket with glass fiber cloth for firestopping to ASTM C 612, that provides fire resistance to ASTM

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			E136 and a sound control to ASTM C423. b) Standards Factory Applied Facing: Interwoven fiberglass material cover.
20.	Section 1031.2.3.1.c Materials	PDF – Page 392 Panels shall be constructed of high-density glass wool with resin hardened edges.	PDF – Page 394 (Revised description) Panels shall be constructed of high-density glass wool with glass fiber cloth cover and stainless steel edge trim.
21.	Section 1031.2.3.1.d Materials	PDF – Page 392 Mounting: Standard wall mountings include spot adhesive with optional impaling clips, Z-clip, hook & loop, and magnetic fasteners. Wall bar to wall bar is recommended for ceiling mounting.	PDF – Page 397 (Revised Specifications) Mounting: Standard wall mountings include spot adhesive with impaling pins and washers.
22.	Section 1031.2.3.2.b.i	PDF – Page 392 on drawings	PDF – Page 397 (Revised description) on the Drawings
23.	Section 1031.2.3.2.b.ii	PDF – Page 392 specifications	PDF – Page 397 (Revised description) Specifications
24.	Section 1051.1.1.2	PDF – Page 532 <Non-existing Item>	PDF – Page 537 (Additional Description) b) TS Section 1012 Glass and Glazing
25.	Section 1051.2.1.5.a 1051.2.1.6.a 1051.2.1.8.a 1051.2.1.9.a	PDF – Page 535 - 536 <Non-existing Item>	PDF – Page 540 - 542 (Additional Description) (refer to TS Section 1012.2.1)
26.	Section 1051.2.1.5.c 1051.2.1.6.c 1051.2.1.7.c 1051.2.1.9.c 1051.2.1.10.c 1051.2.1.11.c	PDF – Page 535 - 537 handrail	PDF – Page 540 - 543 (Revised Description) top rail

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	1051.2.1.12.c		
27.	Section 1051.2.1.5.b	PDF - Page 535 12 mm thick tempered glass panels with custom-design security film	PDF - Page 540 (Revised Description) 21.52 mm thick full-tempered glass panel with 1.52 (PVB) polyvinyl butyral film interlayer and
28.	Section 1051.2.1.6.b	PDF – Page 536 12 mm thick tempered glass panel with custom-designed security film.	PDF – Page 541 (Revised Description) 21.52 mm thick full-tempered glass panel with 1.52 (PVB) polyvinyl butyral film interlayer and custom-designed security film.
29.	Section 1051.2.1.8	PDF - Page 536 <Non-existing Item>	PDF - Page 541(Additional Railing Specifications) BAL-05 Glass Railing a. Description: Fully tempered laminated glass railing (refer to TS Section 1012.2.1) , including all necessary fastenings, bracketing and accessories required to complete the installation. b. Material: 12 mm thick full-tempered laminated glass with 1.52 (PVB) polyvinyl butyral film interlayer and custom-designed security film at 1200mm height. c. Fastenings: All fastenings shall be concealed. d. Sealant: Refer to TS Section 1815 Sealants. e. Sizes, profile and configurations: As indicated in the Drawings. f. Methods of connection and fixings; As indicated in the Drawings.
30.	Section 1051.2.1.9	PDF - Page 536 BAL-05	PDF - Page 542 (Revised Description) BAL-05a
31.	Section 1051.2.1.9.b	PDF - Page 536 12 mm thick tempered glass with custom-design security film	PDF - Page 542 (Revised Description) 12 mm thick full-tempered laminated glass with 1.52 (PVB) polyvinyl butyral film interlayer and custom-designed security film.
32.	Section 1051.2.1.12.a	PDF – Page 537 Steel	PDF – Page 542 (Additional Description) Stainless steel

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33.	Section 1051.2.1.13	PDF – Page 537 Stainless	PDF – Page 543 (Additional Description) Stainless Steel			
34.	Section 1051.4.2	PDF - Page 543 <Non-existing Item>	PDF - Page 548 (New Pay Item for BAL-05) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">1051 (7)</td> <td style="width: 33%; text-align: center;">Glass Railing – Tempered Laminated Glass</td> <td style="width: 33%;"></td> </tr> </table>	1051 (7)	Glass Railing – Tempered Laminated Glass	
1051 (7)	Glass Railing – Tempered Laminated Glass					
35.	Section 1813.1 General	PDF – Page 651 CP106	PDF – Page 656 (Additional Description) CP106 Contractor			
36.	Section 1051.2.1.12	PDF – Page 537 Stainless Steel Handrail	PDF - Page 542 (Revised Description) Shortcut Prevention Stainless Steel Railing			
37.	Section 1804.2.2.2	PDF – Page 576 Polyvinylidene fluoride (PVF2)-coated	PDF - Page 581(Revised Description) powder-coated			
38.	Section 1805.2.1.2.g	PDF – Page 583 SS.316L	PDF - Page 588 (Revised Description) Type 340			
39.	Cover Page	PDF – Page 1 THE	PDF – Page 1 <Omitted>			
40.	C01.2.12 Codes, Standards and Regulations	PDF – Page 42 Non-existing item	PDF – Page 43 (Additional Description) 12) As needed for smooth execution and completion of the whole of the Works of this Package, the Contractor shall verify the proposed designs and dimensions shown on both the Drawings for the architectural works and the Drawings for the related underground civil works such as the underground station boxes, station entrances and various shafts, to confirm full			

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			<p>compatibility of the proposed Employer's designs and dimensions of the architectural works with those of the related underground civil works. Cause all of the relevant disciplines of the Contractor (e. g. architecture and civil disciplines) to cooperate with the Engineer in his coordination efforts in this regard. Promptly discuss with the Engineer as needed to solve any design/dimension discrepancy, incompatibility, ambiguity or other problems found during the above verification services or encountered on the work sites.</p> <p>13) As needed for smooth execution and completion of the whole of the Works of this Package, the Contractor shall verify the proposed designs and dimensions shown on both the Drawings for the architectural works and the Drawings for the related ground civil works in the vicinity of the buildings (i. e. station plazas, sidewalks, driveways, etc. within the Works boundary) such as the pavements, drainage systems and ground levels, to confirm full compatibility of the proposed Employer's designs and dimensions of the architectural works with those of the related ground civil works. Cause all of the relevant disciplines of the Contractor (e. g. architecture and civil disciplines) to cooperate with the Engineer in his coordination efforts in this regard. Promptly discuss with the Engineer as needed to solve any design/dimension discrepancy, incompatibility, ambiguity or other problems found during the above verification services or encountered on the work sites.</p> <p>14) As needed for smooth execution and completion of the whole of the Works of this Package, the Contractor shall verify the proposed Employer's designs and dimensions shown on both the Drawings for the architectural works and the Drawings for the related MEP works such as the elevators, escalators and other MEP equipment, preferably after the Contractor's appointment of manufacturers/suppliers of the respective MEP equipment, to confirm full compatibility of so-selected MEP equipment with the proposed designs and dimensions of the relevant architectural and civil works. Cause all of the relevant disciplines of the Contractor (e. g. architecture, civil and MEP disciplines) to cooperate with the Engineer in his coordination efforts in this regard. Promptly discuss with the Engineer as needed to solve any design/dimension discrepancy, incompatibility or ambiguity or other problems found during the above verification services or encountered on the work sites.</p>
41.	Section 1011.1.2.2.a.ii Summary	PDF – Page 229 Non-existing item	PDF – Page 231 (Additional Product) (ii) Automatic Fire Curtain

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42.	Section 1011.1.6.6 Codes and Standards	PDF – Page 231 Non-existing item	PDF – Page 234 (Additional Description) 6. German Institute for Standardization (DIN) DIN 4102-2-A2 Behavior of Building Materials and Components in Fire - Building Components According
43.	Section 1011.2.1.2.b Products	PDF – Page 234 to	PDF – Page 236 <Omitted>
44.	Section 1011.2.1.3.b Products	PDF – Page 234 to	PDF – Page 236 <Omitted>
45.	Section 1011.2.2.4 Product Selection	PDF – Page 235 Non-existing item	PDF – Page 237 (Additional Product Selections) 4) Automatic Fire Curtain a) Description: Automatic fire curtain room sealing with rod guiding including an access door and accessories for complete assembly. b) Manufacturer: Shall be proposed by the Contractor and to be consented by the Engineer. c) Fire Curtain Material: Stainless steel-reinforced glass fiber fabric with a fire-retardant Aluminum-filled polyurethane coating fabric from glass filament with stainless steel, non-flammable conforming to DIN 4102-2-A2 for 2 Hour fire protection. Fabric 640 GSM. d) Curtain Jamb Guides: Galvanized steel with exposed finish matching fire curtain. e) Hood Material: Galvanized steel matching fire curtain material and finish. f) Motor: Tubular motor 230V standard/ or failsafe. g) Fire Curtain Finish: Factory-finish. Manufacturer's standard color as approved by the Engineer.
46.	Section 1011.2.3.4 Performance Requirements	PDF – Page 236 Non-existing item	PDF – Page 239 (Additional Product Description) 4) Automatic Fire Curtain Assemblies: Provide emergency pull-back switch on both sides of the fire curtain. The control panel should contain a backup battery system. On normal operating conditions, the curtains will be held in the retracted position via the motors operating at stall voltage. Upon

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			<p>receiving signal from the detector, the control panel will remove the supply voltage and the curtain shall descend under the power of gravity in a controlled manner. The fire curtain should reset automatically when the control panel is reset. Battery must be 24volts.</p> <p>a) Provide the Engineer with copies of test certificates prior to manufacture.</p> <p>b) Smoke Control: Where indicated and in corridors and smoke barriers, provide doors that are listed and labeled with the letter "S" on the fire-rating label by a qualified testing agency for smoke- and draft-control based on testing according to UBC Standard 7-2 and UL 1784; with maximum air-leakage rate of 0.01524 m³/sec per m² of door opening at 24.9Pa pressure for both ambient and elevated temperature tests. Install and use in accordance with NFPA 105.</p> <p>c) Assemblies shall achieve the fire rating indicated in the Drawings.</p> <p>d) Assemblies shall be marked with a label or plug to confirm conformance to the NFPA requirements. Gravity fail safe systems are designed to ensure that even with a total power failure the curtain will still close down into a protection mode. A weighted bottom bar shall be provided to ensure correct operation.</p>
47.	Section 1011.2.4 Materials	PDF – Page 238 Non-existing item	<p>PDF – Page 242 (Additional Product Description)</p> <p>3) Automatic Fire Curtain</p> <p>a) Lateral Guide: Two-part guide rail galvanized sheet steel, w x h 83 mm x 54 mm with internal guide rod Ø 14 mm made of stainless steel</p> <p>b) Cover: Two-part, housing made of galvanized sheet steel</p> <p>c) Cloth Shaft: Ø 85 mm galvanized steel sheet with groove to accommodate curtain. Store shaft via rotatable double rollers in the area of the vertical seams of the curtain.</p> <p>d) Side Bearing: Galvanized sheet steel, with sliding holder for shaft, drive and cover.</p> <p>e) Covering: Wire-reinforced glass filament fabric according to DIN 4102-2-A2, silicon coated on both sides, weight approx. 810g/m², assembled in one piece, no sewing on the construction site.</p>
48.	Section 1011.2.5.3 Fabrication	PDF – Page 243 Non-existing item	<p>PDF – Page 246 (Additional Product Description)</p> <p>3) Automatic Fire Curtains</p>

			<p>a) Door Curtains</p> <p>(i) Fabricate automatic fire curtains of stainless steel-reinforced glass fiber, designed to withstand wind loading indicated, in a continuous length for width of opening without splices. Provide fire curtain thickness and mechanical properties as required and as approved by the Engineer for performance, size, and type of door indicated on the Drawings.</p> <p>(ii) Bottom Bar: Equip each automatic fire curtain bottom bar with a replaceable, adjustable, continuous, compressible gasket of flexible vinyl, rubber, or neoprene as a cushion bumper.</p> <p>(iii) Curtain Jamb Guides: Manufacturer's standard angles or channels with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain, and if required a continuous bar for holding windlocks.</p> <p>b) Curtain Accessories</p> <p>(i) Smoke Seals: Equip each automatic fire curtain with smoke seal perimeter gaskets for smoke and draft control as required for listing and labeling by a qualified testing agency.</p> <p>c) Hood: Form sheet metal hood to entirely enclose coiled fire curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting which projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.</p> <p>d) Electrical Operation: Drive by a 24V DC tubular motor installed in the cloth shaft, with limit switch for right and left running for exact adjustment of the drain length, with connection cable approx. 3m.</p>
49.	Section 1011.2.7 Source Quality Control	PDF – Page 244 Non-existing item	<p>PDF – Page 248 (Additional Product Description)</p> <p>3) Automatic Fire Curtain</p> <p>a) Submit industry-recognized independent third party's certification indicating compliance with the specified performance.</p> <p>b) Sealants: Submit written confirmation from the sealant manufacturer to the Engineer for consideration as to the suitability of the sealant for the application intended.</p> <p>c) Obtain all automatic fire curtains from a single source from a single manufacturer.</p>

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50.	Section 1011.4.2 Basis of Payment	PDF – Page 248 Non-existing item	PDF – Page 252 (Additional Product Payitem) <table border="1" data-bbox="1234 233 1861 272"> <tr> <td data-bbox="1234 233 1402 272">1011 (1) d</td> <td data-bbox="1402 233 1688 272">Automatic Fire Curtain</td> <td data-bbox="1688 233 1861 272">Square Meter</td> </tr> </table>	1011 (1) d	Automatic Fire Curtain	Square Meter
1011 (1) d	Automatic Fire Curtain	Square Meter				
51.	Section 1031.1.1.1.a	PDF – Page 388 a) Glass Wool Acoustic Panel	PDF – Page 392 (Revised Product Description) a) Glass Wool Blanket with Glass Fiber Cloth			
52.	Section 1031.2.1.1 Product Selection	PDF – Page 390 a) Glass Wool Acoustic Panel	PDF – Page 395(Revised Product Description) a) Glass Wool Blanket with Glass Fiber Cloth			
53.	Section 1031.4.2 Basis of Payment	PDF – Page 396 Glass Wool Acoustic Panel	PDF – Page 401 (Revised Product Payitem) <table border="1" data-bbox="1234 663 2029 751"> <tr> <td data-bbox="1234 663 1402 751">1031 (1) c</td> <td data-bbox="1402 663 1688 751">Glasswool Blanket with Glass Fiber Cloth</td> <td data-bbox="1688 663 2029 751">Square Meter</td> </tr> </table>	1031 (1) c	Glasswool Blanket with Glass Fiber Cloth	Square Meter
1031 (1) c	Glasswool Blanket with Glass Fiber Cloth	Square Meter				
54.	Section 1813.2.2.8 Performance Requirements	PDF – Page 658 8)Wind Pressure: Signage to withstand wind pressure between +300Pa and -300Pa with anti-wind pressure in train track	PDF – Page 663 (Additional Description) 8) Wind Pressure: Signage to withstand wind pressure between +300Pa and -300Pa with anti-wind pressure in train track including signage sub-frame/substrate materials as identified in the Drawings.			
55.	Appendix 3 Station Sign Standards Manual	PDF – Page 771 - 790 Updated image reference based on 27 August 2021 Station Sign Standards Manual	PDF – Page 776 - 795 Updated image reference based on 27 August 2021 Station Sign Standards Manual			
56.	Section 1006.2.1.4.d.ii	PDF - Page 210 2.0 mm	PDF - Page 212 (Revised Description) 1.2 mm			
57.	Section 1012.2.3.7 Performance Requirement	PDF - Page 255 <Non-existing Item>	PDF - Page 259 (Additional Description) 7) Custom-Designed Security Film: Film material shall consist of an optically clear polyester film, consisting of co-extruded micro-layers, with a durable acrylic abrasion resistant coating over one surface, and a UV stabilized pressure sensitive adhesive on the other. Film shall have a			

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			nominal thickness of 8 mils, total construction with adhesive of 9mils. Film color and design shall be selected from Manufacturer's standard catalogue and shall b3 approved by the Engineer.
58.	Section 1016.2.1.2.b	PDF - Page 276 8.0mm	PDF - Page 280 (Revised Description) 2.0mm
59.	Section 1016.2.1.3.b	PDF - Page 277 2.0mm	PDF - Page 281 (Revised Description) 5.0mm
60.	Section 1027.2.3.2 Movement joints	PDF - Page 365 a) External render shall incorporate flexible external joints with sealant and compressible joint-filler and bond-breaker. b) Stainless steel render beads shall be provided to both sides of the movement joint. c) Primary movement joints with internal plaster. d) 50 mm gasket seal on extruded aluminum assembly.	PDF - Page 369 (Updated Description) a. Fabricated from zinc or zinc-coated galvanized steel; one-piece-type, 50mm folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face joints with sealant and compressible joint-filler and bond breaker. b. Install control joints in specific locations As required to delineate plasterwork into areas (panels) of the following maximum sizes: 1. Vertical Surfaces: 13.4 sq. m 2. Horizontal and other Non Vertical Surfaces: 9.3 sq. m c. At distances between control joints of not greater than 18 feet (5.5 m) o.c. d. As required to delineate plasterwork into areas (panels) with length-to-width ratios of not greater than 2:1. e. Establish movement joints with double casing beads butted tight. Set both beads over a 150mm wide strip of polyethylene sheet for air seal continuity. f. Coordinate joint placement with other related work.
61.	Section 1032.2.1.1.e	PDF - Page 404 <Non-existing Item>	PDF - Page 410 (Additional Product Selection) e) Anti-Graffiti Coating (i) Description: Heavy duty anti-graffiti solvent coating applied to locations indicated on the Drawings suitable to surfaces including concrete, brick, metal, glass, and tile (ii) Manufacturer: As approved by the Engineer. (iii) Substrate: As indicated on the Drawings. (iv) Color: Clear, Matte Finish

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			(v) Preparation: In accordance with the paint manufacturer's recommendations. (vi) Application: Roller, brush or spray			
62.	Section 1032.4.2	PDF - Page 415 <Non-existing Pay Item>	PDF - Page 421 (New Pay Item) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">1032 (6)</td> <td style="width: 33%; text-align: center;">Anti-Graffiti Coating</td> <td style="width: 33%; text-align: center;">Square Meter</td> </tr> </table>	1032 (6)	Anti-Graffiti Coating	Square Meter
1032 (6)	Anti-Graffiti Coating	Square Meter				
63.	Section 1041.2.1.2.d 1041.2.1.3.d	PDF - Page 469 76	PDF - Page 475 (Revised Description) 78			
64.	1041.3.4 Fixing of Wall Stud	PDF - Page 474 610	PDF - Page 480 (Revised Description) 360			
65.	Section 1805.2.1.3.c AFC Floor Cover	PDF - Page 583 <Non-existing Item>	PDF - Page 589 (Additional Description) c) Material : Stainless Steel Type 304			
66.	Section 1805.2.2.1.c.i	PDF - Page 583 stainless steel grade 316	PDF - Page 590 (Revised Description) stainless steel grade Type 304			
67.	Section 1811.2.1.1.b 1811.2.1.2.b 1811.2.1.3.b Product Selections	PDF - Page 627 b) Material : Aluminum	PDF - Page 633 (Revised Description) b) Material : Aluminum – 1mm thick			
68.	Section 1811.2.1.4.b 1811.2.1.5.b 1811.2.1.6.b 1811.2.1.7.b 1811.2.1.8.b 1811.2.1.9.b	PDF - Page 628-629 <Non-existing Item>	PDF - Page 634-635 (Additional Description) b) Material : Aluminum – 1mm thick			

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	Product Selections		
69.	Section 1811.2.1.10.b 1811.2.1.11.b Product Selections	PDF - Page 629 <Non-existing Item>	PDF - Page 635 (Additional Description) b) Material : Stainless Steel, Type 304
70.	Section 1811.2.3.6.b	PDF - Page 631 The ceiling assemblies shall be fire resistant in accordance with the NFPA 251.	PDF - Page 637 <Omitted>
71.	Section 1812.2.1.4.b Built-ins	PDF - Page 648 <Non-existing Item>	PDF - Page 655 (Additional Description) b) Lactation Room Cabinet (i) Location: Lactation Room (ii) Description: High-density Particle (HDP) board in laminate finish including all necessary fastenings, bracketing and accessories required to complete the installation. (iii) Finish: Laminate finish frame and quartz countertop as indicated in the Drawings. (iv) Accessories: Built-in handles and keylock. (v) Sizes, Profile and configurations: As indicated in the Drawings. (vi) Methods of connection and fixings: As indicated in the Drawings.
72.	Section 1814.2.3.1	PDF - Page 668 Zinc-coated (Galvanized) Steel Sheet	PDF - Page 675 (Revised Description) Galvanized Steel Fluorourethane Baked Finish

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No.	Reference	Original	Corrected, Supplemented or Modified

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73.	No. GN-CE-CD-0023,0028~0029		Adjusted styles
74.	No. GN-CE-CD-0015,0017~0018,0020		Changed fillet
75.	No. GN-CE-CD-0019		Changed fillet and added dimension
76.	No. STN-CE-QA-0001,0004,0005 0008,0010~0013, 0017~0025, 0036,0039~0042 0116~0125, 0132~0135,0139, 0142 0219,0221,0278 0310,0311,0316, 0317,327,0329, 0330,0332,0333		Revised column capital
77.	No. STN-CE-QA-0014,0015 0315,0328,0331		Revised column capital and ESC support

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78.	No. STN-CE-QA-0107,0110,0111,0113,0127 0236,0255		Revised rebar
79.	No. STN-CE-QA-0109,0115,0138,0140,0141		Revised column capital and rebar
80.	No. STN-CE-QA-0112		Added cross section
81.	No. STN-CE-QA-0131,0143		Revised column capital and added cross section
82.	No. STN-CE-QA-0209 0313		Adjusted styles
83.	No. STN-CE-QA-0212,0214~0216,0222,0224,0227,0230,0231,0244,0251,0252,0257,0262,0267,0272,0276		Added dowel bars
84.	No. STN-CE-QA-0217,0223		Revised column capital and dowel bars

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85.	No. STN-CE-QA-0277		Revised column capital and anchorage length of rebar
86.	No. STN-CE-QA-0305~0307,0312,0314		Added wall
87.	No. STN-CE-QA-0308		Added wall and revised ESC support
88.	No. STN-CE-QA-0309,0324,0326,0334,0335,0337,0338,0340~0342,0344~0347,0349~035205020602~060407051209,1103,1211,1212		Revised ESC support
89.	No. STN-CE-QA-0202,0207		Change of hatching
90.	No. STN-CE-QA-0116,0117,0132,0133		Added note

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91.	No. STN-CE-QA-0315,0324,0326,0328,0331,0334,0337,0340,0342,0344,0346,0347,0349,0351,0352		Adjusted cutout of escalator
92.	No. STN-CE-EA-0014,0015,0314,0316,0318,0326~0328,0502		Revised ESC support
93.	No. STN-CE-EA-0301,0303,0304,0305,		Added and revised wall
94.	No. STN-CE-EA-0308		Added wall
95.	No. STN-CE-EA-0702,0815		Revised ESC pit
96.	No. STN-CE-EA-0006,0007,0008,0009,0025,0026,0031,0032,0035,0036,0314,0316		Adjusted styles
97.	No. STN-CE-EA-0010,0011,0012,0013,0014,0015,0312		Added opening for evacuation passages

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98.	No. STN-CE-EA-0107,0121,0124,0126		Added note
99.	No. STN-CE-EA-0303,0304,0305,0306		Adjusted position of walls
100.	No. STN-CE-EA-0318,0326,0329		Adjusted cutout of escalator

ERRATA

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No.	Reference	Original	Corrected, Supplemented or Modified
101.	No. TN-CE-TBM-0008		Added to note
102.	No. TN-CE-TBM-0054		Changed the layout of the drawing
103.	No. TN-CE-TBM-0055		Reinforcement detail added
104.	STN-AR-A-QA/EA-0002	General Notes	Updated note regarding fire protection
105.	STN-AR-A-QA/EA-0201	Specification of the escalator details and the toilet fixtures	Updated both to match the current drawing status

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106.	STN-AR-A-QA/ EA-0300-301	Area schedule was combined for station box and outdoor areas	Separated the areas of the station box and the outdoor equipment area
107.	STN-AR-A-QA/ EA-0500	Height of FVF-01 missing	Added flooring height of FVF-01
108.	STN-AR-A-QA/ EA-0600-602	Evacuation distance	Evacuation distance from the machine room area added
109.	STN-AR-A-QA/ EA-Plans	<ul style="list-style-type: none"> -Ramp length -Male WC toilet layout -Station Control Room and Fire Equipment Space -Beam and wall locations -Column sizes in the station box -PSD gates -Suspended pit elevator detail 	<ul style="list-style-type: none"> Ramp length updated according to BP 344 Revised the Male WC toilet layout to increase space between the urinal and the WC cubical. Updated the drawings to reflect the additional Station Control Room and the Fire Equipment Area. The additional beams and walls have been updated according to the civil drawings Updated column sizes and shape according to the station box Updated PSD gates according to railway systems Suspended pit elevator detail updated according to new vendor detail
110.	STN-AR-A-QA/ EA-2050		New drawing added to reflect the RCP fixtures in a legend
111.	STN-AR-A-QA/ EA-2903	Wall elevations	Wall elevations to match JDT comments
112.	STN-AR-A- QA/EA-9500	Toilet detail	Toilet detail updated to reflect fixing detail
113.	STN-AR-A-QA- 9700	Elevator detail	The suspended pit Elevator detail is updated
114.	STN-AR-A-EA- 4300	Elevator detail	The suspended pit Elevator detail is updated
115.	STN-AR-A- QA/EA-9001	U track and stud thickness	The U track and stud thickness has been updated to 76mm
116.	STN-AR-A- QA/EA-9190	Handrail height	Handrail height updated to 700mm

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117.	STN-AR-A-QA/EA-9191	Handrail height	Handrail height updated to 700mm
118.	STN-AR-A-QA/EA-9220	Cat ladder height	Cat ladder height revised to 6m height
119.	STN-AR-A-QA/EA-9230	Bird Mesh	Mesh description changed to insect screen to match with the TS and BOQ document
120.	STN-AR-A-AN/KP -ES details	Railing extension	Dimensions added to indicate the 300mm and 600mm extension.
121.	STN-AR-A-QA/EA -0201,0500,0501	<ol style="list-style-type: none"> 1. In Door and windows, 7 items and specification were mentioned 2. Toilet Fixtures specification 3. In finishing schedule, FVF-01 height was not mentioned as well as thickness was not specified in CLG -10 	<ol style="list-style-type: none"> 1. a) Hollow core steel door, louver door, roll up door and door frames are removed. b) 1.6 mm thick galvanized steel has been added in steel door and fire rated steel door panel. c) In Window item, SUS frame is mentioned. 2. The specifications are updated according to the latest material and type of sanitary ware are using. 3. In FVF-01 300mm height is included and 10mm thickness is also included in CLG-10
122.	STN-AR-A-QA/EA -1:400 PLANS & SECTIONS	<ol style="list-style-type: none"> 1. In VRF cooling tower unit. extruded aluminum vertical louvers were provided in the fence area. 2. The width of the wall was 200mm in the emergency staircase area. 3. Wall chamfer detail 4. Emergency staircase 5. Maintenance door in B2F level opening to the staircase 6. Civil Dwg 7. Ceiling Height 	<ol style="list-style-type: none"> 1. Noise barrier detail is added instead of fence in the cooling tower unit. 2. Emergency staircase wall is updated to 300mm. 3. In B1F level the detail which was shown in the detailing sheet is reflected same on the architectural drawing. 4. Two walls are added just beside the door to secure fire compartment. 5. Railing is provided Infront of the maintenance door in B2F level. 6. Architectural drawing is updated according to the civil. 7. Ceiling Height is updated to 3000mm clear and then 300mm after ceiling.

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<p>123.</p>	<p>STN-AR-A-QA/EA -1:100 PLANS & SECTIONS</p>	<ol style="list-style-type: none"> 1. Height and thickness was not mentioned in the finishing schedule 2. MEP fixture were not included in the cross section 3.1500mm clear space was not provided 4.UP/DOWN tag placed in the ground plan at emergency staircase area. 5.In VRF cooling tower unit. extruded aluminum vertical louvers were provided in the fence area. 6.The width of the wall was 200mm in the emergency staircase area. 7.No stiffener wall was provided in ticket sales room and customer service room 8.Wall chamfer detail 9. Emergency staircase 10.Maintanace door in B2F level opening to the staircase 11.Long section no railing is shown in front of the maintenance door 12. Civil Dwg 	<ol style="list-style-type: none"> 1. 300mm height in FVF-01 and 10mm thick in CLG-10 is specified in the finishing schedule. 2. MEP fixture are shown in the cross section. 3. 1500mm clear space is provided in emergency staircase. 4.The UP/DOWN tag placed in the emergency staircase area is removed from the ground level plan 5. Noise barrier detail is added instead of fence in the cooling tower unit. 6.Emergency staircase wall is updated to 300mm. 7. RCC stiffener wall is provided in both the rooms. 8. In B1F level the detail which was shown in the detailing sheet is reflected same on the architectural drawing. 9. Two walls are added just beside the door to secure fire compartment. 10.Railing is provided Infront of the maintenance door in B2F level. 11.Long section railing is shown in front of the maintenance door 12.Drawings are updated according to civil drawing
<p>124.</p>	<p>STN-AR-A- QA-4028-4031, 6031-6033 STN-AR-A- EA-4000-4004, 6041-6045</p>	<ol style="list-style-type: none"> 1. 300mm and 600 mm extensions was not mentioned in emergency staircase. 2. 900mm railing height was shown in emergency staircase and 710mm height for wall mounted railing 3.1500mm clear space was not provided 4.Emergency staircase wall 5.1500mm clear semicircle 6.Wet riser (LV) in the emergency staircase room 	<ol style="list-style-type: none"> 1. 300mm and 600mm extensions are drawn in the emergency staircase. 2. Railing height is updated to 1060mm and 700mm. 3. 1500mm clear space is provided in emergency staircase. 4.The width of the emergency staircase wall is updated in the section 5. 1500mm semicircle is provided also in the mid landing level. 6. Wet risers (LV) are moved towards corner of the wall.
<p>125.</p>	<p>STN-AR-A- QA-</p>	<ol style="list-style-type: none"> 1. Cleaners sink in Janitor room. 2. Sanitary ware legends 	<ol style="list-style-type: none"> 1. Cleaners sink is provided in the Janitor room. 2. Sanitary ware legend is updated; serial no. 7 is specified for

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	-5000-5005,5100-5110,5209-5214,5300-5301 STN-AR-A- EA--5302,5310,5000-5001,5100-5109,5201-5202,5212,5213,5300-5303,5310	3. Glass door in customer service room 4.Toilet cubicle in public male toilet. 5.Handicapped toilet room in Public toilet area (male& female) 6.Customer service room & Ticket Sales room	cleaners sink. 3. Fire rated door is provided in customer service room as well as RCC wall is given in ticket sale and customer service room due to which shutter size is reduced. 4.The orientation of the public male toilet cubicle is revised. 5.The room size of the handicapped toilet room is updated to 1700 x 1800mm 6.RCC stiffener wall is added in the customer service & ticket sales room.
126.	STN-AR-A- QA-7000-7008,7010-7401 STN-AR-A- EA-7000-7007,7008-7401	1. Glass door was provided in customer service room 2.Watertight doors 3.RCC stiffener 4.Fire shutter 5. Size of Access Panel 6. Sanitary ware schedule	1. Fire rated door is provided in customer service room 2. Watertight doors are shown. 3.RCC stiffener wall is shown in ticket sales room & customer service due to which shutter is reduced 4. Shutter width and section is updated 5. Size of the Access Panel updated to 500 x 875mm 6. Sanitary ware schedule updated to include cleaners sink and cleaners tap
127.	STN-AR-A- QA-8000-8260 STN-AR-A- EA-8000-8262	1. Customer service	1.Customer service information tag is updated according to the size of the counter window.
128.	STN-AR-A-QA/EA-9001	1. Sealant in wall type details	1.Fire sealant with backer rod is added.
129.	STN-AR-A-QA/EA-9062	1.Concourse false ceiling detail	1. Concourse false ceiling detail aluminum louver with insect net is updated to insect screen

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130.	STN-AR-A-QA/EA-9064	1. Typical detail of platform false ceiling	1. A gap is provided between the C type bracket and the wall tile and the tile is raised up to 200mm.
131.	STN-AR-A-QA/EA-9110	1. Reinforced concrete stiffener was not included 2. Typical detail of fire shutter	1. Reinforced concrete stiffener is shown in the detail. 2. Wall above lintel is removed
132.	STN-AR-A-QA/EA-9131	1. Typical detail of lift smoke shutter	1. Insect screen was added in the description title.
133.	STN-AR-A-QA/EA-9151	1. Typical detail of dry wall jamb	1. Fire door jamb is added which is reflecting on the plan.
134.	STN-AR-A-QA/EA-9190-9192	1. Typical Detail of BAL-01a & BAL-05 railing 2. Typical details of BAL-01a,01b & BAL-05 railing	1. SS hairline finish is added and drain is updated in the section 2. New sheet has been added
135.	STN-AR-A-QA/EA-9220-9230	1. The term bird mesh was written in vertical louver detail	1. Bird mesh term is updated to insect screen.
136.	STN-AR-A-QA/EA-9241	1. Typical Detail of Noise Barrier	1. New sheet has been added
137.	STN-AR-A-QA/EA-9310	1. Typical detail of ticket counter window	1. Block wall has been updated to RCC concrete lintel and RCC drop wall
138.	STN-AR-A-QA/EA-9670-9671	1. Typical detail of Elevator 02	1. Insect screen text has been added
139.	STN-AR-A-QA/EA-9700	1. Typical detail of EV-01	1. Typical detail of EV-01
140.	STN-AR-A-QA/EA-9810	1. Typical detail of emergency stair railing detail	1. Emergency stair railing is updated
141.	STN-AR-A-QA/EA-9830	1. Typical detail of corner chamfer detail	1. Corner chamfer detail is updated and wall has been added
142.	STN-AR-A-QA/EA-0104,0501	1. Sheet added 2. Ceiling height and finishes	1. Typical details of removable handrail at public staircase. 2. In finishing schedule ceiling height is provided in entrance staircase and also WPS-01 wall finishes is added.

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143.	STN-AR-A-QA/EA-0601,0802, PLANS & SECTIONS, DELIEVERY ROUTE, RCP, FLOOR FINISHES, ROOM DETAILS, WALL ELEVATION	1.Stiffner wall in customer service room was 600x600mm and in ticket sales room was 850x500mm 3.Fire shutter support column	1. Stiffener wall updated to 600x300mm and in L shaped room the corner column will remain intact 600x600mm in customer service and 850x300mm in ticket sales room. 3. Fire shutter support column is updated to 300 to 280mm and 20mm is required for isolation joint.
144.	STN-AR-A-QA/EA-ENTRANCE & EMERGENCY STAIRCASE	1.Drain Channel 2.Emergency staircase	1. Drain channel detail is updated according to the typical detail (AN/KP-9180). 2.Stiffner wall of 630x330mm is provided in the near emergency staircase at B1F level.
145.	STN-AR-A-QA/EA-DOOR DETAIL DWG	1. Access control 2.Fire shutter in customer service & ticket sales room	1. Access control for the emergency door got revised. 2.The length of the fire shutter got updated.
146.	STN-AR-A-QA/EA-9110	Typical Detail of Fire Shutter	1.Fire shutter support column got updated from 300mm to 280mm and 20mm is for isolation joint.
147.	STN-AR-A-QA/EA-9180	1.Typical detail of entrance parapet along with down take pipe	1.Drain channel updated.
148.	STN-AR-A-QA/EA-9191,9192	1.Typical detail of BAL-01b & BAL-05 railing 2.Material specification	1.wall finish WPS-01 (Cementitious waterproofing) has been added. 2.Sealeant has been added
149.	STN-AR-A-QA/EA-9230	1.Typical details of vertical louvers	1.Size of the Drain channel got revised.
150.	STN-AR-A-QA/EA-9830	1.Typical details of corner chamfer detail	1.Fire shutter support column got updated from 300mm to 280mm and 20mm is for isolation joint.
151.	STN-AR-A-QA/EA-9880	1.Typical details of removable handrail at public staircase	1. Typical details of removable handrail at public staircase drawing has been added

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152.	STN-AR-A-QA/EA-1003 & 7001/7002	1.Customer service door	1. Both the doors of the customer service office is changed from a steel fire rated door to a steel fire rated door with vision panel (T2C).
153.	STN-AR-A-QA/EA-500	1.Description of BAL-03a 2.Description of BAL-03b 3. Description of GL-04	1. BAL-03a description updated to 38MM Ø SS Handrail with 21.52 MM THK (10MM+1.52PVB+10MM) Fully tempered (FT) Laminated Glass., H=1400 2. BAL-03b description updated to 21.52MM (10MM+1.52PVB+10MM) Fully tempered (FT) Laminated Glass, H=1200 Glass Panel size: 900 (W) x 1100 (H) 3. GL-04 description updated to 25 MM (12MM+1.52 PVB+12MM) 2-Hour Fire-Rated Fully Tempered Laminated Glass Panel Size: 1750 H X 1825 W (MAX)
154.	STN-AR-A-QA-0600	1.Ramp at entrance 3	1. The ramp landing length was changed to 150mm
155.	STN-AR-A-QA-0601-604	1.Additional civil wall lengths 2. Column configuration 3. Emergency escape wall thickness	1. The length of the additional civil walls was updated to match with civil drawing 2. Column configuration is updated to match civil drawing 3. Emergency escape wall thicknesses are updated to match structural drawings
156.	STN-AR-A-EA-0601-603	1.Civil wall and cut out sizes at B1F level 2.Cut out and civil wall location 3.Emergency escape wall thickness	1. The civil wall at grid 12-29 was modified to block wall. The size of the cut out between grid 2-4 was updated. Additional frames were added at entrance 3 and 4 2. The location of the S&T cut out is updated 3. The wall thickness of the emergency escape is updated to match with the structural drawing
157.	STN-AR-A-QA-0801-803	1.Additional civil wall lengths 2. Column configuration 3. Emergency escape wall thickness	1. The length of the additional civil walls was updated to match with civil drawing 2. Column configuration is updated to match civil drawing 3. Emergency escape wall thicknesses are updated to match structural drawings
158.	STN-AR-A-EA-0801-0803	1.Civil wall and cut out sizes at B1F level 2.Cut out and civil wall location 3.Emergency escape wall thickness	1. The civil wall at grid 12-29 was modified to block wall. The size of the cut out between grid 2-4 was updated. Additional frames were added at entrance 3 and 4 2. S&T cut out location and the length of the additional civil wall updated according to civil drawing.

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			3. Wall thickness of the emergency escape updated to match with the structural drawings
159.	STN-AR-A-QA-1001	1. Entrance 3 ramp length	1. The landing length of the ramp at entrance 3 was updated to 1500mm to comply with the code
160.	STN-AR-A-EA-1002	1. Civil wall location and type	1. Updated the location of the civil wall to grid 12 and 29 and changed it to 150mm block wall
161.	STN-AR-A-QA/EA-1003	1. Floor drain in garbage room and next to urinal 2. Additional civil wall length 3. Wall thickness of emergency escape 4. Cut out size and location	1. Added floor drain in garbage room and urinals 2. The length of the additional civil walls matched with the updated civil drawing 3. Wall thickness of emergency escape updated to match with structural drawings 4. Cut out sizes and locations updated to match with the civil drawing
162.	STN-AR-A-QA/EA-1004	1. Door to machine and TVF room 2. Additional civil wall length 3. Cut out size and location 4. Wall thickness of emergency escape	1. The door detail leading to machine and TVF room has been updated to incorporate a smaller leaf for maintenance and evacuation purpose. 2. The length of the additional civil walls matched with the updated civil drawing 3. Cut out sizes and locations updated to match with the civil drawing 4. Wall thickness of emergency escape updated to match with structural drawings
163.	STN-AR-A-QA/EA-1005	1. Janitor room in platform level 2. Wall thickness of emergency escape	1. Added 1m x 1m cut out to access the sump pit below 2. Wall thickness of emergency escape updated to match with structural drawings
164.	STN-AR-A-QA-1006	1. Janitor room in platform level 2. Wall thickness of emergency escape 3. Escalator pit size	1. Added 1m x 1m cut out to access the sump pit below 2. Wall thickness of emergency escape updated to match with structural drawings 3. Escalator pit size updated to match with civil
165.	STN-AR-A-EA-1006	1. Tunnel separation wall	1. Updated the location of the tunnel separation wall according to civil
166.	STN-AR-A-QA-1011	1. Sump pit depth	1. Updated the depth and size of the sump pit according to the civil drawing

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167.	STN-AR-A-EA-1011	<ol style="list-style-type: none"> 1.Civil wall location and type 2. Wall thickness of emergency escape 3.Escalator pit depth 4.S&T cut out 	<ol style="list-style-type: none"> 1. Updated the location of the civil wall at grid 12 and 29 and changed it to 150mm block wall 2. Wall thickness of emergency escape updated to match with structural drawings 3. Escalator pit depth changed to 1600mm to match with civil 4. Location of S&T cut out updated to match with civil
168.	STN-AR-A-QA-1012	<ol style="list-style-type: none"> 1. Escalator pit depth 2.False ceiling profile above stair & escalator combination 3.Cut out size 4. Wall thickness of emergency escape 	<ol style="list-style-type: none"> 1. Escalator pit depth changed to 1600mm to match with civil 2. False ceiling profile updated to maintain a clear head of 3m 3. Civil cut out size length at grid 2-4 updated to match with civil 4. Wall thickness of emergency escape updated to match with structural drawings
169.	STN-AR-A-EA-1012	<ol style="list-style-type: none"> 1.Civil wall location and type 2.Escalator pit depth 3.Relief cut out 	<ol style="list-style-type: none"> 1. Updated the location of the civil wall at grid 12 and 29 and changed it to 150mm block wall 2. Escalator pit depth changed to 1600mm to match with civil 3. Location of relief cut out updated to match with civil
170.	STN-AR-A-EA-1700 and 1702	<ol style="list-style-type: none"> 1. Tunnel separation wall 	<ol style="list-style-type: none"> 1. The location of the wall under the platform slab has been updated to match with civil
171.	STN-AR-A-QA-1802	<ol style="list-style-type: none"> 1.Entrance false ceiling 	<ol style="list-style-type: none"> 1. The finish type of false ceiling at entrance updated to CLG-03
172.	STN-AR-A-EA-1800 and 1804	<ol style="list-style-type: none"> 1.Civil wall location and type 2. Wall thickness of emergency escape 3.Escalator pit depth 4.S&T cut out 	<ol style="list-style-type: none"> 1. Updated the location of the civil wall at grid 12 and 29 and changed it to 150mm block wall 2. Wall thickness of emergency escape updated to match with structural drawings 3. Escalator pit depth changed to 1600mm to match with civil 4. Location of S&T cut out updated to match with civil
173.	STN-AR-A-EA-1805-1806 and 1808	<ol style="list-style-type: none"> 1.Civil wall location and type 2.Escalator pit depth 3.Relief cut out 	<ol style="list-style-type: none"> 1. Updated the location of the civil wall at grid 12 and 29 and changed it to 150mm block wall 2. Escalator pit depth changed to 1600mm to match with civil 3. Location of relief cut out updated to match with civil
174.	STN-AR-A-QA-1900-1902	<ol style="list-style-type: none"> 1.Staircase/ escalator cut out length 2.Sump pit depth 	<ol style="list-style-type: none"> 1. Staircase/ escalator bank cut out updated according to the civil drawing 2. Updated the depth and size of the sump pit according to the civil drawing

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175.	STN-AR-A-QA-1904-1908	<ol style="list-style-type: none"> 1. Escalator pit depth 2. False ceiling profile above stair & escalator combination 3. Cut out size 4. Wall thickness of emergency escape 	<ol style="list-style-type: none"> 1. Escalator pit depth changed to 1600mm to match with civil 2. False ceiling profile updated to maintain a clear head of 3m 3. Civil cut out size length at grid 2-4 updated to match with civil 4. Wall thickness of emergency escape updated to match with structural drawings
176.	STN-AR-A-QA-3103 and 3107-3108 and STN-AR-A-EA-3102-3106	<ol style="list-style-type: none"> 1. Customer service and ticket office counter 	<ol style="list-style-type: none"> 1. The height of the normal counter in the ticket office and customer service was updated to 1000mm from FFL
177.	STN-AR-A-QA-3105	<ol style="list-style-type: none"> 1. Glass panel location 	<ol style="list-style-type: none"> 1. Updated the glass panel location to have the joint come over the center of the door opening.
178.	STN-AR-A-QA-4010	<ol style="list-style-type: none"> 1. Staircase/ escalator cut out 	<ol style="list-style-type: none"> 1. The cutout sizes for the staircase/ escalator bank has been changed to match with civil
179.	STN-AR-A-QA-4019 and STN-AR-A-EA-4012 and 4018	<ol style="list-style-type: none"> 1. Escalator pit depth 	<ol style="list-style-type: none"> 1. Escalator pit depth updated to match with civil
180.	STN-AR-A-QA-4028-4029	<ol style="list-style-type: none"> 1. Additional civil wall length 2. Cut out size 	<ol style="list-style-type: none"> 1. The length of the additional civil wall at B1F level updated to match with civil 2. Cut out size of emergency escape at B2F level updated to match with civil
181.	STN-AR-A-QA-4030-4031	<ol style="list-style-type: none"> 1. Wall thickness of emergency escape 	<ol style="list-style-type: none"> 1. Wall thickness of emergency escape updated to match with structural drawings
182.	STN-AR-A-EA-4000-4004	<ol style="list-style-type: none"> 1. Staircase wall thickness 	<ol style="list-style-type: none"> 1. Wall thickness of emergency escape updated to match with structural drawings
183.	STN-AR-A-EA-4015-4016	<ol style="list-style-type: none"> 1. Staircase finish 2. Wall below staircase 	<ol style="list-style-type: none"> 1. Thickness of staircase updated to 150mm as kept at other locations 2. Location of wall below the staircase updated to match with civil
184.	STN-AR-A-EA-4018	<ol style="list-style-type: none"> 1. Escalator pit 	<ol style="list-style-type: none"> 1. Escalator pit depth updated to match with civil

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185.	STN-AR-A-EA-5000 -5105 and 5300-5310	1.Floor drain location	1. The number of floor drains and location was updated according to the plumbing drawing
186.	STN-AR-A-EA-5201-5213	1.Customer service and ticket office counter	1. The height of the normal counter in the ticket office and customer service was updated to 1000mm from FFL
187.	STN-AR-A-QA-5000 – 5110 and 5300-5301	1.Floor drain location	1. The number of floor drains and location was updated according to the plumbing drawing
188.	STN-AR-A-QA-5209 - 5214	1.Customer service and ticket office counter	1. The height of the normal counter in the ticket office and customer service was updated to 1000mm from FFL
189.	STN-AR-A-QA-6002	1.Escalator pit size	1. Escalator pit size updated to match with civil
190.	STN-AR-A-QA-6012	1.False ceiling type	1. The false ceiling was updated to CLG-03
191.	STN-AR-A-QA-6014 and 6015	1.TVS cut out size 2.False ceiling type	1. The TVS cut out size and location updated to match with the civil drawing 2. False ceiling type is updated to CLG-02
192.	STN-AR-A-QA-6022 and 6024 - 6026	1.Ramp length in entrance 2.Length of additional civil wall 3.False ceiling type	1. Ramp length updated to comply with local code 2. Additional civil wall length updated 3. False ceiling type updated to CLG-03
193.	STN-AR-A-EA-6001	1.Length of the cut out	1. The length for the staircase escalator has been updated to match with civil
194.	STN-AR-A-EA-6012, 6022 and 6033	1.Additional civil wall	1. The additional frames at entrance 3 length updated to match with civil
195.	STN-AR-A-QA/EA-7017 and 7014	1.Door type T9	1. A single leaf door has been accommodated in the door type T9 to comply with the local code

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196.	STN-AR-A-QA/EA-9030	1.Upstand detail for internal walls	1. Added two upstand details to indicate the detail of upstand at standalone 150mm block wall and 150mm cavity block wall
197.	STN-AR-A-QA/EA-9062	1.Glass thickness of GL-05	1. The glass thickness of GL-05 has been updated to 16mm thick
198.	STN-AR-A-QA/EA-9191	1.Handrail detail BAL-05	1. Handrail detail BAL-05 updated to indicate additional handrail for people to hold on to when the handrail of the escalator finishes and the cut out continues
199.	STN-AR-A-QA/EA-9192	1.Handrail detail BAL-05	1. Additional fixing details added to indicate the fixing of the additional handrail on BAL-05
200.	STN-AR-A-QA/EA-9250	1.Partition wall glass thickness 2.Selant type	1. Partition wall glass thickness updated to 16mm thick 2. The sealant type updated to silicon sealant
201.	STN-AR-A-QA/EA-9251	1.Glass thickness in BAL-03a	1. Glass thickness in BAL-03a updated to 38mm thick
202.	STN-AR-A-QA/EA-9252	1.Glass thickness in BAL-03b	1. Glass thickness in BAL-03b updated to 21.52mm thick
203.	STN-AR-A-QA/EA-9300	1.Glass thickness of the door separating the paid and unpaid area	1. The glass thickness of the door separating the paid and unpaid area has been increased to 16mm thick
204.	STN-AR-A-QA/EA-9610	1.Urinal partition wall material	1. Updated the material of the partition in the urinals from Quartz to Phenolic board
205.	STN-AR-A-QA/EA-9670 & 9671	1.Elevator detail 2.Glass thickness	1. Elevator glass fixing detail updated to spider fixing 2. Glass thickness updated to 25mm thick 2 fire rated fully tempered laminated glass
206.	STN-AR-A-QA-0103 STN-AR-A-EA-0105	1.List of drawings	1.List of drawings updated with addition of drawing number 9132.
207.	STN-AR-A-QA/EA-9130 & 9131	1.Typical detail of elevator smoke shutter.	1.Elevation-A updated with glass joint line.

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208.	STN-AR-A-QA/EA-9132	-	1.Elevator elevations
209.	STN-AR-A-QA/EA-9670	Glass fitting	Spider fitting is indicated in the detail
210.	STN-AR-A-QA/EA-9890	-	1.Detail of door with a pocket door for evacuation and maintenance purpose.
211.	STN-AR-A-QA-1003	1.Toilet in public male and female 2.Fire rated glass and shutter	1.Labelled the large toilet in the public male and female toilet as "Large Toilet" 2.Removed the fire rated glass from the multipurpose/ commercial area and added fire shutters with door.
212.	STN-AR-A-EA-1003	1.Toilet in public male and female 2.Ticket office window	1.Labelled the large toilet in the public male and female toilet as "Large Toilet" 2.Updated the length of the ticket office window to modularize the length
213.	STN-AR-A-QA/EA-3103 & 3105	1.Glass panel size at public toilet	1.The glass panel length was updated from 1200mm to 1800mm
214.	STN-AR-A-QA/EA-9191	1.Detail B & D	1.Detail B & D is updated to indicate stainless steel plate along the escalator side
215.	STN-AR-A-QA/EA-1100-1604	1.Finish Legend	1.Description of BAL-03b, WPS-01 and 03 has been updated according to the detail drawings and finish schedule
216.	STN-AR-A-QA/EA-0501	1.Finish Schedule	1.Wall and floor water proofing finish is added in Security WC and Shower
217.	STN-AR-A-QA/EA-9330	1.Gutter width	1.Added the gutter width of 400mm
218.	STN-AR-A-QA/EA-0200	1.Specification	1.Waterproofing from platform level has been removed
219.	STN-AR-A-QA/EA-6000-6038	1.Entrance Signage	1.The roof mounted signage has been removed from the entrance drawings to match with the signage schedule

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220.	STN-AR-A-QA/EA-0103-0104 & 0105	1.Drawing list	1.Updated the drawing list to indicate the new detail drawings
221.	STN-AR-A-QA-8055	1.Signage Fixing Detail	1.Removed the fixing detail of the roof mounted signage from the detail sheet
222.	STN-AR-A-QA/EA-0200	1.Specification sheet	1. General item list has been updated
223.	STN-AR-A- QA/EA-0500	1.Finishing legend	1.The description of glass wool has been updated
224.	STN-AR-A- QA/EA-1002	1.Scupper drain and escalator/ elevator sump pit	1.Removed the scupper drain and escalator/ elevator sump pit
225.	STN-AR-A- QA/EA-1004	1.Pump room scupper drain	1.Added the scupper drain in the pump room at mezzanine level
226.	STN-AR-A- QA/EA-5201-5202	1.Ticket office detail	1.The ticket office window detail has been updated
227.	STN-AR-A- QA/EA-7003 to 7021	1.Door schedule	1.Door schedule for the additional fire shutter updated 2.Door schedule for the machine room door updated along with the ironmongery
228.	STN-AR-A- QA/EA-9002	1.Finish fixing detail	1.The fixing detail of the ceramic tile has been updated
229.	STN-AR-A- QA/EA-9130 to 9132	1.Fixing detail of fire curtain 2.Material finish above the elevator glass in platform level	1.Updated the fixing detail of the fire curtain 2.Updated the material finish to steel plate above the elevator in platform level
230.	STN-AR-A- QA/EA-9670 to 9671	1.Fixing detail of the fire curtain 2.Fixing detail of the spider fitting	1.Updated the fixing detail of the fire curtain at the elevator 2.Updated the spider fitting of the glass at the elevator
231.	STN-AR-A- QA/EA-9900	-	1.Added the detail of the ramp in the system room

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232.	STN-AR-A- QA/EA-0104	1.Drawing list	1.Added new ramp detail drawing number
233.	STN-AR-A- QA/EA-0200	1.Specification sheet	1.Updated the specification title for concourse waterproofing and sealants to Gutter between Cavity wall and D-Wall 2.Updated the sets of blueprints being provided to the contractor
234.	STN-AR-A- QA/EA-1004	1.Ramp slope in system rooms	1.Updated the slope of the ramps in the system rooms
235.	STN-AR-A- QA/EA-7002 and 7030	1.Window schedule	1.Added the window schedule for the windows in the ticket office and customer service office
236.	STN-AR-A- QA/EA-7012, 7018 and 7008, 7015	1.Door at garbage room	1.The door at garbage room has been updated to indicate a fire rated grill for fresh air intake
237.	STN-AR-A-QA/EA-0200 & 0201	1.The waterproofing specification 2.Painting area	1.The location for each waterproofing has been added 2.A note to indicate the graffiti paint works on the external walls for the above ground structures has been added
238.	STN-AR-A-QA/EA-7008 to 7010	1.Door type	1.The door type for the janitor room, multipurpose toilet and large toilet has been modified and louver has been added.
239.	STN-AR-A-QA/EA-7014 to 7015	1.Door elevation	1.Door elevations modified to indicate the louvers
240.	STN-AR-A-QA/EA-7100 to 7101	1.Access panel	1.Height of the Wall access panel size changed to 580mm as the insect screen was removed
241.	STN-AR-A-QA/EA-7102	1.Access panel elevation	1.Elevation of the wall access panel modified according to the schedule
242.	STN-AR-A-QA/EA-7401	1.Lactation room furniture 2.Number of lockers	1.The fridge from the lactation room was removed 2.The description of number of lockers expanded
243.	STN-AR-A-QA-1003	1.Drain channel 2.Waller beam 3.Commercial space	1.Drain channels added at the entrances 2.Waller beams indicated according to the civil drawings 3.Block walls removed from the commercial space add fire shutters added

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244.	STN-AR-A-QA-1004	1.Waller beam	1.Waller beam indicated according to the civil drawings
245.	STN-AR-A-QA-1005	1.Column capital 2.Fire shutter column	1.Column capital indicated according to the civil drawings 2.Fire shutter column updated to architectural block wall.
246.	STN-AR-A-QA-1006	1.Column capital & waller beam	1.Column capital and waller beam location and length has been updated according to civil drawing
247.	STN-AR-A-QA-1011 and 1012	1.Column capital	1.Column capitals added to the columns according to the civil drawing
248.	STN-AR-A-QA-1201 and 1202	1.Number of lockers in staff locker and security lockers	1.Locker numbers updated in staff lockers and security locker space
249.	STN-AR-A-QA-5108	1.Poder space	1.Powder space indicated in the elevation drawing
250.	STN-AR-A-QA/EA-9600	1.Wash basin and powder space	1.The powder space detail has been added and wash basin detail updated.
251.	STN-AR-A-QA/EA-9640	1.Pantry detail	1.Pantry detail updated according to indicate the embedded induction and removal oven
252.	STN-AR-A-QA/EA-9890	1.Machine room door	1.Machine room door updated to remove the 100mm sill
253.	STN-AR-A-EA-1002	1.B1F block wall location	1.Block wall location updated according to the civil location
254.	STN-AR-A-EA-1003	1.Drain channel 2.S&T cut out	1.Drain channel at the entrance location has been added 2.S&T cut out location updated according to the civil drawing
255.	STN-AR-A-EA-1004	1.Waller beam 2.S&T cut out location 3.Frame around shaft connections	1.Waller beam lengths updated to match civil drawing 2.S&T cut out location updated to match the civil drawing 3.Frame around shaft connections updated to match with the civil drawing

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256.	STN-AR-A-EA-1005	1.S&T Cut out	1.S&T cut out location updated to match with the civil drawing
257.	STN-AR-A-EA-1011	1.Column Capital 2.S&T cut out 3.Block wall location at B1F level	1.Column capital updated to match with the civil drawing 2.S&T cut out location updated to match with the civil drawing 3.Location of block wall at B1F level updated to match with the civil drawing
258.	STA-S-QA-3000	Drawing Index	1Additional sheet for Miscellaneous Details to include details of additional fire shutter supports.
259.	STA-S-QA-3115	Miscellaneous Details – Sheet 1 of 2	1Added details for the supports of additional fire shutters. 2. Reflected civil column capitals. 3. Adjusted beam depths to avoid clashing with the civil column capitals.
260.	STA-S-QA-3116	Miscellaneous Details – Sheet 2 of 2	1. New drawing sheet for Miscellaneous Details to include details of additional fire shutter supports
261.	STA-S-EA-3115	Miscellaneous Details	1. Corrected section details for ticket counter and customer service area.
262.	QUEZON AVENUE STATION PLAZA	N/A	Additional drawing, SPL-A-LA-QA-2801

ERRATA to Volume II Part 2: Works Requirements >> Section VI Works Requirements >> Employer's Drawings		
No.	Bid Clarify/ GC Comment Doc Name	Correction
MEPF		
263.	Revised Drawing East Avenue Drawings: STN-MEP-ELL-EA-2001-2	20% Spare Capacity for Panel Added Scope Demarcation Updated Fire Panel Schematic Updated

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	<p>STN-MEP-ELL-EA-2002-1 STN-MEP-ELL-EA-2003-1 STN-MEP-ELL-EA-2004-2 STN-MEP-ELL-EA-2005-3 STN-MEP-ELL-EA-2006-3 Quezon Avenue Drawings: STN-MEP-ELL-QA-2001-2 STN-MEP-ELL-QA-2002-1 STN-MEP-ELL-QA-2003-1 STN-MEP-ELL-QA-2004-3 STN-MEP-ELL-QA-2005-1 STN-MEP-ELL-QA-2006-1 STN-MEP-ELL-QA-2006-2</p>	
<p>264.</p>	<p>East Avenue Drawings: STN-MEP-ELL-TNL-EA-0101-0 STN-MEP-ELL-TNL-EA-2001-0 Quezon Avenue Drawings: STN-MEP-ELL-TNL-QA-0101-0 STN-MEP-ELL-TNL-QA-2001-0 STN-MEP-ELL-TNL-QA-2002-0</p>	<p>Tunnel Lighting and Power schematic drawings added.</p>
<p>265.</p>	<p>Revised Drawing Quezon Avenue Drawings: STN-MEP-FPS-QA-2201-2. STN-MEP-FPS-QA-3212-1. STN-MEP-FPS-QA-3214-2. STN-MEP-FPS-QA-3242-1.</p>	<p>FIRE PROTECTION SYSTEM: Sprinklers added in the BOH Toilet & Shower Areas. FIRE PROTECTION SYSTEM: Sidewall Sprinklers added to the Janitor Room at Platform Level.</p>

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	<p>East Avenue Drawings: STN-MEP-FPS-EA-2201-2. STN-MEP-FPS-EA-3221-1. STN-MEP-FPS-EA-3225-2. STN-MEP-FPS-EA-3226-1. STN-MEP-FPS-EA-3241-1.</p>	
266.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-STN-EA-0101-6</p> <p>Quezon Avenue Drawings: STN-MEP-STN-QA-0101-6</p>	<p>PLUMBING SYSTEM, Drawing List updated due to addition of new drawings</p>
267.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-STN-EA-4105-6 STN-MEP-STN-EA-4106-6</p> <p>Quezon Avenue Drawings: STN-MEP-STN-QA-4105-6 STN-MEP-STN-QA-4106-6</p>	<p>PLUMBING SYSTEM, Addition Domestic water pump section details</p>
268.	<p>Revised Drawing</p> <p>East Avenue Drawings:</p>	<p>PLUMBING SYSTEM, Addition of Isometric drawing</p>

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	<p>STN-MEP-STN-EA-4101-0 STN-MEP-STN-EA-4102-0 STN-MEP-STN-EA-4103-0 STN-MEP-STN-EA-4104-0</p> <p>Quezon Avenue Drawings: STN-MEP-STN-QA-4101-0 STN-MEP-STN-QA-4102-0 STN-MEP-STN-QA-4103-0 STN-MEP-STN-QA-4104-0</p>	
269.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-STN-EA-5301-6</p> <p>Quezon Avenue Drawings: STN-MEP-STN-QA-5301-6</p>	<p>PLUMBING SYSTEM Equipment Schedule update, SS tank for Janitor Room</p>
270.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-STN-EA-4301-0 STN-MEP-STN-EA-4302-0 STN-MEP-STN-EA-4303-0 STN-MEP-STN-EA-4304-0</p> <p>Quezon Avenue Drawings:</p>	<p>PLUMBING SYSTEM, Addition of Isometric drawing</p>

Annex "B"

	<p>STN-MEP-STN-QA-4301-0 STN-MEP-STN-QA-4302-0 STN-MEP-STN-QA-4303-0 STN-MEP-STN-QA-4304-0</p>	
271.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-STN-EA-0301-6</p> <p>Quezon Avenue Drawings: STN-MEP-STN-QA-0301-6</p>	<p>PLUMBING SYSTEM, Drawing List updated due to addition of new drawings</p>
272.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-STN-EA-5101 STN-MEP-STN-EA-5201 STN-MEP-STN-EA-5301</p> <p>Quezon Avenue Drawings: STN-MEP-STN-QA-5101 STN-MEP-STN-QA-5201 STN-MEP-STN-QA-5301</p>	<p>PLUMBING SYSTEM, Equipment Schedule updated,</p>
273.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-PLD-EA-5301</p>	<p>PLUMBING SYSTEM, Equipment Schedule Updated</p>

Annex "B"

	<p>STN-MEP-PLD-EA-5101</p> <p>Quezon Avenue Drawings: STN-MEP-PLD-QA-5301 STN-MEP-PLD-QA-5101</p>	
274.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-PLD-EA-2201 STN-MEP-PLD-EA-3240 STN-MEP-PLD-EA-3241 STN-MEP-PLD-EA-3242 STN-MEP-PLD-EA-3243 STN-MEP-PLD-EA-3244 STN-MEP-PLD-EA-3245</p>	<p>PLUMBING SYSTEM, FHC drain provided at platform level</p>
275.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-PLD-EA-3226 STN-MEP-PLD-EA-3232 STN-MEP-PLD-EA-3116 STN-MEP-PLD-EA-4105</p> <p>Quezon Avenue Drawings: STN-MEP-PLD-QA-3233 STN-MEP-PLD-QA-3133 STN-MEP-PLD-QA-4105</p>	<p>PLUMBING SYSTEM, Drain channel location in pump room updated</p>

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276.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-PLD-EA-3206 STN-MEP-PLD-EA-3226 STN-MEP-PLD-EA-3235</p>	<p>PLUMBING SYSTEM, Drainage discharge pipe size updated</p>
277.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-PLD-EA-3212 STN-MEP-PLD-EA-3215 STN-MEP-PLD-EA-3216 STN-MEP-PLD-EA-3221 STN-MEP-PLD-EA-3222 STN-MEP-PLD-EA-3225</p> <p>Quezon Avenue Drawings: STN-MEP-PLD-QA-3206 STN-MEP-PLD-QA-3211 STN-MEP-PLD-QA-3214</p>	<p>PLUMBING SYSTEM, 200mm wide drain channel in front of escalator & escalator pit is deleted</p>
278.	<p>Revised Drawing</p>	<p>PLUMBING SYSTEM, New Drawing Added</p>

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	<p>CWD DRAWINGS: STN-MEP-PLD-CWD-0100</p>	
279.	<p>Revised Drawing</p> <p>CWD DRAWINGS: STN-MEP-PLD-CWD-1201</p>	<p>PLUMBING SYSTEM, Drainage System Typical Details</p>
280.	<p>Revised Drawing</p> <p>East Avenue Drawings: STN-MEP-VAC-EA-5101-3 STN-MEP-VAC-EA-5102-2 STN-MEP-VAC-EA-5104-1 STN-MEP-VAC-EA-5106-3 STN-MEP-VAC-EA-5108-1 STN-MEP-VAC-EA-3120-3126-3 STN-MEP-VAC-EA-3130-3135-3 STN-MEP-VAC-EA-3121-3126-2 STN-MEP-VAC-EA-3131-3135-2 STN-MEP-VAC-EA-3141-3145-2 STN-MEP-VAC-EA-2104-1 STN-MEP-VAC-EA-3221-2 STN-MEP-VAC-EA-3231-3235-2</p>	<p>BOD added for all Duct Layouts BOP added for all Chilled Water Piping Layouts Update the schedule of WCC, ACC & Pumps. Update the AHU schedule. Update the Indoor units & Expansion Tank schedule. Update the TVF Fans & Damper schedule. Update the Silencer schedule. Update the ducting of toilet due to Architectural changes. Architecture cut-out moved. Add Door grill to garbage room.</p>

Annex "B"

	<p>Quezon Avenue Drawings:</p> <p>STN-MEP-VAC-QA-5101-3 STN-MEP-VAC-QA-5102-3 STN-MEP-VAC-QA-5104-2 STN-MEP-VAC-QA-5106-3 STN-MEP-VAC-QA-5108-2 STN-MEP-VAC-QA-3110-3114-3 STN-MEP-VAC-QA-2105-1 STN-MEP-VAC-QA-3111-3115-2 STN-MEP-VAC-QA-3122-3125-2 STN-MEP-VAC-QA-3131-3135-2 STN-MEP-VAC-QA-3212-3215-2 STN-MEP-VAC-QA-3222-2 STN-MEP-VAC-QA-3224-3225-2 STN-MEP-VAC-QA-3232-3235-2</p> <p>CWD Drawings STN-MEP-VAC-CWD-1109-1 STN-MEP-VAC-CWD-1104-1</p>	<p>Update the drawing number. Update the Condensate pipe detail.</p>
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Schedule 3
Provisional Sum

(PS1) Public Relations and Community Relations:

The Employer has the intention to hold events at site to foster public relations as well as to celebrate the achievement of certain construction milestones such as ground breaking and tunnel breaking. This Provisional Sum is for provision by the Contractor for venues, refreshments for attendees and any other requirement deemed necessary for such events.

(PS2) Fee of Dispute Board's Member and expenses, one-half of Employer's cost estimate of Dispute Board:

This Provisional Sum is for payment of the Employer's share of one-half of the remuneration and expenses of the Dispute Board (DB) pursuant to Sub-Clause 20.2 of the General Conditions. The Contractor's overheads and profit shall not be applicable for payment of DB's costs.

(PS3) Demolition of Structures and Obstruction and Protection, relocation, diversion and/or support and reinstatement of the utilities, if instructed by the Engineer as well as assistance for Right of Way (ROW) Access Acquisition:

This Provisional Sum is for payment for such pre-construction works which were not completed by the Employer before execution of the Contract as well as assistance to the Employer in acquisition of ROW access.

(PS4) DOTr Training

This Provisional Sum is for provision by the Contractor of training of Employer's personnel for the purpose of transfer of knowledge in relation to the Works outside the Philippines.

(PS5) GS137 Training

This Provisional Sum is for provision by the Contractor of training of personnel for operation and maintenance for the purpose of transfer of knowledge in relation to the Works outside the Philippines. The Contractor shall be reimbursed for cost of training materials and other direct costs incurred as a result of the training.

(PS6) Archaeological Monitoring

This Provisional Sum is for payment for any measures and/or works deemed to be necessary to be undertaken by the Contractor in accordance with an instruction by the Engineer upon discovering archaeological interest found on the Site.

(PS7) Project Management Information System (PMIS)/Common Data Environment

This Provisional Sum is to include licenses cost which is part of the Digital Engineering.

General Bid Bulletin No.12
Annex C

METRO MANILA SUBWAY PROJECT PHASE 1
PACKAGE CP102 (Quezon Avenue and East Avenue)
Section IV Bidding Forms

BOQ-295

Item No.	Description	Amount	
		Foreign Currency	PHP
PS 1	Public Relations and Community Relations		15,000,000
PS 2	Fee of Dispute Board's Member and expenses, one-half of Employer's cost estimate of Dispute Board		50,000,000
PS 3	<u>Demolition of Structures and Obstruction and Protection, relocation, diversion and/or support and reinstatement of the utilities, if instructed by the Engineer as well as assistance for ROW Access Acquisition</u>		<u>310,000,000</u>
PS 4	DOTr Training		15,000,000
PS 5	GS137 Training		15,000,000
PS 6	Archaeological Monitoring		50,000,000
PS 7	Project Management Information System (PMIS) /Common Data Environment		20,000,000

Name of Bidder _____

Signature of Bidder _____ Date _____