Metro Manila Subway Project Phase 1 Package CP107: Rolling Stock							
ITEM NO.	REFERENCE/CLAUSE/S ECTION	AUSE/S CLARIFICATION REQUEST				RESPONSE	
1	Technical Requirements It is required in the Technical Requirement Sub-Clause 6.4 that the				ne floor	Bidder's request is accepted.	
	Page ERT-38	covering material shall	meet the following pe	erformance requirements:			
	Sub-Clause 6.4 FLOORING	1) Slip resistance of 0.75 dry and 0.62 wet in accordance with JRIS J0745;			745;	The service proven record shall	
		2) Hardness of Shore A Hardness 85-90;				include the number and years in	
		3) Resistance to chemicals in accordance with JIS A 1454 with noticeable				operation in a similar railway	
		variation;				supplied by the Bidder for the	
		and				Engineer review.	
		4) Tensile strength in accordance with JIS K 6251 - 7.3 MPa.					
		The baseline design adopted for the proposed rolling stock uses PVC (Poly					
		Vinyl Chloride) for the floor covering which has been used for over 3,000					
		rolling stocks in Metropolitan Tokyo area since year 2000.					
	Then, Bidder compared the above characteristics with the PVC floor cover				overing		
		material as summarized below:					
		Requirements	TS Requirements	PVC			
		Slip resistance	Dry: 0.75, Wet 0.62	Dry: 0.83, Wet: 0.54			
		(C.S.R. value)					
		Hardness measured	85 - 90	97 (considered			
		by Durometer:		equivalent with Shore			

				A Hardness) per ASTM		
				D2240		
		Resistance of	Per JIS A 1454	Superior to JIS A1454		
		chemicals:				
		Tensile strength per	7.3 MPa	8.0 MPa		
		JIS K 6251:				
		As shown in the above	chart,, coefficient o			
		little wider range betwe	en dry and wet as co	d value;		
		however, overall proper	ty of PVC has bette			
		typical rubber type floor covering; therefore, Bidder would like Employer to				
		accept the alternative floor covering material as above.				
2	Technical Requirements	It is Bidder' understanding that the requirement of Vehicle Fire Safety and				Bidder's understanding is correct.
	Page ERT-46	Protection is fully satisfied if the Contractor fully meets Japanese Ministerial			Application shall be for subway train	
	Sub-Clause 6.17 VEHICLE	Ordinance, MLIT Chapter 8, Section 5, Article 83 (Countermeasures for Fire			category.	
	FIRE SAFETY AND	of Rolling Stock). Please confirm if Bidder's understanding is correct.				
	PROTECTION					
3	Technical Requirements	ERT sub-clause 10.4, Item 1) requires that			Bidder's understanding is correct.	
	Page ERT-61	digital wheel slide protection with gradual slide correction shall be provided in			Not to be included in the Parking	
	Sub-Clause 10.4 WHEEL	all braking modes.			Brake.	
	SLIDE CONTROL SYSTEM					
		It is Bidder's understanding that "all modes" in the above sentence means			Note the following;	
		service brake, emergency brake and security brake only and it is not necessary			Whether this function is applied in	
		to apply wheel slide con	trol system for parki	ng brake,		security brake shall depend on the

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		Please confirm if Bidder's understanding is correct.	security brake mode sequence and
			condition. Proposal shall be reviewed
			and accepted in the detail design stage.
4	Technical Requirements	It is Bidder's understanding that the purpose of parking brake test is to verify	Bidder's understanding is correct, and
	Page ERT-117	its ability on the specified gradient in accordance with TS clause 1.8.5.	request is accepted.
	Sub-Clause 22.3 DESIGN	Accordingly, the Bidder opines that the actual force measurement will not be	
	QUALIFICATION TESTING	required, and therefore asks Employer to remove the below requirement in ERT	The Parking brake performance
		sub-clause 22.3, Item 8).	including brake effort and mechanical
			release function shall be submitted to
		"The test shall record the actual force required to overcome the parking brake	be reviewed by the Engineer, the limit
		in a failure recovery situation on both level track and a 3.5% gradient."	of parking brake performance is to be
			confirmed by the document, and the
		If this requirement is not be removed, Bidder is concerned that the	test then item mentioned here by the
		aforementioned test required in ERT sub-clause 22.3, Item 8) may cause many	Bidder can be omitted.
		wheel flats when the pulling/pushing force is applied on the train set until such	
		force exceeds the parking brake force. In that case, it is Bidder's understanding	
		that Contractor has no responsibility to that wheel flat. Please confirm if	
		Bidder's understanding is correct.	