Almex	Metro Manila Subway Project Phase 1 Package CP106: E&M Systems and Track Works			
ITEM NO.	REFERENCE/CLAUSE/ SECTION	QUERIES	RESPONSE	
		Volume II, Part 2 – Employer's Requirements,		
		c) Technical Requirements (ERT)		
1.	04 Power Supply System_12	"1. Backup Operating Facilities shall be equipped only for	No, bidder's understanding is incorrect.	
	Dec 2019 (PA)	open/close operation of all circuit breakers and only for		
	Clause: 4.10.12 & 4.10.15 (3)	monitoring of all circuit breakers' statuses, when main	The P-SCADA located within OCC are dual	
	Page: POW-4-85,86	operating facilities in OCC are failed.	parallel redundant operating system and	
		2. The backup operation facility has a function that can be used	must be able to 'back-up' each other.	
		as a training facility for power supply and distribution system		
		operation using a sequence simulator by off-line system. As	The BOCC is a back-up for emergency use only	
		PRI has training facilities. The contractor must consult with	in the event the OCC is out of services with all	
		the customer whether to use this feature."	staff evacuated.	
		"One OCC to be provided (and BCC as an OPTION for future		
		to be confirmed). Central workstations shall be provided giving		
		an effective means of display and control. Simultaneous		
		control operations from the OCC and BCC shall not be allowed.		
		Main Control shall be available at OCC. It shall be transferred		
		automatically to BCC in case of OCC communication Failure		
		or Both Servers failure. Else, BCC controller shall request		
		OCC controller to transfer control. On BCC controller's		
		request, OCC controller can transfer control to BCC & vice-		

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		versa but with an authorization In Emergency BCC controller		
		can forcefully take over control & vice-versa. It shall generate		
		an audio Alarm at OCC as well as at BCC. Each transfer shall		
		be a recorded event with time		
		stamping."		
		According to the requirement above, operation concept of		
		"Backup Operating Facilities" in OCC and "BCC" are		
		overlapped and contradicted, i.e. both of them are the backup		
		when OCC is failed. As such, we proposed "Backup Operating		
		Facilities" in OCC should be served for training purpose only,		
		while backup of OCC will be covered by BCC.		
		Please confirm		
2.	04 Power Supply System_12	"The switchgear shall be protected from total dust ingress and	Under the CP 106 design build contract the	
	Dec 2019 (PA)	protected from long term immersion up to specified pressure.	Contractor is responsible to develop the	
	Clause: 4.8.4 (34.5 kV	The 34.5 kV switchgear shall be comprised of the following:"	detailed technical specification for 34.5kV	
	Switchgears – item (f))		Switchgear including design, build and test of	
	Page: POW-4-49	Please confirm the detailed specification for the above.	all electrical equipment/components which	
			compliant with BSEB/IEC standards and or	
			equivalent JIS Standards as specified in the	

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			Employer's Requirement.
		Volume III, Part 2 $-$ Employer's Requirements (ER)	
		d) Drawings	
3.	Vol III Part 2 Employers	There are no signalling track layout and route tables for	Concept route table for stations showing
	Requirements_d)	Quezon, East Avenue, Anonas, Katipunan, Kalayaan and East	diverging routes where the turn back
	Drawings_19 Dec 2019	Valenzuela.	provision is available was included in the Bid
		Please provide.	document for information only.
			Route table is a part of detail design, which the
			contractor shall prepared with headway
			simulation/calculation and submit during the
			detailed design phase for the Engineer and
			Employer review for approval.
Volume IV, Part 3 — Conditions of Contract and Contract Forms			

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4.	CP106 Vol	Please confirm if a retention bond is acceptable in place of	A retention bond is NOT acceptable in place of	
	IV_CF_PC_CONTRACT	deduction on each payment.	deduction on each payment.	
	FORMS_11 Dec 2019 (PA)			
	Clause: Percentage of			
	retention 14.3 (c), Particular			
	Conditions (PC)			
	Part A – Contract Data			
	Page: PC-4			
5.	CP106 Vol	The 2-internet links do not work. Please confirm the correct	Please use the following links:	
	IV_CF_PC_CONTRACT	links.		
	FORMS_11 Dec 2019 (PA)		http://www.jica.go.jp/english/our_work/types_	
	Clause: 14.7 Payment,		of_assistance/oda_loans/oda_op_info/procedur	
	Particular Conditions (PC)		<u>e/index.html</u>	
	Part B – Specific			
	Provisions		http://www.jica.go.jp/english/our_work/types_	
	Page: PC-10		of assistance/oda loans/oda op info/procedur	
			e/pdf/transfer_201208.pdf	
		General Bid Bulletin		

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6.	General Bid Bulletin No. 6.	There are discrepancies between main line layout and	Route table is a part of detail design, which the		
	Clause: Annex B, Item 13	individual station layout. Please provide the updated	contractor shall prepared and develop based		
	Page: 5 of 6	individual station route table for signalling design.	on the headway simulation/calculation and		
			submit them for the Engineer and Employer		
			review and approval.		
7.	General Bid Bulletin No. 6.	We understand that CBTC and ETCS are independent systems	Interoperability is only of the MMSP Rolling		
	Clause: Annex A, Item 17	(both hardware and software level) from each other, while that	operating on the NSCR- South section.		
	Page: 8 of 65	interoperability is required, and the Interface Specification			
		shall be developed by CP106 as a part of the concerned parties,	As part of the design and build contract an		
		this is not possible without details of the ETCS system to be	Interface specification of the Signaling		
		used. Please confirm details of the ETCS system so that	systems in the Rolling Stock for the (CBTC) by		
		compatibility and interoperability can be reviewed.	CP 106 and NSCR -South Signaling system		
			(ETCS) Contractor shall be developed between		
		If ETCS details are not available, please confirm this will be	the CP106 (MMSP Contractor) & NS-01		
		excluded from CP106 until such information is available.	(NSCR Contractor) during the detailed design		
			phase.		
			The exclusion and / or inclusion of the ETCS		
			information within the Interface Specification		
			shall be determined during the detailed design		
			stage between the Contractors.		

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			The interface specification is subject to the	
			Engineer and Employer review and acceptance.	
8.	General Bid Bulletin No. 6.	Item 7 of Annex B in GBB 6 mades reference to Calamba Depot	Bidders understanding is incorrect.	
	Clause: Annex B, Item 7	and Mindanao Depot. No other references are made in the ITT	Only Mindanao Depot at East Valenzuela is	
	Page: 3 of 6	to these depots.	within the scope of CP106 contract.	
		Please confirm these depots are within the scope of CP106?		
			Refer to Drg. No. MMSP-SIG-0000-DD-0401	
		If these depots are within the scope of CP106, please provide	for Track and Signalling layout of Mindanao	
		details of location, track layout, signalling layout and the	Depot.	
		signalling route table. Also, please provide details power		
		availability and location of TSS and Signalling Equipment	The Depot route table is a part of detail design,	
		Room in these depots.	which the contractor shall prepared and	
			develop based on the headway simulation and	
		For Mindanao depot, please provide details of the ETCS	calculations by the Contractor which is	
		system to be installed.	submitted for the Engineer and Employer	
			review and approval.	
		Please provide key dates for access and completion in these		
		depots.	TSS and SER locations in the Depot can be	
			found on Depot drawings which were attached	
			as part of GBB 5.	

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			Total power supply capacity for Signalling is referenced in section 2.5.10 Miscellaneous Signalling System, section 7) Power Supply System. Contractor to provide detailed power calculation during detailed design.  ETCS level 2 shall be provided by NS01 contractor as required to establish ETCS enabled MMSP trains can communicate with the wayside track equipment at Bicutan and beyond.  Key dates for access are published in GBB No 1 published on 14 Feb 2020.	
9.	General Bid Bulletin No. 3.	In GBB3 item 13, it is stated that the Contractor of the Power	Both GBB No.3 and No.6 are correct.	
	Clause: Annex A, Item 13	Supply System (POW) shall be responsible for design and build		
	Page: 9 of 43	of 115/34.5kV BSS, covering civil/structure and electrical.	For the BSS, the Contractor shall be	
			responsible for design and build a complete of	
	General Bid Bulletin No. 6.	In GBB6 item 50, it is stated that "Contractor is required to	115/34.5kV BSSs which covering	
	Clause: Annex A, Item 50	work closely with Civil/ Architecture Contractor/s with respect	civil/structure and electrical.	

Annex "	Metro Manila Subway Project Phase 1 Package CP106: E&M Systems and Track Works				
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	Page: 26 of 65	to room size"			
		Please confirm all equipment room building structures, including BSS, TSS and SSS are provided by the civils contractor?	Meanwhile, all equipment rooms building structures within the Station including TSS(s) & SSS(s) shall be built by Civil Contractors. However, the CP 106 Contractor shall be responsible for the coordination and providing all the interface requirement with relevant Civil Contractors. Refer to Appendix 6 of the Bidding Document.		
10.	General Bid Bulletin No. 6. Clause: Annex "A", Item 5 Page: 3 of 65	We note that under GBB6 item 5, Facilities SCADA is part of the CP106. We do not believe this to be correct, as the systems contractor has no information of equipment being provided under the civils contract nor details of the clients/operators requirements. This information is required to be able to size and determine the requirements of the facilities SCADA.  Please confirm our assumption is correct and the Facilities SCADA sits outside the CP106 Scope?	No, bidder's understanding is incorrect.  Station Facility SCADA is the responsibility of the Civil Contractor under the Building Management System (BMS)  Interfacing with Station BMS is the responsibility of CP106 Scope of works.  Civil Contractor/s are responsible for all Station BMS (i.e. Facility SCADA).		

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			CP 106 contractor shall interface and possibly		
			integrate with the Station BMS at the OCC.		
			This system integration is called Integrated		
			Control and Supervisory System / Facility		
			SCADA (ICSS)/FSCADA). The demarcation		
			and detailed interface points defined with		
			Civil Contractor/s during the design stage.		
			The requirements of ICSS/FSCADA shall be		
			published in the next General Bid Bulletin as		
			CP 106 addendum.		

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11.	General Bid Bulletin No. 6.	In the event our assumption above on the facilities SCADA is	Refer to the response to item 10 above.	
	Clause: Annex "A", Item 5	incorrect, please provide details of all equipment being		
	Page: 3 of 65	installed that is required to be monitored by the facilities		
		SCADA including equipment type, number, location,		
		standards to be fulfilled by FSCADA, means of interface with		
		the SCADA system (i.e. via hardwire or network or any serial		
		interface), the number of inputs and commands required,		
		communication protocol for LAN interface, no. of I/O points per		
		interfacing system per stations, please also provide details of		
		the functionality required from the SCADA including the		
		number of users and terminals, location of these users and		
		terminals, types of alarms etc.		
		Please detail how many workstations are needed for FSCADA		
		in each location? And how many monitors per workstations?		
		In addition, please confirm if FSCADA will control or		
		monitoring only for each interfacing systems?		
12.	General Bid Bulletin No. 6.	In GBB6, it is stated that "At present the Contractor should	There will be no change in Frequency range	
	Clause: Annex "A", Item 24	assume and consider the future design of TETRA system in	for MMSP radio system. Frequency range	
	Page: 11 of 65	range of VHF band (30MHz- 300MHz) and UHF band	will remain same.	
		(300MHz-3000MHz). The Engineer and the Employer shall	The MMSP radio frequency configuration will	

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		assist the Contractor to secure the frequencies for radio system	be VHF band between 30MHz- 300MHz and	
		from NTC after CP106 Contract award" Not securing these	UHF band between 300MHz-3000MHz.	
		frequencies prior to design is an issue and may result in		
		additional cost if frequency range is changed.		
		We therefore suggest to limit the risk and the potential for	The required frequencies will be secure with	
		additional cost to the Employer that these frequencies are	Authorities during the detailed design for	
		secured prior to contract award, or the Employer accepts the	project use.	
		risk of additional cost if these frequencies are not secured.		
		Please confirm		
13.	General Bid Bulletin No. 6.	In reference to response "spares parts quantity for Telecom	The Contractor to propose spare parts and	
	Clause: Annex "A", Item 23	package shall be for 10 years from end of DNP".	quantity based on their Reliability Availability	
	Page: 11 of 65	Please confirm if	and Maintainability (RAM) assessment for the	
		1. This is to be included in our offer and delivered. or	Engineer and Employer review and	
		2. Spare parts price list with quantity to be offered and	acceptance.	
		exercised by Employer separately and the price for 10 years		
		spares should not be included in our offer.	The spare parts quantity of equipment for	
			telecom package shall be for 10 years from the	
			end of Defect Notification period (i.e. full hand	
			over to O&M). The Design and spare parts to	
			avoid any unavailability or obsolete of telecom	

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			equipment's parts in market for next 10 years.
14.	General Bid Bulletin No. 6.	Please confirm track circuits are required for the depot and the	Secondary train detection system shall be
	Clause: Annex "C", Signaling	full length of the tunnel section.	used within the depot and mainline to detect
	Layout in Depot, Main Line		the absence of a trains that loss of CBTC
	Layout of Signaling Scheme		communication.
	Page: 6 & 7 of 77		
			However, the Contractor shall present a
			failure mode effect and criticality analysis
			(FMECA) and safety assurance with the
			detailed design.