

Public Bidding No.: 19-041-4

Malolos-Clark Railway Project for Packages CP N-01, CP N-02 & CP N-03; Construction of Civil Structures: Viaducts, Bridges and Five Stations

Bid Clarification Requests for General Bid Bulletin No. 7

No.	Packages	Volume	Page No.	Clause No./Title	Clarification	Final Response
1	General	Volume 2 Section 6 The Employer's Requirements (ERO)		Requirements of Equipment	ER 38 is there any minimum requirement quantity of equipment	<i>The Contractor shall propose all appropriate equipment necessary to carry out the works in accordance with the Initial Schedule.</i>
2	CP N-01 CP N-02 CP N-03	Volume 2 Section 6 The Employer's Requirements (ERQ)		TS 204.5.2.3 & 204.5.2.5	With regard to the referenced clauses above, it is understood that the temporary casing is considered as a temporary work for which the Contractor shall design and price them under the "Bored Pile" item to be measured with linear meter in the BOQ, whilst the permanent casing is a permanent work for which the Client shall design on it, if required. 1) Please confirm if our understanding is correct. 2) If our understanding is correct, please provide us with the drawings and the revised BOQ including the permanent casing.	<i>There are NO permanent casings required.</i> <i>Where the contractor deems necessary to provide temporary steel casings, then the cost of these casings shall be deemed to be included in the rate of the bored pile per linear meter.</i>
3	CP N-02	Volume 2 Section 6 The Employer's Requirements (ERQ)		MCRP-DWG-VIA02-RD-2007	With regard to the embankment to be built to provide a platform for the Maintenance Road safe from flooding, it couldn't find out any geotechnical improvement works for settlement, slope stability and bearing capacity to the embankment. In this regard, please advise the followings; 1) if the design of geotechnical improvement works is a part of the Contractor's scope or the Client's scope. Accordingly, please furnish us with the design criteria or the revised documents including drawings and specifications. 2) Also, please advise which BOQ item it is priced for, and also provide the revised BOQ if required so.	<i>Please refer to revised drawings (VIA01 and VIA 02 series) and typical cross sections. There is no requirement for Contractor to design the embankment - relevant details are shown on the revised drawings. Issued under GBB No.6.</i>
4	General	Volume 1A Section 4A Bidding Forms - Bill of Quantities (BoQ)		BOQ No.3, Viaduct and Bridges, Part B,1 Sub-Structural Works (Foundation Works), Static Load Tests (SLT)	The quantity of the SLT is given with 3 ea in the BOQ for each package. Please advise if there is a tension static load tests to be conducted out of 3 tests. If so, please confirm the quantity and testing criteria.	<i>Please refer to revised drawings under GBB No.6 - there are 11 test piles per package. There are NO tension or lateral pile tests required.</i>
5	General	Volume 2 Section 6 The Employer's Requirements (ERO)		TS 204.5.1.1, Test Piles	It couldn't find out this item in the BOQ. Please clarify.	<i>Please refer to revised BoQ under GBB No.6</i>

6	CP N-01	Volume 2 Section 6 The Employer's Requirements (ERO)		TS 401.2.6.2, Static (Routine) Load Test	It is mentioned in the specification that the minimum number of tests to be conducted shall be 2% of all piles, whilst the item is not found in the Bill No.4 and 6 in the BOQ. Please clarify.	<i>Please refer to revised BoQ and TS 204 issued under GBB No. 6</i>
7	CP N-01 CP N-02 CP N-03	Volume 2 Section 6 The Employer's Requirements (ERO)			Please provide elevation profile of the maintenance road along CP N-01, CP N-02, CP N-03.	<i>Please refer revised Drawings issued under GBB No. 6</i>
8	CP N-01 CP N-03	Volume 2 Section 6 The Employer's Requirements (ERQ)			The level of the maintenance road is same with the existing ground level on the drawing. However, in some area, the flood level is higher than the existing ground level. For example, the existing ground level is about 2.0~3.0m although the flood level is 4.160m on the MCRP-DWG-VIA01-ST0029. (1) Please clarify the maintenance road can be submerged in the season of flood. (2) Please specify the design flood frequency on the drawings. (3) Please kindly provide the flood level or design flood frequency that should be applied during construction period.	<i>1) The maintenance road may be flooded in Rainy Season. 2) There is no criteria for flood protection of the maintenance road. 3) The contractor shall make his own assessment what to design for his temporary access roads to be used during construction</i>
9	CP N-03	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA03-ST-0043	Kindly confirm that the existing Lift Station located on the P. 1109 shall be demolished by others. (See Utility Survey Report drawing, MCRP-DWG-REL-UT-0200)	<i>The existing Lift Station is a sewage storage tank. Therefore it cannot be relocated. Proposed Pier is around 1.0m away from the Tank.</i>
10	CP N-03	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA03-ST-0029	The pier location of SIG/COM(ANGELES) is different with the details in the MCRP-DWG-ANG-AR-3703. Please kindly clarify this.	<i>Please refer to the revised Drawings issued under GBB No. 6</i>
11	CP N-03	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA03-ST-0035	SUBSTATION SS20 is different with the details in the MCRP-DWG-PSS-ME-3102. Please kindly clarify this.	<i>Please refer to the revised Drawings issued under GBB No. 6</i>
12	CP N-01 CP N-02 CP N-03			Site Data- 02 Topo survey report	Please provide AutoCAD files.	<i>CAD Files already provided under GBB No. 6</i>
13	CP N-03	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA03-ST-0202	Please clarify the width and height of the new river, the exact start and end station of river training, slope of river bank, and the location of sheet-pile, if applied.	<i>Please Refer Drawing No. MCRP-DWG-VIA-RIV-4001-4031; Issued under GBB No. 6</i>

14	CP N-02	Volume 2 Section 6 The Employer's Requirements (ERQ)		MCRP-DWG-VIA01-RD-2006	The level of the maintenance road is same with the existing ground level on the drawing. However, in some area, the flood level is higher than the existing ground level. For example, the existing ground level is about 2.0~3.0m although the flood level is 4.160m on the MCRP-DWG-VIA01-ST0029. (1) Please clarify the maintenance road can be submerged in the season of flood. (2) Please specify the design flood frequency on the drawings. (3) Please kindly provide the flood level or design flood frequency that should be applied during construction period.	<i>1) The maintenance road may be flooded in Rainy Season. 2) There is no criteria for flood protection of the maintenance road. 3) The contractor shall make his own assessment what to design for his temporary access roads to be used during construction</i>
15	CP N-01 CP N-02 CP N-03	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA01-DR-0011, VIA-02 - DR-0059, VIA03-DR-0104	It is requested to clarify the meaning of FGE	<i>FGE - Finished Ground Elevation</i>
16	General	Volume 2 Section 6 The Employer's Requirements (ERQ)		TS 103.2 Material Requirements	Suitable Material – Material which is acceptable in accordance with the Contract and which can be compacted in the manner specified in this section. It can be common material or rock. Please let us know whether materials except unsuitable material are the suitable material.	<i>The definition of Suitable and Unsuitable Materials is clearly defined in the TS.</i>
17	CP N-01	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA03-ST-0102	The pier schedule on this drawing belongs to VIA01, not VIA03. Please provide the revised drawing.	<i>Please refer to the revised Drawings issued under GBB No. 6</i>
18	CP N-01	Volume 2 Section 6 The Employer's Requirements (ERO)		MCRP-DWG-VIA01-ST-0018, 0019	The layout of SUBSTATION SS10 in the drawings are different with the detailed drawing, MCRP-DWG-C/M-AR-3031. Please kindly clarify this.	<i>Please refer to the revised Drawings issued under GBB No. 6</i>
19	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, The Specifications		MCRP-DWG-VIA00-ST-0701	Please provide the dimension of Gabion mattress	<i>Please refer to GBB No. 6.</i>
20	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, The Specifications		TS200-61 MCRP-DWG-VIA02-ST-0101~	The load test shall be conducted for not less than 2.0 times the design Service Limit State Load or 1.0 times Seismic Load shown on the drawings, as directed by the Engineer No details regarding service load, seismic load and ultimate load to estimate the static load test.	<i>The requirements for the load tests including number of piles and test loads were specified in the TS 204 Specification. Please refer to GBB No. 6.</i>

21	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, The Specifications	TS200-62		<p>TS200-62 The number of load tests shall be provided in the Bill of Quantities as determined by the Engineer</p> <p>in DWG-BR111-ST0041 PILE TEST NOTES 10. NO. OF STATIC LOAD TESTS = 2 NOS.</p> <p>The quantity of the pile test in the drawing is more than the number of load test provided in the Bill of Quantities.</p> <p>Please clarify which one is correct.</p>	<i>The BoQ and relevant drawings has been revised and published under GBB No. 6.</i>
22	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, The Specifications	Balanced Cantilever Bridge	Balanced Cantilever Pile Layout	<p>TS200-62 When specified, tension static load tests shall be conducted in accordance with ASTM D3689. When specified, lateral load tests shall be conducted in accordance with ASTM D3966.</p> <p>Types of static load test which will be performed are not designated.</p> <p>Please clarify which types of static load test, should be carried out.</p>	<i>The requirements for the load tests including number of piles is specified in the TS 204 Specification and published under GBB No. 6. NO Lateral Load test are required</i>
23	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, The Specifications	TS200-76		<p>204.5.1.2 Geotechnical Works (Boring Tests)</p> <p>Please provide the specification of ground investigation for the Contractor to know the test item and frequency</p>	<i>These requirements are clearly stated in the revised TS 204 Specification published under GBB No. 6.</i>

24	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, Drawing	Balanced Cantilever Bridge	Balanced Cantilever Pile Layout	<p>GENERAL NOTES</p> <p>5. SHOULD ACTUAL SUBSURFACE CONDITIONS VARY FROM THE DESIGN PROFILE, THE SOCKET REQUIREMENTS SHALL BE RE-EVALUATED BY THE DESIGNER</p> <p>1. It is understood that the Contractor is required to do ground investigation (Boring Test), and then the Designer will re-evaluate according to the ground investigation result. Please clarify the detailed process and period for the Designer to complete the re-evaluation.</p> <p>2. During the drilling process, if the soil strata is different to the expectation, The Engineer will decide immediately at the site?</p>	<p><i>The Contractor will do initial boreholes as part of Geotechnical Investigation Works; He will submit revised geotechnical SPT>50 line and borehole logs and all necessary field and lab tests reports. ; Engineer will review and advise if pile lengths need to be Changed or NOT as soon as possible.</i></p>
25	CP N-01, CP N-02, CP N-03	Volume 2, Section 6, Part II, Drawing		Balanced Cantilever Pile Layout	<p>Pile Test</p> <p>If the pile test result of static load test and PDA is shown to be failed, please clarify the next action, such as the re-testing of the other piles, re-installation of the piles and any other actions. Who will endure the cost?</p>	<p><i>Pile Test</i></p> <p><i>If the pile test result is shown to be failed, one of the following apply:</i></p> <p><i>a) If the pile has been constructed and tested in accordance with the Specification and as approved by the Engineer, then if the pile test fails, the cost for any remedial works or replacement of pile shall be paid by the Employer;</i></p> <p><i>b) If the pile has NOT been constructed and tested in accordance with the Specification and NOT approved by the Engineer at all preceding stages of construction, then if the pile test fails, the cost for any remedial works or replacement of pile shall be paid by the Contractor</i></p>
26	CP N-01, N-02, N-03	Volume 2, Section 6, Part II, Drawing	MCRP-DWG-CIS40-ST-0013		<p>(a) Please clarify if the protective concrete layer is undertaken by Civil contractor.</p> <p>(b) If it pertains to Civil contractor work scope, please advise if the pouring schedule of concrete should be coordinated with Track slab contractor.</p>	<p><i>(a) The protective concrete layer is part of the Civil Works Contractor - he has to coordinate with the Track works Contractor. This is shown on the Drawing VIA00-ST-62 and 64 as well as the precast segment drawings.</i></p> <p><i>(b)The spacing and size of the track slab has to be coordinated with the Track Slab Contractor</i></p>

27	CP N-01, N-02, N-03	Volume 2, Section 6, Part II, The Specifications	TS200-60	204.2.7/ Test Piles	<p>Test piles which are shown on the drawings or specified in the contract or installed by the Contractor on his own to determine the lengths of piles to be furnished, shall conform to the requirements for piling as indicated in these Specifications. Test piles which are used to arrive at the load carrying capacity shall not be incorporated in the structure.</p> <p>The test piles are not seen on the drawing and BOQ that the Client provided.</p> <p>Please clarify the following :</p> <ol style="list-style-type: none"> 1. Is the static load test in the BOQ for test piles or working piles? 2. If the contractor on his own has to install the test pile, shall the contractor determine the lengths of piles? The length of piles shall be determined by the Engineer. 3. Although the Contractor conform to the requirement for piling as indicated in the specifications, if the test pile fail, whose responsibility is the additional installation of test pile and extended construction schedule? 	<p>Please refer to the revised TS 200 published under GBB No. 6.</p> <p>a) 11 Test piles are required which are static test loaded. They are NOT permanent piles and are not incorporated into the works. The length of these test piles and diameters will be directed by the Engineer. Note that the Engineer, may at his discretion, require additional working piles to be static load tested and these will be paid at the rates in the BoQ.</p> <p>b) Based on these static load tests and the boreholes carried out at every pier (Geotechnical Investigation Works), the Engineer shall review the pile lengths and advise revised pile lengths if necessary</p> <p>c) If the Engineer has directed the location, size and length of the test pile AND the test pile conforms to the Specification in all respects, then additional test pile and associated costs will be paid by the Employer</p>
28	CP N-01, N-02, N-03	Volume 2, Section 6, Part II, The Drawings			<p>Working test pile selected by the S.O shall be tested to two(2) times working load. High strain PDA shall be carried out on these piles to correlate against the static load test results.</p> <p>7.i) The piles subjected to static load tests shall be deemed to have failed if :</p> <ol style="list-style-type: none"> a) the maximum settlement at working load(WL) exceed 12mm b) The maximum settlement at 2.0 x WL exceeds 10% pile diameter or 38mm whichever is lesser <ol style="list-style-type: none"> 1. Please clarify, is working test pile for the test pile or working pile. If working test pile means working pile, the two times working load could damage the pile because the applied load is almost maximum capacity of the pile. 2. Please separately provide the static load test criteria for test pile and working pile. The static load test criteria has to include maximum load, definition of fail , loading method and etc., 3. Please clarify if test pile is accepted by engineer although the settlement of pile toe exceeds 12mm, shall the Contractor meet the settlement below 12mm for working 	<p>Please refer to the revised TS 200 and TS400 published under GBB No. 6 and also the revised pile notes drawing. Piles are to be tested to 1.0 x seismic load.</p> <p>Static load tests are to be carried out on the test piles - these are NOT working piles</p> <p>High Strain Intensity tests and other tests will be carried out on WORKING piles to the numbers specified in the revised TS 200.</p> <p>Revised settlement Criteria is provided on the revised Pile Notes Drawing (VIA00) set of Drawings published under GBB No. 6.</p>

29	CP N-01, N-02, N-03	Volume 2, Section 6, Part II, The Specifications	TS200-62	204.2.7.1/ Initial Load Test	<p>If the load test gives a capacity greater than 25 percent of the capacity calculated by static formula and if it is desired to take benefit of the higher capacity, another two load tests shall be carried out to confirm the earlier value and minimum of the three shall be considered.</p> <p>1. Please clarify what is the initial load test. 2. If the load test gives a capacity greater than 25 percent of the capacity calculated by static formula, whose responsibility are another two load tests and extended construction schedule?</p>	<p>1) At the start of the project, the Engineer will direct the Contractor to construct the 11 test piles at such locations and to dimensions which he directs. These piles are then static load tested to the test load provided by the Engineer.</p> <p>2) If the pile load tests show that the pile has a greater capacity, and the Engineer determines that the Employer wished to take benefit of the higher capacity, then the costs and time implications of the additional pile tests will be paid by the Employer.</p>
30	CP N-01, N-02, N-03	Volume 2, Section 6, Part II, The Specifications	TS200-61	204.2.7/ Test Piles	<p>The load test shall be conducted for not less than $2.0 \times$ times the design Service Limit State load or $1.0 \times$ Seismic Load shown on the drawings, as directed by the Engineer.</p> <p>Please clarify which one is correct between TS 200 and TS 400 for the test load. TS 200 204.2.7 mentions the test load is $2.0 \times$ times the design Service Limit, but TS400 401.2.6 mentions $1.5 \times$ times the design Service Limit State load.</p>	Please refer to the revised TS 200 and TS 400 published under GBB No. 6.
31	CP N-01, N-02, N-03	Volume 2, Section 6, Part II, The Specifications	TS200-77	204.5.2.2/Geotechnical Works (Boring Test)	<p>Geotechnical Works (Boring Tests) carried out at the direction of the Engineer shall be paid number of boring test carried out and approved by the Engineer.</p> <p>Please provide the elevation of boring tests to be finished by the Contractor. (For example, From SPT N > 50 additional 3m for sand, or from SPT N > 30 additional 3m)</p>	Please refer to the revised TS 200 and TS 400 published under GBB No. 6.
32	CP N-02	Volume 2		Section 6 Part II - Drawings MCRP-DWG-VIA02-RD-2007	<p>With regard to the Embankment to be made for Swampy Area (H=3.0M), which would be a huge volume of works, please advise which BOQ item this can be priced for.</p>	Pls refer to revised Plan and Profile Drawings (VIA01 and VIA02) Series and revised RD series under GBB No. 6. The "embankment" works are actually re-grading of the existing embankment and where required (gabion mattress protection to the side slopes) - typical sections are shown in the various sets. Relevant quantities have been incorporated into the revised BoQ.