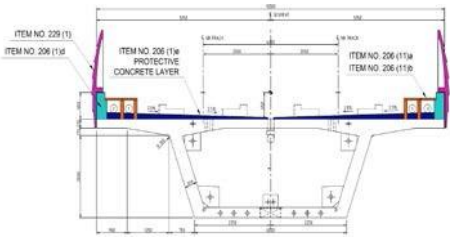


North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
<i>General</i>			
1		<p><u>Reference:</u> when ambient temperature is above 32 degrees, temperature of concrete should be 30degrees by using nitrogen injection method to cool down the concrete”</p> <p>In other colder countries, the required temperature control is from 32 degrees (North Vietnam) to 35°C (Japan). However, PH being a tropical country, has an average ambient temperature more than 35 degrees at Summer season. For Technical reason, we understand that temperature of concrete shall be controlled to avoid cracks, however, we think that 30 °C is a bit strict considering the natural climate of PH compared to other countries. May the bidder propose to relax the temperature control requirement to 35°C instead?</p>	The Technical Specifications shall be followed. Please refer to TS200 Clause 206.6.3.
2		Please advise for any Brand Preference for Electrical and Mechanical Equipment.	No, there is no brand preference for Electrical and mechanical Equipment. The Contractor shall submit its proposal to the Engineer for its approval.
3		Please provide the elevation of Cable Ladder and Cable trays from F.F.L. to bottom of trays?	Cable Ladder and Cable trays are not within the scope of the CP02 Contractor. However, necessary interface shall be done between other interfacing Contractors by CP02 Contractor.
4		Based on Revised National Plumbing Code of the Philippines double trapping is prohibited, do you accept double trapping for sanitary pipe in Kitchen sink by using both p-trap and grease trap?	The Contractor shall follow applicable requirements of codes/standards and applicable laws in the Philippines for the same and shall submit shop drawings to the Engineer prior to execution of works.
5		Do you require concrete pads for AC outdoor units?	Yes, concrete pads are required for A/C outdoor/condensing units.

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
6	DWG / BOQ, Miscellaneous Concrete for Superstructure	<p>Please clarify whether the understanding of the Bidder for Concrete of Superstructure work for each BQ pay item is correct.</p> 	Yes, the Bidder's understanding is correct.
7		Do you have specific brand for Plumbing Fixtures/Equipment. If yes, please provide list.	There is no preferred brand for plumbing fixtures and equipment. The Contractor shall submit its proposal with all the necessary documents to the Engineer for its review/approval prior to the commencement of the Works.
Volume IA, Part 1 – Bill of Quantities			
8	Section V, BILL OF QUANTITIES NO.3, Pages BOQ-38,55, and 73, Balagtas, Malolos, and Guiguinto Stations	Please clarify the height of Baseboard, Stainless Steel (TS NO. 506; ITEM NO. 506(46))	H=200mm.
9	Page BOQ-75, Reinforcing Bar Gr.60	<p><u>Reference:</u> <i>Reinforcing Steel, Grade 60 for Elevated Embankment</i></p> <p>Please clarify does this BOQ pay item includes the Rebar for GRS Retaining wall, Integral Bridge, Abutment and cable trench on top of embankment?</p>	Yes, the Bidder's understanding is correct. Please refer to BOQ preamble.
10	Page BOQ-76	<u>Reference:</u>	BOQ Item No. 122(1) shows the quantity for Drain

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
	VIA05-RR-0157, Drain Pipe	<i>Drain Pipe (200mm) and accessories for elevated section</i> There is a discrepancy of pipe size between BOQ (200mm) and Drawing (300mm). Please clarify which size to use.	Pipe(200mm) on viaduct, while BOQ Item No. 112(2) shows the quantity of Drain Pipe (300mm) on Embankment.
Volume II, Part 2 – Work Requirements			
11	CP02 Volume II	From the Cold water Isometric layout, the branch waterline are branched down and rise up before going to the fixture discharge point. Is there any required elevation between the finish floor line and the branched down waterline for each fixture?	There is no required elevation. Please refer to Typical Details for Plumbing/Sanitary Plans. The Contractor shall submit shop drawings to the Engineer prior to the execution of works.
12	CP02 Volume II	Do you have preferred brand for the Waste water treatment tank?	There is no preferred brand for waste water treatment tank. The Contractor shall submit the necessary documents/product information for Engineer's approval prior to execution of works as per GS 100 Clause 120.4.3.
TS 200			
13	Page TS200-95, Table 25.2-2	<u>Reference:</u> <i>Examples of Eligible Geotextiles</i> Can the Employer accept manufacturer other than the one listed in the table but exhibits the same strength but fabricated outside Japan?	It is understood that the Bidder is referring to Table 205.2-2, Examples of Eligible Geotextiles. TS 200 Clause 205.2.2 clearly states that this table lists examples of eligible material. Hence, any proposal for other manufacturer by the Contractor shall be submitted to the Engineer for its review/approval prior to the commencement of the Works along with complete documentations considering the relevant clauses in the Technical Specifications, relevant drawings in the Bidding Documents as well as all other applicable requirements of codes/standards and applicable laws in the Philippines.
14	Page TS200-100 / 113, Wrapping Geotextile layer around Gabions	<u>Reference:</u> <i>Measurement of payment for Geotextiles</i> The Specification is silent against measurement for installed Geotextile. Kindly advise, does the overlapped portion as	Payment of geotextile shall be measured by area (m ²) calculated with the required width, length of the embankment where geotextiles are laid. Overlapped length, wrapped around and folded back length of

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
		provided in the specification, including the wrapped around and folded back length included in the calculation of area installed?	the geotextile material as required in the Specifications shall not be paid for.
15	Page TS200-179, Method of Measurement	<p><u>Reference:</u> <i>"The number of precast concrete members of each type listed in the Contract Documents will be the number of acceptable members of each type furnished and installed in the work"</i></p> <p>May the bidder understand that according to the Bidding Document payments for precast segment shall be paid 100% after Erection, and Stressed at Site.</p> <p>However, since the segment fabrication will be done few (4) months prior to installation, the project cash flow of the Contractor will suffer. Can the Employer accept that a portion of payment shall be made to the Contractor upon confirmation of Concrete strength after fabrication, and the remaining payment shall be made after erection, stressing and grouting at site. (Proposed 80% Fab:20% Install)</p>	No, the items of the BOQ will remain. However, the Employer may give this matter further consideration during contract negotiations with the successful Bidder.
16	Page TS200-117, Concrete Strength Table Page BOQ-15	<p><u>Reference:</u> <i>Blinding Concrete C15</i></p> <p>In the Specification the class of Lean concrete was mentioned to be Class C15. However, in the BOQ, the class of Lean Concrete is C20.</p> <p>Kindly advise which class of concrete should we apply for Lean Concrete for Civil Works?</p>	20 Mpa shall be used for Viaduct & Bridges and 15 Mpa for all other concrete works as specified in the TS 200. Clause 206.17, payment item number 206 (10)a to 206 (10)e Also, please refer to General Conditions (GC) Clause 1.5 for priority of documents.
17	Page BOQ-14,	We have assumed that the quantity for Balance Cantilever	Yes, the Bidder's understanding 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
	Structural Concrete 50 Mpa for Pier Head	Pier Head is included in the BOQ Pay Item 206(2)a. Kindly confirm if our understanding is correct.	
TS700			
18	Section VI and CP02-Volume II, General, Automatic Fire Alarm System / Emergency Public Address Detail Design	May we know what type of FDAS should be used, Conventional or Addressable?	Please consider the addressable type of Fire Alarm Panel. Please refer to TS 700 clause 710.
19	Section VI, Page TS 700-19 , TS-700-231, Itemized Breakdown for Lump Sum	Is it possible to use other type of conduits for Lighting and Power circuits other than PVC conduits? (Based on conduits list shown on itemized breakdown)	Yes, it is possible to use conduit other than PVC.
20	Section VI, Page TS 700-36 to 128, Itemized Breakdown for Lump Sum	Is it possible to add or insert new items on the bill of quantity?	No, the item is in lump sum.
21	Section VI, TS 700-112	Is the Pendant type (suspended) Smart bay 200W lighting fixture the same with the Pendant type (suspended) 200W LED light?	It is a 200W LED Light High Bay.
22	Section VI, Page TS 700-121 to 128, Itemized Breakdown for Lump Sum	Some circuit breaker ratings are different from the itemized breakdown description and load schedule, Please advise which one to follow.	Please refer to TS 700, Clause 706 and 714.1.2
23	Section VI, Page TS 700-121 to 129, 701.2.2 Conduit, 707.2.1 Conduit	Is it allowed to use (RSC) Galvanized Rigid Steel Conduit and (IMC) Intermediate Metal Conduit in indoor and outdoor installation or can you give us your requirement regarding the use of this type of conduits?	Yes, it is allowed to use RSC and IMC in indoor and outdoor installations.

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
	Fittings		
24	Section VI, General, Itemized Breakdown for Lump Sum	The wire type used on drawings are THWN while the itemized breakdown and other drawings were THHN, Please advise which type will be used.	Please refer to TS 700. Also, please refer to GC Clause 1.5 for priority of documents.
25	Section VI, Page TS 700-200, Wire and Cables	<u>Reference:</u> 3. Conductor Type a. Size 3.5mm ² and Smaller Solid conductor. B.5.5mm ² and Larger : Class B stranded 3.5mm ² THHN Solid is hard to install due to conduit bends and boxes, Is it possible to use stranded wires?	Please refer to TS 700, Clause 703.3.1.
Drawings			
Book 1 of 3			
26	Book 1 of 3,Page CP02-B1-182, Drawing No. VIA00-ST-1302, OCS Pole Cantilever Slab Cantilever Reinforcement Concrete Details, OCS Pole Cantilever	Kindly advise to which pay item does the Foundation Concrete and rebar for OCS Pole be included?	Yes, these items are included in Structure Concrete, 50Mpa for Cast-in-situ on Falseworks. Pay Item Number 206(2)c.
27	Book 1 of 3 ,Page CP02-B1-187, Drawing No.VIA00-ST-1500, Deck Widening Summary, Deck Widening	Kindly advise to which pay item does the Foundation Concrete and rebar for Deck widening be included?	These shall be referred to Payment Item Numbers 206(2)c, 206(3)a to 206(3)c and 207(1)e.
28	Book 1 of 3 ,Page CP02-B1-360, Drawing No. VIA00-	May we understood that Concrete including reinforcement for RC Pipes and beddings are included in the relevant pay items (BOQ 109 (2~4))?	Yes, the Bidder's understanding 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
	DR-1001, At-Grade Mainline Drainage-RCPC Details, RCPC		
29	Book 1 of 3 ,Page CP02-B1-368, Drawing No.VIA00-DR-1016, At-Grade Mainline Drainage-Outfall Detail-Type 4, Drainage Outfall	May the bidder understood that concrete for Endwall, Backwall and Apron are included in Pay Item Drainage 206(5) Structural Concrete 28 MPa, Mainline Drainage Channel? For rebar, please advise to which pay item it should be included?	For concrete for Endwall, Backwall and Apron, the Bidder's understanding is correct. Please also refer to BOQ Preamble. For rebar, payment item number shall be 207(3)a for Grade 40 or 207(3)b for Grade 60, as applicable.
30	Book 1 of 3, Page CP02-B1-385, Drawing No. VIA07-DR-2202, At-Grade Mainline Drainage Malolos Area Manhole Details-Sheet 1, Steel Grating Cover	Kindly confirm from which Pier to Pier does the Steel Grating Cover is applicable for both Grated Inlet Manhole and Grated Inlet Maintenance Access.	Please also refer to the schedule of manholes as shown in Section VI, 3 Drawings, Book 1 of 3, Pages CP02-B1-372, CP02-B1-376, CP02-B1-378, CP02-B1-379, CP02-B1-381 and CP02-B1-382.
31	Book 1 of 3, Page CP02-B1-408, Drawing No. VIA05-RR-0101, Viaduct 05 - Bocaue Embankment Section GRS Abutment Sheet 1 Of 4, Seismic Restrainer	Please advise to which package does the seismic restrainer for KM 20+740.306 be included.	This shall be within the Scope of Works of the CP02 Contractor.
32	Book 2 of 3, Page	There are conflicts on number of poles shown on Distribution	Please refer to Section VI, 3 Drawings, Book 2 of 3, Page

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
	CP02-B2-168, 181	Board Schematic for Panel LPC-13, LPC-14, LPC-15, LPC-16, LPC-24, LPC-25, LPC-17 compared to Riser Diagram. Please confirm which one is correct.	CP02-B2-168 for the number of poles.
33	Book 2 of 3, Page CP02-B2-170, 168	Based on Equipment Layout Panel LPC 11 and LPC 12 is located at Distribution Board Room but on Riser Diagram it is located at Electrical Station Room. Please confirm the location.	Please refer to Section VI, 3 Drawings, Book 2 of 3, Page CP02-B2-170.
34	Book 2 of 3, Page CP02-B2-176~181	Please provide Distribution Board Schematic for Panel LPC-10, LPC-23, LPC-03, LPC-,04, LPC-05, 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 other panels, please refer to Section VI, 3 Drawings, Book 2 of 3, Pages CP02-B2-180 and CP02-B2-181
35	Book 2 of 3, Page CP02-B2-176 CP02-B2-430 CP02-B2-701, Detailed Design	<u>Reference:</u> <i>Signage's Power Supply</i> Power supply for Signage's are shown on Electrical Lighting Distribution Board Schematic Diagram but there are no drawing showing the circuit layout, please provide circuit layout.	The Contractor shall submit the shop drawings and propose the circuit route for approval of the Engineer.
36	Book 2 of 3, Page CP02-B2-181	LPC-26 Panel was shown on Distribution Board Schedule and Equipment Layout but not shown in Single Line and Riser Diagram, kindly confirm which one is correct.	LPC-26 shall be connected to MDB-04, Ckt. #6.
37	Book 2 of 3, Page CP02-B2-182~184	Please provide Load Schedule for Panel LPC 11 to LPC 21, LPC 24, LPC 25 and LPC-03 to 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 other panels, please refer to Section VI, 3 Drawings, Book 2 of 3, Pages CP02-B2-180 and CP02-B2-181
38	Book 2 of 3, Page CP02-B2-185 and 186	Different Branch circuit for stairs are reflected on concourse level and upper concourse level. Please advise which one to follow.	Please refer to Section VI, 3 Drawings, Book 2 of 3, Pages CP02-B2-185 and CP02-B2-186.
39	Book 2 of 3, Pages	Branch Panel and Circuit no. of Convenience Outlets at	Connect the C.O. at platform Level to Ckts. 9 and 10 of Panel

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
	CP02-B2-185 and 187	Platform Level is not indicated. Please provide information.	PPC-01.
40	Book 2 of 3, Pages CP02-B2-196, 451 and 722, Detailed Design	<p><u>Reference:</u> <i>Electrical BMS System Design</i></p> <ol style="list-style-type: none"> 1. Please provide details of I/O points to be monitored. 2. Electronic Security Access System - What information to be monitored by BMS? 3. CCTV Monitoring 1-5 - What information to be monitored by BMS? 4. Lighting System - What is meant by 10% / 50% / 100%? 5. LCD Display (Big Screen) - What system needed to be shown on this Screen. i.e. CCTV, Security, A/C Monitoring, etc. 	Considering BMS Diagram, the Contractor shall submit shop drawings for the details for approval of the Engineer.
41	Book 2 of 3, CP02-B2	Circuit homerun for Convenience Outlet at Concourse Level (along GL 13~14') indicates PPP panel but PPP Panel does not shown in other drawings like SLD and Riser Diagram. Please provide information.	Change the panel to PPC-01 and use ckt no. 15.
42	Book 2 of 3, Pages CP02-B2-422 AND 435	There are conflict regarding the Circuit Breaker number of Poles shown on drawings. Please advise which drawing to follow.	Please refer to Section VI, 3 Drawings, Book 2 of 3, Page CP02-B2-422.
43	Book 2 of 3, Pages CP02-B2-436 to 438	Please confirm Circuit Breaker Ampere Frames rating shown on drawings. (i.e. 20AT 1000AF for Panel MDB-03 Ckt. No. 13).	Consider 100AF.
44	Book 2 of 3, Page CP02-B2-442	<ol style="list-style-type: none"> 1. Electrical Exit Signs reflected in NSCR-DWG-GUI-EL-5157 is different from Architectural Signage Plan (NSCR-DWG-GUI-AR-3241) for Concourse and Platform level. Please confirm. 2. Can you provide Electrical Exit Sign Fixture Installation 	The Contractor shall submit the shop drawings for installation details for approval of the Engineer.

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
		Detail and layout for Ground Level?	
45	Book 2 of 3, Page CP02-B2-442	Please provide location of Lighting Switches at Platform Level Lightings	Please refer Section VI, 3 Drawings, Book 2 of 3, Page CP02-B2-432, Drawing NSCR-DWG-GUI-EL-5127.
46	Book 2 of 3, Page CP02-B2-490	Please provide pipe sizes for piping of fire hose system.	The Contractor shall submit shop drawings along with its own pipe size design layout according to the fire water schematic layout on the drawings to the Engineer for its review/approval prior to the commencement of the Works as per GS 100 Clause 120.4.3.
47	Book 2 of 3, General, Page CP02-B2-723	<u>Reference:</u> <i>General Notes No. 28</i> It is mentioned that fire protection damper should be installed on Fire Rated Walls, please provide drawings showing the locations of fire rated walls.	Please refer to the Technical Specifications. The Contractor shall submit its proposal together with the necessary documents to the Engineer for its review/approval prior to the commencement of the Works as per GS 100 Clause 120.4.3.
48	Book 2 of 3, Page CP02-B2-723	<u>Reference:</u> <i>General Notes No. 19</i> It is required that all exposed parts of refrigerant pipe and drain pipe should be with cladding. Please provide information on what kind of cladding material to be used. Is it SUS, GI or Aluminum?	The pipe cladding material used for exposed A/C pipes is generally Aluminum sheet.
49	Book 2 of 3, Page CP02-B2-723	<u>Reference:</u> <i>General Notes No. 5</i> Please provide System diagram and point listing for BMS System.	Please refer to the relevant drawings and the relevant clauses in the Technical Specifications in the Bidding Documents.
50	Book 2 of 3, Page CP02-B2-723	<u>Reference:</u> <i>General Notes No. 5</i> Duplex ventilation equipment is mentioned in General Notes.	Please refer to the Bidding Documents and the Technical Specifications. The Contractor shall submit its proposal together with the

North – South Commuter Railway (NSCR) Project (Malolos – Tutuban) Package CP02: Elevated Structures and 3 Stations			
ITEM NO.	REFERENCE CLAUSE/ SECTION	CLARIFICATION REQUEST	RESPONSE
		Does it switch automatically or manually? Re exhaust fan, does it turn on/off by pushing a button on a MCC panel, or temperature sensor?	necessary documents to the Engineer for its review/approval prior to the commencement of the Works as per GS 100 Clause 120.4.3.
51	Book 2 of 3, Page CP02-B2-725	"Weather cover, By Mechanical Contractor" is mentioned in outside Air Grille/Louver detail. Is the material SUS?	The weather cover hood material on the detail is G.I. sheet not SUS.
52	Book 2 of 3, Page CP02-B2-732	Precision Aircon Units is mentioned in Notes in drawing 5631. Is the air conditioning unit standard type?	Please refer to TS 600, Section 611.
53	Book 2 of 3, Page CP02-B2-732	Precision Aircon Units is mentioned in Notes in drawing 5631. Is the air conditioning unit standard type? "Provide Shut-off Damper on all Intake and Exhaust Louver" was mentioned in Notes in drawing 5631. Is it manual Volume Damper?	All intake and exhaust louvers shall be provided with fire dampers. Manual shut-off dampers shall also be provided. These may be similar to manual volume dampers.
54	Book 2 of 3, Page CP02-B2-743	Is earthquake resistance standard 1.0G for Domestic Water Tank?	The Contractor shall submit its proposal along with the necessary documents from the supplier to the Engineer for its review/approval prior to commencement of the Works.
55	Book 2 of 3, Page CP02-B2-743	It is described that Domestic Water Tank specs is Glass Reinforced Polyester in the Equipment Schedule, is it Fiber-Reinforced Plastics (FRP)?	These two terms are the same. Please refer to the relevant clauses in the General Specifications and the Technical Specifications in the Bidding Documents.
Book 3 of 3			
56	Book 3 of 3, Pages CP02-B3-041 CP02-B3-047 CP02-B3-105 CP02-B3-111 Book 3 of 3, Pages CP02-B3-170 CP02-B3-176 CP02-B2-161 CP02-B2-185-188 CP02-B2-439-444 CP03- B2-415 CP02-B2-685 CP02-	There are discrepancies in the rating of lighting fixture, emergency lights and exit lights. Please advise which one to follow and kindly provide a clear image/drawing of lighting fixture.	Please refer to Section VI, 3 Drawings, Book 3 of 3, Page CP02-B3-047. The Contractor shall submit the details of the fixtures/shop drawings to the Engineer for approval prior to the 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
	B2 709-714, Detailed Design		
57	Book 3 of 3, Page CP02-B3-109, Detailed Design	<p><u>Reference:</u> To AC low Voltage Panel in TSS</p> <p>Please provide information regarding the tapping point of Panel LPC-01. Is it out of contractors scope of works?</p>	Please refer to Section VI, 3 Drawings, Book 3 of 3, Page CP02-B3-111, Drawing no. NSCR-DWG-MTS8-EL-5152 for the location of AC Low Voltage Panel.
Volume IV, Part 3 – Conditions of Contract & Contract Forms			
58	Section VIII. Page PC-18, Appendix 1 (3)(iii)	Bidder would like to clarify if a Subsidiary Company (even if whose financial statements are required to be included in a consolidated financial statement of the Japanese Mother Company) can be recognize as a Philippine Company.	<p>Section VIII,Appendix 1 (3)(iii) stipulates the conditions under which a juridical person incorporated in a country or area other than Japan can be regarded as a Japanese Company including that for a subsidiary company.</p> <p>Therefore, the Bidder’s question does not seem to be appropriate in this context.</p> <p>Also, please refer to the Operational Rules for Special Terms for Economic Partnership (STEP) of Japanese ODA Loans, published in February 2017, Articles 5 (1)(c) and associated footnotes 8 and 9.</p>