Annex	5		Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works		
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19	Э	
		1	Volume I, Part 1 —Bidding Procedures		
1.	SECTION V,	Revise this	schedule by remove the following item (f):		
	COST CENTRE A, SCHEDULE A1 -	ITEM	DESCRIPTION	AMOUNT	
	PRELIMINARIES AND GENERAL REQUIREMENTS	A1.6	Obtain Notice of No Objection or Notice of No Objection With Comment(s) from the Engineer for the following:		
	Sheet 1 of 2	(a)	Works Programme		
		(b)	Site Quality Management Plan		
		(c)	Site Safety Plan		
		(d)	Site Environmental Plan		
		(e)	Site Environmental Monitoring Plan		
		€Ð	Design for-Depot Yard and Depot Street Lighting (Preliminary, Pre-Final, Final Design and As-Built		
			Document)		

Annex "I	5		Metro Manila Subway Project Phase 1			
ITEM NO.	REFERENCE CLAUSE/SECTION		age CP106: E&M Systems and Track Works ADDENDUM No. 19)		
2.	2. SECTION V, COST CENTRE A, SCHEDULE A2.11 – DESIGN FOR FACILITIES SCADA	SCHEDUL	e following Schedule A2.11: E-A2.11 – DESIGN-FOR-<u>INTEGRATED-CONTR</u> ES SCADA	OL & SUPERV	ISORY SY(STEM (ICSS)
				AMOUT	TT	
		ITEM	DESCRIPTION	FOREIGN CURRENCY	PHP	
		A2.11.1	Obtain Notice of No Objection or Notice of No Objection With Comment(s) from the Engineer the following submissions for <u>ICSS/Facilities SCADA</u> and Linear Heat Detection System (LHDS) in tunnel:			
3.	SECTION V, COST CENTRE A, SCHEDULE A2.12 –BIM REQUIREMENTS	COST CEN	e following Schedule A2.12: I <mark>TRE A - PRELIMINARIES AND GENERAL REQU</mark> E A2.12 - BIM REQUIREMENTS	JIREMENTS AN	D-DESIGN	
		ITEM	DESCRIPTION	AMOUR FOREIGN CURRENCY	ETT ETTE	
		<u>A2.12.1</u>	Obtain Notice of No Objection or Notice of No Objection With Comment(s) from the Engineer the following submissions for BIM Requirements			
		(a)	Pre-BIM Works (Mobilization, Setting-up, Procurement of BIM system and associated works)			

Annex "I	5							
			Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works					
			age CI 100: EQM Systems and Track Works					
ITEM	REFERENCE		ADDENDUM No. 19					
NO.	CLAUSE/SECTION			1				
		(b)	Payment based on sub-systems BIM-model					
			completed.					
			• <u>Track Works</u>					
			• <u>Signaling</u>					
			 <u>Telecommunication System</u> 					
			 <u>Power Supply System</u> 					
			 Overhead Catenary System (OCS) 					
			 <u>Automatic Fare Collection (AFC) System</u> 					
			 <u>Maintenance Vehicle and Depot Equipment</u> 					
			 <u>Tunnel Walkway and Guard Rail</u> 					
		<u>A2.12.2</u>	Completion of the remaining works.					
		Total of Se	chedule A2.12 carried forward to Summary of Cost					
		Centre A:						
4.	SECTION V,	Revise this	schedule by remove the following items A3.12 & A3.1	3:				
	COST CENTRE A,			AMOU	NT			
	SCHEDULE A3 - SUMMARY OF	ITEM	DESCRIPTION	FOREIGN	PHP			
	COST CENTRE A			CURRENCY				
		A 2 12	Sahadula A2.11 Design Fam ICSS/Equilities					
		<u>A3.12</u>	Schedule A2.11 – Design For <u>ICSS/</u> Facilities- SCADA.					
		<u>A3.13</u>	Schedule A2.12 – BIM Requirements					

Annex			Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works			
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19)		
5.	SECTION V, COST CENTRE B, SCHEDULE B13 –FACILITIES		e following Schedule B13: E B13 – <u>INTEGRATED CONTROL & SAFETY SYS</u>	'TEM (ICSS)/-FA	CILITIES (SCADA
	SCADA			AMOUN	41	
		ITEM	DESCRIPTION	FOREIGN CURRENCY	PHP	
		B13.1	Obtain Notice of No Objection or Notice of No Objection with Comment(s) from the Engineer for Factory Acceptance Tests.			
		B13.2	Delivery of <u>ICSS/</u> Facilities SCADA equipment complete with all necessary and associated accessories.			
		<u>B13.3</u>	Delivery of Linear Heat Detection System (LHDS) equipment completes with all necessary and associated accessories.			
		Total of St Centre B;	chedule B13 carried forward to Summary of Cost-			

Annex "I			Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works					
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19					
6.	SECTION V,	Remove ite	m B14.13 with the following:					
	COST CENTRE B,			AMOU	NT			
	SCHEDULE B14 - SUMMARY OF COST CENTRE B	ITEM	DESCRIPTION	FOREIGN	PHP			
	OF COST CENTRE B			CURRENCY				
		B14.13	Schedule B13 <u>ICSS/</u> Facilities SCADA					
		Total of C	ost Centre B carried forward to Summary of Cost					
		Centres:						

Annex "I	0		Metro Manila Subway Project Phase 1					
		Pack	age CP106: E&M Systems and Track Works					
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19					
7.	 ^{7.} SECTION V, COST CENTRE C, SCHEDULE C12 – INSTALLATION AND TESTING 	SCHEDUL	e following Schedule C12: E C12 –INSTALLATION AND TESTING OF <u>INTEG</u> I<u>CSS) /</u> FACILITIES SCADA	CRATED CONTR	COL & SUP	ERVISORY		
	OF FACILITIES SCADA	ITEM	DESCRIPTION	AMOUT FOREIGN CURRENCY	VI PHP			
		C12.1	Obtain Notice of No Objection or Notice of No Objection With Comment(6) from the Engineer for Inspection, Testing and Commissioning Management Plan.					
		C12.2	Completion of installation, site testing and integrated testing for the <u>ICSS/</u> Facilities SCADA					
		<u>C12.3</u>	Completion of installation, site testing and integrated testing for the Linear Heat Detection System (LHDS) in tunnel					
		C12.3 <u>C12.4</u>	Completion of System Acceptance Test.					
		$\frac{C12.4}{C12.5}$	Completion of the remaining works.					
		Total of S Cost Cen	Schedule C12 carried forward to Summary of tre C:					

Annex "I	-	Pack	Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works				
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19				
8.	SECTION V, COST CENTRE C, SCHEDULE C14 - SUMMARY		Revise this schedule with the following: SCHEDULE C13 - SUMMARY OF COST CENTRE C				
	OF COST CENTRE C	ITEM	DESCRIPTION	AMOUN FOREIGN CURRENCY	NT PHP		
		C13.1	Schedule C1 - Installation & Testing Of Track Work				
		C13.2	Schedule C2 – Installation & Testing Of Signaling System				
		C13.3	Schedule C3 – Installation & Testing Of Communications System				
		C13.4	Schedule C4 – Installation & Testing Of Power Supply System at Substations				
		C13.5	Schedule C5 – Installation & Testing Of Power Distribution System				
		C13.6	Schedule C6 – Installation & Testing Of Overhead Contact System				
		C13.7	Schedule C7 – Installation & Testing Of Automatic Fare Collection System				
		C13.8	Schedule C8 – Installation & Testing Of Platform Screen Doors System				
		C13.9	Schedule C9 – Installation & Testing Of Electrical & Mechanical Equipment at PRI				

Annex "I			Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works		
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19	I	
		C13.10	Schedule C10 – Installation & Testing Of Electrical & Mechanical Equipment at Training Centre		
		C13.11	Schedule C11 – Installation & Testing Of Maintenance Management System		
		C13.12	Schedule C12—Installation & Testing Of I <u>CSS/</u> Facilities SCADA <u>and Linear Heat Detection</u> System (LHDS) in tunnel		
		C13.13 C13.12	Schedule <u>C13</u> – Integrated Testing And Commissioning		
		Total of C Centres:	ost Centre C carried forward to Summary of Cost		
9.	 ^{9.} SECTION V, COST CENTRE D, SCHEDULE D3 – MANUFACTURE & DELIVERY 	Revise this	schedule with the following:		
				AMOUN	NT
	OF DEPOT EQUIPMENT	ITEM	DESCRIPTION	FOREIGN CURRENCY	РНР

Annex "I			Metro Manila Subway Project Phase 1 age CP106: E&M Systems and Track Works				
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19				
		D3.1	Obtain Notice of No Objection or Notice of No Objection With Comment(s) from the Engineer for Factory Acceptance Tests for Depot Equipment as stipulated under Volume II, Part 2, Section VI, c) Employer Requirement Technical (ERT), item 8. Contractor shall list down all items listed above and provide unit price to each equipment.				
		D3.2	Delivery <u>and Installation</u> of the Depot Equipment to the Site:				
		D3.3	Delivery and Installation of Depot Yard and Depot Road's street Lighting				
10.	SECTION V,	Revise this	schedule with the following:				
	COST CENTRE D, SCHEDULE D4 – TESTING OF			AMOU	NT		
	DEPOT EQUIPMENT	ITEM	DESCRIPTION	FOREIGN CURRENCY	PHP		
		D4.1	Completion of testing of Depot Equipment as stipulated under Volume II, Part 2, Section VI, c) Employer Requirement Technical (ERT), item 8.				
			Contractor shall list down all items listed above and provide unit price to each equipment.				
		D4.2	Testing of Dopot Yard and Depot Road's street Lighting				
		D4.2	Completion of the remaining works.				

		Pacl	Metro Manila Subway Project Phase 1 kage CP106: E&M Systems and Track Works			
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19			
		D4.3	Contractor's other cost :- Contractor shall list down separately any other specific items of work obligations or services which have not been included in other documents or drawings.			
		Total of a Centre I	Schedule D4 carried forward to Summary of Cost):			

Annex "I	0		Metro Manila Subway Project Phase 1	
		Pa	ackage CP106: E&M Systems and Track Works	
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No	o. 19
11.	SECTION V, COST CENTRE E, SCHEDULE E4 – PROVISIONAL SUMS FOR DISPUTE BOARD'S COSTS, PUBLIC RELATIONS RELATED EVENTS AT SITE, PROVISION OF ASSISTANCE FOR RIGHT OF WAY ACCESS AND MONTHLY TRAINING OF EMPLOYER'S PERSONNEL	Revise therein the series of the series o	his schedule with the following: Project Management Information System (PMIS)/Comm This Provisional Sum is to include associated Engineering. BIM Requirement. This Provisional Sum is to include pre-BIM works such system and associated works. Integrated Control & Safety System (ICSS) /F-SCADA This Provisional Sum is to include design, delivery, inst Depot Yard and Depot Street Lighting. This Provisional Sum is to include design, delivery, inst Linear Heat Detection System (LHDS). This Provisional Sum is to include design, delivery, inst tunnel.	licenses cost which is part of the Digital h as mobilization, setting-up, procurement of BIM tallation, testing & commissioning. tallation, testing & commissioning.
		Item	Description	Amount (PHP)
		(a)	DB's Costs	42,000,000
		(b)	PR related Events at Site	15,000,000

Annex "B	,	Ē	Metro Manila Subway Project Phase 1 Package CP106: E&M Systems and Track Works					
ITEM NO.	REFERENCE CLAUSE/SECTION		ADDENDUM No. 19					
		(c)	Monthly Training	10,000,000				
		(d)	Temporary Power					
		-	For PRI (Genset Rental)	5,000,000				
		-	For Station & Depot (Meralco's temporary supply)	60,000,000				
		(e)	Works related to FTI and Bicutan Stations	5,811,000,000				
		<u>(f)</u>	Project Management Information System (PMIS)	21,000,000				
			/Common Data Environment					
		<u>(g)</u>	BIM Requirement – Pre-BIM Works (Mobilization,	<u>755,000,000</u>				
			Setting-up, Procurement of BIM system and					
			associated works)					
		<u>(h)</u>	Integrated Control & Safety System (ICSS) /F-	<u>1,009,230,000</u>				
			<u>SCADA – Design, Delivery, Installation, Testing &</u>					
			Commissioning.					
		<u>(i)</u>	Depot Yard and Depot Street Lighting – Design,	<u>175,417,000</u>				
			Delivery, Installation, Testing & Commissioning.					
		Total	of Schedule E4 to be carried forward to Summary of	<i>5,943,000,000</i>				
		Cost C	Centre E:					