	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		General		
1		As per Material specification, downspout material for sanitary is PVC which is different from Itemized breakdown of Lump sum (Stainless steel pipe (T=1.6mm)), please confirm what material to be used for the downspout as well as drainage piping.	Please use PVC for downspouts and drainage piping. Please also refer to TS 600, Clause 607.2.2	
2		Please Provide Electrical Drawings for the Power Supply of Air- conditioning Equipments.	Considering Load Schedules, the Contractor shall submit shop drawings for approval of the Engineer.	
3		Please Provide Electrical Drawings for the Power Supply of Access Gates and Ticket Vending Machines.	The Contractor shall submit shop drawings for approval of the Engineer.	
		Volume II, Part 2 – Work Require	č	
4	CP02 Volume II, EMERGENCY STAIR (Guiguinto Station)	Reference: Ground To Concourse level - Emergency Exit Stair Ground To Platform level - Emergency Exit Stair Please Provide Emergency Lighting and Lighting Layout.	Please refer to the drawing in Book 2 of 3, Page CP02-B2-441.	
		TS 600		
5	Page TS600-78, 602.1 The Work	Reference: The works in this section shall include all labor, material, equipment and service necessary to complete the systems identification as shown on the drawings and specified herein, including, but not limited to, the following: 1. Valve identification. 2. Equipment identification. 3. Piping identification. 4. Duct identification. 5. Health and Safety Signage.	Please refer to drawing no. NSCR-DWG-TTB-AR-3261 in Book 2 of 3, Page CP01-B4-056 for signage at Tutuban station. Similar drawing for each station/depot has also been included in the Bidding Documents.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		There is requirement for Health and Safety Signages, please provide drawings.		
6	TS Nos 601, 614, 618, 630, 701	Reference: Mechanical Equipment	There is no owner supplied Equipment.	
		Please confirm if there will be owner supplied equipment. If there is, kindly mention.		
7	TS Nos 601, 614, 618, 630, 701	Reference: Plumbing Fixtures	There are no preferred brands for plumbing fixtures and equipment. The Contractor shall submit its proposal with all necessary documents to the Engineer for review/approval.	
		Please confirm preferred brand to be used for all plumbing fixtures.		
8	TS Nos 601, 614, 618, 630, 701	Reference: Fire Pump and Jockey Pump	There are no preferred brand/s for Fire Pump and Jockey Pump. The Contractor shall submit its proposal(in accordance with TS600) with all necessary documents to the Engineer for review/approval prior to installation of equipment.	
		Please confirm required brand to be used for fire pump and jockey pump.		
9	TS Nos 601, 614, 618, 630, 701	Reference: Air-Conditioning Units Kindly confirm preferred/required brand for all A/C units.	There are no preferred brand/s for A/C units. The Contractor shall submit its proposal (in accordance with TS600) with all necessary documents to the Engineer for review/approval prior to installation of equipment.	
10	TS Nos. 601, 614, 618, 630, 701	Reference: Ventilation Fan Kindly confirm preferred/required brand for all ventilation	There are no preferred brand/s for Ventilation Fans. The Contractor shall submit its proposal (in accordance with TS600) with all necessary documents to the Engineer for review/approval prior to installation of equipment.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		fan.		
11	TS Nos 601, 614, 618, 630, 701	Reference: Plumbing Fixtures Please clarify if supply and installation of plumbing fixtures	The supply and installation of plumbing fixtures, electric hand dryer and liquid soap dispenser are within the scope of the CP02 Contractor.	
		and electric hand dryer and liquid soap dispenser is included in our scope.		
12	Page TS-601, 614, 618, 630, 701	Reference: Cistern Tank/Fire Water Tank	The construction of cistern tank/fire water tank are within the scope of the CP02 Contractor.	
		Please verify if construction of cistern tank/fire water tank is included in our scope.		
13	Page TS600 – 206, TS Nos. 618, 2.4.1 Quality of waste water to be treated	Please indicate the amount of sewage per day at each station building.	For Malolos station: 17m3/day For Balagtasand Guiguinto:11m3/day	
14	Page TS600 – 206, TS Nos. 618, 2.4.2 Quality of Inlet and Outlet water	The drainage standard is 618.2.4.2 of the specification, is not it	Please refer to TS 600 Clauses 618.2.4.2 and 618.2.4.3	
15	TS Nos. 618	Please indicate the upper load (Person weight, normal vehicle weight, heavy vehicle weight etc) of the WWTP installation site	Please refer to AASHTO LRFD 3.6 Live Loads.	
		TS 700		
16	CP-02 Volume 2, Drawings and Technical Specifications, Pages	Reference: All Stations(Electrical)	The Technical Specifications indicating NEMA-2 (IP-31) for Indoor Panelboards shall be followed. Also, please refer to GC Clause 1.5 for priority of documents.	

	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
	REFERENCE	Package CP02: Elevated Structures an	a 5 Stations	
ITEM	CLAUSE/	CLARIFICATION REQUEST	RESPONSE	
NO.	SECTION	CDAMITICATION REQUEST	RESI ONSE	
	Schematic Drawings	Drawings on Distribution Board Schematic diagram indicates		
	and	Nema-1 Enclosure but in Technical Specifications indicates		
	TS 700 – 227, Power	NEMA-2 (IP-31) for Indoor Panelboards. Please confirm		
	Distribution Panel	which one to follow.		
17	CP-02 Volume 2,	Reference:	Yes, the use of PVC above ceiling is allowed. The Contractor	
	Drawings, Pages		shall submit areas where these are to be used for approval of the	
	TS700-238	Balagtas Station (Electrical)	Engineer.	
	and			
	TS700-104, Conduits	Itemized breakdown breakdown indicates 20mmØ PVC pipe		
		only. Can we use PVC pipes to be installed above ceiling?		
18	CP-02 Volume 2,	<u>Reference:</u>	Yes, the use of PVC above ceiling is allowed. However, the	
	Drawings, TS700-	MII Control	Contractor shall submit shop drawings showing areas where these	
	238 and	Malolos Station (Electrical)	are to be used for approval of the Engineer.	
	TS700-122, Conduits	Itemized breakdown breakdown indicates 20mmØ PVC pipe		
	15700-122, Collaults	only. Can we use PVC pipes to be installed above ceiling?		
19	Pages TS700-238	Reference:	Yes, the use of PVC above ceiling is allowed. The Contractor	
	and	<u> </u>	shall submit shop drawings showing areas where these are to be	
	TS700-113, Conduits	Guiguinto Station (Electrical)	used for approval of the Engineer.	
	,			
		Itemized breakdown breakdown indicates 20mmØ PVC pipe		
		only. Can we use PVC pipes to be installed above ceiling?		
20	Page TS-700-273,	<u>Reference:</u>	Please refer to the drawing in Book 2 of 3, Page CP02-B2-722	
	Building		which shows basic BMS Schematic Diagram and the general list	
	Management System	Balagtas Station (Electrical)	of equipment and utility components to be controlled and	
		Disease manife smarlfie list of agricument on a sellicity day.	monitored, the quantity and description would depend on each	
		Please provide specific list of equipment and utilities that requires control and monitoring. <i>Note: Specification states</i>	station.	
		"integrates, centralizes, simplify monitoring, control,	Also, the necessary shop drawings shall be submitted to the	
		operation and management of equipment and utilities of	Engineer for approval before execution of works.	
		operation and management of equipment and attitles of	Engineer for approval octore execution of works.	

	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
21	Page TS-700-273, Building Management System	the building". Reference: Malolos Station (Electrical) Please provide specific list of equipment and utilities that requires control and monitoring. Note: Specification states "integrates, centralizes, simplify monitoring, control, operation and management of equipment and utilities of the building".	The Contractor shall submit shop drawings based on standard product for review/approval of the Engineer as per GS 100 Clause 120.4.3.	
22	Page TS-700-273, Clause No. / Title Building Management System	Reference: Guiguinto Station (Electrical) Please provide specific list of equipment and utilities that requires control and monitoring. Note: Specification states "integrates, centralizes, simplify monitoring, control, operation and management of equipment and utilities of the building".	The proposal shall be submitted by the Contractor to the Engineer for its review/approval before work executions as per GS100 Clause 120.4.3. Also, shop drawings shall be submitted based on standard product for review/approval of the Engineer as per GS 100 Clause 120.4.3.	
23	Page TS700-275 and CP02-B2-451, Building Management System Electrical Wiring	Reference: Guiguinto Station (Electrical) Please provide layout plan showing the cabling/wiring from BMS Equipment to Equipment Control Panels and Railway Stations SCADA	The Contractor shall submit shop drawings for wiring scheme for the approval of the Engineer.	
24	CP-02 Volume 2, Drawings &Technical	Reference: Malolos Station (Electrical)	The Contractor shall submit wiring scheme for the approval of the Engineer.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	Specifications, Pages TS700-275 and CP02-B2-722, Building Management System Electrical Wiring	Please provide layout plan showing the cabling/wiring from BMS Equipment to Equipment Control Panels and Railway Stations SCADA.		
25	TS No. 701	 Reference: All Stations, Electrical Do you have preferred Panelboards enclosures makers? Local or imported? Do you have preferred brand of Circuit breakers? Do you have preferred brand of lightning protection materials? Do you have preferred brand of grounding materials? Do you have preferred maker of lighting fixtures enclosures/reflectors? Local or Imported? Do you have preferred brand of lighting fixtures lamps? Do you have preferred brand of socket outlet? Do you have preferred brand of Fire Alarm Control Panel and devices? Do you have preferred brand of BMS Workstations, LCD Display, Alarm Printers, Controllers, PLC and Sensors? 	There are no preferred brands for electrical materials and equipment. The Contractor shall submit proposed brands and brochures for the approval of the Engineer.	
		Drawings		
26	CP-02 Volume 2, Drawings and Technical	Reference: All Stations(Electrical)	Yes, the Bidder's interpretation is correct.	

	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	Specifications, All Electrical Systems of Work	If there are conflict between Electrical Technical Specification and Electrical Drawings, the Drawings should be followed. Is the contractor's understanding is correct?		
27	CP-02 Volume 2, Drawings and Technical Specifications, All Electrical Systems of Work	Reference: All Stations(Electrical) Is it acceptable to use locally manufactured cable trays, wiring device boxes, junction boxes and pull boxes?	There are no preferred manufacturers/brands for these items. The Contractor shall submit its proposal as per the specifications stated in TS 700 with all the necessary documents to the Engineer for review/approval.	
28	CP-02 Volume 2, Drawings and Technical Specifications, All Electrical Systems of Work	Reference: All Stations(Electrical) Do Locally manufactured cable trays, wiring device boxes, junction boxes and pullboxes acceptable?	There are no preferred manufacturers/brands for these items. The Contractor shall submit its proposal as per the specifications stated in TS 700 with all the necessary documents to the Engineer for review/approval.	
29	CP-02 Volume 2, Drawings and Technical Specifications, All Electrical Systems of Work	Reference: All Stations(Electrical) Please clarify. What type of wire to be used, THW or THHN? Should we use muti-core cables? If so, what limit for the size of wire for multicore and what limit for the size of single core cables?	The use of THW or THHN shall depend on location.Multi/Single core cable shall depend on the type of use. The Contractor shall submit the proposal in shop drawings for the approval of the Engineer before construction.	
30	CP-02 Volume 2, Drawings, General	Reference: All Stations (Sanitary) Please clarify if provision of trench/grating is included or	Provision of trench/grating is included within the scope of the CP02 contractor.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		excluded in our scope.		
31	CP-02 Volume 2, Drawings, General	Reference: All Stations (Air Conditioning Unit)	Please refer to the Equipment Schedule instead of notes on the drawings.	
		Please verify if all airconditiong unit will be precision air conditioning unit as what stated on the drawing.		
		Note: It is stated on the drawing that all conventional airconditioning unit is to be changed to precision air conditioning unit.		
32	CP-02 Volume 2, Drawings, General	Reference: All Stations (Fire Water Tank)	The Contractor shall submit the dimensions of fire water tank for all station in shop drawing considering the capacity as 60 cu. meters.	
		Please provide the dimensions of fire water tank to all stations.		
33	CP-02 Volume 2, Drawings, General	Reference: All Mainline Traction Substation (Storage Water Tank)	Please refer to TS 600 Clause 617.	
		Please provide material specification of storage water tank in all mainline traction substation.		
34	CP-02 Volume 2, Drawings, General	Reference: All Mainline Traction Substation (Tapping Point of Water Supply)	The exact location of tapping points shall be determined by the Contractor during construction. The Contractor shall submit shop drawing to the Engineer before execution of works.	
		Please verify the tapping distance from water meter assembly		

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		to existing water main supply.		
35	Lighting System	Reference:	The Contractor shall propose equivalent lighting fixtures as shop drawings for the approval of the Engineer.	
		All Stations(Electrical)		
		The length of lighting fixtures as shown in the legand is		
		The length of lighting fixtures as shown in the legend is 1700mm which is not standard length in Philippines. For		
		maintenance consideration is it possible to use Philippine		
		standard size of lighting fixture which is 1200mm?		
36	General	Reference:	Please refer to TS 600 Clause 617. Please also refer to the drawing	
			in Book 2 of 3, PageCP02-B2-471.	
		All Mainline Traction Substation		
		(Storage Water Tank)		
		The contractor would like to request for Storage Water Tank material specification to be used for Mainline Traction		
		Substation.		
37	CP-02 Volume	2, Reference:	The Contractor shall submit shop drawings for approval of the	
		& 	Engineer.	
	Technical	Balagtas Station (Electrical)		
	Specifications,			
	Electrical	Do you have required height of enclosure for Distribution		
20	Panelboards	Panelboards and Branch Panelboards?		
38		2, <u>Reference:</u>	The Contractor shall submit shop drawings for approval of the Engineer.	
	Technical	Malolos Station (Electrical)	Engineer.	
	Specifications,	maioros station (Electrical)		
	Electrical	Do you have required height of enclosure for Distribution		
	Panelboards	Panelboards and Branch Panelboards?		
39		2, <u>Reference:</u>	The Contractor shall submit shop drawings for approval of the	
	Drawings	k	Engineer.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	Technical Specifications, Electrical Panelboards	Guiguinto Station (Electrical) Please specify the height of enclosures for Distribution panelboards and height of enclosures for Branch panelboards.		
40	CP-02 Volume 2, Drawings & Technical Specifications, Electrical Panelboards	Reference: Main Line Traction, Substation- 7, 8 & 9 (Electrical) Do you have required height of enclosure for Distribution Panelboards and Branch Panelboards?	The Contractor shall submit shop drawings for approval of the Engineer.	
		Book 1 of 3		
41	Book 1 of 3 ,Page CP02-B1-022, Drawing No. VIA00- ST-0301, Pile Layout Sheet 1, Crushed Stone for Granular Stones	According to Geotechnical Notes item no. 12, Crushed stone will be provided 200mm below Blinding concrete and Pile cap. Please advise to which pay items does this work to be included?	Please refer to item 75 of Annex "A", GBB 4. Crushed stone or compacted sand layer shall not be measured for payment as it is considered a subsidiary of the item for Blinding Concrete.	
		Book 2 of 3		
42	Book 2 of 3, Page CP02-B2-053 CP02- B2-295 CP02-B2- 553,	Reference: Electric Hand Dryers Kindly provide Electrical Drawings for the power supply of Electric Hand Dryers which are shown on Architectural	The Contractor shall submit shop drawings and propose the circuit route for approval of the Engineer.	
		Drawings NSCR-DWG-BAL- AR-3272, NSCR-DWG-GUI-AR-3273 and NSCR-DWG-MAL-AR-3271. Also to other Stations if applicable.		
43	Book 2 of 3, Page CP02-B2-056, CP02-	There is a pantry sink in the architectural drawing, but there is no water line provided in the plumbing layout. Also, please		

North - South Commuter Railway (NSCR) Project (Malolos - Tutuban)					
	Package CP02: Elevated Structures and 3 Stations				
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE		
	B2-215, CP02-B2- 298, CP02-B2-472,	confirm if Electric Water Heater is required.	required.		
44	Book 2 of 3, Page CP02-B2-161 CP02-B2-185 to 187, Lighting System	Reference: Balagtas Station (Electrical) Detailed description of lighting fixtures does not match with Legend of layout plan. Which one will prevail?	Please refer to the ratings of luminaires in Book 2 of 3, Pages CP02-B2-185 to CP02-B2-187.		
45	Book 2 of 3, Page CP02-B2-161 CP02-B2-185 to 187 TS700-241,Lighting System	Reference: Balagtas Station (Electrical) Please specify your required lumen output for each type of LED lighting fixtures.	Please refer to the ratings of luminaires in Book 2 of 3, Pages CP02-B2-185 to CP02-B2-187		
46	Book 2 of 3, Page CP02-B2-161 CP02-B2-185 to 187 TS700-241, Lighting System	Reference: Balagtas Station (Electrical) Please provide plan layout drawing for Station signboards.	The Contractor shall submit shop drawing for the approval of the Engineer.		
47	Book 2 of 3, Pages CP02-B2-161, 185 to 187, 415, 440 to 442, 685, 709 to 712, Lighting System TS700-241	Reference: Balagtas Station (Electrical) There are conflicts on the detailed description of lighting fixtures, please clarify and confirm.	Please follow the detail description of lighting fixtures in Book 2 of 3, Pages CP02-B2-185 to CP02-B2-187. The Contractor shall submit the brochure of lighting fixtures in shop drawings for approval of the Engineer.		
48	Book 2 of 3, Pages CP02-B2-164, CP02- B2-167, CP02-B2-	Reference: Balagtas Station (Electrical)	LPC-26 shall be connected to MDB-04 ckt. No. 5 and change branch breaker 5 of MDB-04 by 50A.		

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	168, CP02-B2-165, CP02-B2-170	Please clarify. The panelboard LPC-26 is not shown in Single Line Diagram but shown in Equipment Layout(NCSR-DWG-BAL-EL-5102 & 5114) Panel LPC-26 is missing in the single line diagram. Please confirm and clarify.		
49	Book 2 of 3, Pages CP02-B2-165, CP02- B2-170,	Reference: Balagtas Station (Electrical) Please provide Distribution Board schedule and Panelboard Schedule for Switchgear.	Power Distribution board is not within the scope of the CP02 Contractor. However, necessary Interface shall be done between other interfacing Contractors by the CP02 Contractor.	
50	Book 2 of 3, Page CP02-B2-166	Reference: Balagtas Station (Electrical) Please clarify. The Ground busbar detail indicates 1/4"(t) x 2"(w) but the Legend indicates 1/4"(t) x 4"(w). Which one will prevail?	The Legend shown in Book 2 of 3, Page CP02-B2-165 shall prevail.	
51	Book 2 of 3, Pages CP02-B2-167, CP02- B2-170	Reference: Balagtas Station (Electrical) Please clarify. No Switchgear in Single Line Diagram, instead MDB-01 to MDB-05. But, the equipment layout and section indicates Switchgear and MDB-01 to MDB-05. Which one will prevail?	Equipment Layout and Section in Book 2 of 3, Page CP02-B2-170 shall prevail. Also, necessary Interface shall be done between other interfacing Contractors by CP02 Contractor.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
52	Book 2 of 3, Page CP02-B2-167, 176~181	There are conflicts regarding the sizes and/or type of wire shown at Single Line Diagram and Distribution Board Schematic Diagram, please confirm which one to follow.	Please refer the drawing in Book 2 of 3, Page CP02-B2-190.	
53	Book 2 of 3, Pages CP02-B2-167, CP02-B2-176 to CP02-B2-184	Reference: Balagtas Station (Electrical) Please provide kAIC ratings CB's for Switchgear, Distribution Boards and Panelboards. No requirements for metering? If required, please provide list and specification.	kAIC rating shall be derived based on TS 700 Clause 706.1.5.	
54	Book 2 of 3, Pages CP02-B2-167, CP02- B2-182	Reference: Balagtas Station (Electrical) Please clarify about Capacitor Bank (CB, 30kVAR) at MDB-04: How many steps of Capacitor bank is required? Requirement for Power Controller?	The Contractor to submit details in shop drawings for the approval of the Engineer.	
55	Book 2 of 3, Pages CP02-B2-169, CP02- B2-171	Reference: Balagtas Station (Electrical) Please clarify/provide details of Cable tray for Lighting & Power System. Is it ladder type with cover or duct type with cover?	Please refer to the details in Book 2 of 3 Page CP02-B2-163.	
56	Book 2 of 3, Pages CP02-B2-176, 177, 178, 169, 170.	Reference: Balagtas Station (Electrical) Distribution Board Schedule for Panels LPC-03, LPC-04, LPC-05, LPC-06 and LPC-23 not shown in the drawings.	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA. For LPC-23 panel similar to LPC-24 in Book 2 of 3, Page CP02-B2-181.	

	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban)			
	DEFEDENCE	Package CP02: Elevated Structures an	d 3 Stations	
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		Please provide this information.		
57	Book 2 of 3, Page CP02-B2-178, Lighting System	Reference: Balagtas Station (Electrical) Please clarify which one is detail B (50%) and detail (100%) since all details indicated is detail A only. Schemetic Diogram "Detail B and C" is missing Kindly.	The details shown in Book 2 of 3, Page CP02-B2-178 shall be read as Detail "A", Detail "B" and Detail "C" from left to right	
		Schematic Diagram "Detail B and C" is missing. Kindly clarify.		
58	Book 2 of 3, Page CP02-B2-179, Power Supply for ACU's	Reference: Balagtas Station (Electrical) Please provide Power Supply plan layout for ACU's as per	The Contractor shall submit shop drawings for the approval of the Engineer.	
59	Book 2 of 3, Page	quantities indicated in Distribution Board Schematic. *Reference:	The Contractor shall submit shop drawings for the approval of the	
39	CP02-B2-180, Power Supply for EF's and HRV's	Balagtas Station (Electrical) Please provide Power Supply plan layout for EF's and HRV's as per quantities indicated in Distribution Board Schematic.	Engineer.	
60	Book 2 of 3, Page CP02-B2-180, Power Supply for Mechanical Equipment	Reference: Balagtas Station (Electrical) Please provide Power Supply plan layout for Power Supply of Shutters, Potable Water Package, Fire Water Package, Waste Water Package and Jockey Pump	The Contractor shall submit shop drawings for the approval of the Engineer.	
61	Book 2 of 3, Page	<u>Reference:</u>	The down conductor shall be 100mm2 MDBCW. Please refer to	

	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	CP02-B2-180, Power Supply for Mechanical Equipment	Balagtas Station (Electrical) Please clarify. Technical Specification (TS 700-226) indicates minimum of 120mm2 braided Down conductor but drawing (CP02- B2-195) indicates MDBCW, which one will prevail?	the drawing in Book 2 of 3, Page CP02-B2-195.	
62	Book 2 of 3, Page CP02-B2- 182,Panelboard Schedule	Reference: Balagtas Station (Electrical) The following ampere frame of circuit breakers shown has high ampere frame rating, please confirm if it is correct. Panel MDB-01, Circuit #4, 1000 AF Panel MDB-03, Circuit #'s 1 to 4 and 15, 1000 AF Panel MDB-04, Circuit # 1, 1000 AF Panel MDB-05, Circuit # 1, 1000 AF	Lower Ampere Rating shall be accepted.	
63	Book 2 of 3, Page CP02-B2- 182,Panelboard Schedule	Reference: Balagtas Station (Electrical) Please clarify circuit # 4 of MDB-03 which is 200AT for LPC-10 but Load Schedule Main CB indicates 20AT for LPC-10. Which one will prevail?	20AT indicated in Load Schedule Main CB in Book 2 of 3, Page CP02-B2-184 shall prevail.	
64	Book 2 of 3, Pages CP02-B2-182, CP02- B2-183, CP02-B2- 184, CP02-B2-167, CP02-B2-190	Reference: Balagtas Station (Electrical) Please provide panelboard Schedule for LPC-01, LPC-04, LPC-05, LPC- 06, LPC-11, LPC-12, LPC-13, LPC-14, LPC-	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA. For other panels, please refer to the drawings in Book 2 of 3, Pages CP02-B2-180 and CP02-B2-181.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		15, LPC-16, LPC-17, LPC- 18, LPC-19, LPC-20, LPC-21, LPC-24, LPC-25 and LPC-26		
65	Book 2 of 3, Page CP02-B2-184,	Reference:	Lower Ampere Rating shall be accepted.	
	Panelboard Schedule Panelboard Schedule	Balagtas Station (Electrical) The following ampere frame of circuit breakers shown has high ampere frame rating, please confirm if it is correct. Panel LPC-07, Circuit #'s 3,5 &7, 1000 AF Panel LPC-08, Circuit #'s 1 & 2, 1000 AF Panel LPC-23, Circuit #'s 1 to 4 & 6, 1000 AF Panel LPC-09, Circuit #'s 17 to 19,21 & 22, 1000 AF		
66	Book 2 of 3, Pages CP02-B2-187 and CP02-B2-178, Lighting System	Reference: Balagtas Station (Electrical) Layout of Photo electric Cell not shown in the drawing, kindly provide circuit layout plan.	The Contractor shall submit the scheme as shop drawings for the approval of the Engineer.	
67	Book 2 of 3, Pages CP02-B2-187 and CP02-B2-178, Lighting System	Reference: Balagtas Station (Electrical) Please indicate in the drawing for the location of Timer with Battery Pack, Selector switches and Contactors? Should we combine the controllers of 10%, 50% and 100% in one assembly?	The timer with battery pack, selector and Contactor shall all be integrated to Panel LPP-01 and LPP-02.	
68	Book 2 of 3, Pages CP02-B2-191 and TS 700-251 to TS	Reference: Balagtas Station (Electrical)	Please refer to the layout in Book 2 of 3, Pages CP02-B2-192 to CP02-B2-193.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	700-264, Fire Alarm System	What is the required standard for the system and minimum loop connection for Fire Alarm Control Panel?		
69	Book 2 of 3, Page CP02-B2-191	Reference: Balagtas Station (Electrical) Please provide circuit layout for the Power supply of Fire Alarm Control Panel.	FACP to be connected to Ckt. #11 of Panel LPC-02 in Book 2 of 3, Page CP02-B2-183.	
70	Book 2 of 3, Pages CP02-B2-191, 446, 716, Fire Alarm System and TS 700-251 to TS 700-264	Reference: Balagtas/Malolos/Guiguinto Station (Electrical) Do you have required minimum loop connection for Fire Alarm Control Panel? Please confirm if it is conventional or addressable type?	Please consider the addressable type of Fire Alarm Panel.	
71	Book 2 of 3, Pages CP02-B2-191, 446, 716., Fire Alarm System	Reference: All Stations(Electrical) Fire alarm cable shown are not fire rated nor fire resistance cable. Please confirm.	Please follow the requirements in TS 700, Page TS700-255, Clause 710.4.4.1/2. The Contractor shall submit its proposal for the approval of the Engineer.	
72	Book 2 of 3, Page CP02-B2-194, Lightning Protection System and TS 700-226	Reference: Balagtas Station (Electrical) Please clarify. Technical Specification (TS 700-266) indicates minimum of 120mm2 braided Down conductor but drawing (CP02- B2-195) indicates 100mm2 MDBCW, which	Down conductor shall be 100mm2 MDBCW as shown in Book 2 of 3, Page CP02-B2-195.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		one will prevail?		
73	Book 2 of 3, Page CP02-B2-194	Reference: Balagtas Station (Electrical)	The use of the conventional type Air Terminal as shown in the details of Book 2 of 3, Page CP02-B2-194 will prevail.	
		Please clarify. The lightning arrester detail indicates copper rod (9.5mmØ x 600mm) but the Legend indicates ESE type. Which one will prevail?		
74	Book 2 of 3, Page CP02-B2-194	Reference: Balagtas Station (Electrical) What size of down conductor and type of wire to be used connected to Roof Steel work to earthing rods.	Down conductor shall be 100mm ² MDBC Wire.	
75	Book 2 of 3, Page CP02-B2-195, Lightning Protection System	Reference: Balagtas Station (Electrical) Is it correct to interpret that the Pull box with Fiber Glass Cover and Lightning event counter shown in the drawing is the same as Grounding Terminal Box? If not, please clarify.	Yes, the Bidder's interpretation is correct.	
76	Book 2 of 3, Page CP02-B2-195	Reference: Balagtas Station (Electrical) If conventional type of Lightning Arrester is to be used (w/ Air Terminal 9.5mmØ x 600mm) do Lightning Event Counter still be required?	Conventional type of Lightning Arrester will be used complete with Lightning event counter.	
77	Book 2 of 3, Page	<u>Reference:</u>	The Contractor shall submit shop drawings showing details for the	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
	CP02-B2-195	Balagtas Station (Electrical) Please provide details for grounding terminal box.	approval of the Engineer.
78	Book 2 of 3, Page CP02-B2-196, Building Management System	Reference: Balagtas Station (Electrical) BMS System Diagram indicates AC Units, Ventilation Fans, Roller Shutter Doors, CCTV Monitors, Pumps and Elevators, railway system SCADA and Fire System Control Panel. May we request to please provide specific list of equipment and utilities that requires control and monitoring. Also can you provide layout?	Please refer to the drawing in Book 2 of 3, Page CP02-B2-722 which shows basic BMS Schematic Diagram and the general list of equipment and utility components to be controlled and monitored, the quantity and description would depend on each station. Also,the necessary shop drawings shall be submitted to the Engineer for approval before execution of works.
79	Drawings & Technical Specifications, Page TS700-275 and CP02-B2-196, Building Management System Electrical Wiring	Reference: Balagtas Station (Electrical) Please provide layout plan showing the cabling/wiring from BMS Equipment to Equipment Control Panels and Railway Stations SCADA.	Please refer to the drawing in Book 2 of 3, Page CP02-B2-722 which shows basic BMS Schematic Diagram and the general list of equipment and utility components to be controlled and monitored, the quantity and description would depend on each station. Also, the necessary shop drawings shall be submitted to the Engineer for approval before execution of works.
80	Book 2 of 3, Page CP02-B2-196	Reference: Balagtas Station (Electrical) Please provide I/O points list/quantity for railway system (SCADA).	Necessary Interface shall be conducted with other interfacing Contractors by the CP02 Contractor as per GS 100 Clause 126 and Appendix-4.
81	Book 2 of 3, Page	Reference:	The BMS Server Panel is shown in Book 2 of 3, Page CP02-B2-

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
	CP02-B2-196	Balagtas Station (Electrical)	170. The Contractor shall propose the circuit layout to the Engineer for approval.
		What panelboard name is the power supply source for BMS System Panel?	
		Please provide circuit layout for the Power supply of BMS system panel.	
82	Book 2 of 3, Pages CP02-B2-197, General Notes No. 15	For one (1) year warranty coverage, do we need to include Preventive maintenance cost for equipment such as aircon, fans, pumps, filters, etc.? (For all station and substation).	Yes. All preventive maintenance cost shall be included.
83	Book 2 of 3, CP02-B2	Electrical Layout for Pump and Tank Room was not provided. (e.g. Lighting, Convenience Outlet, Equipment Power Supply). Please provide information.	The Contractor shall submit shop drawings for the approval of the Engineer.
84	Book 2 of 3, Pages CP02-B2-205, 209, 463, 465, 732, & 737	Base on notes 2 "All ACU units to be changed to PACW". This conflict to Equipment Schedule given, please clarify	Equipment Schedule shall be followed.
85	Book 2 of 3, Page CP02-B2-213, CP02- B2-214	There is conflict with the size of incoming pipe for Water Closet and Urinal indicated in the Plumbing details and Schematic Diagram. Please advise which one to follow.	Please refer to the drawing in Book 2 of 3, Page CP02-B2-481 for pipe sizes in Isometry.
86	Book 2 of 3, Pages CP02-B2-214, CP02- B2-217	Size of pipe for booster pump discharge line shown in schematic diagram is 65mm diameter but in enlarged plan it shows 50mm diameter. Please advise which one to follow.	Please use 65mmØ discharge.
87	Book 2 of 3, Page CP02-B2-225	Please provide specifications (capacity & TDH) for the sump pump.	No sump pit/sump pump is required for Balagtas station.
88	Book 2 of 3, Page CP02-B2-225	Please provide capacity for grease trap of Staff Pantry for Balagtas Station.	7gpm shall be used for Grease Trap capacity.
89	Book 2 of 3, Page	Reference:	Each elevator sump pit shall have 1unit portable sump pump with

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	CP02-B2-225, Sanitary System	Balagtas Station (Submersible Pump)	0.5 HP capacity 230V/60Hz/Single Phase. The discharge will be at the nearest catch basin.	
		Please provide specifications/capacity for all submersible pump at Balagtas Station.		
90	Book 2 of 3, Pages CP02-B2-274 and CP02-B2-435, Escalator Power Supply System	Reference: Guiguinto Station (Electrical) Please provide load schedule and layout plan drawings for escalators power supply. Architectural drawing CP02-B2-274 indicates 10 units of escalator but Electrical drawing CP2-132-435 indicates 6 sets units. Please confirm the quantity and provide circuit layout drawings.	The installation layout shall be submitted by the Contractor as a shop drawing for the approval of the Engineer.	
91	Book 2 of 3, Page CP02-B2-274 and CP02-B2-435, Elevator Power Supply System	Reference: Guiguinto Station (Electrical) Please provide load schedule and layout plan drawings for elevators power supply. Architectural drawing CP02-B2-274 indicates 3 units of elevator but Electrical drawing CP2-132-435 indicates 2 sets units. Please confirm the quantity and provide circuit layout drawings.	The installation layout shall be submitted by the Contractor as a shop drawing for the approval of the Engineer.	
92	Book 2 of 3, Page CP02-B2-415 CP02-B2-440 to 442 TS700-241, Lighting System	Reference: Guiguinto Station (Electrical) Please provide plan layout drawing for Station signboards.	The Contractor shall submit shop drawings for the approval of the Engineer.	
93	Book 2 of 3, Page CP02-B2-415	Reference:	The legend of layout plan in Book 2 of 3, Pages CP02-B2-440 to CP02-B2-442 shall prevail.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	CP02-B2-440 to 442, Lighting System	Guiguinto Station (Electrical) Detailed description of lighting fixtures does not match with Legend of layout plan. Which one will prevail?		
94	Book 2 of 3, Page CP02-B2-415 CP02-B2-440 to 442 TS700-241, Lighting System	Reference: Guiguinto Station (Electrical) Please specify your required lumen output for each type of LED lighting fixtures.	Please refer to the ratings of luminaires in Book 2 of 3, Pages CP02-B2-440 to CP02-B2-442.	
95	Book 2 of 3, Pages CP02-B2-418, CP02- B2-419, CP02-B2- 421, CP02-B2-422, CP02-B2-424	 Reference: Guiguinto Station (Electrical) 1. CP02-B2-418, 419, 421, 422 and 424: The panelboard LPG-01 is not shown in Diagram but shown in Installation Layout, please clarify002E For CP02-B2-421 and 422: 2. Panel LPG-01, LPG-02 and PPC-02 are missing in the Single Line and Riser Diagram, Please confirm and provide information 3. Please provide location for Panels LPC 24, 25 and 26. 		
96	Book 2 of 3, Pages CP02-B2-418, CP02- B2-419, CP02-B2- 421, CP02-B2-422, CP02-B2-424	Reference: Guiguinto Station (Electrical) Please clarify. The panelboards LPUC-01 and LPUC-02 are not shown in	Panel LPUC-01 shall be located between PanelsLPP-01 and PPC-01. Panel LPUC-02 should be located between Panels PPC-02 and LPP-02.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		Installation Layout but shown in Diagram		
97	Book 2 of 3, Pages CP02-B2-418, CP02- B2-419, CP02-B2- 421, CP02-B2-422, CP02-B2-424	Reference: Guiguinto Station (Electrical) Please clarify. The panelboard LPC-08 is not shown in Diagram but shown	Please refer to Book 2 of 3, Page CP02-B2-421.	
00	D 1 2 C 2 D	in Installation Layout	D. LLDVIC 01 1 11 1 1 1 D. LLDC 01 D. LLDVIC 02	
98	Book 2 of 3, Page CP02-B2-420	Panel LPUC-01, LPUC-02 and LPC-24 are missing on Station Electrical Room. Please provide location of the Panels.	Panel LPUC-01 shall be beside Panel LPC-01. Panel LPUC-02 shall be beside LPC-02 and Panel LPC-24 shall be beside LPC-23.	
99	Book 2 of 3, Page CP02-B2-420	Reference: Guiguinto Station (Electrical) Please clarify. The Ground busbar detail indicates 1/4"(t) x 2"(w) but the Legend indicates 1/4"(t) x 4"(w). Which one will prevail?	The Legend in Book 2 of 3, Page CP02-B2-690 shall prevail.	
100	Book 2 of 3, Pages CP02-B2-420, CP02- B2-166, CP02-B2- 170, CP02-B2-692, CP02-B2-694	Reference: Balagtas, Guiginto, Malolos Station (Electrical) Diagram shows that all detectors and horns are directly connected to Fire Alarm Annunciator Panel instead of Fire Alarm Control Panel. Please confirm and kindly give us information about the brand of equipment used in this kind of connection.	The referenced page number is incorrect.	
101	Book 2 of 3, Pages CP02-B2-421 and 422		There is no Panel LPG-01, LPG-02, PPC-02, LPC-25 and 26.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		2. Please provide location for Panels LPC 24, 25 and 26.		
102	Book 2 of 3, Pages CP02-B2-421 and 422	There are conflict regarding the details of MDB-03 and MDB-04 to the Riser Diagram, Please advise which drawing to follow.	Please follow the drawing in Book 2 of 3, Page CP02-B2-422.	
103	Book 2 of 3, Pages CP02-B2-421 and 430, 431, 433, 434, 435	There are conflict regarding the sizes and/or type of wire shown on both drawings. Please advise which drawing to follow.	Please refer to the drawing in Book 2 of 3, Page CP02-B2-445 for the size of wires.	
104	Book 2 of 3, Pages CP02-B2-421, CP02- B2-419, CP02-B2- 420, CP02-B2-422	Reference: Guiguinto Station (Electrical) Please clarify. The panelboard LPC-24 is shown in Riser Diagram but not shown in Installation Layout, Single Line Diagram and Schematic diagram.	LPC-24 shall be connected to MDB-04.	
105	Book 2 of 3, Pages CP02-B2-421, CP02-B2-430 to CP02-B2-438	Reference: Guiguinto Station (Electrical) Please provide kAIC ratings of CB's for Switchgear, Distribution Boards and Panelboards. No requirements for metering? If required, please provide list and specification.	kAIC rating shall be derived based on TS700 Clause 706.1.5.	
106	Book 2 of 3, Pages CP02-B2-421, CP02- B2-436	Reference: Guiguinto Station (Electrical) Please clarify about Capacitor Bank (CB, 30kVAR) at MDB-04: How many steps of Capacitor bank is required? Requirement	The Contractor shall submit shop drawings showing details for the approval of the Engineer.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		for Power Controller?		
107	Book 2 of 3, Pages CP02-B2-423, CP02- B2-425	Reference: Guiguinto Station (Electrical)	Please refer to the details in in Book 2 of 3, Page CP02-B2-417.	
		Please clarify/provide details of Cable tray for Lighting & Power System. Is it ladder type with cover or duct type with cover?		
108	Book 2 of 3, Pages CP02-B2-430 to CP02-B2-435	Reference: Guiguinto Station (Electrical) Please provide Distribution Board Schematic for MDB-01 to	Necessary Interface shall be conducted with other interfacing Contractors by the CP02 Contractor.	
		MDB-05, LPC-03 to LPC-06 and LPC-24		
109	Book 2 of 3, Page CP02-B2-433, Power Supply for ACU's	Reference: Guiguinto Station (Electrical)	Considering the Load Schedules, the Contractor shall submit shop drawings for the approval of the Engineer.	
		Please provide Power Supply plan layout for ACU's as per quantities indicated in Distribution Board Schematic.		
110	Book 2 of 3, Page CP02-B2-434, Power Supply for Mechanical Equipment	Reference: Guiguinto Station (Electrical) Please provide Power Supply plan layout for Power Supply of EF's, Shutters, Potable Water Package, Fire Water Package, Waste Water Package and Jockey Pump	Considering the Load Schedules, the Contractor shall submit shop drawings for the approval of the Engineer.	
111	Book 2 of 3, Pages CP02-B2-436 - 438	Please provide Load Schedule for Panels LPC-03, LPC-04, LPC-05, LPC- 06, LPC-10, LPC-11, LPC-12, LPC-13, LPC-	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA. For	

	North – South Commuter Railway (NSCR) Project (Malolos – Tutuban)			
		Package CP02: Elevated Structures an	d 3 Stations	
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		14, LPC-15, LPC-16, LPC-17 LPC-18, LPC-19, LPC-20, LPC-22, LPC-23, LPC-24, LPC-25 and LPC- 26.	other panel, refer drawings on page no. CP02-B2-433 to 435.	
112	Book 2 of 3, Pages CP02-B2-436 to CP02-B2-438	Reference: Guiguinto Station (Electrical)	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA. For other panels, please refer to Book 2 of 3 Pages CP02-B2-434 and CP02-B2-435.	
		Please provide panelboard Schedule for LPC-03, LPC-04, LPC-05, LPC- 06, LPC-10 to LPC-20 and LPC-22 to LPC-24.		
113	Book 2 of 3, Page CP02-B2-439,	<u>Reference:</u>	Panel LPC-02 Ckt. # 14 to 16 are for signages.	
	Lighting System	Guiguinto Station (Electrical) Please clarify. Circuits No. 9 of Panelboard LPC-02 is repeated as per plan layout and no plan layout for circuit numbers 14 to 16		
114	Book 2 of 3, Page CP02-B2-439, Lighting System	Reference: Guiguinto Station (Electrical) Panel LPC-02, circuit # 14, 15 and 16 are missing in circuit layout plan please clarify and confirm.	LPC-02 Ckt.#14, 15 and 16 are for signages. Please refer to Book 2 of 3, Pages CP02-B2-284 and CP02-B2-285 for the locations of signages.	
115	Book 2 of 3, Page CP02-B2-440	What is the circuit no. of six (6) interconnected lighting fixtures (3- 1x39W 1700mm & 3-1x39W, 1700mm w/ battery pack) that lies between Grid A/C and Grid 1/2?	Connect to LPC-01.	
116	Book 2 of 3, Page CP02-B2-441	What is the height of the Receptacle Outlet at the Upper Concourse Level from the finish floor line?	The height of receptacle outlet shall be 300mm AFFL unless otherwise stated.	
117	Book 2 of 3, Page CP02-B2-441, Lighting System	Reference: Guiguinto Station (Electrical)	1. The 5-Smart Bay Lighting Fixtures shall be connected to Ckt. #15 of Panel LPUC-02.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		1. What is the circuit no. of five (5) interconnected lighting fixtures (5- pendant type (suspended) smart bay lighting fixture with 1 200w LED lamp) that lies between Grid C/D and Grid 10/12?	2. Please refer to Book 2 of 3, Page CP02-B2-440.	
		2. Please clarify. Circuits Nos. 4, 5, 10 of Panelboard LPC-01 are repeated as per plan layout.		
118	Book 2 of 3, Page CP02-B2-446 CP02-	Reference:	The Plan Layout in Book 2 of 3 Pages CP02-B2-447 and CP02-B2-448 shall prevail.	
	B2-447 CP02-B2- 448, Fire Alarm System	Guiguinto Station (Electrical) Please clarify. Schematic Diagram does not match with Plan		
119	Book 2 of 3, Page CP02-B2-446	Layouts. Which one shall prevail? Reference:	Please refer to the drawings in Book 2 of 3 Pages CP02-B2-447 and CP02-B2-448.	
	and TS 700-251 to TS	Guiguinto Station (Electrical)		
	700-264, Fire Alarm System	What is the required standard for the system and minimum loop connection for Fire Alarm Control Panel?		
120	Book 2 of 3, Pages CP02-B2-446 CP02-	Reference:	FACP to be connected to Ckt. #16 of Panel LPC-02 in Book 2 of 3, Page CP02-B2-437.	
	B2-447, CP02-B2- 448	Guiguinto Station (Electrical)		
		Please provide circuit layout for the Power supply of Fire Alarm Control Panel.		
121	Book 2 of 3, Pages CP02-B2-446 CP02-	Reference:	Fire Alarm is not provided in Ground Floor Water Tank and Pump Room.	
	B2-447, CP02-B2- 448	Guiguinto Station (Electrical)		

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		Please provide layout drawing for Ground Floor Water Tank and Pump Room. Note: Smoke Detector and FA Annunciator Panel are reflected in FA Schematic Diagram.		
122	Book 2 of 3, Pages CP02-B2-446, 447, 228., Fire Alarm System	Reference: Guiguinto Station (Electrical) Fire Alarm Schematic Diagram does not match with circuit layout plans please confirm which one to follow.	Please follow the FA Circuit Layout in Book 2 of 3, Pages CP02-B2-447 and CP02-B2-448.	
123	Book 2 of 3, Pages CP02-B2-446, 447, 448.	Reference: Guiguinto Station (Electrical) Please provide Fire Alarm circuit layout drawings for Ground floor Water tank and Pump room.	Fire Alarm is not provided in Ground Floor Water Tank and Pump Room.	
124	Book 2 of 3, Page CP02-B2-449 and TS 700-226, Lightning Protection System	Reference: Guiguinto Station (Electrical) Please clarify. Technical Specification (TS 700-266) indicates minimum of 120mm2 braided Down conductor but drawing (CP02- B2-450) indicates 100mm2 MDBCW, which one will prevail?	The down conductor shall be 100mm ² MDBCW as shown in Book 2 of 3, Page CP02-B2-450.	
125	Book 2 of 3, Page CP02-B2-449	Reference: Guiguinto Station (Electrical) Please clarify. The lightning arrester detail indicates copper rod (9.5mmØ x 600mm) but the Legend indicates ESE type. Which one will	The use of the conventional type Air Terminal as shown in the detail in Book 2 of 3, Page CP02-B2-449 will prevail.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		prevail?		
126	Book 2 of 3, Page CP02-B2-449, CP02- B2-450	Reference: Guiguinto Station (Electrical)	Conventional type of Lightning Arrester will be used complete with Lightning event counter.	
		If conventional type of Lightning Arrester is to be used (w/ Air Terminal 9.5mmØ x 600mm) do Lightning Event Counter still be required?		
127	Book 2 of 3, Page CP02-B2-449	Reference:	The down conductor shall be 100mm ² MDBC Wire.	
		Guiguinto Station (Electrical)		
		What size of down conductor and type of wire to be used connected to Roof Steel work to earthing rods.		
128	Book 2 of 3, Pages CP02-B2-450,	<u>Reference:</u>	Yes, the Bidder's interpretation is correct.	
	Lightning Protection System	Guiguinto Station (Electrical)		
		Is it correct to interpret that the Pull box with Fiber Glass Cover and Lightning event counter shown in the drawing is		
		the same as Grounding Terminal Box? If not, please clarify.		
129	Book 2 of 3, Pages CP02-B2-450	Reference:	The Contractor shall submit the details as shop drawings for the approval of the Engineer.	
	61 62 52 150	Guiguinto Station (Electrical)	approval of the Engineer.	
		Please provide details for grounding terminal box.		
130	Book 2 of 3, Page	Reference:	The Contractor shall submit shop drawings based on standard	
	CP02-B2-451,		product for review/approval of the Engineer as per GS 100 Clause	
	Building Management System	Guiguinto Station (Electrical)	120.4.3.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		BMS System Diagram indicates AC Units, Ventilation Fans, Roller Shutter Doors, CCTV Monitors, Pumps and Elevators, railway system SCADA and Fire System Control Panel. May we request to please provide specific list of equipment and utilities that requires control and monitoring. Also can you provide layout?		
131	Book 2 of 3, Pages CP02-B2-451	Reference: Guiguinto Station (Electrical) Please provide I/O points list/quantity for railway system (SCADA).	Quantity of I/O points should be as required by SCADA provider to make the system operational.	
132	Book 2 of 3, Pages CP02-B2-451	Reference: Guiguinto Station (Electrical) What panelboard name is the power supply source for BMS System Panel? Please provide circuit layout for the Power supply of BMS system panel.	BMS Server Panel as shown in Book 2 of 3, Page CP02-B2-419. The Contractor shall propose circuit layout to the Engineer for approval.	
133	Book 2 of 3, Pages CP02-B2-469 and 483	Please provide sanitary layout for G.A.D. room. There are conflict in the connection of urinal drain pipe as shown in the drawings, please confirm which one to follow.	Please ignore toilet fixtures inside G.A.D. room. Please refer to architectural trade for the details of G.A.D. room. All urinal drain pipes are connected to soil pipe (SP) together with water closet drain pipes as reflected in Toilet Blow-up Plan. There are no conflicts as far as the drawing is concerned.	
134	Book 2 of 3, Pages CP02-B2-476, CP02- B2-481	There is conflict in pipe size and pipe type between Gutter Drain detail and schematic diagram. Please specify which is to follow.	Please refer to the drawing in Book 2 of 3, Page CP02-B2-481 for gutter drain sizes in Isometry.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
135	Book 2 of 3, Page CP02-B2-494	No fire protection system in Station Electrical Room. Please confirm.	There is no fire protection system in Station Electrical Room. However, fire extinguisher/fire hose cabinet are provided.	
136	Book 2 of 3, Page CP02-B2-685 CP02-B2-709 to 712, Lighting System	Reference: Malolos Station (Electrical) Please provide plan layout drawing for Station signboards.	The Contractor shall submit shop drawings for the approval of the Engineer.	
137	Book 2 of 3,PagesCP02-B2-685 CP02-B2-709 to 712, Lighting System	Reference: Malolos Station (Electrical) Detailed description of lighting fixtures does not match with Legend of layout plan. Which one will prevail?	The detailed description of lighting fixtures in the Legend in Book 2 of 3, Pages CP02-B2-709 to CP02-B2-712 shall prevail.	
138	Book 2 of 3, Pages CP02-B2-685 CP02-B2-709 to 712 TS700-241, Lighting System	Reference: Malolos Station (Electrical) Please specify your required lumen output for each type of LED lighting fixtures.	Please refer to the ratings of luminaires in Book 2 of 3, Pages CP02-B2-709 to CP02-B2-712.	
139	Book 2 of 3, Pages CP02-B2-690, CP02- B2-694	Reference: Malolos Station (Electrical) Please provide Distribution Board schedule and Panelboard Schedule for Switchgear.	Necessary Interface shall be conducted with other interfacing Contractors by the CP02 Contractor.	
140	Book 2 of 3, Page CP02-B2-690	Reference: Malolos Station (Electrical) Please clarify.	The Legend in Book 2 of 3, Page CP02-B2-690 shall prevail.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		The Ground busbar detail indicates 1/4"(t) x 2"(w) but the Legend indicates 1/4"(t) x 4"(w). Which one will prevail?		
141	Book 2 of 3, Pages CP02-B2-691 and CP02-B2-706,	Reference: Malolos Station (Electrical)	MDB-05 shown in Book 2 of 3, Page CP02-B2-706 shall be MDB-04.	
	Panelboard Schedule & Single Line Diagram	Panel MDB-05 shown in load schedule but not shown in single line diagram. Please confirm and clarify.		
142	Book 2 of 3, Pages CP02-B2 691 and 715	THHN was shown in drawing number NSCR-DWG-MAL-EL-5161 but THWN was shown the single line diagram NCR-DWG-MAL-EL-5111, please advise which one to follow.	The drawing in Book 2 of 3, Page CP02-B2-715 shall be followed.	
143	Book 2 of 3, Pages CP02-B2-691, CP02- B2-706	Reference: Malolos Station (Electrical) The Single Line Diagram of MDB-03 and MDB-05 are not the same with Panelboard Load Schedule. Please confirm which one to follow.	The Load Schedule in Book 2 of 3, Page no. CP02-B2-706 should be followed.	
144	Book 2 of 3, Pages CP02-B2-691, CP02- B2-693, CP02-B2- 694	Reference: Malolos Station (Electrical) Please provide location of Panels LPC-03, LPC-04, LPC-05 and LPC-06.	All these panels are located inside the Electrical Room of the stations. However, necessary Interface shall be conducted by the CP02 Contractor with other interfacing Contractors/System Contractors as per GS 100, Clause 126 and Appendix 4.	
145	Book 2 of 3, Pages CP02-B2-691, CP02-B2-700 to CP02-B2-708	Reference: Malolos Station (Electrical)	kAIC rating shall be derived based on TS700 Clause 706.1.5.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
		Please provide kAIC ratings of CB's for Switchgear, Distribution Boards and Panelboards. No requirements for metering? If required, please provide list and specification.		
146	Book 2 of 3, Pages CP02-B2-691, CP02- B2-694	Reference: Malolos Station (Electrical) Please clarify. No Switchgear in Single Line Diagram, instead MDB-01 to MDB-04. But, the equipment layout and section indicates Switchgear and MDB-01 to MDB-04. Which one will prevail?	The equipment layout in Book 2 of 3, Page CP02-B2-694 shall prevail.	
147	Book 2 of 3, Pages CP02-B2-693, CP02- B2-695	Reference: Malolos Station (Electrical) Please clarify/provide details of Cable tray for Lighting & Power System. Is it ladder type with cover or duct type with cover?	Please refer to the details in Book 2 of 3, Page CP02-B2-687.	
148	Book 2 of 3, Page CP02-B2-700-705	 Sizes, Type of Wires and number of core are conflict in wire schedule and panel schedule. Please confirm which one to follow. Conflicting grounding wire sizes in wire schedule and panel schedule, please confirm which one to follow. The number of circuits shown in the drawing are not the same in the panel board load schedule. Please advise which one to follow. 	 For the sizes of wires, please refer to Book 2 of 3, Page CP02-B2-715. The grounding lead from the panel grounding terminal shall be 8.0mm2 TW as shown in Book 2 of 3, Page CP02-B2-705. Consider the number of circuits shown in the drawings in Book 2 of 3, Pages CP02-B2-700 to CP02-B2-705. 	
149	Book 2 of 3, Pages CP02-B2-700 to CP02-B2-708, CP02-	Reference: Malolos Station (Electrical)	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA.	

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	DEEEDENGE	Package CP02: Elevated Structures an	d 3 Stations	
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	B2-691	Please provide Distribution Board Schedule for LPC-03, LPC-04, LPC-05 and LPC-06.		
150	Book 2 of 3, Page CP02-B2-703,Power Supply for ACU's	Reference: Malolos Station (Electrical) Please provide Power Supply plan layout for ACU's as per quantities indicated in Distribution Board Schematic.	The Contractor shall submit shop drawings for approval of the Engineer.	
151	Book 2 of 3, Page CP02-B2-704, Power Supply for Mechanical Equipment	Reference: Malolos Station (Electrical) Please provide Power Supply plan layout for Power Supply of EF's, Shutters, Potable Water Package, Fire Water Package, Waste Water Package and Jockey Pump	The Contractor shall submit shop drawings for approval of the Engineer.	
152	Book 2 of 3, Page CP02-B2-704, Power Supply for Door Shutter	Reference: Malolos Station (Electrical) Please provide layout plan and load schedule for the power supply of Door Shutters. The quantity of Door Shutter shown in Architectural drawings does not match with Electrical drawings.	The Contractor shall submit shop drawing for the approval of the Engineer.	
153	Book 2 of 3, Pages CP02-B2-705	There are conflicts on the number of poles of Main Circuit Breaker shown on wire schedule and panel board schedule. Please confirm which one to follow.	Please use 4P main breakers as shown in the Load Schedule.	
154	Book 2 of 3, Pages CP02-B2-706 to CP02-B2-708, CP02-	Reference: Malolos Station (Electrical)	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA. For other panels, please refer to Book 2 of 3, Pages CP02-B2-705 and	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	B2-715, CP02-B2- 691	Please provide panelboard Schedule for LPC-03, LPC-04, LPC-05, LPC- 06, LPC-11, LPC-12, LPC-13, LPC-14, LPC-15, LPC-16, LPC-17, LPC-18, LPC-19, LPC-20, LPC-21, LPC-22 and LPC-23	CP02-B2-706.	
155	Book 2 of 3, Pages CP02-B2-707 and CP02-B2-711, Panelboard Schedule	Reference: Malolos Station (Electrical) LPUC-02 Load Schedule circuit description does not match with Plan Layout. Please clarify.	Please use LPUC-02 Load Schedule.	
156	Book 2 of 3, Page CP02-B2-708	Please provide Load schedule for Panels LPC-11, LPC-23 and Panel LPC-03-LPC-06.	LPC-03 is for Telecommunications System; LPC-04 is for Signaling; LPC-05 is for AFC and LPC-06 is for SCADA. For LPC-11 and 23 refer to page no. CP02-B2-704 and 705.	
157	Book 2 of 3, Pages CP02-B2-709 and CP02-B2-711, Lighting System	Reference: Malolos Station (Electrical) Circuits Nos. 9, 10, 11 of Panelboard LPC-02 are missing in Plan Layout as compared to Load Schedule. Please provide drawing. Otherwise, Load schedule shall prevail.	The Load Schedule shall prevail.	
158	Book 2 of 3, Page CP02-B2-709	 Reference: Malolos Station (Electrical) 1. There are no Panel LPG-01 and PPC-02 indicated in the panel board load schedule and its location, but it has a circuit homerun shown on the drawing (NSCR-DWG-MAL-EL-5151,5152). Please confirm. 2. There are missing circuit homerun for receptacle layout. 	The missing homerun for the receptacles shall be connected to Panel PPC-01.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
		Please confirm and provide missing information's.	
159	Book 2 of 3, Page CP02-B2-709	Reference: Malolos Station (Electrical) Please clarify. The panelboards LPG-01 & LPG-02 are shown in plan but	Connect Panel LPG-01 with 100AT Main and 12 – 20AT, 1P branches to Ckt. #6 of MDB-01 and Panel LPG-02 with Main 60AT and 8 – 20AT,1P Branches to Ckt. #4 of MDB-02.
		not shown in Single Line Diagram and Load Schedule.	
160	Book 2 of 3, Page CP02-B2-710, Lighting System	Reference: Malolos Station (Electrical)	The number of fixture lamps indicated in the layout shall prevail.
		Please clarify. The Layout indicates Suspended Lighting fixture, 1700mm, 2 x 39W but Legend indicates 1 x39W only. Which one will prevail?	
161	Book 2 of 3, Page CP02-B2-710, Lighting System	<u>Malolos Station (Electrical)</u>No Panelboard PP-02 but the plan layout indicates connected circuit #'s 2 to 5. Please clarify where/what panelboard to connect this circuit #'s 2 to 5.	The ckts# 2 to 5 for receptacles shall be connected to PPC-01.
162	Book 2 of 3, Page CP02-B2-711	Reference: Malolos Station (Electrical) Please provide the missing wiring layout for the lighting system. Particular on 2-20W LED Lighting Fixture.	Connect 4-2x20W LED L/F to ckt. # 4 and 4-2x20W LED L/F to ckt#6 of Panel LPUC-02.
163	Book 2 of 3, Page	Quantity of smoke detector conflicts from layout compared to	Please follow the quantity in the layout plan in Book 2 of 3, Page

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE	
	CP02 -B2-716-717	the Fire Alarm schematic Diagram. Please confirm which one to follow.	CP02-B2-717.	
164	Book 2 of 3, CP02-B2-716 and TS 700-251 to TS 700-264, Fire Alarm	Reference: Malolos Station (Electrical) What is the required standard for the system and minimum	Please refer to the layout in Book 2 of 3, Pages CP02-B2-717 to CP02-B2-719.	
165	Book 2 of 3, Page CP02-B2-716	Ioop connection for Fire Alarm Control Panel? Reference: Malolos Station (Electrical) Please provide circuit layout for the Power supply of Fire Alarm Control Panel.	FACP to be connected to Ckt. #8 of Panel LPC-01 in Book 2 of 3, Page CP02-B2-707.	
166	Book 2 of 3, Page CP02-B2-720 and TS 700-226, Lightning Protection System	Reference: Malolos Station (Electrical) Please clarify. Technical Specification (TS 700-266) indicates minimum of 120mm2 braided Down conductor but drawing (CP02- B2-721) indicates 100mm2 MDBCW, which one will prevail?	The drawing in Book 2 of 3, Page CP02-B2-721 shall prevail.	
167	Book 2 of 3, Page CP02-B2-720	Reference: Malolos Station (Electrical) Please clarify. The lightning arrester detail indicates copper rod (9.5mmØ x 600mm) but the Legend indicates ESE type. Which one will prevail?	The use of the conventional type Air Terminal as shown in the details in Book 2 of 3, Page CP02-B2-720 will prevail.	

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
168	Book 2 of 3, Page CP02-B2-720	Reference: Malolos Station (Electrical) What size of down conductor and type of wire to be used connected to Roof Steel work to earthing rods.	The down conductor shall be 100mm2 MDBC Wire.
169	Book 2 of 3, Page CP02-B2-721, Lightning Protection System	Reference: Malolos Station (Electrical) Is it correct to interpret that the Pull box with Fiber Glass Cover and Lightning event counter shown in the drawing is the same as Grounding Terminal Box? If not, please clarify.	Yes, the Bidder's interpretation is correct.
170	Book 2 of 3, Page CP02-B2-721	Reference: Malolos Station (Electrical) If conventional type of Lightning Arrester is to be used (w/ Air Terminal 9.5mmØ x 600mm) do Lightning Event Counter still be required?	Conventional type of Lightning Arrester will be used complete with Lightning event counter.
171	Book 2 of 3, Page CP02-B2-721	Reference: Malolos Station (Electrical) Please provide details for grounding terminal box.	The Contractor shall submit the details as shop drawings for the approval of the Engineer.
172	Book 2 of 3, Page CP02-B2-722, Building Management System	Reference: Malolos Station (Electrical) BMS System Diagram indicates AC Units, Ventilation Fans,	The Contractor shall submit shop drawings based on standard product for review/approval of the Engineer as per GS 100 Clause 120.4.3.

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
		Roller Shutter Doors, CCTV Monitors, Pumps and Elevators, railway system SCADA and Fire System Control Panel. May we request to please provide specific list of equipment and utilities that requires control and monitoring. Also can you provide layout?	
173	Book 2 of 3, Page CP02-B2-722	Reference: Malolos Station (Electrical) Please provide I/O points list/quantity for railway system (SCADA).	The quantity of I/O points should be as required by SCADA provider to make the system operational.
174	Book 2 of 3, Page CP02-B2-722	Reference: Malolos Station (Electrical) What panelboard name is the power supply source for BMS System Panel? Please provide circuit layout for the Power supply of BMS system panel.	BMS Server Panel as shown in Book 2 of 3, Page CP02-B2-689. The Contractor shall propose circuit layout to the Engineer for approval.
175	Book 2 of 3, Page CP02-B2-726	V4 STEEL BRACKET ANTI COROSSIVE is described in outdoor unit installation detail, is the material SUS304?	For equipment brackets and supports, mild steel metal shall be used.
176	Book 2 of 3, Page CP02-B2-730 & 738	In Distribution Board Room and UPS Room, outside Air Diffuser with Fire Damper are shown without Ventilating Fan equipments. Please confirm.	Ventilating Fan shall be provided.
177	Book 2 of 3, Page CP02-B2-732	Base on the Note 1. It is stated that "Provide Shut-off Dampers on all intake and Exhaust Louver". Is this applicable on all rooms such as Comm Equipment room, Com m UPS room, Ser room, Sur room, AFC room and AFC UPS room?	Yes, the Bidder's understanding is correct.
178	Page CP02-B2-736	For A/C outdoor units, there are no access for maintenance	All A/C outdoor units are provided on top of Room slab and can

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ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
		shown. Please confirm.	be accessible.
179	Book 2 of 3, Page CP02-B2-754, Drawing No. NSCR- DWG-MAL-SN- 6104, Malolos Station Sanitary - Layout Ground Level, Malolos Station (Sanitary Station)	There is no drawing for Oil Interceptor in Malolos Station. Please confirm and if required kindly provide drawings.	Oil interceptors are required in Malolos Station and it should be located on ground level outside gridline A/10 (serving drain lines from Station's Electrical Room and Railway Electrical rooms at concourse level) and another outside gridline A/15 (serving COMM equipment and UPS rooms at ground level). Please refer to Book 2 of 3, Page CP02-B2-482 for oil interceptor detail. All oil interceptor will connect to nearest catch basin (please see Book 2 of 3, Page CP02-B2-502).
		Book 3 of 3	
180	Book 3 of 3, Page CP02-B3-041 and CP02-B3-047, Lighting System	Reference: Main Line Traction, Substation- 7 (Electrical) Detailed description of lighting fixtures does not match with Legend of layout plan. Which one will prevail? Please specify Lumen output for each lamp type.	The legend in the layout plan in Book 3 of 3, Page CP02-B3-047 shall prevail.
181	Book 3 of 3, Page CP02-B3-045, CP02- B3-109, CP02-B3- 174	Reference: Main Line Traction, Substation- 7, 8 & 9. (Electrical) Please provide feeder line tapping point of Panel LPC-01.	Please refer to Drawing No. NSCR-DWG-MTS7-EL-5102 in Book 2 of 3, Page CP02-B3-044 for the location of AC Low Voltage Panel.
182	Book 3 of 3, Page CP02-B3-105 and CP02-B3-111, Lighting System	Reference: Main Line Traction, Substation- 8 (Electrical) Detailed description of lighting fixtures does not match with Legend of layout plan. Which one will prevail? Please	The legend in the layout plan in Book 3 of 3, Page CP02-B3-111 shall prevail.

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ITEM NO.	REFERENCE CLAUSE/ SECTION	Package CP02: Elevated Structures an CLARIFICATION REQUEST	d 3 Stations RESPONSE
		specify Lumen output for each lamp type.	
183	Book 3 of 3, Page	Reference:	The legend in the layout plan in Book 3 of 3, Page CP02-B3-176
	CP02-B3-170		shall prevail.
	and CP02-B3-176,	Main Line Traction, Substation- 9 (Electrical)	
	Lighting System		
		Detailed description of lighting fixtures does not match with	
		Legend of layout plan. Which one will prevail? Please	
		specify Lumen output for each lamp type.	