	Volume II, Part 2 — Employer's Requirements 2. Specifications, A) General Requirements (ERG)								
1.	Appendix B - Split Responsibility on Rolling Stock and Other Works	Revise	Revise "Table B.1 Interface Responsibility Matrix" with the following: Table B.1 Interface Responsibility Matrix						
		No.	Interface Item	Design Requirement	Design, Size & Location	Supply	Fix	Remarks	
		1-b	 Description of on-board Signaling & Communication Equipment's but not limited to the following: On-board signaling system racks/cubicles Wheel sensors SIG Accelerometer SIG Radar SIG Antenna SIG On boards data communication System (DCS) for ETCS-Level2 Driver Machine Interface SIG Cables for interlink with signaling equipment Cable connectors for signaling equipment Train Radio- com Antenna cable - com Connectors for communication 	CP-NS-01	CP107 and CP NS-01	CP-NS-01	CP107 Installation on the first train-set is supervision by CP 107 & CP NS-01 Contractors.	CP107 and CP NS-01 Contractors shall coordinate and agree on the size, space and location.	
		2	Equipment for Running and Stopping Assistant System	CP NS-01	CP107 and CP NS-01	CP NS-01	CP107	CP107 and CP NS-01	

Annex "B"			-				
		(This function could be part of the				Installation on	Contractors
		ETCS)				the first train-set	shall
						is supervision by	coordinate and
						<u>CP 107 & CP</u>	agree on the
						<u>NS-01</u>	size, space and
						Contractors.	location.
	3	Equipment for PSD Controller	CP NS-01 &	CP107 and	CP NS-01	CP107	CP107 and CP
		(This function could be part of the	CP 106	CP NS-01		Installation on	NS-01
		ETCS)				the first train-set	Contractors
						is supervision by	shall
						<u>CP 107 & CP</u>	coordinate and
						<u>NS-01</u>	agree on the
						Contractors.	size, space and
						<u>contractors.</u>	location.
	4	 Cable description but not limited to the following: Power supply cable for train radio Power supply cable for Signaling & Communication equipment Cables for train lines to signaling equipment Power supply cable for Advertising Equipment. 	CP106 CP NS-01	CP107 CP106 and CP NS-01	CP107 CP NS-01	CP107 <u>Installation on</u> the first train-set is supervision by <u>CP 107 & CP</u> <u>NS-01</u> <u>Contractors. (for</u> <u>Signaling &</u> <u>Communication</u> equipment)	CP107, CP106 and CP NS-01 Contractors shall coordinate and agree on the size and location
	5	Fixtures and Fittings: Disconnection	CP106	CP107	CP106	CP107	CP107, CP106
		and terminal blocks, device	CP NS-01	CP106 and	CP NS-01	Installation on	and CP NS-01 Contractors

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		mounting brackets and plates,		CP NS-01		the first train-set	shall
		flexible conduit assemblies				is supervision by	coordinate and
		complete with connectors and cables				<u>CP 107 & CP</u>	agree on the
		from speed measurement devices to				<u>NS-01</u>	size and
		the junction boxes.				Contractors. (for	location
						<u>Signaling &</u>	
						Communication	
						equipment)	
	6	Power Supply and Earthing Arrangements: Power supply	CP106	CP107 CP106	CP107	CP107	
		circuits, including positive and	CP NS-01	and		Installation on	
		negative poles, for the on- board signaling equipment.		CP NS-01		the first train- set is	
		Dedicated earthing arrangements for				supervision by	
		the on-board signaling equipment				<u>CP 107 & CP</u> <u>NS-01</u>	
						Contractors.	
Volume II, Part 2 – Employer's Requirements							
2. Specifications, B) Technical Requirements (ERT)							

2.	Clause 1.8.4	Revise 5 th paragraph with the following:
	Degraded/Emergency	
	Performance	"The Contractor shall confirm by calculation and test that 8 cars train-set at W0 loading condition can push
		and tow a 10 cars train-set at 20 t/car loading condition (537 ton) with an inoperative propulsion system in
		its worst condition on a 3.5% upgrade at the tangent track of 2.0 km. If the healthy train cannot be pushed
		or towed at the 3.5% upgrade, then the high acceleration mode shall be applied. But this requirement is
		under the non-slip condition, and the adhesion at this requirement is not to be considered. The test shall be
		conducted under the non-slip condition."
3.	Clause 10.5 Brake	Revise 4 th paragraph with the following:
	Control/Brake Blending	
		When the regenerative braking force is insufficient with respect to the required braking force, the trailer
		car's friction brakes shall be initiated. If the braking torque is still insufficient, the motor car's friction brakes
		shall be initiated. Distribution of the friction braking torque derived from the trailer/motor cars shall be
		controlled by the TMS.
4.	Clause 10.7 Brake	Revise item no.7 on the 1 st paragraph with the following:
	Control Unit (BCU)	
		"In case of brake troubles that could lead and cause other troubles for example wheel damaging, release,
		acceleration command shall be cut off. However, in this function, a short circuit switch shall be supplied;"

General Bid Bulletin No. 7

Annex "B"

5.	Clause 12	Revise 2 nd paragraph with the following:							
	PROPULSION								
	SYSTEM,	"In the following conditions, the propulsion system shall have enough capacity for normal and recovery							
	12.1 GENERAL	operation. The CP 107 Contractor shall validate and confirm the normal and recovery run (power consumption) at curves submitted by CP 106 and NS-01 Contractors. The CP 107 Contractor shall simulate acceleration power consumption, regenerative power amount, RMS current, maximum drawn current during acceleration, maximum return current during regenerative braking to OCS and the temperature rise of each equipment etc. Total power consumption of a round trip (Quirino Highway East Valenzuela-Bicutan, and East Valenzuela to Calamba, etc.) for the following as a minimum condition shall be submitted for review by the Engineer:							
		3) In case of <u>recovery (catch up mode)</u> operation (ATO all out condition);"							
6.	Clause 17.1 General	Revise "Table 17.1 Responsibility Matrix" with the following:							
			Table 17.1 Responsibility Matrix	Table 17.1 Responsibility Matrix					
		SOW	Item Description	By Contractor					
		5	Train radio system to allow full-duplex audio communication between the driver and the OCC <u>for the entire section</u> . <u>In NSRP South section</u> <u>Train radio system to allow full-duplex audio communication between</u> <u>the driver and all the stations.</u> Additional interfaces shall be provided	CP106 <u>CP NS-01</u> (<u>GSMR)</u>					

General Bid Bulletin No. 7 Annex "B"

7.	Clause 17.7 Train	Revise 1 st paragraph with the following:
	Radio System	
		"The Train Radio System for the <u>CP 107 Contractor's</u> Rolling Stock shall be designed and supplied by the
		CP106 Contractor for the MMSP CP107 Contractor to install on the Rolling Stock and CP NS-01 Contractor
		for NSRP South section. The CP107 Contractor shall install train radio system on the Rolling Stock. The
		CP106 Contractor and CP NS-01 Contractor shall provide supervision for the first Train Radio System
		installation on- site. But Train Protection Radio system for MMSP, and through service section shall be
		supplied by the CP107 Contractor."
8.	Clause 17.9 TRAIN	Revise 1 st paragraph with the following:
	RADIO SYSTEM	
		The Train Radio System for the CP 107 Contractor's Rolling Stock shall be designed and supplied by the
		CP106 Contractor for the MMSP and CPNS-01 Contractor for NSRP South section. The CP107 Contractor
		shall install train radio system on the Rolling Stock. The CP106 Contractor and CPNS-01 Contractor shall
		provide supervision for the first Train Radio System installation on-site.
		The Train Radio System for the Rolling Stock shall be designed and supplied by the CP106 Contractor for
		the CP107 Contractor to install on the Rolling Stock. The CP106 Contractor shall provide supervision for

service section shall be supplied by the CP107 Contractor.

General Bid Bulletin No. 7

Annex "B"

9.	Clause 17.11 Train	Revise 1 st paragraph with the following:
	Protection Radio	
		"The radio system which is provided from CP106 <u>and CP NS-01</u> (and CP NS-02) Contractors shall include
		this <u>Train Protection Radio</u> function."