General Bid Bulletin No. 25
28 May 2021

IFB NO. 20-031-6

SOUTH COMMUTER RAILWAY PROJECT
FOR PACKAGES CP S-04, CP S-05, CP S-06 AND CP S-07
CONSTRUCTION OF CIVIL STRUCTURES: VIADUCTS, BRIDGES,
NINE (9) STATIONS AND DEPOT

TO ALL PROSPECTIVE BIDDERS:

This General Bid Bulletin is issued to amend/clarify certain provisions in the Bidding Documents for the abovementioned project. Please refer to the attached Annex A of this General Bid Bulletin duly approved by the End-user and Co-Implementer for details:

1. **Annex "A"** – CP S-04 to 07 Responses to Clarifications Requests (Batch 15)
2. **Annex "B"** – CP S-04 to 07 Responses to Clarifications Requests (Batch 16)

For your information and guidance.

For the Bids and Awards Committee VI,

SIGNATURE REDACTED

WEBSTER M. LAUREÑANA
Chairperson

ANNEX "A"

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06	1	Section 4 Bidding Forms	BF 44			According to this section, the Bidder has to submit BIM Implementation Plan with CMMS. Please provide detail requirements of CMMS.	***Bidders to refer to the Appendix 15 BIM Information Management Flow and Appendix 17 Info Mgt Plan for the CMMS Requirements.***
S-07			441	Site Data 10.17 Depot Design Report (S-07)/ c) Consolidation Assessment		According to Estimated Maximum Settlement shown on Table 8.1.3-10 of Depot Design Report, Immediate settlement and Consolidation Settlement would be incurred for 67 to 371mm and 27 to 335mm respectively after finishing embankment. And estimated total settlement would be 176 to 449mm for each section, which should be within allowable settlement for ballasted tracks - i.e. less than 500mm. Please clarify allowable settlement for Road and other area, if necessary. And also, please identify the method how to measure the Quantity of filling for Settlement Compensation for payment under the condition there would be no settlement monitoring devices scheduled to be installed based on Tender Drawings."	***It is Contractor's responsibility and pricing exercise to ensure the price can cater for such expected ground settlement. Please also note that a new provisional sum item (PS-12 Ground Improvement Works) has been included in Addendum 3.***
S-06	2	Section 6	GS 98	131.4 Safety Consideration	The safety hoardings shall be located a minimum of 2.000m to the face or any component of the fence on the PNR side from the nearest rail of the adjacent PNR railway track to leave at least 800mm clearance inside the PNR zone for personnel safety purposes.	In case that the safety hoarding is installed with compliance to GS131.4, part of safety hoarding will be located under the construction area of viaduct as captured below. Please provide with detailed safety requirement or standard for the construction above the operational PNR.	***Bidder shall comply the requirements as stated in GS 131 for any works within the PNR railway safety and protection zone including, but not limited to the works to be carried out outside railway operational hour.***
S-07	2	Section 6-III	-	Access to Sites	-	We refer to the phrase saying “The Contractor for S-06 will be required to give 24/7 access from day one of the contract to S-07 Contractor for 300+ truck movements each way per day”. Please advise when the Contractor for S-06 will provide the access to the Contractor for S-07.	***CP S-06 contractor shall provide access to CP S-07 through Banlic Station Access Road from a date of the commenecement of CP S-06.***
S-06	1	Section 4	BF39	BIM & CMMS Implementation	Scope of Works	The Contractors scope of work is understood that provide LOD 500 model for create a list of asset, not an establish CMMS itself. Please confirm, scope of works regarding of CMMS, above and clarify below, - What kind of CMMS solution is considered or used for the Employer’s O&M works. - What type of asset shall be listed for CMMS - What kind of FM data shall be collected during construction for the Employer’s O&M works	***CMMS (Software) is not yet finalized and CMMS Document is being developed to address consolidated information requirements from O&M, DOTr and PNR. Bidders may refer to CP NS-01 Volume Part 2 Section 1 CMMS V9, Section 11.4.6- Software Requirements and Section 11.5- Interface Requirement. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-07	-	Section 8 PCC	PCC-7	Attachment 1	KD04 - Completion of civil works for access road for CPNS-02/NS-03 contractors to commence delivery of Rolling Stock	We kindly request of the definition of KD 04 : Completion of civil works for access road for CPNS-02/NS-03 contractors. Please describe (or explain) in detail about the "Completion of civil works for access road” Does "Access Road" mean which part / area should be completed to enter the specific location in depot. .	***Bidder is advised that the meaning of "Completion of civil works for access road” shall be a reasonable access road to be provided to CPS-02/NS-03 contractor to deliver his rolling stocks subject to Engineers approval.***
S-05	3	Section 8 Particular Conditions of Contract	PCC 4	14.2 Total advance payment	Total advance payment One instalment of Ten Percent (10%) of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable.	Due to the requirement of high prime investment for these projects, we kindly request you to increase the total advance payment ratio from 10% to 15%.	***Please refer to Addendum 2 for the update.***

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S-06	3	Section 8 Particular Conditions of Contract	PCC 4	14.2 Total advance payment	Total advance payment One instalment of Ten Percent (10%) of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable.	Due to the requirement of high prime investment for these projects, we kindly request you to increase the total advance payment ratio from 10% to 15%.	***Please refer to Addendum 2 for the update.***
S-06	1	Part IA, Section	28 of 186	Bill of Quantities, No. 3, Part A	Item 201(2)a of pile cap excavation in dry condition, 201(4)d of backfill, and 201(5)b of pile cap excavation (in dry conditions) (unsuitable materials)	Please confirm that the volume of excavation and backfilling for all these items are excluding the volume of extra excavation for slope stability.	***Bidder is advised to refer to TS 201.1.1 in Addendum 4.***
S-06	1	Sec No 4	BF56		Note: $ equivalent based on the foreign exchange rate as of the same date and currency of the contract.	If the first contract was signed in 2015 and there is an addendum / amendment in 2016. Then what year will the exchange rate be used? Is it 2015 (first contract) or 2016 (amendment / addendum)?	***Please use the latest version of the contract for the exchange rate.***
S-04	1	Sec 4A BOQ	24		Removal of Existing Lined Canal	The Quantity is Linear meter. Drawing only mentions widths. Height isn't shown in the drawing. Please, provide the specific drawing included with the information.	***Please refer to the topographic survey in the Site Data for any avaliable information from the Employer about the canal. The bidder may check the existing condition of the canal for pricing exercise.***
S-05	2	Sec 6 IC Technical Specfication	22	101.2.2	All disposal areas, whether on or off site, shall be seeded, fertilized and mulched at the Contractor's expense.	For seeding, fertilizing and mulching, the disposal area needs grading & compaction. There is no mention of grading and compaction in the technical specfication. Please, clarfy whose scope it is. The contractor or others?	***It is Contractor's responsibility to meet the requirements for any works related to clearing and grubbing as specified in TS101.***
S-05	2	Section 6 TS 500	Page 246 ~ 249	523 TENSILE MEMBRANE ROOF STRUCTURE (TMRS)	523.1.1 General Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure.	Please clarify that 523 specification is follow; According to specification, Membrane supplier(Subcontract) has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure. It is still under strict regulations. Therefore, there will be considerable restrictions on the selection of specialized subcontracts to carry out construction roofing structure. Please clarify that the specifications are mandatory	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-06	2	Sec 6 IC Technical Specfication	22	101.2.2	All disposal areas, whether on or off site, shall be seeded, fertilized and mulched at the Contractor's expense.	For seeding, fertilizing and mulching, the disposal area needs grading & compaction. There is no mention of grading and compaction in the technical specfication. Please, clarfy whose scope it is. The contractor or others?	***It is Contractor's responsibility to meet the requirements for any works related to clearing and grubbing as specified in TS101.***
S-06	2	Section 6 TS 500	Page 246 ~ 249	523 TENSILE MEMBRANE ROOF STRUCTURE (TMRS)	523.2.1 Material The fabric material should be fiberglass fabric with PTFE coating and TiO2 coating.	Please clarify that 523 specification is follow; Fiberglass fabric with PTFE coating and TiO2 coating material can only be supplied by one company worldwide as our information. Also, since it is a monopoly material, it is expected to be difficult to supply the site and affect the construction budget of the Client. Is there any intention to change to general PTFE material without TiO2 coating for reducing budget and prevent delay in construction period?	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***

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S-06	2	Section 6 TS 500	Page 246 ~ 249	523 TENSILE MEMBRANE ROOF STRUCTURE (TMRS)	523.1.1 General Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure.	Please clarify that 523 specification is follow; According to specification, Membrane supplier(Subcontract) has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure. It is still under strict regulations. Therefore, there will be considerable restrictions on the selection of specialized subcontracts to carry out construction roofing structure. Please clarify that the specifications are mandatory	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-07	2	Specifications TS 700 - Annex A	21	716 Fire Alarm and Detection System 716.1.1 Method of Measurement	FIRE DETECTION AND ALARM SYSTEM d) Fees / costs for Factory Acceptance Tests (FAT)	1) Please verify how many participants to witness for the Factory Acceptance Test. 2) Please provide list of equipment and quantity to be tested for the Factory Acceptance Test.	***It is Contractor's responsibility to meet the requirements for any works related to clearing and grubbing as specified in TS101.***
S-07		Vol. 2	32	NSRP -DWG-DEP-RD-1925	Jet Grouting Works	can we use alternative method for the installation of several jet grouted pile, depending on the required capacity. To replace one (1) 2.50 m Dia. Jet Grouted Pile.	***Please note that this is an Engineering Design contract. The Contractor may propose alternatives as value engineering in accordance with relevant FIDIC clauses during contarct implementation. According to Bid Data Sheet of ITB 13.1, alternative bids shall not be permitted for this contract.***
S-07						Capacity of jet Grouted Piles	***Bidder is advised to refer to requirement of Jet Grouted Plies located in NSRP-DWG-DEP-RD-1925.***
S-04	1	Vol.1 Sec.4	BF43	BIM and CMMS Implementation	-	Please clarify the Contractor's scope of work for CMMS establishment work for Electricity operation, Signalling, Telecommunications, AFC and PSD Equipment.	***Each package contractor shall provide Asset Register List and asset information shall be integrated with BIM Model and to be submitted to the CMMS database. Contractor shall identify, capture and resolve all interfaces related to CP NS-01 for the coordination of asset information/parameter and O&M requirement, to the satisfaction of the Engineer. ContractorBidders may refer to the Appendix 15 BIM Information Management Flow and Appendix 17 Info Mgt Plan for the CMMS Requirements.***
S-05	2	Vol.2 Sec.6 II. Drawings	NSRP-DWG-VIA05-DR-0004	AT-GRADE MAINLINE DRAINAGE GENERAL NOTES, ABBREVIATIONS AND LEGEND	Construction of drainage crossings underneath the freight track and PNR temporary Track are by others and is not included in this construction package.	Please advise whether it will be completed Construction of drainage crossings underneath the freight track and PNR temporary before commencement of project. If not, please advise schedule of consturtion of drainage crossings to plan the schedule of project.	***Construction of drainage crossings underneath the freight track and PNR temporary track shall be completed before commencement of project, unless otherwise specified.***

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S-05	1	Vol.1 Sec.4	BF43	BIM and CMMS Implementation	-	Please clarify the Contractor's scope of work for CMMS establishment work for Electricity operation, Signalling, Telecommunications, AFC and PSD Equipment.	***Each package contractor shall provide Asset Register List and asset information shall be integrated with BIM Model and to be submitted to the CMMS database. Contractor shall identify, capture and resolve all interfaces related to CP NS-01 for the coordination of asset information/parameter and O&M requirement, to the satisfaction of the Engineer. ContractorBidders may refer to the Appendix 15 BIM Information Management Flow and Appendix 17 Info Mgt Plan for the CMMS Requirements.***
S-06	1	Vol.1 Sec.4	BF44	BIM and CMMS Implementation	-	Please clarify the Contractor's scope of work for CMMS establishment work for Electricity operation, Signalling, Telecommunications, AFC and PSD Equipment.	***Each package contractor shall provide Asset Register List and asset information shall be integrated with BIM Model and to be submitted to the CMMS database. Contractor shall identify, capture and resolve all interfaces related to CP NS-01 for the coordination of asset information/parameter and O&M requirement, to the satisfaction of the Engineer. ContractorBidders may refer to the Appendix 15 BIM Information Management Flow and Appendix 17 Info Mgt Plan for the CMMS Requirements.***
S-05	2	Volume 2 Section 6 - Employer's Requirements IB – General Specification	GS68	119.3.2 Working Drawings	-	Please can limitations be provided on the time the Engineer will take in reviewing the Contractor's working drawings?	***It is 28 days as stated in the clause.***

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S-06	1	Volume 1 Section 4	BF44	BIM and CMMS Implementation	-	Please could the work required in CMMS be specified?	***BIM CSD to develop BIM Common Data Environment (CDE) during design stage.*** ***And a set of COBie information shall be developed and extracted from the BIM models for the information exchange with CMMS to develop the Asset Registers at designated points throughout the design and construction process and will continually capture the BIM data for handover to operations.*** ***COBie data sheets will be extracted for Maintainable Assets at As-build stage using Autodesk COBie Plugin and COBie tools. BIM-MMS ICD Document and Asset Information BIM Model document shall be developed in later stage as per highlighted in NSCR-GCR-LWD-ZWD-TDC-BM-000001-Rev_1 (to be provided to the Bidders in Addendum 2)***
S-06	2	Section 6 - Employer's Requirements IB – General Specification	GS68	119.3.2 Working Drawings	-	Please can limitations be provided on the time the Engineer will take in reviewing the Contractor's working drawings?	***It is 28 days as stated in the clause.***
S-05	1	Vol.1 Section 4, 4A	BF4,	BOQ, Preamble clause 3	CP S04-07 Responses to Clarification Requests (Batch 2)	We understand that the quantities given in BOQ are an estimate and are not to be taken as the actual, final and correct quantities of the work to be carried out by the contract so the basis of payment will be the actual quantities of work ordered and carried out in conformity with the Specifications and the Drawings, as measured by the Engineer and valued at the rates and prices in the priced BOQ. However, in the responses to clarification requests, Admeasurement is the measurement of change from the Detailed Design to the revised designs as instructed and this will not require wholesale remeasurement. Please clarify that Employer will pay based on the actual quantities of the work to be carried out by the contract, not only difference in quantities between BOQ and actual but also change from the detailed design to the revised designs as instructed.	***The quantities in the BOQ are accurate and measured from Detailed Design. Admeasurement is the measurement of change from Detailed Design to revised Detailed Design and /or Variations as instructed by the Engineer.*** ***Further, any obvious errors detected in quantification in the BOQ shall, subject to the agreement of the Engineer, be re-measured and corrected.The Contractor is not expected to take the risk of errors in quantities.*** ***Bidder is advised that PCC Clause 1.1.6.12 related to ad-measurement definition will be removed in Addendum 3.***

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S-06	2	Volume 2, Drawing	NSRP-DWG-VIA06-ST-0035	-	-	As per drawing, NSRP-DWG-VIA06-ST-0035, some part of Gabion Mattress (300mm) area is located out of Project ROW line. Please clarify this area is also under contractor's responsibility. If yes, please provide the approval procedures for this area before commencement of construction.	***Gabion mattress must be within NSRP ROW. Drawing NSRP-DWG-VIA06-ST-0035 with updated Gabion Mattress configuration.***
S-05	2	Volume 2, Drawing Specification TS 700	-	NSRP-DWG-BIN-EL-5801/5802 713.2.7 1)~3)	STATION BMS DIAGRAM/ BMS INPUT/OUTPUT LIST Provide Building Management System necessary for the construction of the project as specified. Such work includes, but is not limited to the following including hardware, power supply, communication interphase software and all required accessories.	Requirements in TS 713.2.7 1)~3) are much more complicated than BMS schematic diagram drawings. Please advise which one prevail out of TS and the drawing. And kindly provide responsibility matrix for BMS between the Bidder (i.e., Civil contractor) and others (e.g., E&M system contractor) so that the Bidder clearly understand the Bidder's SoW for hardware, software, device and testing.	***BMS is a supply, design and install work. As stated in the drawing notes, Vendor to verify all necessary components, equipment, devices, accessories & interfaces in their shop drawing design and ensure system compatibility based. On jobsite condition, manufacturer recommendation and applicable standards and regulations, required tests, analysis and/or simulation and by performing required functional and integration test during testing and commissioning stage. It is a collaborative work between E&M contractor and the bidder. TS will goven. Drawings represent the input/outpit list for the BMS specialist to provide detail design, supply and install work. yes, this response is correcty respond.***
S-05	2	Volume 2, Specification TS 700	-	715.2.13	Visitor Management system The system shall provide a facility to manage and track visitors to the facility. This shall include both visitors who are given access control cards and visitors who are merely escorted by employees.	Please confirm that Visitor management system is not under the Bidder's (i.e., Civil contractor) SoW and only items specified on drawings/BOQ are under the Bidder's SoW.	***This is not in the Bidders Scope of Work.***
S-06	1	Volume 1, Section 4A, Bill of Quantities	-	-	-	Based on the contractor's review on the ITB, the basis of the Bill of Quantity (BoQ) associated with the excavation does not appear any of the drawings shown. The contractor would like kindly to request providing the basis of BoQ assocaited with the excavation.	***Bidder is advised to refer to TS 201.1.1 in Addendum 4.***
S-06	3	Volume 3, Section 8	PCC 3	PCC 6.5	-	According to PCC 6.5, works on the site is permitted 24 hours per day, 7 days per week. For this, the bidder may consider to work out of regular hours per day. However, working out of regular hours for the bidder would result in the Engineer (i.e., any associated engineers working for the Client) working out of requlr hours such as the work incurred for witnessing the work activity by the contractor. The Bidder was wondering if the Bidder needed to cover the salary of the Engineer incurred due to the Contractor working overtime. Please clarify.	***No. The Contractor will not be required to cover the salary of the Engineer. However, the Contractor will be required to provide the Engineer advance notice of out of hours working***

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S-06	2	Volume 2 TS-500	246 & 247	523.1.1/ General 523.2.1/ Material	523.1.1 General Work of this section, ...herein. Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure. 523.2 Products 523.2.1 Material The fabric material should be fiberglass fabric with PTFE coating and TiO2 coating. Material should satisfy equivalent figures below (Air Purify 450 (AP450) or greater. 523.2.1.1 Performance of Self-cleaning Functions Standards for Determining Performance: Decomposition index is above 5 (Test Methods for Evaluating Self-cleaning Functions: JIS R 1703-2)	According to the technical specification, the Bidder has found that only one company can meet the requirements as the specification indicates to have the experience of installing over 20 MRT stations by using TiO2 membrane roof structure. In addition, materials specified within the technical specification is patented so again only one company can supply the material. The Bidder was wondering if the Client intended to specify the company to be performed or the Bidder was allowed to subcontract any company who can perform TMRS work as long as the system is constructed meeting the performance in general accordance with the technical specification. Please clarify.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-06	2	Volume 2, Specification TS 700	-	715.2.13	Visitor Management system The system shall provide a facility to manage and track visitors to the facility. This shall include both visitors who are given access control cards and visitors who are merely escorted by employees.	Please confirm that Visitor management system is not under the Bidder's (i.e., Civil contractor) SoW and only items specified on drawings/BOQ are under the Bidder's SoW.	***This is not in the Bidders Scope of Work.***
S-06	2	Volume 2, Specification TS 700	-	708.2.2 713.2.8 715.3.8	BALLAST Three years warranty BMS The BMS supplier/contractor shall warrant the system's complete and successful operation against factory defects on the equipment and defects in installation workmanship for a period of two (2) years after the date of turn-over. SECURITY SYSTEM A warranty for a period of one (1) year from date of acceptance shall be provided against failure of components under normal use resulting from poor workmanship and/or factory defects.	For Electrical systems, warranty period of certain systems are specified (BALLAST/BMS/SECURITY). Please confirm that all other systems not mentioned in TS has only one (1) year warranty.	***Bidder is advised to refer to GS 128 in Addendum 4,***
S-07	1	Volume 1 Section 4 Programming Proposals - Construction Schedule	BF 33	-	Bar chart table	Item titled "Embankment" on the bar chart schedule, is the period including the time for the soft soil treatment?	***Please refer to the revised /updated BOQ, Bill No. 8, Item PS-12 - Ground Improvement Works. Updated BOQ shall be issued as Addendum 4.***

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S-07	-	-	-	-	Regarding the expected issue of soft soil treatment in the area of inner railway of depot	The area of railway in depot, the heavy vehicles will be operated. In this area, the long-term settlement is expected because there is only embankment without piles or jet-groutings below the railway. 1) Is the expected long-term settlement considered in the current design? 2) If the long-term settlement takes place after or during construction, who would take the responsibility for this? 3) Is it possible if we raise a variation order for this issue during execution?	***Please refer to the revised /updated BOQ, Bill No. 8, Item PS-12 - Ground Improvement Works. Updated BOQ shall be issued as Addendum 4.***
S-05	-	GS103	-	ITB - Construction Schedule 2. Access and Possession of Site	-	Based on the Bidder's interpretation on the relocation of utilities, the Bidder understands that there are possibilities of the site having the utilities that are not found by the Client as of now. From the Bidder's point of view, however, unknown utilities are something that the Bidder is not able to quantify to make the proposal due to unknown associated with the time and the cost potentially incurred for the relocation of unknown utilities. At least, in order to evaluate the effort that the Client has made associated with this subject, the Bidder would like to kindly request the Client to clarify the following: The list-up with details of the methods of surveys completed to accurately identify utilities associated with (1) above-ground utilities, and (2) underground utilities in the vicinity of the RoW to be given to the Bidder for the performance of the work to be completed (e.g., geophysical survey for identifying underground utilities, etc with further details on the methodology)	***Bidder is referred to Provisional Sums allocated for dealing with unexpected utility relocations.***
S-06	-	GS103	-	ITB - Construction Schedule 2. Access and Possession of Site	-	Based on the Bidder's interpretation on the relocation of utilities, the Bidder understands that there are possibilities of the site having the utilities that are not found by the Client as of now. From the Bidder's point of view, however, unknown utilities are something that the Bidder is not able to quantify to make the proposal due to unknown associated with the time and the cost potentially incurred for the relocation of unknown utilities. At least, in order to evaluate the effort that the Client has made associated with this subject, the Bidder would like to kindly request the Client to clarify the following: The list-up with details of the methods of surveys completed to accurately identify utilities associated with (1) above-ground utilities, and (2) underground utilities in the vicinity of the RoW to be given to the Bidder for the performance of the work to be completed (e.g., geophysical survey for identifying underground utilities, etc with further details on the methodology)	***The Bidder is advised to refer to Addendum 2 BOQ, Bill No. 8-Provisional Sum, Item PS-3 - Unexpected Utility Relocation.***

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S-04	1	Vol.1 Sec.4	BF 45	-	BIM and CMMS Implementation	What CMMS platform will be implemented? Does it work with CoBIE or by Asset list/Tags/Properties?	***CMMS software platform shall be window-based software, scalable and open to be integrated to other services. And, CMMS shall integrate with BIM and MMS database for asset tagging register. CMMS shall work with both CoBie and Asset List. Bidders are required to provide Asset List for maintainable item, consumable and spare parts and those information will be uploaded to CMMS. Bidder may refer to CP NS-01 Volume Part 2 CMMS- section 11.4.6 for futher details. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html*** ***Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-04	1	Vol.1 Sec.4	BF 45	-	BIM and CMMS Implementation	Does it have webservices or APIs for integration? Would it be a bidirectional integration?	***Integration details will be provided by Contractors (CMMS-BIM) in Interface Document. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail, Section 11.5. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-04	1	Vol.1 Sec.4	BF 45	-	BIM and CMMS Implementation	Is the Asset listing available? How many objects do you estimate?	***Asset listing would be a live documents and will be finalized after Final Design Stage. And CMMS shall cater all the maintainable assets, consumable and spare parts details. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail, Section 11. 1 and Section 11.5 for further details. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04	1	Vol.1 Sec.4	BF 45	-	BIM and CMMS Implementation	Does the Client have a clear view of the parameters to be inserted in the model object for Maintenance Purpose? Data Sheets?	***Parameters will be proposed by Contractor and the Engineer to the Clients for approval and all key parameters and work order shall meet O&M requirements.Bidder may refer to CP NS-01 Volume Part 2 CMMS , Section 11.4.6 further detail. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-05	1	Vol.1 Sec.4	BF 43	-	BIM and CMMS Implementation	What CMMS platform will be implemented? Does it work with CoBIE or by Asset list/Tags/Properties?	***CMMS software platform shall be window-based software, scalable and open to be integrated to other services. And, CMMS shall integrate with BIM and MMS database for asset tagging register. CMMS shall work with both CoBie and Asset List. Bidders are required to provide Asset List for maintainable item, consumable and spare parts and those information will be uploaded to CMMS. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-05	1	Vol.1 Sec.4	BF 43	-	BIM and CMMS Implementation	Does it have webservices or APIs for integration? Would it be a bidirectional integration?	***Integration details will be provided by Contractors (CMMS-BIM) in Interface Document. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail, Section 11.5. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	1	Vol.1 Sec.4	BF 43	-	BIM and CMMS Implementation	Is the Asset listing available? How many objects do you estimate?	***Asset listing would be a live documents and will be finalized after Final Design Stage. And CMMS shall cater all the maintainable assets, consumable and spare parts details. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail, Section 11. 1 and Section 11.5 for further details. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-05	1	Vol.1 Sec.4	BF 43	-	BIM and CMMS Implementation	Does the Client have a clear view of the parameters to be inserted in the model object for Maintenance Purpose? Data Sheets?	***Parameters will be proposed by Contractor and the Engineer to the Clients for approval and all key parameters and work order shall meet O&M requirements.Bidder may refer to CP NS-01 Volume Part 2 CMMS , Section 11.4.6 further detail. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-06	1	Vol.1 Sec.4	BF 44	-	BIM and CMMS Implementation	What CMMS platform will be implemented? Does it work with CoBIE or by Asset list/Tags/Properties?	***CMMS software platform shall be window-based software, scalable and open to be integrated to other services. And, CMMS shall integrate with BIM and MMS database for asset tagging register. CMMS shall work with both CoBie and Asset List. Bidders are required to provide Asset List for maintainable item, consumable and spare parts and those information will be uploaded to CMMS. Bidder may refer to CP NS-01 Volume Part 2 CMMS- section 11.4.6 for futher details. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06	1	Vol.1 Sec.4	BF 44	-	BIM and CMMS Implementation	Does it have webservices or APIs for integration? Would it be a bidirectional integration?	***Integration details will be provided by Contractors (CMMS-BIM) in Interface Document. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail, Section 11.5. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-06	1	Vol.1 Sec.4	BF 44	-	BIM and CMMS Implementation	Is the Asset listing available? How many objects do you estimate?	***Asset listing would be a live documents and will be finalized after Final Design Stage. And CMMS shall cater all the maintainable assets, consumable and spare parts details. Bidder may refer to CP NS-01 Volume Part 2 CMMS for further detail, Section 11. 1 and Section 11.5 for further details. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-06	1	Vol.1 Sec.4	BF 44	-	BIM and CMMS Implementation	Does the Client have a clear view of the parameters to be inserted in the model object for Maintenance Purpose? Data Sheets?	***Parameters will be proposed by Contractor and the Engineer to the Clients for approval and all key parameters and work order shall meet O&M requirements.Bidder may refer to CP NS-01 Volume Part 2 CMMS , Section 11.4.6 further detail. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html***
S-05	1A	Vol.1A Sec.4A	-	BOQ No.2 BOQ No.3 BOQ No.4-1 BOQ No.4-2 BOQ No.4-3 BOQ No.4-4 BOQ No.5 BOQ No.6-1 BOQ No.6-2 BOQ No.6-3 BOQ No.6-4 BOQ No.6-5	-	Please provide criteria to calculate excavation volume of unsuitable excavation, common excavation, structure excavation and pile cap excavation. ITEM No. 102(1)a ITEM No. 102(2)a ITEM No. 201(1)a ITEM No. 201(2)a ITEM No. 201(3)a2 ITEM No. 201(4)a ITEM No. 201(5)b	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06	1A	Vol.1A Sec.4A	-	BOQ No.2 BOQ No.3 BOQ No.4-1 BOQ No.4-2 BOQ No.4-3 BOQ No.5 BOQ No.6-1 BOQ No.6-2 BOQ No.6-3 BOQ No.6-4	-	Please provide criteria to calculate excavation volume of unsuitable excavation, common excavation, structure excavation and pile cap excavation. ITEM No. 102(1)a ITEM No. 102(2)a ITEM No. 201(1)a ITEM No. 201(2)a ITEM No. 201(3)a2 ITEM No. 201(4)a ITEM No. 201(5)b	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***
S-04	2	Volume 2, Section 6-IC Technical Specification TS500- Architectural Works	-	523 Tensile Membrane Roof Structure (TMRS) 523.2 Products 523.2.1 Material 523.2.1.2 Performance of Air Purification Function (Nitrogen Oxide)	Standard for Determining Performance: Removal quantity of nitrogen oxide is above 0.5μmol (Test Methods for Evaluating Air Purification Function (Nitrogen Oxide): JIS R 1701-1) Fire certificate needs to be satisfied. (ASTM E 108 Class A)	According to specification 523.2.1.2 Performance of Air Purification Function (Nitrogen Oxide), we found that there is only one product which complies to the specification. For the long term maintenance and service support, if there is only one manufacturer, it will not be beneficial to DOTr. Please consider relaxing this clause.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-05	2	Volume 2, Section 6-IC Technical Specification TS500- Architectural Works	-	523 Tensile Membrane Roof Structure (TMRS) 523.2 Products 523.2.1 Material 523.2.1.2 Performance of Air Purification Function (Nitrogen Oxide)	Standard for Determining Performance: Removal quantity of nitrogen oxide is above 0.5μmol (Test Methods for Evaluating Air Purification Function (Nitrogen Oxide): JIS R 1701-1) Fire certificate needs to be satisfied. (ASTM E 108 Class A)	According to specification 523.2.1.2 Performance of Air Purification Function (Nitrogen Oxide), we found that there is only one product which complies to the specification. For the long term maintenance and service support, if there is only one manufacturer, it will not be beneficial to DOTr. Please consider relaxing this clause.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	1	Volume 1 Part IA section 4 Bill of Quantities Volumn 2 Book 2 (Architectural)- Package CP S-05: San Pedro Station Architectural Drawings Book 2 (Architectural)- Package CP S-05: Pacita Station Architectural Drawings Book 2 (Architectural)- Package CP S-05: Binan Station Architectural Drawings Book 2 (Architectural)- Package CP S-05: Santa Rosa Station Architectural DrawingsBook 2 (Architectural)- Package CP S-05: San Pedro Station Architectural Drawings Book 2 (Architectural)- Package CP S-05:	-	BOQ No.4-1 San Pedro Station BOQ No.4-2 Pacita Station BOQ No.4-3 Binan Station. BOQ No.4-4 Rosa Station NSRP-DWG-SPO-AR-3539-3541 NSRP-DWG-PTA-AR-3540 NSRP-DWG-BIN-AR-3540 NSRP-DWG-SRO-AR-3540	327(8) FF11 FF11 Floor: 300 x 600 x 20mm Warning Tactile Floor Block 327(9)FF16 Floor: 300 x 800 x 20mm Non-Slip Tactile Strip 327(12)FF12 Floor: 300 x 600 x 20mm Directional Tactile Floor Block San Pedro Station PWD Ramp Entrance Sheet1-3 Pacita Station PWD Ramp Entrance Binan Station PWD Ramp Entrance Santa Rosa Station PWD Ramp Entrance	There is no type of material for Warning Tactile, Non-Slip Tactile Strip and Directional Tactile floor block indicated in Specification 537, Drawing and BOQ. Please provide the material details. Is it granite or concrete block?	***Refer to sheet NSRP-DWG-STA-AR-3501 issued as Rev21.3 under Addendum 4***
S-06	2	Volumn 2, Section 6-IC Technical Specification TS500- Architectural Works	-	523 Tensile Membrane Roof Structure (TMRS) 523.2 Products 523.2.1 Material 523.2.1.2 Performance of Air Purification Function (Nitrogen Oxide)	Standard for Determining Performance: Removal quantity of nitrogen oxide is above 0.5μmol (Test Methods for Evaluating Air Purification Function (Nitrogen Oxide): JIS R 1701-1) Fire certificate needs to be satisfied. (ASTM E 108 Class A)	According to specification 523.2.1.2 Performance of Air Purification Function (Nitrogen Oxide), we found that there is only one product which complies to the specification. For the long term maintenance and service support, if there is only one manufacturer, it will not be beneficial to DOTr. Please consider relaxing this clause.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-04	2	Volume 2	NSRP-DWG-VIA00-ST-0402	Note in drawings	Concrete mix shall contain type GB cement with 65% GBS and MAX cementitious content of 400 kg/m3 for 40MPa.	Learnt from the no.8 of GBB6 in package CP S-01 & CP S-02, the drawing is only Recommendation. Please confirm there is no requirements to use GB cement.	***"Bidder shall refer to TS 206.5.1 However, bidder is advised that if there is no local source of GGBS cement in Philippines, in that case OPC (Type II) to ASTM C150M would be acceptable for Class P and Class A use subject to Engineers approval."***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	2	Volume 2	NSRP-DWG-VIA00-ST-0402	Note in drawings	Concrete mix shall contain type GB cement with 65% GBS and MAX cementitious content of 400 kg/m3 for 40MPa.	Learnt from the no.8 of GBB6 in package CP S-01 & CP S-02, the drawing is only Recommendation. Please confirm there is no requirements to use GB cement.	*Contractor shall refer to TS 206.5.1.* ***However, bidder is advised that if there is no local source of GGBS cement in Philippines, in that case OPC (Type II) to ASTM C150M would be acceptable for Class P and Class A use subject to Engineers approval.***
S-05	2	Section 6 of Volume 2 - TS200 Technical Specification	208.12.9	Finishing	2) the ends of vents shallbe removed at least 25mm below the concrete surface after the grout has set. 3) The void shall be filled with epoxy grout. All miscellaneous material used for sealing grout csps shall be removed before carrying out further work to protect end anchorages.	Please provide specification of epoxy grout ?	***Refer to TS 208.19 in Addendum-3***
S-06	2	Volume 2	NSRP-DWG-VIA00-ST-0402	Note in drawings	Concrete mix shall contain type GB cement with 65% GBS and MAX cementitious content of 400 kg/m3 for 40MPa.	Learnt from the no.8 of GBB6 in package CP S-01 & CP S-02, the drawing is only Recommendation. Please confirm there is no requirements to use GB cement.	*Contractor shall refer to TS 206.5.1.* ***However, bidder is advised that if there is no local source of GGBS cement in Philippines, in that case OPC (Type II) to ASTM C150M would be acceptable for Class P and Class A use subject to Engineers approval.***
S-06	2	Section 6 of Volume 2 - TS200 Technical Specification	208.12.9	Finishing	2) the ends of vents shallbe removed at least 25mm below the concrete surface after the grout has set. 3) The void shall be filled with epoxy grout. All miscellaneous material used for sealing grout csps shall be removed before carrying out further work to protect end anchorages.	Please provide specification of epoxy grout ?	***Bidder is advised to refer to TS 208.19 in Addendum 3.***
S-04	1	Volume 1 Section 4 Bill of Quantities	19 of 130	GS 118(11)	Demolish Buildings/Structures, recover and make an inventory of any rail materials and other artefacts dating from after the Philippines-American War used as construction material	Please provide a detailed breakdown and list to estimate the cost. The detailed price study cannot be calculated due to insufficient information given in tender documents.	***"The Bidder is advised / informed that the BOQ was revised with the deletion of Item Nos. GS118(6) through GS118(14) from the Bill No. 1.*** ***Work Items concerning Historic and Non-Historic Structures and Buildings shall be covered by the Bill No. 8-Provisional Sum, PS-4-Historical PNR Structure Protection/Relocation/Demolition. Please refer to the Updated BOQ, Addendum 2 and to Addendum 3, Volume 2, General Specifications (GS); SCRP Vol.2 Sec 6 IB Appendix 14. Furthermore, Please refer to the Site Data, Due Diligence Report on Historic Buildings & Structures which shall be issued as Addendum 3."***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04	1	Volume 1 Section 4 Bill of Quantities	20 of 130	GS 118(14)	Demolution of Historical Structures and Building	Please confirm that this payment item shall be prepared as per Site Data, 10.14 Historical Structures of Importance Volume 1 of 2, CP S-04.	***The Bidder is advised / informed that the BOQ was revised with the deletion of Item Nos. GS118(6) through GS118(14) from the Bill No. 1. Work Items concerning Historic and Non-Historic Structures and Buildings shall be covered by the Bill No. 8-Provisional Sum, PS-4-Historical PNR Structure Protection/Relocation/Demolition. Please refer to the Updated BOQ, Addendum 2 and to Addendum 2, Volume 2, General Specifications (GS); SCRP Vol.2 Sec 6 IB Appendix 14. Furthermore, Please refer to the Site Data, Due Diligence Report on Historic Buildings & Structures which shall be issued as Addendum 3.***
S-04	-	S-04 Vol.2 / Specificaation/SCRP _TS 500	TS 500-246	523 Tensile membrane roof structure(TMRS) / 523.1.1 General	-	According to specification, Membrane supplier has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure. It is difficult to find competitive suppliers because only 1 company meet this requirement in the world.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-04	-	S-04 Vol.2 / Specificaation/SCRP _TS 500	TS 500-246	523 Tensile membrane roof structure(TMRS) / 523.1.2 Products / 523.2.1 Material	-	Please clarify tensile membrane specification is mandatory or not. - Fiber glass fabric with PTFE coating and TiO2 coating material is manufactured/supplied by 1 company only in the world as our information. A monopoly is characterized by the absence of competition, which can lead to not only high costs for bidder and but also affect to the client's budget.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-05	2	Volume 2 01 Specification 01 GS 2.2 SCRP General Specification	GS 98	131.4 Safety Considerations	The safety hoardings shall be located a minimum of 2.000m to the face or any component of the fence on the PNR side from the nearest rail of the adjacent PNR railway track to leave at least 800mm clearance inside the PNR zone for personnel safety purposes.	Please advise whether safety hoardings will be installed only between PNR track and commuter line or outside from PNR track also.	***The porpose of the safety hoarding is for protection of PNR operation from the construction activities. The safety hoarding shall be installed between PNR track and commuter line.***
S-07	1A	Vol.1A Sec.4A BOQ 20210118	BOQ Bill No.2 Part A	ITEM No. 103(1)b	Embankment (Using Common Soil Excavation)	There is no clue to estimate “Common Soil Excavation, 113,676.00 m3 “ with provided drawings. Please provide calculation sheets(and/or drawings) able to estimate amount of common soil excavation.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	-	Drawing	-	NSRP-DWG-VIA05-ST-0101 NSRP-DWG-VIA06-ST-01010	-	The appended Excel files provided with CAD files within within General Bid Bulletin No. 7, the tabulated pier schedule appear as shown in NSRP-DWG-VIA05-ST-0101 for CP-S05 (NSRP-DWG-VIA06-ST-01010 for CP-S06). However, there is a discrepancy in numbers within the pier schedule in between NSRP-DWG-VIA05-ST-0101 of ITB and the excel file within General Bid Bulletin No. 7. Please kindly clarify which one the Bidder must follow.	***Pier Schedule was provided in Book 1 with Civil Drawings in Addendum 3.***
S-07	2	Vol. 2, 02 Book 1 (Civil)	NSRP-DWG-DEP-PL-3005	Drainage, Plumbing, Sanitary, Fire Pro. & Electrical Drawings	Water Tank Pipe Size	**Pipe size was not reflected in plan, please provide pipe size.**	***Pipe sizes will depend on actual Pump assembly. Piping arrangement from water tank to pumps and from pumps up to last valve of the pump assembly for Water Supply Main is under Contractor's scope.***
S-04	2	2.1 CP S-04 Vol.2 Sec.6-IA Scope of Works	Appedix 2. 3.	Items to be removed intact, stored and repositioned on site later	-	It is understood that relocation of existing PNR operating tracks and structures to be done by PNR. However the re-position of the bridges owned by PNR to be done by Contractor under provisinoal sum. It seems conflicting each other. Please clarify.	***Bidder is advised that the relocation of existing PNR tracks will be carried out by others however the PS-4 is for demolition, protection or relocation of historic PNR structures***
S-04	1A	Vol.1A Sec.4A Bill of Quantities No.1 General Requirements	GS118 (7-14)	Treatment of Historic Structures and Buildings	-	Please confirm that the below understanding is in line with Company's understanding: GS118(7) : Item 1 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(8) : Item 2 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(9) : Item 3 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(10) : Item 4 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(11) : Item 5 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(12) : Item 6 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(13) : Item 7 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works And please clarify what kinds of demolition of historical structures shall be included in GS118(14)	***"The Bidder is advised / informed that the BOQ was revised with the deletion of Item Nos. GS118(6) through GS118(14) from the Bill No. 1. Work Items concerning Historic and Non-Historic Structures and Buildings shall be covered by the Bill No. 8-Provisional Sum, PS-4-Historical PNR Structure Protection/Relocation/Demolition. Please refer to the Updated BOQ, Addendum 2 and to Addendum 2, Volume 2, General Specifications (GS); SCRP Vol.2 Sec 6 IB Appendix 14. Furthermore, Please refer to the Site Data, Due Diligence Report on Historic Buildings & Structures which shall be issued as Addendum 3."***
S-04	2	Vol.2 Sec.6 II. Drawings	NSRP-DWG-VIA05-DR-0004	AT-GRADE MAINLINE DRAINAGE GENERAL NOTES, ABBREVIATIONS AND LEGEND	General Note 6.1 Construction of drainage crossing underneath the Freight Track and PNR Temporary Track are by others and is not included in this construction package. Profiles and plands presented in the 4000 series of drawings are for information only.	Please confirm that both of Proposed Canal and Relocated Canal will be constructed by others according to General Note 6.1.	***The relocated canal shown on the drawings shall be constrcuted by the bidder. The proposed canal shown on the drawings shall be constructed by others. Bidder is advised that information about the demarcation between the PNR relocation work and the project construction it has been included Addendum 4.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	1A	Vol.1A Sec.4A Bill of Quantities No.1 General Requirements	GS118 (7-14)	Treatment of Historic Structures and Buildings	-	Please confirm that the below understanding is in line with Company's understanding: GS118(7) : Item 1 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(8) : Item 2 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(9) : Item 3 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(10) : Item 4 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(11) : Item 5 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(12) : Item 6 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works GS118(13) : Item 7 in Appendix 2, 2.1 CP S-04 Vo.2 Sec.6-IA Scope of Works And please clarify what kinds of demolition of historical structures shall be included in GS118(14)	*"The Bidder is advised / informed that the BOQ was revised with the deletion of Item Nos. GS118(6) through GS118(14) from the Bill No. 1. Work Items concerning Historic and Non-Historic Structures and Buildings shall be covered by the Bill No. 8-Provisional Sum, PS-4-Historical PNR Structure Protection/Relocation/Demolition. Please refer to the Updated BOQ, Addendum 2 and to Addendum 2, Volume 2, General Specifications (GS); SCRP Vol.2 Sec 6 IB Appendix 14. Furthermore, Please refer to the Site Data, Due Diligence Report on Historic Buildings & Structures which shall be issued as Addendum 3."*
S-06	2	Vol.2 Sec.6 II. Drawings	NSRP-DWG-VIA06-DR-0004	AT-GRADE MAINLINE DRAINAGE GENERAL NOTES, ABBREVIATIONS AND LEGEND	General Note 6.1 Construction of drainage crossing underneath the Freight Track and PNR Temporary Track are by others and is not included in this construction package. Profiles and plands presented in the 4000 series of drawings are for information only.	Please confirm that both of Proposed Canal and Relocated Canal will be constructed by others according to General Note 6.1.	*The relocated canal shown on the drawings shall be constrcuted by the bidder. The proposed canal shown on the drawings shall be constructed by others. Bidder is advised that information about the demarcation between the PNR relocation work and the project construction it has been included Addendum 4.*
S-06	1A	Vol.1A Sec.4A Bill of Quantities No.1 General Requirements	GS118 (7-14)	Treatment of Historic Structures and Buildings	-	Please confirm that the below understanding is in line with Company's understanding: GS118(7) : Item 1 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works GS118(8) : Item 2 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works GS118(9) : Item 3 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works GS118(10) : Item 4 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works GS118(11) : Item 5 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works GS118(12) : Item 6 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works GS118(13) : Item 7 in Appendix 2, 2.1 CP S-06 Vo.2 Sec.6-IA Scope of Works And please clarify what kinds of demolition of historical structures shall be included in GS118(14)	*"The Bidder is advised / informed that the BOQ was revised with the deletion of Item Nos. GS118(6) through GS118(14) from the Bill No. 1. Work Items concerning Historic and Non-Historic Structures and Buildings shall be covered by the Bill No. 8-Provisional Sum, PS-4-Historical PNR Structure Protection/Relocation/Demolition. Please refer to the Updated BOQ, Addendum 2 and to Addendum 2, Volume 2, General Specifications (GS); SCRP Vol.2 Sec 6 IB Appendix 14. Furthermore, Please refer to the Site Data, Due Diligence Report on Historic Buildings & Structures which shall be issued as Addendum 3."*
S-07	1	Addendum Volume1, CP S-07 Vol.1A Sec.4A BOQ 20210118	Bill No.2	ITEM No. 201(4)d, 103(1)b, and 103(1)c	PART A EARTHWORKS	Please supply the number of shrinkage factor applied on the BOQ.	*No shrinkage factor was considered in the BoQ.*

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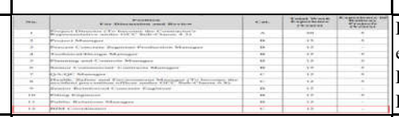
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07	2	Sec.6 ERQ	C. Technical Specification	TS200 Annex A	204.1.2.4 Extra Over for Breaking Out Obstructions The payment of extra over for breaking out obstructions shall be for the accepted quantities at the contract unit price per cubic meters of the voids formed by the removal of rock (except bedrock), boulders, artificial hard material and the like, which can only be removed by special plant and which is within the specified cross section of the pile. The unit price shall include provision, maintenance and removal of specialist equipment, over break and making good.	There is no pay item provision of "Extra over for breaking out obstruction" in BOQ. Please confirm it will be payable in new negotiated rate in appearance of boulder or rock layer during drilling of bored piles.	***Bidder is advised to refer to Addendum 4 Provisional Sum for the Breaking Out Obstructions.***
S-07	2	Sec.6 ERQ	C. Technical Specification	TS200 Annex A	201.1.1.1 Structure Excavation and Backfill The measurement for payment of backfill, foundation fill shall be the volume in “cubic meter” measured in final position of the special granular material actually provided and placed below the foundation elevation of structures as specified, completed in planes and accepted by the Engineer.	What is measurement plane for structure excavation and backfill in case of open cut? Please kindly define which plane in the following picture will be used for measurement? 1) Actual excavation slope at certain stable angle or 2)Vertical plane regardless actual excavation slope angle.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***
S-06	2	Volume 2 & Section 6 (Technical Specification)	TS 500 - 433	554.2 Blinds	-	→Kindly confirm if the installation of window treatment (Roller Shades) is part of Bidder's scope.	***Please refer to the Updated BOQ, Bill No. 4-1, Item Nos. 554(41)a to 554(41)e; Bill No. 4-2, Item Nos. 554(42)a to 554(42)c; and Bill No. 4-3, Item Nos. 554(43)a to 554(43)f. Updated BOQ shall be issued as Addendum 4. Please also refer to drawing no. NSRP-DWG-STA-AR-3567 Rev21.3.***
S-05	1	Section 3	EQC 25	2.4.2 Construction Experience in Key Activities	If the Bidder's construction experience is a part of a Prior Joint Venture, only the Bidder's designated scope of works, under the contract presented to satisfy the requirements stated here, shall be considered to meet this requirement. 3. Viaduct works for Railway or Road (Expressway or Motorway) more than 4 km using precast segmental span by span techniques.	Bidder would like to seek futher clarification in the specific requirement (as referenced), in the case of Requirement no. 3 : - A partner of the Bidder have participated in a joint operation construction contract of a total of 5 km of viaduct works under an integrated scheme (with no designated scope of works) with 20% share in the joint operation. Please clarify which shall apply for Bidder : A. Such partner's experience in the contract shall fall under the criteria of "only designated scope of works, under the contract presented" thus the eligible length of the works to be calculated in accordance to the partner's share in the contract, therefore shall be 20% of 5 km = 1 km; or B. In regards to the scheme of the contract as an integrated works (with no designated scope of works under the contract), therefore the partner's experience shall be eligible for the whole 5 km of viaduct works	***If the Bidder has been involved in all key aspects of the construction of the particular works in the contract, the Bidder may claim the experience in such contract to satisfy the requirement stated here. The Bidder shall demonstrate in full details that Bidder’s designated scope of works in the Joint Venture can satisfy the requirement stated here.***
S-04	1	Volume 1 Section 4 Bidding form	BF 18	Key personnel		Regarding experience of BIM Coordinator, a project requires 12 years as total work experience. Please clarify that this total 12 years experience means construction work or only for BIM work.	***Bidder is advised to refer to Addendum 3.***

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04	-	GBB 15	7 of 62 vs 20 of 62	-	At the Final response of page 7, Yes, the excavation for box section is included. Inclined excavation did not considered instead offset 1 meter bothside of excavation. vs At the Final response of page 20, BOQ includes slope stability quantity by offsetting of 1m bothside from the face of the structure.	Two final responses for slope stability quantity are different. Please, clarify it.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4***
S-05	1	Volume 1 Section 4 Bidding form	BF 17	Key personnel		Regarding experience of BIM Coordinator, a project requires 12 years as total work experience. Please clarify that this total 12 years experience means construction work or only for BIM work.	***Bidder is advised to refer to Addendum 3.***
S-05	-	GBB 15	7 of 62 vs 20 of 62	-	At the Final response of page 7, Yes, the excavation for box section is included. Inclined excavation did not considered instead offset 1 meter bothside of excavation. vs At the Final response of page 20, BOQ includes slope stability quantity by offsetting of 1m bothside from the face of the structure.	Two final responses for slope stability quantity are different. Please, clarify it.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***
S-06	-	GBB 15	7 of 62 vs 20 of 62		At the Final response of page 7, Yes, the excavation for box section is included. Inclined excavation did not considered instead offset 1 meter bothside of excavation. vs At the Final response of page 20, BOQ includes slope stability quantity by offsetting of 1m bothside from the face of the structure.	Two final responses for slope stability quantity are different. Please, clarify it.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***
S-06	1	Volume 1 Section 4 Bidding form	BF 17	Key personnel		Regarding experience of BIM Coordinator, a project requires 12 years as total work experience. Please clarify that this total 12 years experience means construction work or only for BIM work.	***Bidder is advised to refer to Addendum 3.***
S-07	2	Volume 2 Book 2 (Architectural Plans) GeneralBB11-Addendum 1-S07-CP S-07 Vol.1A Sec.4A BOQ 20210118 – Bill of Quantities	-	NSRP-DWG-OCC-AR-3603 BILL OF QUANTITIES No. 4-1.1 Item No.C.2 Architectural Works	-	There is no Schedule and pay item in the BOQ for Double Door for Slop Sink for OCC Building. Kindly provide Schedule and Pay item for it.	***Please refer to Addendum 3 revised drawing no. NSRP-DWG-OCC-AR-3611 Rev21.3. BOQ shall be revised to include the required work item. Updated BOQ shall be issued as Addendum 4.***
S-07	2	Volume 2 Book 2 (Architectural Plans) GeneralBB11-Addendum 1-S07-CP S-07 Vol.1A Sec.4A BOQ 20210118 – Bill of Quantities	-	NSRP-DWG-OCC-AR-3621 BILL OF QUANTITIES No. 4-1.1 Item No.C.2 Architectural Works	-	Conflict in the Height given for CW1 between the revised BOQ and Schedule of Windows and Louvers. Please confirm which will govern between the revised BOQ (H=2100mm+1300mm) and Schedule of Windows (H=2100mm+1900mm). If revised BOQ will govern, kindly provide updated Schedule of Windows and Louvers.	***Bidder is advised to refer to the updated BOQ in accordance with the schedule in Addendum 3***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07	2	Volume 2 Book 2 (Architectural Plans) GeneralBB11-Addendum 1-S07-CP S-07 Vol.1A Sec.4A BOQ 20210118 – Bill of Quantities	-	NSRP-DWG-OCC-AR-3621 BILL OF QUANTITIES No. 4-1.1 Item No.C.2 Architectural Works	-	Conflict in the Height given for CW2 between the revised BOQ and Schedule of Windows and Louvers. Please confirm which will govern between the revised BOQ (H=2100mm+800mm) and Schedule of Windows (H=2100mm+1400mm). If revised BOQ will govern, kindly provide updated Schedule of Windows and Louvers.	***Bidder is advised to refer to the updated BOQ in accordance with the schedule in Addendum 3***
S-07	2	Volume 2 Book 1 (Civil) 03_CP S-07_Structures	-	-	-	Please confirm location in BOQ of the following items for Manhole/Catch Basin - Manhole/ Catch Basin, TYPE C (for 0.5m X 0.8m RCBC) - Manhole/ Catch Basin, TYPE F (for 0.5m X 0.5m RCBC) - Manhole/ Catch Basin, TYPE F (for 0.6m X 0.6m RCBC) - Manhole/ Catch Basin, TYPE F (for 1.40m X 1.40m RCBC) - Manhole/ Catch Basin, TYPE I (for 1.20m X 1.20m RCBC)	***The BOQ was revised to include all required Manhole / Catch Basins. Updated BOQ is issued as Addendum 4.***
S-05	2	Sec.6 IA-Scope of Works Appendix 1	Appendix 1	Appendix 1	Trees to be root balled, packaged ready for transport elsewhere to be replanted: 188no Trees within PNR property to be cut down and roots grubbed up, for disposal off site: 5,312 no Trees within 3rd party property to be cut down and roots grubbed up, for disposal off site; 172 no	In order to estimate the cost for the tree cutting and disposal, please provide us below information: 1) Size of Each Tree to be cut 2) Location of Each Tree to be cut or replanted 3) Location of Disposal Area 4) Procedure of tree cut and disposal 5) "Trees to be root balled, packaged ready for transport elsewhere to be replanted: 188 no" means that contractor to be replant these trees? if yes, please provide us location to be replanted.	***Bidder is referred to revised BOQ including revised Provisional Sums in Addendum 3.***
S-05		2	Section6 TS 200 Annex A	201.1.1		1) Please provide us a calculation basis of excavation in the BOQ. 2) Please inform us a measurement method of excavation. The quantity of excavation may depending on whether the shoring work is used, and may be different on how the slope inclination is applied. if contractors excavation volume is smaller than BOQ quantity, client will going to reduce the amount based on actual quantity?	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Sec 6 II DRAWING MAINLINE DRAINAGE		13_CP S-06_Main Drainage (NSRP-DWG VIA06-DR-0007)	AT-GRADE MAINLINE DRAINAGE - DETAIL OF DRAINAGE CROSSING	The canal realaignment crossing under the existing PNR Track had inconsistency in Bid Bulletin No 13 and 15. In page 39 of 69 of Bid Bulletin No 13: The Clarification Request stated that: " Please clarify who is work scope for 'PROPOSED CANAL' at the drainage crossing. The proposed canal is located under the PNR Temporary and Future Freight Track….." The Final Response: "The details of the realignment canal (beneath the PNR Temporary Track and PNR Future Freight Track) in the drawings are for information only, as described in the 6.1 of General Notes. According to the construction progress, the connection point shall be confirmed to the Engineer, in order to keep the flow direction to the downstream." In page 40 of Bid Bulletin No 15: The Clarification Request stated that: "Main Drainage Alignment location 54+780 between P-1205 & P-1206, indicated that there is Canal to be converted to culvert under Maintenance road, Please confirm under what pay item? See NSRP-DWG-VIA06-DR 0007(Schedule of Canal Realignment),VIA06-DR-0172 (Main Alignment) " The Final Response: "Earthworks and Structural works for Canal Realignment indicated in NSRP-DWG-VIA06-DR-007 is included in BOQ, Bill No. 5 under the following pay item numbers: Part A - Earthworks: Pay Item no. 201(4)a & 201(4)d Part B - Structural Works: Pay Item no. 206(8)d, 206(10)d, 207(1)e & 207(1)b" Canal Realignment at 54+780 between P-1205 & P-1206, is crossing under the PNR Freight and Temporary Track. The plans, section and details were shown of drawing NSRP-DWG-VIA06-DR-4220 to 4221. In General Note Item 6.1 " Profiles	***The relocated canal shown on the drawings shall be constrcuted by the bidder. The proposed canal shown on the drawings shall be constructed by others. Bidder is advised that information about the demarcation between the PNR relocation work and the project construction it has been included Addendum 4.***
S-07	2	Book 2 (Architectural) Architectural Plan	-	NSRP-DWG-OCC-AR-3601 to 3603, NSRP-DWG-OCC-AR-3811 to 3813, NSRP-DWG-OCC-AR-3521	-	There are no pay items for the following, kindly confirm where can we include these or if you will provide pay item for the following: a. Aluminum Angle w/ Sealant w/ Cement Board Cladding for WP Protection for Wall (Roofdeck) b. Urethane Waterproofing on RC Parapet (Roofdeck) c. Insulator - Unwoven Cloth (70kg/m2) (Roofdeck) d. 50mm thk. Concrete Topping w/ Metal Lathe Reinforcement to Roofdeck e. 20mm Plain Mortar Steel Troweled Finish to Roofdeck f. Access Panels g. Shadowlines h. Curtain Cove i. 600 x 600 x 12mm thk Acoustic Ceiling Boards w/ Foil Backing w/ 12mm thk MR Gypsum Board on GA#24 Metal Frames	***The BOQ shall be revised to include the required work items. Updated / Revised BOQ is issued in Addendum 3.***
S-05	2	02_Book 1 (Civil) 04_CP S-06_BR215	81/90	NSRP-DWG-BR215-ST-0242	TABLE 2 - STAY CABLE STRESSING DATA TYPE "PWS"	Stay cable type is stated on the drawings as parallel wire strand (PWS) , Please confirm parallel strand cables (PSC) shall be used.	***Confirmed, that the stay cable shall be comprised of 27 parallel strands. Refer to subimtted drawings under rev 21.3 in addendum 3.***

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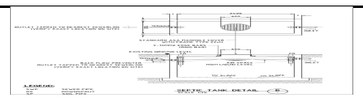
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	2	Volume 2 & Section 6 – Part IC TS 200 - Bridges and Viaducts	357/372	231.2 Submittals	4) Complete information and documentation detailing material data, certifications and test reports of items below: a) Stay Cable ECF Strands b) High Density Polyethylene Coating (herein referred as HDPE Coating) c) Stay Cable Sheathing d) Stay Cable Anchorage e) Saddle System	It seems to have an extradosed bridge specification on SCRP_TS 200 with ECF Strands with saddles, please confirm instead of ECF (Epoxy coated filled) Strands , shall we use individually protected monostand with epoxy and HDPE coated with the same mechanical characteristics?	***This Specification is for the Extradosed Bridge's Material requiemenmt. No Extradosed Bridge is included in CP S-05.***
S-06	2	02_Book 1 (Civil) 04_CP S-06_BR215	81/90	NSRP-DWG-BR215-ST-0242	TABLE 2 - STAY CABLE STRESSING DATA TYPE "PWS"	Stay cable type is stated on the drawings as parallel wire strand (PWS) , Please confirm parallel strand cables (PSC) shall be used.	***Confirmed, that the stay cable shall be comprised of 27 parallel strands. Refer to subimtted drawings under rev 21.3 in addendum 3.***
S-06	2	Section 6 – Part IC TS 200 - Bridges and Viaducts	357/372	231.2 Submittals	4) Complete information and documentation detailing material data, certifications and test reports of items below: a) Stay Cable ECF Strands b) High Density Polyethylene Coating (herein referred as HDPE Coating) c) Stay Cable Sheathing d) Stay Cable Anchorage e) Saddle System	It seems to have an extradosed bridge specification on SCRP_TS 200 with ECF Strands with saddles, please confirm instead of ECF (Epoxy coated filled) Strands , shall we use individually protected monostand with epoxy and HDPE coated with the same mechanical characteristics?	***This Specification is for the Extradosed Bridge's Material requiemenmt. No Extradosed Bridge is included in CP S-06.***
S-07		CP S-07	Sec4 BOQ Bill No. 4	Item No. D707(4)b underground conduit		There is not shown underground conduit location on layout plan as per each buildings as mentioned it as 1 lot on BOQ. Please provide the information for conduit location plan to make quantities.	***The Bidder is advised that the Underground Conduit for the Depot Buildings are the scope of the E&M Contractor (or by the CP NS-01 Package). The Depot Buidling's Underground Conduit, its related works and its location shall be covered by the CP NS-01 Contratcor. Please refer to the revised / updated BOQ, Bill no. 4, where Item D707(4)b has been deleted. Updated BOQ shall be issued as Addendum 4.***
S-07		CP S-07	Sec4 BOQ Bill No. 4-2	Item No. D707(4)cHandhole		There are considered number of quantities for Handhole on BOQ. However it is only shown partially on 6.6kV cable route site plan_NSRP-DWG-DEP-EL-5101~5103. We need handhole location on layout plan as per each buildings required. Please provide the information for handhole layout plan including technical specification to be clarified.	***The Bidder is advised that the Handhole is not covered by the Civil Works Contractor's scope of work. Please refer to the revised / updated BOQ where Item D707(4)c has been deleted. Updated / revised BOQ shall be issued as Addendum 4.***
S-04	2			Drawings - Structural Plans		Please provide of the following: a. Septic Tank located at Substation 07, 08, and 09. Refer to "Annex C" NSRP-DWG-PSS7-SN-6112	***Structural details for septic tanks has been incorporated, please refer to submitted drawings NSRP-DWG-PSS7 to 9-SN-6112, rev21.3 , Addendum 3***

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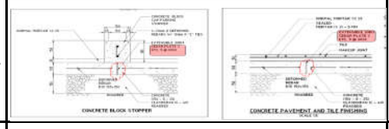
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04	1,2	Volume 1, Section 4, Bill of Quantities No.1 & Volume 2, Section 6, Employer's Requirement (ERQ), Appendix 1 & Volume 2, Section 6, III.Supplementary Information	22 of 130 & Page 22 of 30 & 30, 31, 32 of 33 (respectively)	GS133(1) GS133(2) GS133(3)		In addition to the Total quantity of trees individually given for each Pay Item in ERQ, Appendix 1 and, Total quantity of each tree species/type given in III.Supplementary Information, In order to make a more appropriate estimation for the given scope of works, please also provide us Average Length and Diameter of Each Tree Species under each Pay Item	***Bidder is referred to Addendum 3 - Provisional Sum introduced for tree cutting.***
S-04	2			Drawings - Structural Plans		Please provide of the following: a. Location and further detail for extensible joint Cedar plate 2 etc. 9 @ 3000mm. Refer to "ANNEX G" NCRP - DWG - STA - AR - 3501	***Use 10 mm thk "Abelflex" or approved expandable filler board. Refer to revised NSRP-DWG-STA-AR-3501, rev21.3, Addendum 3***
S-04	2			Structure Excavation	Bill of Quantities - Stations	Please confirm if quantities computed have allowance for working spaces for pile caps and footing tie beams	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4***
S-04	2		NSRP-DWG-VIA00-ST-0601	Type P1 and P2 Reinforcement Detail	State : Lenton standard reinforcement coupler or approved equivalent. Coupler locations shall be staggered.	Please provide vertical distance between splices of staggered bars.	***Revised drawings have be issued as Rev 21.3 in Addednum-4.***
S-04	2			Technical specification 206.9.2.1 Vertical Members	Stated on 206.9.2.1 When friction collars or falsework brackets are mounted on such vertical members and unless otherwise approved, the vertical member shall have been in place at least seven days and shall have attained its specified strength before loads from horizontal members are applied.	Please clarify what specified strength to be attained for vertical member before loads from horizontal members to be applied.	***The specified strength is the design concrete strength of that particular element.***
S-04		GBB Nos. 7, 14, 15		Addendum 1, 2 and 3		Client cited various addendum in the responses for previous bid bulletins (GBB Nos 7, 14, 15). Please clarify whether these addendums have already been issued (i.e. Addendum 1, 2, 3) and under which Bid Bulletins the cited addendum can be found.	***Bidder is advised to refer in the information below: Addendum 1 - issued in GBB No. 11; Addendum 2 - issued in GBB No. 16; and Addendum 3 - to be issued in GBB.***
S-05	2		NSRP-DWG-VIA00-ST-0601	Type P1 and P2 Reinforcement Detail	State : Lenton standard reinforcement coupler or approved equivalent. Coupler locations shall be staggered.	Please provide vertical distance between splices of staggered bars.	***Revised drawings have be issued as Rev 21.3 in Addednum-4***
S-05	2			Technical specification 206.9.2.1 Vertical Members	Stated on 206.9.2.1 When friction collars or falsework brackets are mounted on such vertical members and unless otherwise approved, the vertical member shall have been in place at least seven days and shall have attained its specified strength before loads from horizontal members are applied.	Please clarify what specified strength to be attained for vertical member before loads from horizontal members to be applied.	***The specified strength is the design concrete strength of that particular element.***
S-05		GBB Nos. 7, 14, 15		Addendum 1, 2 and 3		Client cited various addendum in the responses for previous bid bulletins (GBB Nos 7, 14, 15). Please clarify whether these addendums have already been issued (i.e. Addendum 1, 2, 3) and under which Bid Bulletins the cited addendum can be found.	***Bidder is advised to refer in the information below: Addendum 1 - issued in GBB No. 11; Addendum 2 - issued in GBB No. 16; and Addendum 3 - to be issued in GBB.***

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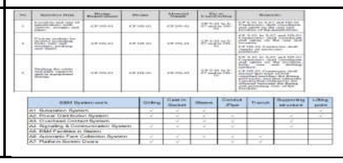
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		Package 5 of GBB15		Achieving of KD02	Refer to the response in the GBB15 below, the bidder is required to complete Misc. Works which shall be completed within each Key Date among the bridge auxiliary items which are indicated in the Typical Section Drawing NSRP-DWG-VIA00-ST-0062 (Parapet, Cable Ducts, OCS Post, Protection Concrete Layer, Parapet Wall, Cable Trough Cover and etc.).	From the experience the protective concrete should be cast after the installation of the track slab. And the Precast parapet should not be a part of access requirement for either trackworks E&M Systems. Please confirm out interpretation is correct.	***The contractor shall be required to complete protective concrete and parapet installation to meet the key date requirement.***
S-06	2			Structure Excavation	Bill of Quantities - Stations	Please confirm if quantities computed has allowance for working spaces for pile caps and footing tie beams	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***
S-06	2			Technical specification 206.9.2.1 Vertical Members	Stated on 206.9.2.1 When friction collars or falsework brackets are mounted on such vertical members and unless otherwise approved, the vertical member shall have been in place at least seven days and shall have attained its specified strength before loads from horizontal members are applied.	Please clarify what specified strength to be attained for vertical member before loads from horizontal members to be applied.	***The specified strength is the design concrete strength of that particular element.***
S-06		GBB Nos. 7, 14, 15		Addendum 1, 2 and 3		Client cited various addendum in the responses for previous bid bulletins (GBB Nos 7, 14, 15). Please clarify whether these addendums have already been issued (i.e. Addendum 1, 2, 3) and under which Bid Bulletins the cited addendum can be found.	***Bidder is advised to refer in the information below:*** ***Addendum 1 - issued in GBB No. 11;*** ***Addendum 2 - issued in GBB No. 16; and*** ***Addendum 3 - to be issued in GBB.***
S-06		Package 5 of GBB15		Achieving of KD02	Refer to the response in the GBB15 below, the bidder is required to complete Misc. Works which shall be completed within each Key Date among the bridge auxiliary items which are indicated in the Typical Section Drawing NSRP-DWG-VIA00-ST-0062 (Parapet, Cable Ducts, OCS Post, Protection Concrete Layer, Parapet Wall, Cable Trough Cover and etc.).	From the experience the protective concrete should be cast after the installation of the track slab. And the Precast parapet should not be a part of access requirement for either trackworks E&M Systems. Please confirm out interpretation is correct.	***The contractor shall be required to complete protective concrete and parapet installation to meet the key date requirement.***
S-06		NSRP-DWG-BR215-ST-0022		As-built details for the existing Railway Bridge nearby the proposed steel arch bridge		Please provide as-built footing details for the existing railway bridge nearby the proposed steel arch bridge. Learnt from the drawing ST-0022, the proposed Pier P1188 and P1189 are very close to the existing railway bridge.	***Bidder is required to refer to GS 104.4-Damage to Existing Property. As bilt drawings are not availabe at present.***
S-07	Volume 2	Sec.4A BoQ		Sec.4A BoQ Electrical Handhole Signaling Handhole		Please provide the specifications and plans(drawings) for 111(88)a. Electrical Handhole and 111(88)b Signaling Handhole	***Please refer to the drawing no. NSRP-DWG-GEN-EL-0004 Rev21.3 and to the Updated BOQ which shall be issued as Addendum 4.***
S-05		Volume 2, Specification GS	GS100 Appendix 4	Contractor's Interface and Coordination with Others		According to GS100 Appendix 4 matrices, the Bidder is required to supply and/or install materials for E&M system interfacing work. However, the Bidder is not able to locate the drawing and associated quantities for these items as shown in the table below. If the Bidder is required to define the relevant work for our estimation, please provide the Bidder with the design criteria and relevant requirement.	***Bidder is referred to Addendum 3 which introduces Provisional Sum for physical interfacing works.***

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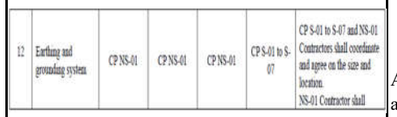
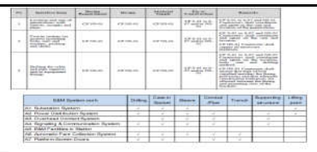
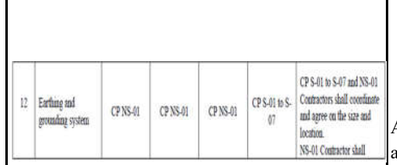
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		Volume 2, Specification GS	GS100 Appendix 4	Contractor's Interface and Coordination with Others A2 Power Distribution System	 12 Earthing and grounding system CP NS-01 CP NS-01 CP NS-01 CP S-01 to S-07 CP S-01 to S-07 and NS-01 Contractors shall coordinate and agree on the size and location. NS-01 Contractor shall	According to GS100 Appendix 4 matrices, the Bidder is required to install "Earthing and grounding system" supplied by E&M System Contractor. However, the Bidder is not able to locate the information associated with the installation of "Earthing and grounding system" within the ITB. Please kindly provide the Bidder with the drawing and associated quantities relevant to this work.	*1) The Civil Works Contractor's scope covers the earthing for each respective Station & Substation Building. Please refer to the Addendum 4 BOQ, Bill Nos. 4-1 to 4-4 and Bill Nos. 6-1 to 6-5; Electrical Works, Earthing System. On the other hand, the Mainline Earthing System shall be covered by the E&M Contractor (or By Others) under Package CP NS-01.* *2) For the Interfacing Works, Please refer to the BOQ, Bill No. 1, Item GS126 and to the General Specifications, Section GS126.*
S-06		Volume 2, Specification GS	GS100 Appendix 4	Contractor's Interface and Coordination with Others		According to GS100 Appendix 4 matrices, the Bidder is required to supply and/or install materials for E&M system interfacing work. However, the Bidder is not able to locate the drawing and associated quantities for these items as shown in the table below. If the Bidder is required to define the relevant work for our estimation, please provide the Bidder with the design criteria and relevant requirement.	*Bidder is referred to Addendum 3 which introduces Provisional Sum for physical interfacing works.*
S-06		Volume 2, Specification GS	GS100 Appendix 4	Contractor's Interface and Coordination with Others A2 Power Distribution System	 12 Earthing and grounding system CP NS-01 CP NS-01 CP NS-01 CP S-01 to S-07 CP S-01 to S-07 and NS-01 Contractors shall coordinate and agree on the size and location. NS-01 Contractor shall	According to GS100 Appendix 4 matrices, the Bidder is required to install "Earthing and grounding system" supplied by E&M System Contractor. However, the Bidder is not able to locate the information associated with the installation of "Earthing and grounding system" within the ITB. Please kindly provide the Bidder with the drawing and associated quantities relevant to this work.	*1) The Civil Works Contractor's scope covers the earthing for each respective Station & Substation Building. Please refer to the Addendum 4 BOQ, Bill Nos. 4-1 to 4-3 and Bill Nos. 6-1 to 6-4; Electrical Works, Earthing System. On the other hand, the Mainline Earthing System shall be covered by the E&M Contractor (or By Others) under Package CP NS-01.* *2) For the Interfacing Works, Please refer to the BOQ, Bill No. 1, Item GS126 and to the General Specifications, Section GS126.*
S-04		Vol. 2 Sec 6 IC General Specfication	GS 42	115.4		When the Contractor can work during construction time, testing of inspection by the Engineer can be conducted at nightshift or on holiday? Thus, overtime fee can be paid to the Engineer. Please, clarify who pays it.	*The Contractor will not be required to pay Engineer fees.However, the Contractor will be required to provide the Engineer advance notice of out of hours working*
S-05		Vol. 2 Sec 6 IC General Specfication	GS 42	115.4		When the Contractor can work during construction time, testing of inspection by the Engineer can be conducted at nightshift or on holiday? Thus, overtime fee can be paid to the Engineer. Please, clarify who pays it.	*The Contractor will not be required to pay Engineer fees.However, the Contractor will be required to provide the Engineer advance notice of out of hours working*

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Vol. 2 Sec 6 IC General Specfication	GS 42	115.4		When the Contractor can work during construction time, testing of inspection by the Engineer can be conducted at nightshift or on holiday? Thus, overtime fee can be paid to the Engineer. Please, clarify who pays it.	***The Contractor will not be required to pay Engineer fees.However, the Contractor will be required to provide the Engineer advance notice of out of hours working***
S-07		Bid Bulletin No. 14 and Bid Bulletin No. 15			Addendums and Plans	Following the responses in the GBB 14 and GBB 15, it is stated to refer to Addendums and Drawings. We would like to request copy of the following documents: 1. Bid Addendum 2 and Addendum 3 2. Additional Drawings and Revised Drawings	***Bidder is referred to the contents of Addendum 2 and 3 published on the DOTr website.***
S-07		Volume 2 Specifications TS 700 Electrical Works	139 - 140	TS 715.1.3 Devices	TS 715 provides three specifications for CCTV to be implemented on site. Bid Drawings provides basic specifications for CCTV to be used. 1) Outdoor Type CCTV 2) Dome Type CCTV. Fixed Type 3) Dome Type CCTV with PTZ (pan-tilt-zoom)	Please verify which of the specifications will govern.	***Bidder is advised that the scope of CCTV is with E&M Contractor while Access Control remians the scope of the Civil Contractor. Bidder to refer to Addendum 3.***
S-04		Volume 2	GS133(1), GS133(2), GS133(3)	Trees	Bill of Quantities - GS 133 Enabling Works	Bill items GS133(1), GS133(2) and GS133(3) quantities are all in LS. Information from SCRP_EIS_VOLUM_1_2_26-Jun-2020.pdf and 2.4 SCRP_Supplementary Information 201119.pdf do not provide the quantities and sizes of trees to be placed against each item. Please clarify.	***Bidder is referred to Addendum 3 - Provisiuonal Sum introduced for tree cutting.***
S-05		Volume 2	GS133(1), GS133(2), GS133(3)	Trees	Bill of Quantities - GS 133 Enabling Works	Bill items GS133(1), GS133(2) and GS133(3) quantities are all in LS. Information from SCRP_EIS_VOLUM_1_2_26-Jun-2020.pdf and 2.4 SCRP_Supplementary Information 201119.pdf do not provide the quantities and sizes of trees to be placed against each item. Please clarify.	***Bidder is referred to Addendum 3 - Provisiuonal Sum introduced for tree cutting.***
S-05		Volume 2		Historical Site Database and Drawings Information	Please refer to the NSCR-Treatment to Historic Building and Structure Table attached as Annex A	The treatment method of below mentioned documents are not in line: i. Historical Site Data; ii. Drawing VIA05 series iii. Scope of Works Please confirm or clarify	***Bidder is referred to Addendum 3 Provisional Sum for works to Historic Structures***
S-05		Volume 2		Historical Site Database and Drawings Information	Please refer to the NSCR-Treatment to Historic Building and Structure Table attached as Annex A	With reference to the Historic Site Database, the PNR proposal/ decision, the treatment method to the “Retrieve structure” is: 1) Retrieval of Structures if affected, 2) For preservation in current location, which are different with the scope of works ”removed intact, stored and repositioned on site later”. Please clarify. Further, if the mentioned structure needs to be repositioned, where will be the position? Additionally, when shall it be repositioned?	***Bidder is referred to Addendum 3 Provisional Sum for works to Historic Structures***
S-05		Volume 2		Historical Site Database and Drawings Information	Please refer to the NSCR-Treatment to Historic Building and Structure Table attached as Annex A	With reference to the Treatment method in the Historic Site Data, some structures were stated as “May be demolished”. Please define and further clarify the term “may be demolished” ? Will it be demolished by someone or will it be following other treatment method(s)?	***Bidder is referred to Addendum 3 Provisional Sum for works to Historic Structures***
S-06		Volume 2	GS133(1), GS133(2), GS133(3)	Trees	Bill of Quantities - GS 133 Enabling Works	Bill items GS133(1), GS133(2) and GS133(3) quantities are all in LS. Information from SCRP_EIS_VOLUM_1_2_26-Jun-2020.pdf and 2.4 SCRP_Supplementary Information 201119.pdf do not provide the quantities and sizes of trees to be placed against each item. Please clarify.	***Bidder is referred to Addendum 3 - Provisiuonal Sum introduced for tree cutting.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Volume 2		Historical Site Database and Drawings Information	Please refer to the NSCR-Treatment to Historic Building and Structure Table attached as Annex B	The treatment method of below mentioned documents are not in line: i. Historical Site Data; ii. Drawing VIA06 series iii. Scope of Works Please confirm or clarify	***Bidder is referred to Addendum 3 Provisional Sum for works to Historic Structures***
S-06		Volume 2		Historical Site Database and Drawings Information	Please refer to the NSCR-Treatment to Historic Building and Structure Table attached as Annex B	With reference to the Historic Site Database, the PNR proposal/ decision, the treatment method to the “Retrieve structure” is: 1) Retrieval of Structures if affected, 2) For preservation in current location, which are different with the scope of works ”removed intact, stored and repositioned on site later”. Please clarify. Further, if the mentioned structure needs to be repositioned, where will be the position? Additionally, when shall it be repositioned?	***Bidder is referred to Addendum 3 Provisional Sum for works to Historic Structures***
S-04	2	TS 500	TS 500 - 246	523.1.1 Tensile Membrane Roof Structure - General	Membrane supplier has experience of manufacturing and installingpolytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20)years all over the world (including the Philippines), and has installed at more thantwenty (20) MRT stations by using TiO2 membrane roof structure.	Due to a very limited number of Company who has 20 years experience in manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane, may we request the Employer to relax the requirement of "20 years for both Manufacturing and installation, and 20 project installation of MRT stations by using TiO2 membrane roof structure", to 10 years instead provided that the Subcontractor has enough experience for both manufacturing and installation around the world and has installed more than 20 projects but not limited to MRT Stations type, but in a larger scale, to allow for a competitive cost?	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-04	2	TS 408 Steel Structures	TS 400 -95	408.1.2 Inspection	Structural steel will be inspected at the fabrication site	In case the bidder chooses a Steel Fabricator overseas, please clarify if the expenses will be in the Contractor's account. If yes, kindly specify the number of person/s to visit the fabrication site.	***The expenses shall be covered by the bidder. The number of persons to visit the fabrication site shall be six.***
S-07						The bidder(A) is preparing to participate as an unincorporated J/V(A+B) with a local partner(B). Is it acceptable for each J/V member to sign the subcontract with subcontractors under the respective company’s name?(A ~ Subcontractor 1 & B ~ Subcontractor 2) Or does all the subcontracting has to be made under the name of J/V? (A+B ~ Subcontractor 1 & A+B ~ Subcontractor 2)	***As per note in EQC 2.4.2, "If the key activity is to be undertaken by a Specialist Subcontractor, the Employer shall require evidence of the subcontracting agreement from the Bidder." If the Joint Venture has not been legally constituted at the time of Bidding, the Subcontracting Agreement shall be in the name of ALL of the Joint Venture partners.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07	GBB 10	Batch 10	15	Final Response	"The quantities in the BOQ are accurate and measured from Detailed Design. Admeasurement is the measurement of change from Detailed Design to revised Detailed Design and /or Variations as instructed by the Engineer. Further, any obvious errors detected in quantification in the BOQ shall, subject to the agreement of the Engineer, be re-measured and corrected. The Contractor is not expected to take the risk of errors in quantities. Bidder is advised that PCC Clause 1.1.6.12 related to ad-measurement definition will be removed in Addendum 3."	The employer's final response in Batch 10 of GBB 18 about Method of Measurement(Admeasurement) was "The quantities in the BOQ are accurate and measured from Detailed Design. Admeasurement is the measurement of change from Detailed Design to revised Detailed Design and /or Variations as instructed by the Engineer. Further, any obvious errors detected in quantification in the BOQ shall, subject to the agreement of the Engineer, be re-measured and corrected. The Contractor is not expected to take the risk of errors in quantities. Bidder is advised that PCC Clause 1.1.6.12 related to ad-measurement definition will be removed in Addendum 3." Our understanding is that this final response for Method of Measurement(Admeasurement) applies to all packages (S-04, S-05, S-06, S-07). Please confirm that our understanding is correct.	*The bidder's understanding is correct.*
S-04		Volume 2 - Section 6 Appendix 15 BIM Information Management Flow	52	7.7.1 COBie Requirements - Data Collection Strategy	Asset database has Six sources as an input then they are imported to MMS Maximo, MMS team has Provided parameters required from BIM Model refer to BIM MMS ICD document ref	Please confirm if the Employer will be procuring the Maximo system or if this will be procured and maintained through the Contractor. If yes, please provide more details on the maintenance period and scope	*CPNS-01 Contractor will procure and maintain the Software for CMMS. The Contractor to interface with NS-01 with regards inputs of parameters for the BIM Model and MMS-ICD document.*
S-06		TS 500 Tensile Membrane Roof Structure	TS 500-246	523 Tensile Membrane Roof Structure (TMRS)	In TS 523.1.1, 2nd paragraph reads: "Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over 20 years all over the world (including Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure." May the Employer accept to relax the requirement for the manufacturer of PTFE? See proposed revised text.	"Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over 20 years all over the world (including Philippines) and has experience in installation of TiO2 membrane roof structure.	*Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval;* *Amended TS 523.1.1 is in Addendum 5*
S-04		Vol. 2 Part 2 Sec IC TS 500	TS 500 - 246	523 Tensile Membrane Roof Structure (TMRS)	TMRS, PTFE	In reference specfication for TMRS, "Membrane supplier has experience of manugacturing and installing polytetrafluoroethylene(PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrance roof structure." Only one specific subcontractor will be available to satisfy the above specification. If the contractor shall comply strictly with this specification, there is no choice but to place a order this works to a single subcontractor without competition. Therefore, please clarify whether the contractor shall comply with this specification. Or, please clarify whether it will be possible to mitigate the specification for competition with more than three subcontractors.	*Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval;* *Amended TS 523.1.1 is in Addendum 5*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		Vol. 2 Part 2 Sec IC TS 500	TS 500 - 246	523 Tensile Membrane Roof Structure (TMRS)	TMRS, PTFE	In reference specfication for TMRS, "Membrane supplier has experience of manugacturing and installing polytetrafluoroethylene(PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrance roof structure." Only one specific subcontractor will be available to satisfy the above specification. If the contractor shall comply strictly with this specification, there is no choice but to place a order this works to a single subcontractor without competition. Therefore, please clarify whether the contractor shall comply with this specification. Or, please clarify whether it will be possible to mitigate the specification for competition with more than three subcontractors.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 is in Addendum 5***
S-05		-	2	TS Update Table Batch 05 Query No.721 TS 201 Annex A	"Shored excvation measured by offset of 1meter both side from the face of the structure and the total depth is measured from bottom of lean concrete up to the existing ground level. Open excavation is not applicable due to limited ROW."	Based on the drawings reference no.NSRP-DWG-VIA05-ST-0301, contractor shall install 200mm THK crushed gravel below the lean concrete. As we understand, contractor shall excavate upto bottom level of crushed gravel, please clarify these volume of excavation considered the measurement or not.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4.***
S-06		Vol. 2 Part 2 Sec IC TS 500	TS 500 - 246	523 Tensile Membrane Roof Structure (TMRS)	TMRS, PTFE	In reference specfication for TMRS, "Membrane supplier has experience of manugacturing and installing polytetrafluoroethylene(PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrance roof structure." Only one specific subcontractor will be available to satisfy the above specification. If the contractor shall comply strictly with this specification, there is no choice but to place a order this works to a single subcontractor without competition. Therefore, please clarify whether the contractor shall comply with this specification. Or, please clarify whether it will be possible to mitigate the specification for competition with more than three subcontractors.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 is in Addendum 5***
S-05		Vol.2	GS - 93	GS 125 LIAISON WITH OTHERS	The Contractor shall make all necessary arrangements with and obtain all necessary approvals from Government departments, utility agencies and other relevant/competent authorities.	Please confirm who will pay for the incoming fee of water, power, and communications.	***Bidder is advised that payment for obtaining all necessary approvals and permits from Government Agencies rests with the Contractor.***
S-05		Vol 2. Sec.6 IB Appendix 15	3	4D Modeling	Update to include 4D modeling for SC Contract Packages Only	The BIM Information Management published in Addendum 2 contains contents related to 4D model. Does the employer's BIM requirement include 4D model? Then, when and how many times does contractor have to submit the 4D model? Please check the exact BIM requirements.	***4D model will be used for visualization purposes only and will be submitted upon request of the Employer.***
S-05		Vol 3.	Section 8 Attachment 1	Summary of Key Dates		Which Key Date shall be applicable for completion of Drainage System and Maintenance Road?	***Bidder shall refer for the Completion fo Drainage System and Maintenance Road to the Key Date 08.***
S-05		Vol 3.	Section 8 Attachment 1	Summary of Key Dates	KD 02-1, KD 02-2, KD 02-3 "…. Continuous 3,000 / 6,000 / 9, 000 metres…."	Please clarify that the length of continuous viaduct means sum of the length of all single line track. e.g) where 3 line tracks is, continuous viaduct length = length of North Bound viaduct + length of Main line viaduct + length of South Bound viaduct	***The wording of KD has been amended in Addendum 3. The length of continuous viaduct means the length of viaduct in single structure not measured by length of track.***
S-06		CP S-06	GS - 93	GS 125 LIAISON WITH OTHERS	The Contractor shall make all necessary arrangements with and obtain all necessary approvals from Government departments, utility agencies and other relevant/competent authorities.	Please confirm who will pay for the incoming fee of water, power, and communications.	***Bidder is advised that payment for obtaining all necessary approvals and permits from Government Agencies rests with the Contractor.***

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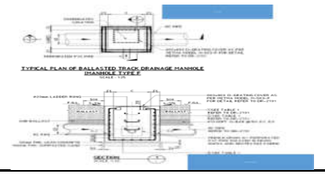
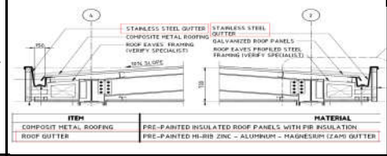
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Vol 2. Sec.6 IB Appendix 15	3	4D Modeling	Update to include 4D modeling for SC Contract Packages Only	The BIM Information Management published in Addendum 2 contains contents related to 4D model. Does the employer's BIM requirement include 4D model? Then, when and how many times does contractor have to submit the 4D model? Please check the exact BIM requirements.	*4D model will be used for visualization purposes only and will be submitted upon request of the Employer.*
S-06		Vol 3.	Section 8 Attachment 1	Summary of Key Dates		Which Key Date shall be applicable for completion of Drainage System and Maintenance Road?	*Bidder shall refer for the Completion fo Drainage System and Maintenance Road to the Key Date 08.*
S-06		Vol 3.	Section 8 Attachment 1	Summary of Key Dates	KD 02-1, KD 02-2, KD 02-3 "…. Continuous 3,000 / 6,000 / 9, 000 metres…."	Please clarify that the length of continuous viaduct means sum of the length of all single line track. e.g) where 3 line tracks is, continuous viaduct length = length of North Bound viaduct + length of Main line viaduct + length of South Bound viaduct	*The wording of KD has been amended in Addendum 3. The length of continuous viaduct means the length of viaduct in single structure not measured by length of track.*
S-07		CP S-07	GS - 93	GS 125 LIAISON WITH OTHERS	The Contractor shall make all necessary arrangements with and obtain all necessary approvals from Government departments, utility agencies and other relevant/competent authorities.	Please confirm who will pay for the incoming fee of water, power, and communications.	*Bidder is advised that payment for obtaining all necessary approvals and permits from Government Agencies rests with the Contractor.*
S-07		Bid Bulletin No. 17 and Bid Bulletin No. 18			Addendums and Plans	Following the responses in the GBB 17, GBB 18, GBB20, and GBB21, it is stated to refer to Addendums and Drawings. We would like to request copy of the following documents: 1. Bid Addendum 3 and Addendum 4 2. Additional Drawings and Revised Drawings	*Bidders are advised that it is anticipated that Tender Addendums 3 and 4 will be issued week commencing 24th May 2021*
S-07		GBB 21 Volume 02, Book 1 (Civil) 04_CP S-07_DPSFE	page 43 of 69 148 of 214 145 of 214	NSRP-DWG-DEP-DR-2705 NSRP-DWG-DEP-DR-2701 Manhole TYPE F		As per GBB 21, Reinforcements from DR-2701 will govern, drawings will be updated. QUERY: a. As per DR-2701 plan is each face while section is single face. Please verify conflict between plan and section of reinforcement details for Manhole Type F. Which will govern	*The plan for the manhole in NSRP-DWG-DEP-DR-2705 is revised in REV21.3 to reflect the reinforcement in 2701, in Addendum 5.*
S-07		Volume 2 Part II Section 6 IC Technical Specification Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	TS 200 - 33 Bill No. 4-1.1 Bill No, 4-1.2 Bill No. 4-2.1 Bill No. 4-2.20	TS 201. 4 Backfill and Embankment for Structures	TS 201.4.3 Backfill for Structures Excavated areas around structures shall be backfilled with the specified material approved by the Engineer and placed in horizontal layers not over 150 mm in thickness, to the level of the original ground surface with a sufficient allowance for settlement.	Other Building Structures have pay item 201(4)d Backfill in the BOQ. For the following Building please provide pay item for Backfilling works. a. 4-1.1 OCC b. 4-1.2 LRS c. 4-2.1 URS d. 4-2.20 Canteen	*The BOQ shall be revised to include work item for 201(4)d in the Bill Nos. 4-1.1, 4-1.2, 4-2.1 and 4-2.20. Updated BOQ shall be issued as Addendum 4.*
S-07		Volume 2, 02_Book 2, 01_S07 ARCH, CP S-07_23_AR_CNT	NSRP-DWG-CNT-AR-3311 NSRP-DWG-CNT-AR-3601	Canteen Building Architectural - Bay Section and Details Canteen Building Architectural - Schedule of Finishes Roof Gutter		Please confirm which material for roof gutter shall govern. As reflected on NSRP-DWG-CNT-AR-3311 (Bay Section and Details) it is stainless steel, while on NSRP-DWG-CNT-AR-3601 (Schedule of Finishes), it is Hi-rib ZAM gutter.	*Hi-rib ZAM gutter will govern, refer to CNT-AR-3311 Rev 21.3 in Addendum 5.*
S-07		GBB 14	Page 68 of 76	TS 201 Structural Excavation and Backfill	Please refer to TS Annex PINS submitted February 2,2021. 201(4)e Foundation Fill	Backfill materials are from excavated materials or selected borrow materials while foundation fill are granular materials. 1) Please provide pay item for foundation fill	*The Bidder is advised that there is no required foundation fill as per the drawings.*

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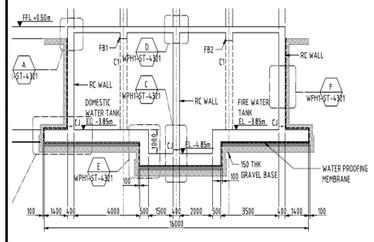
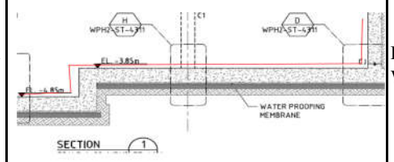
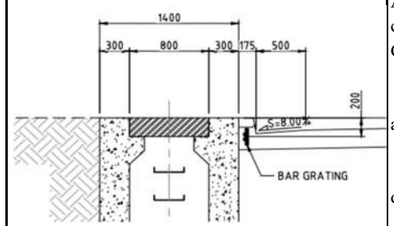
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07		GBB 14	Page 68 of 76	TS 103 Embankment; TS103.1.1 TS 103.2	Please refer to TS Annex PINS issued in Addendum 2 103(4) Crushed Gravel Fill 103(1)a Embankment (Using Common Excavation Soil)	Material cost of Crushed gravel and Selected Borrow Topping is different. 1) Please provide pay item for crushed gravel fill 2) Please provide pay item for selected borrow topping	*1. Use PIN 107(1)---Sub-ballast for CP S-07 and PIN 107(2)---Crushed Gravel Fill for CP S-01 to CP S-06* *2. Use PIN 103(1)c ---Embankment for At grade section for Depot (Selected Borrow Material) for CP S-07 and PIN 103(1)a---Embankment (Selected Borrow Materials) for CP S-01 to CP S-06.*
S-07		Volume 2, 02 Book 2 (Architectural), 01 S07 Struc	4 of 9	NSCRP-DWG-WPH1-ST-4201 Supply & Fire Water Tank 1 Waterproofing Membrane		Please confirm that no Waterproofing required in the Interior side of Tank. Waterproofing is for Exterior only	*There are waterproofing for both exterior and interior:* *1. The Technical specifications of the Exterior waterproofing are on TS400 section 405.4.6.* *2. For interior waterproofing, refer to NSRP-DWG-WHP1-AR-3202 Rev21.3 in Addendum 5*
S-07		Volume 2, 02 Book 2 (Architectural), 01 S07 Struc	3 of 5	NSCRP-DWG-WPH1-ST-4201 Supply & Fire Water Tank 1 Waterproofing Membrane		Please confirm that no Waterproofing required in the Interior side of Tank. Waterproofing is for Exterior only	*There are waterproofing for both exterior and interior:* *1. The Technical specifications of the Exterior waterproofing are on TS400 section 405.4.6.* *2. For interior waterproofing, refer to NSRP-DWG-WHP2-AR-3202 Rev21.3*
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310		Bill of Quantites No. 4-2.2 Wheel Re-Profiling Shop BOQ Bill No. 2 PART F MISCELLANEOUS STRUCTURES	CONDUIT AND CABLE TRAYS Handhole 1000mmLx1000mmWx1200mmH Refer to sheet NSRP-DWG-DEP-EL-5104 v21.3 in Addendum 3. Refer to updated sheet NSRP-DWG-GEN-EL-0004 to be issued as v 21.3 in Addendum 3.	Please provide Plans and details of Electrical Handhole	*Overall handhole locations on site development plan is scope of CP NS-01(E&M). For handhole details ,Refer to NSRP-DWG-GEN-EL-0004 v21.3*
S-07		GBB 16 Volume 2, 02 Book 1 (CIVIL), 04 CP S07 DPSFE	Page 28 of 93 151	NSRP-DWG-DEP-DR-2709 As per BB 16 response, Refer to TS 111 MANHHOLES, INLETS AND CATCH BASINS. Manhole Detail Type I		As per TS 111, Frames, Gratings Covers and Lader Rungs - Metal units shall conform to the drawing dimensions and to the following Specifications: Metal Gratings, Pre Cast Concrete Units. 1. There are no type of manhole not indicated in the drawing. Please provide details and specification of cover 2. There is a difference in the dimension in the schedule and in the detailed drawings. Which shall govern? Based on the shedule , Ct = 0.25 & 0.20 Based on the standard details Type I, Ct=0.30	*1. Manhole types are indicated in DR-2015 to DR-2023, manhole cover details are in DR-2721* *2. Ct is 0.30 in NSRP-DWG-DEP-DR-2015, revised as 21.3*

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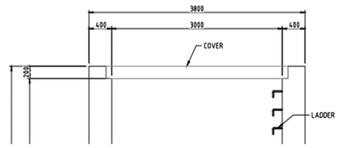
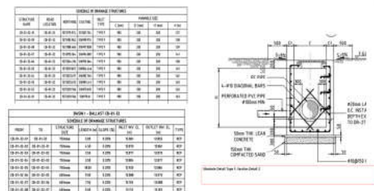
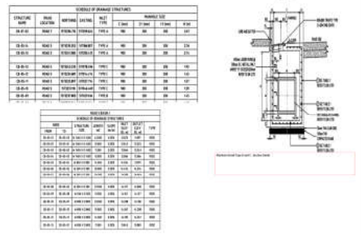
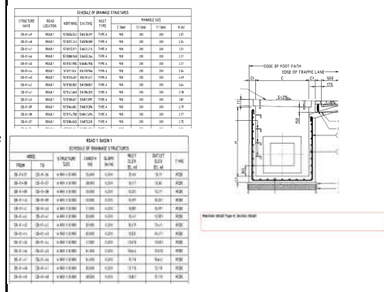
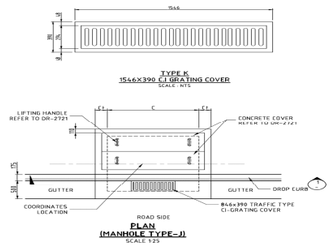
S-07		GBB 16 Volume 2, 02 Book 1 (CIVIL), 04 CP S07 DPSFE	Page 29 of 93 155	NSRP-DWG-DEP-DR-2714 As per BB 16 response, Refer to TS 111 MANHHOLES, INLETS AND CATCH BASINS. Manhole Detail Type M		As per TS 111, Frames, Gratings Covers and Lader Rungs - Metal units shall conform to the drawing dimensions and to the following Specifications: Metal Gratings, Pre Cast Concrete Units. 1. There are no type of manhole not indicated in the drawing. Please provide details and specification of cover 2. There is a difference in the dimension in the schedule and in the detailed drawings for pay item 111(5)bz. Which shall govern? Based on the shedule C = 1.5 Based on the standard details, C = 3.0	***1. Manhole types are indicated in NSRP-DWG-DEP-DR-2015 to 2023 REV21.3, Manhole cover details are in NSRP-DWG-DEP-DR-2721 REV21, 2. C is 3.0m, shown in NSRP-DWG-DEP-DR-2017 REV21.3***
S-07		Volume 2, Section 6, 02_Book 1 (Civil), 04-CP S-07 DPSFE	Manhole Detail Type F: Section Detail 2 Setting Out Point Schedule Sheet 3 Drainage Structure Schedule 7	NSRP-DWG-DEP-DR-2705 NSRP-DWG-DEP-DR-2020 NSRP-DWG-DEP-DR-2011		Based on Schedule dimension as follows: C = 900mm Pipe Size = 750mmØ If Manhole detail in Sheet DEP-DR-2705 Dimension will be used: C=750mmØ+300mm+300mm = 1350mm Query: Please verify conflict in Manhole size clear width (C) based on schedule is 900mm but as per detail is 1,350mm. which shall govern.	***The minimum clear inside dimensions of the catchbasin/manhole is 900mm. There will be no 300mm dimension for RCBC, only for pipes. The detail in NSRP-DWG-DEP-DR-2702 and affected sheets in NSRP-DWG-DEP-DR-2015 to NSRP-DWG-DEP-DR-2023 is revised as 21.3***
S-07		Volume 2, Section 6, 02_Book 1 (Civil), 04-CP S-07 DPSFE	NSRP-DWG-DEP-DR-2702 NSRP-DWG-DEP-DR-2016 NSRP-DWG-DEP-DR-2011	Manhole Detail Type B and C: Section Detail Setting Out Point Schedule Sheet 2 Drainage Structure Schedule 7		Based on Schedule dimension as follows: MH schedule = CB-05-13, Type C C = 900mm RCBC Size = 800mm x 800mm If Manhole detail in Sheet DEP-DR-2705 Dimension will be used: C=800mm+300mm+300mm = 1400mm Query: Please verify conflict in Manhole size clear width (C) based on schedule is 900mm but as per detail is 1,400mm. which shall govern.	***The minimum clear inside dimensions of the catchbasin/manhole is 900mm. There will be no 300mm dimension for RCBC, only for pipes. The detail in NSRP-DWG-DEP-DR-2702 and affected sheets in NSRP-DWG-DEP-DR-2015 to NSRP-DWG-DEP-DR-2023 is revised as 21.3***
S-07		Volume 2, Section 6, 02_Book 1 (Civil), 04-CP S-07 DPSFE	NSRP-DWG-DEP-DR-2015 NSRP-DWG-DEP-DR-2016 NSRP-DWG-DEP-DR-2017 NSRP-DWG-DEP-DR-2005	Manhole Detail Type A: Section Detail Setting Out Point Schedule Sheet 1 - 3 Drainage Structure Schedule 1		Based on Schedule dimension as follows: Sample: MH schedule = CB-01-49 ,Type A C = 900mm RCBC Size = 800mm x 800mm If RCBC Thk will be included ; C=800mm+300mm+300mm = 1400mm Query: 1. Please verify conflict in Manhole size clear width (C) based on schedule is 900mm but as per detail is 1400mm . which shall govern. 2. Please verify conflict on the dimension of clear width 'C' of Manhole and the dimension of the RCBC and RCP Pipes for all Manhole Types	***The minimum clear inside dimensions of the catchbasin/manhole is 900mm. There will be no 300mm dimension for RCBC, only for pipes. The detail in NSRP-DWG-DEP-DR-2702 and affected sheets in NSRP-DWG-DEP-DR-2015 to NSRP-DWG-DEP-DR-2023 is revised as 21.3***
S-07		Volume 2, Section 6, 02_Book 1 (Civil), 04-CP S-07 DPSFE		Manhole Type K : C.I. Grating Cover 1546 x 390 Conflict on the dimension of the C.I. Grating Cover and the dimension of clear width "C" of Manhole Type K		Based on schedule, dimension are as follows: C = 1200mm Thk of Manhole = 150mm C.I. Grating Cover = 1546mm Based on the schedule, the top slab dimension will be Top Slab = 1200+150+150 = 1500mm Query: Please verify conflict, based on the schedule Manhole size is 1500mm but the C.I. Grating Cover is 1546mm.	***C for Manhole Type K is 1500mm shown in DR-2710 submitted last 18 Mar 2021 but its length shall be 2150mm. DR-2018 is revised as 21.3***

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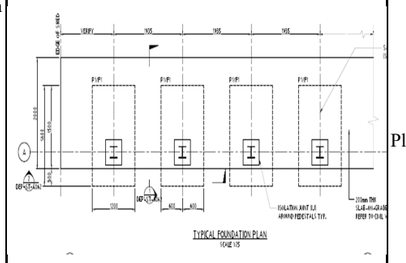
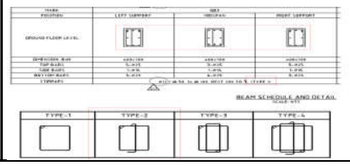
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07		Volume 02, _Book 2 (Architectural), 01_S07 ARCHI, CP-S 07_02_AR_LRS	NSRP-DWG-LRS-AR-3611 NSRP-DWG-LRS-AR-3631	Schedule of Doors Key Plan Schedule of Door	D6: 1000x2100mm Single-Leaf Fire-Rated Steel Flush Door W/ 8mm Thk. Fire Glass; In Flourourethane Oven-Baked Fin. Steel Sheet +=1.6 Frame D3: 2000x2100mm Double-Leaf Fire-Rated Steel Flush Door w/ 8mm Thk Fire Glass; In Flourourethane Oven-Baked Fin. Steel Sheet +=1.6 Frame	For Rm. 106: Pantry, please verify which shall govern.	***D3: 2000x2100mm Double-Leaf Fire-Rated Steel Flush Door w/ 8mm Thk Fire Glass; In Flourourethane Oven-Baked Fin. Steel Sheet +=1.6 Frame " will govern, refer to NSRP-DWG-LRS-AR-3611 Rev21.3***
S-07		Volume 1, 01_Specifications, 02_TS, SCRP_TS 500	259 of 495	TS 526 Metal Doors and Frames (and Windows)	All metal Doors / Frame and Windows including glass and louvers for the facilities in the Depot Area shall be of 2 hours fire-resistant.	As per TS 526, all metal doors shall be 2 hours fire resistant. As per our suppliers, only solid metal doors without louvers and glass can be 2hours Fire Rating. Please verify if 1.5 hours fire rating for metal doors with louvers and glass can be considered.	***1.5-hour fire-rating door can be considered since there is an installed Automatic Fire Sprinkler or Fire Suppression System in the Depot; Updated TS 526.1 Section issued in Addendum 5***
S-07		Volume 2 S-07 Addendum 2, 02_Book 2 (Archi Drawings), 2_Structures, CP S-07_00_DEP_ST Volume 1 S-07 Addendum 2, 1.3 CP S-07 Vol.1A Sec.4A BOQ 20210310, BILL OF QUANTITIES No. 4-3.2	a. NSRP-DWG-DEP-ST-4061_[21.2] b. BILL OF QUANTITIES No. 4-3.2, Pedestrian Shed	Pedestrian Shed Foundation Plan and Reinforcement Details BOQ No. 4-3.2 405(6)b - Structural Concrete, Class "AAA" (31 Mpa) for tie beam (At-Grade Beam) - 482.00 cum		Please provide drawing and details of tie beam. It is not reflected on plan.	***There is no provision of concrete tie-beam for the Pedestrian Shed. PIN 405(6)b to deleted in the BOQ. Revised BOQ issued in Addendum 5.***
S-07		Bid Bulletin 11 Addendum#1, Volume 2, 02_Book 2, 02_S07 STRUC, CP S-07_09_TGB_ST	NSRP-DWG-TGB-ST-4306_[21.1]	Truck Garage Building Structural - Foundation Girder and Beam Schedule Beam Type for Stirrups		As per schedule, Beam Type for GB3 and GB4 shall be Type 1 but it is illustrated on drawing as Type 2. Please verify which shall govern.	***Use Type 2 stirrups for GB3 and GB4. NSRP-DWG-TGB-ST-4306 to be updated to rev 21.3***

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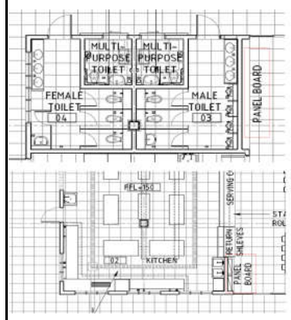
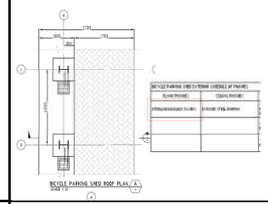
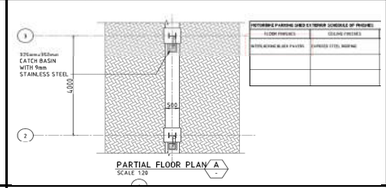
S-07		Volume 2, 02_Book 2, 01_S07 ARCH, CP S-07_23_AR_CNT	NSRP-DWG-CNT-AR-3101	Canteen Building Panel Board		Panel Board is indicated in plan. 1. Please provide details. 2. Please provide pay item	*1) Details for Panelboard is indicated in drawing NSRP-DWG-CNT-AR-3101, rev. 21.3 are already included in Addendum 4 BOQ in accordance to drawings NSRP-DWG-CNT-EL-5051 rev. 21.3 and for load schedule of panel boards,refer to NSRP-DWG-CNT-EL- 5012 , rev. 21.3.NSRP-DWG-CNT-EL- 5014 , rev. 21.3* *2) Pay items for Panelboards are PINs D706(19)a to D706(19)d, under Bill No. 4-2.20, Part F.5 - Electrical Works based on drawings NSRP-DWG-CNT-EL- 5012 & 5051, rev. 21.3* *The pay items are already included in Addendum 4 BOQ.*
S-07		Volume 2, 02 Book 2 (Architectural), 01 SO7 ARCH	4 of 4	NSRP-DWG-BPS-AR-3601 Bicycle Parking Shed		1. Please confirm our understanding that the floor finish for Uncovered Bicycle Parking Shed is Interlocking Block Paver similar to Covered Bicycle Parking Shed. 1.a If Yes, provide location and details 2. Please provide pay item for Interlocking Block Pavers for Bicycle Parking Shed	*1. Interlocking block paver is applicable at covered parking only refer to BPS-AR-3601 rev21.3* *2. BOQ to be updated to include pay item for Interlocking Block Pavers as shown in NSRP-DWG-BPS-AR-3601, rev. 21.2*
S-07		Volume 2, 02_Book 2, 01_S07 ARCH, CP S-07_19_AR_MPS	4 of 4	NSRP-DWG-MPS-AR-3601 Motorbike Parking Shed		1. Please confirm our understanding that the floor finish for Uncovered Motorbike Parking Shed is Interlocking Block Paver similar to Covered Motorbike Parking Shed. 1.a If Yes, provide location and details 2. Please provide pay item for Interlocking Block Pavers for Motorbike Shed.	*1. Interlocking is applicable at covered parking only refer to MPS-AR-3601* *2. BOQ to be updated to include pay item for Interlocking Block Pavers as shown in NSRP-DWG-MPS-AR-3601*
S-06		Volume 2 Section 6 II Drawings	CP S-06 :BR215	NSRP-DWG-BR215-ST-0021	High water level of San Cristobal River	There is not any descriptions for the high water level (H.W.L) of San Cristobal River. Please provide the high water level (H.W.L) of San Cristobal River.	*As per the the Hydraulic Analysis result for San Cristobal River, the high water level (H.W.L) of San Cristobal River is 10.78m.* *NSRP-DWG-BR215-ST-0021 revised in Addendum 5 to show the HWL in profile.*
S-04		Volume 2			Rooms with Noise Criteria (NC)	Please provide equivalent sound level (dB) for Rooms which requires which have required Noise Criteria.	*Please refer to TS 605.1.3 Item No. 1 Sound Pressure Level.*
S-06		Volume 2		Mechanical - HVAC Units		Please confirm if Item 10 on TS 604.1.4 General is applicable to units that will be supplied to NSCR.	*There is no item 10 on TS 604.1.4 it should be 604.2.1.1. Please refer to the update TS 604.2.1.1.*
S-06		Volume 2		Rooms with Noise Criteria (NC)		Please provide equivalent sound level (dB) for Rooms which requires which have required Noise Criteria.	*Please refer to TS 605.1.3 Item No. 1 Sound Pressure Level.*

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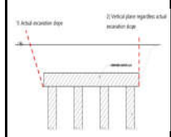
S-06				Concrete Temperature	GBB 20, 13 April 2021	Please confirm what type elements of the concrete are requiring the pre-cooling and/ or post cooling. The type of elments should be included, pile, pile cap, column, pier head, precast sgemental, cast in situ bridge, balanced cantilever bridge, precast parapet, upstand wall and protective concrete. If this is in relation to the size of the cross-section, please advice the detailed dimension.	*"The maximum temperature of fresh concrete at time of placing should be between 26 to 30 degree C and should be achieved through normal precautions at the mixing plant, for working in hot, humid climates.* *The Contractor shall comply with the recommendations of TS200 Clause 206.7.8.4 with regard to pre-cooling and TS200 206.7.8.5 and TS200 Clause 206.7.8.5 regarding the cooling of the concrete.* *At no stage during the concreting process should the temperature of the fresh concrete exceed 35 degree C.* *"*
S-07	Volume 2	Sec.6 ERQ		C. Technical Specification TS200 Annex A 201. Structure Excavation and Backfill	201.1.1.1 Structure Excavation and Backfill The measurement for payment of backfill, foundation fill shall be the volume in "cubic meter" measured in final position of the special granular material actually provided and placed below the foundation elevation of structures as specified, completed in planes and accepted by the Engineer.	What is measurement plane for structure excavation and backfill in case of open cut? Please kindly define which plane in the following picture will be used for measurement? 1) Actual excavation slope at certain stable angle or 2)Vertical plane regardless actual excavation slope angle.	*Bidder is advised to refer to TS 201.1.1.1 in Addendum 4*
S-07	Volume 2	Sec.6 ERQ		B12. Drainage Standard Details '- NSRP-DWG-DEP-DR-2732 - NSRP-DWG-DEP-DR-2733 - NSRP-DWG-DEP-DR-2734 - NSRP-DWG-DEP-DR-2743 - NSRP-DWG-DEP-DR-2744		Please confirm concrete box culvert, perimeter U ditch, Underpass drainage, Flared headwall, Realigned NIA canal will be paid under following pay items; 201(4)b Structural Excavation for drainage pipe and perimeter drainage in depot 201(4)d Backfill 206(6)c Structural cast in site concrete 28Mpa, for perimeter drain 206(6)d Structural cast in site concrete 28Mpa, for drainage channel 206(10)d Blinding layer concrete/lean concrete(t=50mm) 15 Mpa for Drainage channel in main line and depot, including compacted sand layer (t=150mm) 207(1)e Reinforcing steel grade 40 for drainage (main & transcerse) 207(1)b Reinforcing steel grade 40 for drainage (main & transcerse)	*Concrete Box Culvert, Perimeter U ditch, and Flared Headwall shall be paid under Part A and Part B Pay items: 201(4)b, 201(4)d, 206(6)c, 206(6)d, 206(10)d, 207(1)e and 207(1)b.* *Underpass Drainage shall be paid under Part D Pay items: 201(4)f,201(4)d,206(10)f,206(10)d, 207(1)e and 207(1)b.* *NIA Canal is paid under Part F Pay items: 201(4)b2,201(4)d,206(6)d2,206(10)d1 and 207(1)f.*

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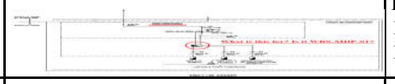
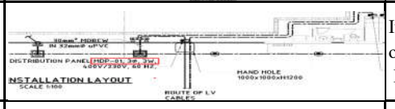
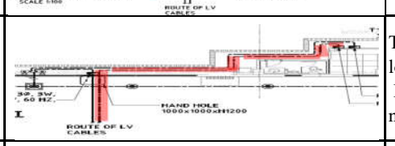
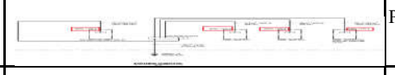
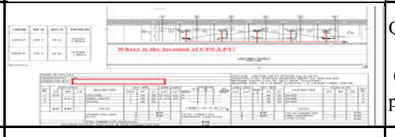
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07	Volume 2	Sec.4A BoQ & 02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5021 The length of D703(1)a 4C x 250sqmm XLPE/PVC + 1C x 125sqmm TW(G)		According to the BOQ, the length of D703(1)a, D4C x 250sqmm XLPE/PVC + 1C x 125sqmm TW(G) cable is defined as 64m. Does it represent the distance from which part to which part? If it represents the distance between the OCC building and WRS building, it shall be about 300m. Please clarify it.	*1)The BOQ Quantity for Bill No. 4-2.2, Item D703(1)a is for the WRS Building only, and consistent with the Electrical Works Drawing No. NSRP-DWG-WRS-EL-5231 Rev21.3.* *2)The Bidder is advised / informed that the Main Feeder Works and the interconnection shall be the scope of the E&M Contractor or "By Others". Please refer to drawing no. NSRP-DWG-GEN-EL-0004 Rev21 (re: Main Feeder Schedule for Small Buildings).*
S-07	Volume 2	Sec.4A BoQ & 02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5021 Wire connection between MDP and DB01		Please confirm who has the scope of cabling work between MDP-01 and DB01?	*Refer to NSRP-DWG-WRS-EL-5021 rev 21.3 for demarcation of scope of work.*
S-07	Volume 2	02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5021 MDP		The configuration in SLD is not clear. Is the panel marked with a Red circle WRS-MDP-01? If no, what is it?	*Bidder to please clarify to what specific part or component you rae referring with the red circle.*
S-07	Volume 2	02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5081 3P, 3W		It seems that the 3phase, 4W + G of cable configuration shall be considered instead of 3 phase, 3W. Please confirm.	*Confirmed 4W+G.NSRP -DWG-WRS-EL-5081 to be revised as rev 21.3 .*
S-07	Volume 2	02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5081 Wiring diagram		The configuration of wiring diagram is not the same as the definition of panelboard load schedule. Please confirm if the earthing installation diagram and wiring diagram are correct or not.	*NSRP-DWG-WRS-EL-5081 is earthing and lightning protection layout plan; This specific drawing does not tell configuration wiring diagram.*
S-07	Volume 2	02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5081 Panel enclosure		Please confirm the specification of panel enclosure is NEMA-TYPE9.	*No. Panel enclosure is only NEMA-tYPE 2. Refer to revised NSRP-DWG-WRS-EL-5231 rev 21.3*
S-07	Volume 2	02_Book 2 03_S07 ELEC		NSRP-DWG-WRS-EL-5231		The panel load schedule for the panel "UNDERFLOOR WHELL REPROFILING LATHE" is not defined in the planning. Please provide the panelboard load schedule for	*Refer to drawing NSRP-DWG-WRS-EL-5231 rev 21.3*
S-07	Volume 2	02_Book 2 03_S07 ELEC		DWG-FPH1-EL-5051		Please confirm the specification of panel enclosure is NEMA-TYPE7.	*Confirmed, it is classified as a hazardous location because of the atmosphere whereas combustible gas is present.*
S-07	Volume 2	02_Book 2 03_S07 ELEC		DWG-CPS-EL-5181		Q1) Please specify the location of CPL-LP1. Q2) Please clarify the incoming feeder source (CONNECTION BASE) of CPS-LP1 panel.	*Q1) Refer to revised drawing NSRP-DWG-CPS-EL-5181 rev 21.3* *Q2)Feeder source will be fed from DB-01.*
S-07	Volume 2	Sec.4A BoQ		BOQ Bill No. 4-2.9		Please confirm the specification of following power cable applied to TMO as defined in BOQ Bill No. 4-2.9 is THHN, not XLPE/PVC. D703(3)c, 4C x 30sqmm THHN + 1C x 22sqmm TW(G) D703(3)b, 4C x 14sqmm THHN + 1C x 8.0sqmm TW(G)	*It is confirmed that the TMO wires and cables for Item Nos. D703(3)c and D703(3)b are as described in the Updated BOQ, Bill No. 4-2.9. Updated BOQ shall be issued as Addendum 5.*

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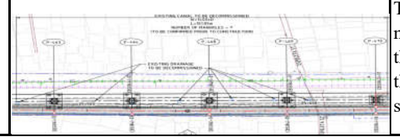
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07	Volume 2	01_Specifications SCRP_TS 500		557.3.7		Please confirm the maintenance service only applies to Elevators and not to Escalators.	*It also applies to escalators. Refer to TS 558.3.21 (Maintenance Service) in Addendum 4*
S-07	Volume 1	Sec.4A BoQ		D618(2) Waste Water Treatment Plant		There is no definition of electrical load for WWTP in the PANELBOARD LOAD SCHEDULE drawing of each building where WWTP will be installed. Please clarify it.	*Refer to NSRP-DWG-CNT-EL-5012 rev 21.3, NSRP-DWG-WRS-EL-5231 rev 21.3, NSRP-DWG-TMO-EL-5031 rev 21.3, NSRP-DWG-CMV-EL-5031 rev 21.3, NSRP-DWG-SH1-EL-5031 rev 21.3, NSRP-DWG-OCC-EL-5670 rev 21.3, NSRP-DWG-LRS-EL-5670 rev 21.3*
S-07	Volume 1	Sec.4A BoQ		D618(2) Waste Water Treatment Plant		Please confirm where the installation location of the WWTP control panel and what the specification is.	*The location and specification of WWTP control panel would be by subcontractor specialist. For WWTP specification please refer to TS 618.*
S-07	Volume 1	Sec.4A BoQ		D618(2) Waste Water Treatment Plant		Please confirm pay items for conduits and cables between WWTP and its feeder are considered in the BOQ.	*Please refer to the updated Technical Specifications, TS 600_Annex A, Section 618-Waste Water Treatment Plants, Sub-section 618.1, Clause 618.1.1-Method of Measurement, Item Nos. (5) and (8). Updated Technical Specifications shall be issued as Addendum 4.*
S-07	Volume 2	Sec.6 ERQ	TS100-26	C. Technical Specification (TS) 103.2 Material Requirement	Selected Borrow, for topping – soil of such gradation that all particles will pass a sieve with 75mm square openings and not more than 15% by mass will pass the 0.075mm (No. 200) sieve, as determined by AASHTO T 11. The material shall have a plasticity index of not more than 6 as determined by AASHTO T 90 and a liquid limit of not more than 30 as determined by AASHTO T 89.	Material requirement for Selected borrow, for topping is too strict to find appropriate material source in this volcanic soil area. Even potential soil borrow pits presented in SITE DATA turned out to fail to meet its requirement. What is specific usage of this material in S-07 and related pay item in BOQ?	*The Bidder is advised to refer to the updated, Itemized BOQ, Bill No. 2 Addendum 4 and to the applicable drawings in conjunction with the Technical Specifications. Please note that there is no required work item for selected borrow for topping.*
S-07	Volume 2	Sec.6 ERQ	TS200-65	204.4.12 204.4.12 Cross Hole Sonic Logging Testing	The Contractor shall install access tubes for CSL testing in all bored piles, except as otherwise noted, to permit access for the CSL test probes.	CSL tubes installation is required for entire thousands of bored piles whereas CSL testing is conducted only for 69 piles wasting most of CSL tubes not using for testing. The Employer is kindly requested to consider installing CSL tubes only for selected CSL testing piles to save wasted cost and construction time.	*The access tube to be installed for CSL testng in all bored piles except as otherwise noted. One access tube shall be furnished and installed for each foot of shaft diameter rounded to the nearest whole number as shown on drawings. A minimum of three (3) tubes shall be required or as specified on the drawings. The access tubes are included in the unit rate of pay item 204(7) Cross hole sonic logging test..*
S-04		Drawing		NSRP-DWG-VIA04-RD-3024 ~ NSRP-DWG-VIA04-RD-3040		The drawing referred within this clarification provide the final elevation of the maintenance road. However, the drawing does not provide the final elevations along the cross-section such as the elevation of the ground above the pile cap, etc. Would the Clinet please provide the Contractor with the final elevations for the entire cross-section?	*For final elevation of the ground above pile cap, refer to drawing number NSRP-DWG-VIA04-ST-0101 TO ST-0105 REV 21. The elevation indicated in the drawings is the final elevation.*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04		Vol. 2 Sec 6 II drawing Mainline Drainage		NSRP-DWG-VIA04-DR-5010		According to the drawing referred within this clarification, the existing canal is to be decommissioned, which is expected to require the breakage of the concrete and the backfill material. However, since the drawing only illustrates the locations of existing canal based on manholes only, the contractor was not clear about if the contractor is required to remove the exisiting canals isolated to the vicinity of pile caps or the entire existing canal along the alignment.	***The existing canal will need to be decommisioned as this will not be useable because it will be obstructed by the pile caps. The continuation of the drainageline will be in the maintenance road and will drain towards an existing waterway in NSRP-DWG-VIA04-DR-0088. Rev 21.3.***
S-04		Vol. 1 Sec 1.3 Vol 2		BOQ Bill no. 3 Technical Specification 204.2.7.3	Technical Specification 204.2.7.3, "the bores shall be taken below the proposed founding level to a depth of at least 3 times the diameter of the pile."	Considering the borehole drilling from the existing ground surface together with the referred technical specification, total depths of boreholes will be over 8,600 linear meters (inclusive of the geotechnical investigation works to be performed for the pile load testing). Please clarify.	***The Bidder is advised that the BOQ Quantity for Item 204(1) under Bill No. 3 is consistent with the Bored Pile Drawings and the Technical Specifications. Please refer to drawing nos. NSRP-DWG-VIA04-ST-0101 to 0105 Rev21 and to NSRP-DWG-VIA04-ST-0103 Rev21.2.***
S-04		Volume 2, Specification TS 700		711.3.1	The lift steelwork shall be bonded to the lighting protection system. Curtain wall shall be properly earthed to the building lightning protection system.	Bonding of metallic materials is specified in neither Drawings nor BOQ. Please advise the item where bonding of metallic materials is included.	***The Bidder is advised that the related works for the bonding of metallic materials shall be covered by the Bill Nos. 4-1 & 4-2, Part F.5-Electrical Works - Lightning Protection System and Earthing System.***
S-04		Volume 2, Drawing Specification TS 700 CP S04-07 Responses to Clarification Request (GBB No. 22)		NSRP-DWG-BIN-EL-5801/5802 713.2.7 1)~3)	Its a collaborative work between E&M contractor and the bidder. TS will govern. Drawings reprsent the input/outpit list for the BMS specialist to provide detail design, supply and install work.	According to GBB No.22 response regarding discrepancy between TS and Drawing, level of management system is still unclear in terms of below systems. Please kindly clrify which document takes precedance. 1) Air-conditioning and Ventilation system : TS requires Control/Monitoring/Alarm, but drawing requires Alarm only. 2) Plumbing & Sanitary, Fire water tank, Jockey pump : TS requires Monitoring/Alarm, but drawing requires Alarm only. 3) PV system and Signage : TS has no instruction, but drawing requires Control/Monitoring/Alarm.	***1 &2)Refer to NSRP-DWG-BIN-EL-5801 /5802 rev. 21.3 note no .2. Detailed design will still be done by the BMS specialist.TS for BMS shall be amended by the BMS specialist based on manufacturer data of appproved material. 3)Detailed design will still be done by the BMS specialist.TS for BMS shall be amended by the BMS specialist based on manufacturer data of appproved material.***
S-04		Sec 4A BOQ CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021		Removal of Existing Lined Canal CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021	Clarification request: The Quantity is Linear meter. Drawing only mentions widths. Height isn't shown in the drawing. Please, provide the specific drawing included with the information. Final Response: The height of the canal will be verified by the Contractor or Engineer on site once the demolition works start	Although the Engineer (or the Contractor) will verify the quantity asscociated with the removal of existing lined canal post award, the contractor would require to submit our unit price assocated with this item at the time of this proposal as appeared in Bill No. 2 202(2) Removal of Exisitng Lined Canal which Unit is 'a linear meter.' However, without knowing the relevant quanity of the parts (i.e., removal of fills and concrete), the Unit of a linear meter for this item does not provide the basis for the contractor to provide its unit price. Instead, the Contractor would like kindly to request the Client to detail out the Item 202(2) e.g., further into 202(a) the removal inlcluding breakage of the concrete, and 202(b) the removal of fill material, etc.	***Bidder is advised to refer to TS 201.1.1.1 in Addendum 4***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04		02_CP S-06_VIA00 CP S04-07 Responses to Clarification Request (GBB No. 16) dated March 25, 2021	*NSRP-DWG-VIA00-ST-402*	All exposed con'c surface:class 2 suface finish(anti-graffiti coating) CP S04-07 Responses to Clarification Request (GBB No. 16) dated March 25, 2021	Clarification request: "ALL EXPOSED CONCRETE SURFACES SHALL HAVE CLASS 2 SURFACE FINISH TO THE PROJECT SPECIFICATION AND ARE TO BE TREATED WITH AN APPROVED ANTI-GRAFFITI COATING" is stated in the Note 5 of the drawing 'ST-402'. Please confirm that this clause is applied for the pier column and headstock only. Final Response: All exposed concrete surface is not limited to pier column and head stock.	The Contractor understands that the response from the client means to apply the Anti-Graffiti coating for all exposed concrete, but limited to 3 meters from the ground elevation. Please confirm (Otherwise, do we do the anti-graffiti coating to all exposed concrete such as the PSM, etc?).	***Yes.Confirmed.***
S-04		Sec 4A BOQ CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021		Part B – Specific Provisions CP S04-07 Responses to Clarification Request (GBB No. 21) dated April 20, 2021	"[…] 2) In circumstances where the required quantity of work would be exceeding the quantity as per the tender BOQ, the contractor should inform the Engineer and the Employer in writing. No work in excess of the tender BOQ quantity should be performed without the knowledge and prior approval of the Engineer / Employer. […]"	Reference is made to the Employer's response as referenced herein in relation to the ad measurement contract type. Further to the Employer's response, we understand that the Contractor shall inform the Engineer each and every time where the required quantity of the works are to exceed the quantities in the tender BOQ. As this notification and Engineer's/Employer's approval process may result in delays in execution (considering no. of items in BOQ and unknown no. of items to exceed tender quantities), please confirm the Engineer's/Employer's reply period upon receipt of the Contractor's written notification as requested in the Employer's response.	***"Bidder is advised this is an ad-measurement contract.*** ***The quantities in the BOQ are accurate and measured from Detailed Design. Admeasurement is the measurement of change from Detailed Design to revised Detailed Design and /or Variations as instructed by the Engineer.*** ***Further, any obvious errors detected in quantification in the BOQ shall, subject to the agreement of the Engineer, be re-measured and corrected.The Contractor is not expected to take the risk of errors in quantities."***
S-05		Volume 2, Specification TS 700		711.3.1	The lift steelwork shall be bonded to the lighting protection system. Curtain wall shall be properly earthed to the building lightning protection system.	Bonding of metallic materials is specified in neither Drawings nor BOQ. Please advise the item where bonding of metallic materials is included.	***The Bidder is advised that the related works for the bonding of metallic materials shall be covered by the Bill Nos. 4-1 through 4-4, Part F.5-Electrical Works - Lightning Protection System and Earthing System.***
S-05		Volume 2, Drawing Specification TS 700 CP S04-07 Responses to Clarification Request (GBB No. 22)		NSRP-DWG-BIN-EL-5801/5802 713.2.7 1)~3)	Its a collaborative work between E&M contractor and the bidder. TS will govern. Drawings reprsent the input/outpit list for the BMS specialist to provide detail design, supply and install work.	According to GBB No.22 response regarding discrepancy between TS and Drawing, level of management system is still unclear in terms of below systems. Please kindly clrify which document takes precedance. 1) Air-conditioning and Ventilation system : TS requires Control/Monitoring/Alarm, but drawing requires Alarm only. 2) Plumbing & Sanitary, Fire water tank, Jockey pump : TS requires Monitoring/Alarm, but drawing requires Alarm only. 3) PV system and Signage : TS has no instruction, but drawing requires Control/Monitoring/Alarm.	***The Bidder is advised to refer to the Updated BOQ, Addendum 4, Bill No. 4-3, Part F.5-Electrical Works, Building Management System. The Bidder is further advised to also refer to the Technical Specifications, TS 700, and to the whole of Section 713-Building Management System (BMS).***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		02_CP S-06_VIA00 CP S04-07 Responses to Clarification Request (GBB No. 16) dated March 25, 2021	*NSRP-DWG-VIA00-ST-402*	All exposed con'c surface:class 2 suface finish(anti-graffiti coating) CP S04-07 Responses to Clarification Request (GBB No. 16) dated March 25, 2021	Clarification request: "ALL EXPOSED CONCRETE SURFACES SHALL HAVE CLASS 2 SURFACE FINISH TO THE PROJECT SPECIFICATION AND ARE TO BE TREATED WITH AN APPROVED ANTI-GRAFFITI COATING" is stated in the Note 5 of the drawing 'ST-402'. Please confirm that this clause is applied for the pier column and headstock only. Final Response: All exposed concrete surface is not limited to pier column and head stock.	The Contractor understands that the response from the client means to apply the Anti-Graffiti coating for all exposed concrete, but limited to 3 meters from the ground elevation. Please confirm (Otherwise, do we do the anti-graffiti coating to all exposed concrete such as the PSM, etc?).	***Yes.Confirmed.***
S-05		Sec 4A BOQ CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021		Part B – Specific Provisions CP S04-07 Responses to Clarification Request (GBB No. 21) dated April 20, 2021	"[…] 2) In circumstances where the required quantity of work would be exceeding the quantity as per the tender BOQ, the contractor should inform the Engineer and the Employer in writing. No work in excess of the tender BOQ quantity should be performed without the knowledge and prior approval of the Engineer / Employer. […]"	Reference is made to the Employer's response as referenced herein in relation to the ad measurement contract type. Further to the Employer's response, we understand that the Contractor shall inform the Engineer each and every time where the required quantity of the works are to exceed the quantities in the tender BOQ. As this notification and Engineer's/Employer's approval process may result in delays in execution (considering no. of items in BOQ and unknown no. of items to exceed tender quantities), please confirm the Engineer's/Employer's reply period upon receipt of the Contractor's written notification as requested in the Employer's response.	***"Bidder is advised this is an ad-measurement contract.*** ***The quantities in the BOQ are accurate and measured from Detailed Design. Admeasurement is the measurement of change from Detailed Design to revised Detailed Design and /or Variations as instructed by the Engineer.*** ***Further, any obvious errors detected in quantification in the BOQ shall, subject to the agreement of the Engineer, be re-measured and corrected.The Contractor is not expected to take the risk of errors in quantities."***
S-05		Drawing		NSRP-DWG-VIA05-RD-3011 ~ NSRP-DWG-VIA05-RD-3048		The drawing referred within this clarification provide the final elevation of the maintenance road. However, the drawing does not provide the final elevations along the cross-section such as the elevation of the ground above the pile cap, etc. Would the Clinet please provide the Contractor with the final elevations for the entire cross-section?	***For final elevation of the ground above pilecap, refer to drawing number NSRP-DWG-VIA05-ST-0101 TO ST-0106 REV 21. The elevation indicated in the drawings is the final elevation.***
S-05		Vol. 1 Sec 1.3 Vol 2		BOQ Bill no. 3 Technical Specification 204.2.7.3	Technical Specification 204.2.7.3, "the bores shall be taken below the proposed founding level to a depth of at least 3 times the diameter of the pile."	Considering the borehole drilling from the existing ground surface together with the referred technical specification, total depths of boreholes will be over 8,100 linear meters (inclusive of the geotechnical investigation works to be performed for the pile load testing). Please clarify.	***The Bidder is advised that the BOQ Quantity for Item 204(1) under Bill No. 3 is consistent with the Bored Pile Drawings and the Technical Specifications. Please refer to drawing nos. NSRP-DWG-VIA05-ST-0101 to 0106 Rev21 and to NSRP-DWG-VIA05-ST-0103 Rev21.2.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Volume 2, Drawing Specification TS 700 CP S04-07 Responses to Clarification Request (GBB No. 22)		NSRP-DWG-BIN-EL-5801/5802 713.2.7 1)~3)	Its a collaborative work between E&M contractor and the bidder. TS will govern. Drawings reprsent the input/outpit list for the BMS specialist to provide detail design, supply and install work.	According to GBB No.22 response regarding discrepancy between TS and Drawing, level of management system is still unclear in terms of below systems. Please kindly clrify which document takes precedance. 1) Air-conditioning and Ventilation system : TS requires Control/Monitoring/Alarm, but drawing requires Alarm only. 2) Plumbing & Sanitary, Fire water tank, Jockey pump : TS requires Monitoring/Alarm, but drawing requires Alarm only. 3) PV system and Signage : TS has no instruction, but drawing requires Control/Monitoring/Alarm.	*1 &2)Refer to NSRP-DWG-BIN-EL-5801 /5802 rev. 21.3 note no .2. Detailed design will still be done by the BMS specialist.TS for BMS shall be amended by the BMS specialist based on manufacturer data of appproved material. 3)Detailed design will still be done by the BMS specialist.TS for BMS shall be amended by the BMS specialist based on manufacturer data of appproved material.*
S-06		Sec 4A BOQ CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021		Removal of Existing Lined Canal CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021	Clarification request: The Quantity is Linear meter. Drawing only mentions widths. Height isn't shown in the drawing. Please, provide the specific drawing included with the information. Final Response: The height of the canal will be verified by the Contractor or Engineer on site once the demolition works start	Although the Engineer (or the Contractor) will verify the quantity asscociated with the removal of existing lined canal post award, the contractor would require to submit our unit price assocated with this item at the time of this proposal as appeared in Bill No. 2 202(2) Removal of Exisitng Lined Canal which Unit is 'a linear meter.' However, without knowing the relevant quanity of the parts (i.e., removal of fills and concrete), the Unit of a linear meter for this item does not provide the basis for the contractor to provide its unit price. Instead, the Contractor would like kindly to request the Client to detail out the Item 202(2) e.g., further into 202(a) the removal inlcluding breakage of the concrete, and 202(b) the removal of fill material, etc.	*Bidder is advised to refer to TS 201.1.1.1 in Addendum 4*
S-06		02_CP S-06_VIA00 CP S04-07 Responses to Clarification Request (GBB No. 16) dated March 25, 2021	*NSRP-DWG-VIA00-ST-402*	All exposed con'c surface:class 2 suface finish(anti-graffiti coating) CP S04-07 Responses to Clarification Request (GBB No. 16) dated March 25, 2021	Clarification request: "ALL EXPOSED CONCRETE SURFACES SHALL HAVE CLASS 2 SURFACE FINISH TO THE PROJECT SPECIFICATION AND ARE TO BE TREATED WITH AN APPROVED ANTI-GRAFFITI COATING" is stated in the Note 5 of the drawing 'ST-402'. Please confirm that this clause is applied for the pier column and headstock only. Final Response: All exposed concrete surface is not limited to pier column and head stock.	The Contractor understands that the response from the client means to apply the Anti-Graffiti coating for all exposed concrete, but limited to 3 meters from the ground elevation. Please confirm (Otherwise, do we do the anti-graffiti coating to all exposed concrete such as the PSM, etc?).	*Yes.Confirmed.*
S-06		Drawing		NSRP-DWG-VIA06-RD-3011 ~ NSRP-DWG-VIA06-RD-3038		The drawing referred within this clarification provide the final elevation of the maintenance road. However, the drawing does not provide the final elevations along the cross-section such as the elevation of the ground above the pile cap, etc. Would the Clinet please provide the Contractor with the final elevations for the entire cross-section?	*For final elevation of the ground above pilecap, refer to drawing number NSRP-DWG-VIA06-ST-0101 TO ST-0106 REV 21. The elevation indicated in the drawings is the final elevation.*

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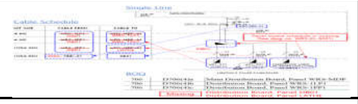
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Vol. 1 Sec 1.3 Vol 2		BOQ Bill no. 3 Technical Specification 204.2.7.3	Technical Specification 204.2.7.3, "the bores shall be taken below the proposed founding level to a depth of at least 3 times the diameter of the pile."	Considering the borehole drilling from the existing ground surface together with the referred technical specification, total depths of boreholes will be over 8,500 linear meters (inclusive of the geotechnical investigation works to be performed for the pile load testing). Please clarify.	***The Bidder is advised that the BOQ Quantity for Item 204(1) under Bill No. 3 is consistent with the Bored Pile Drawings and the Technical Specifications. Please refer to drawing nos. NSRP-DWG-VIA06-ST-0101 to 0106 Rev21 and to NSRP-DWG-VIA06-ST-0105 Rev21.2.***
S-06		Volume 2 02_S06 ELEC	NSRP-DWG-SS15~SS18-EL-5701, 5801	ACS and FACP Schematic Diagram		There are two (2) UPS for power supply of FACP and ACS. Please inform capacity and back up time of UPS. Is it included individual UPS (1kVA, 2hours) per each system?	***Refet to revised NSRP-DWG-SS15~SS18-EL-5701, 5801 revision 21.3***
S-06		Vol.1 Part 1 Sec 4	BP40		Overall Mobilisation Plan	There mentioned “Requirement E” and “Requirement A” in the description. “….Construction Schedule produced by the Bidder in respect of Requirement E below” “ Key Personnel listed in Requirement A above” Is it correct that “Requirement A” and “Requirement E” mean the requirement in Vol 6 for Key Personnel and Equipment?	***Bidder is advised to disregard reference to 'Requirement E' and 'Requirement A' and instead refer to Volume 1 Section 4 - 'Equipment' and Volume 1 Section 4 - 'Key Personnel'.***
S-07		Volume 2 02_S07 ELEC	NSRP-DWG-WRS-EL-5021, 5031	Low Voltage Power Single Line Diagram		There's a discrepancyin DBs between Feederschedule andsingle line diagramas following. Please clarify. And please provide panel board schedules of DB01 and LATHE	***Refer to NSRP-DWG-WRS-EL-5021/5231 rev 21.3***
S-04		Vol. 2 Part 2 Section 6 IC-TS 500	247	523.2.1 Material under Tensile Membrane Roof Structure (TMRS)	The fabric material should be fiberglass fabric with PTFE coating and Ti02 coating. Material should satisfy equivalent figures below (AP450 or greater): Thickness is .8mm; Weight is 1,300kg/m2; Tensile Strength is 7,000N/5cm (WARP) and 6,000/5cm (WEFT); Tear strength is 294N (WARP) and 294N (WEFT); Light Transmittance is 10+/-3%'	TMRS specifies PTFE canopy with Ti02 coating.Given that the Ti02 is efficient against organic pollution that does not assure the PTFE is "maintenance free" requiring regular rainwater or cleaning to wash away the oxidixed organic substances. The Ti02 requirement would also limit the the choice of the material supplier (only available in Japan and USA), and offers limited benefit to the the end user. Is there a possibility that this requirement can be waived given the condition that warranty of 10 years be prolonged to until 15 years?	***No. It cannot be waived. Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***
S-05		Vol. 2 Part 2 Section 6 IC-TS 500	247	523.2.1 Material under Tensile Membrane Roof Structure (TMRS)	The fabric material should be fiberglass fabric with PTFE coating and Ti02 coating. Material should satisfy equivalent figures below (AP450 or greater): Thickness is .8mm; Weight is 1,300kg/m2; Tensile Strength is 7,000N/5cm (WARP) and 6,000/5cm (WEFT); Tear strength is 294N (WARP) and 294N (WEFT); Light Transmittance is 10+/-3%'	TMRS specifies PTFE canopy with Ti02 coating.Given that the Ti02 is efficient against organic pollution that does not assure the PTFE is "maintenance free" requiring regular rainwater or cleaning to wash away the oxidixed organic substances. The Ti02 requirement would also limit the the choice of the material supplier (only available in Japan and USA), and offers limited benefit to the the end user. Is there a possibility that this requirement can be waived given the condition that warranty of 10 years be prolonged to until 15 years?	***No. It cannot be waived. Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5***

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S-06		Vol. 2 Part 2 Section 6 IC-TS 500	247	523.2.1 Material under Tensile Membrane Roof Structure (TMRS)	The fabric material should be fiberglass fabric with PTFE coating and Ti02 coating. Material should satisfy equivalent figures below (AP450 or greater): Thickness is .8mm; Weight is 1,300kg/m2; Tensile Strength is 7,000N/5cm (WARP) and 6,000/5cm (WEFT); Tear strength is 294N (WARP) and 294N (WEFT); Light Transmittance is 10+/-3%'	TMRS specifies PTFE canopy with Ti02 coating.Given that the Ti02 is efficient against organic pollution that does not assure the PTFE is "maintenance free" requiring regular rainwater or cleaning to wash away the oxidixed organic substances. The Ti02 requirement would also limit the the choice of the material supplier (only available in Japan and USA), and offers limited benefit to the the end user. Is there a possibility that this requirement can be waived given the condition that warranty of 10 years be prolonged to until 15 years?	*No. It cannot be waived. Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval; Amended TS 523.1.1 in Addendum 5*
S-04		Vol 3 / Sec. 7	5/32 (GCC)	Sub-Clause 8.5	Delays Caused by Authorities	As per the General Conditions of the Contract Sub-Clause 8.5, If the Contractor suffers delay caused by Authorities, then this delay will be considered under subparagraph (b) of Sub-Clause 8.4 [Extension of Time for Completion]. However, such delays will directly cause unavoidable additional costs to the contractor. In this respect, the Bidder kindly requests the Employer to consider/evaluate these additional costs under the Conditions of Contract Sub-Clause 20.1 [Contractor's Claims]?	*Extensions of Times for Completion could be considered in accordance with relevant FIDIC GCC Clauses*
S-04		Vol 3 / Sec. 7	5/32 (GCC)	Sub-Clause 6.7.	Health and Safety	If the bidder awarded the Project, wthe contractor will take all necessary precautions and comply with all regulations of Philippines and the terms of the Contract as a prudent Contractor in order to prevent any adverse effects of pandemics including but not limited to Covid-19 while executing the Works. However, if the contractor incur adverse effects due to pandemics despite it takes all precautions and comply with all regulations of Philippines and the terms of the Contract, please confirm that the Contractor shall be entitled for an extension of time and increase in the Contract Price?	*Bidder is requested to comply with all COVID-19 related clauses in the Bidding Documents. Claims for Extension of Time and payment will be dealt with in accordance to relevant GCC clauses.*
S-04		Vol 3 / Sec. 7	5/32 (GCC)	Sub-Clause 15.2	Termination by Employer	As per the PCC 15.2; “the Engineer gives two consecutive Notices to update the Program and accelerate the works to include mitigation measures required to ensure compliance with Clause 8.2 [Time for Completion] and the Contractor fails to update the Program and demonstrate acceleration of the works within a reasonable period of time determined by the Engineer.” The contractor is willing to comply with the work schedule and complete all the works on time, the abovementioned "within a reasonable period of time determined by the Engineer" statement is an open ended expression without any binding meaning, is the reasonable period 1 weak or 1 day or any shorter / longer period. Since Termination issues have a serious consequences on the contractor this statement is load,ng a reasonable risk to the contractos. Therefore, please delete PCC clause 15.2.(g) as the Contractor is already liable to pay delay damages in case of delays.	*The Bidder's request is declined.*

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S-04		Vol 3 / Sec. 8	28/32 (PCC)	8.1 Commencement of Work	Delete sub-paragraph 8.1 (d)	The Bidder understands that the Employer has not set the payment of advance a prerequisite for the commencement of the Works. However, The Bidder cannot conceive the intention behind this initiative, and it is kindly requested from the Employer to clarify for all bidders how the advance payment will be secured and paid to the Contractor upon the submission of the concerning bank guarantee letter as prescribed under the Contract. Since the advance payment alyways play the most important role to sr-tart up the projects, the Bidder would like to be certain that no considerable delay occurs when the Employer receives the said bank guarantee letter from the Contractor and the Employer transfers the amount to the Contractor's bank account to avoid any cash flow issue for the Contractor to properly discharge its obligations under the Contract.	***Bidder is referred to Addendum 4 containing further information regarding Advance Payment***
S-04		Vol 3 / Sec. 8	28/32 (PCC)	10.2 Taking Over of Parts of the Works	At the end of Subclause 10.2, add the following: "For avoidance of doubt, the Contractor acknowledges and agrees that the provision of access to and the occupation of parts of the Works by parties other than the Employer, as required by Subclause 4.6, does not constitute "Taking Over" in accordance with the terms of this Clause."	The Bidder is of the opinion that the addition of this new condition as to "using but not taking over" is not truly applicable and likely to cause contractual / commercial disputes throughout the course of the Works. Given the fair prescription of the FIDIC Pink Book (MDB Harmonised Edition June 2010) as to the Sub-Clause 10.2, the Bidder kindly requests the Employer to drop this exemption and reinstate the terms in the first place as stated in the original format, i.e., FIDIC Pink Book (MDB Harmonised Edition June 2010).	***The bidder's request is declined.***
S-04		Vol 3 / Sec. 8	29/32 (PCC)	Sub-Clause 14.1 The Contract Price	Add new sub-clause (e) 'The reimbursement of the Contractor's share of the Dispute Board Members invoice is deemed to be included in the rates and prices quoted in the Bill of Quantities. The reimbursement of the Employer's share of the Dispute Board Members invoice will be paid from Provisional Sums'.	The Bidder refers to the appointment of the Dispute Board ("DB") pursuant to the Sub-Clause 20.2 of Conditions of Contract. The Employer has not amended the provisions of this Sub-Clause; as such, the remuneration pertaining to the DB Members ("Members") shall be mutually agreed between the Contractor and the Employer (and the Members as well) prior to the execution of the Contract and the same shall be reflected in the Contract Data. That said, the Bidder reasonably conceives that the DB will be a standing DB. The Employer is kindly requested to confirm the Bidder's understanding.	***The bidder is advised that the provisions of Sub-Clause 14.1 (e) shall apply. The Dispute Board will be appointed in accordance with GCC Clause 20.2***
S-04		Volume 2 Section 6 IC - Technical Specification	53 of 372 & 65 of 372	204.2.6.4 & 204.4.12	In 204.2.6.4, the number of piles to be tested by this method shall be 3% of all piles or as directed by the Engineer. In 204.4.12, the Contractor shall install access tubes for CSL testing in all bored piles, expect as otherwise noted.	The required number of cross hole sonic logging (CSL) testing is 3% of all piles or as directed by the Engineer in TS200, 204.2.6.4. According to this specifications, the contractor install access tubes for cross-hole sonic log testing as mentioned TS200, 204.3.8 for only mentioned number of pile directly by the Engineer. Please confirm.	***Yes, 3% of all piles or as directed by the Engineer will be tested (CSL) as per TS 204.2.6.4.*** ***The access tube to be installed for CSL testing in all bored piles except as otherwise noted. One access tube shall be furnished and installed for each foot of shaft diameter rounded to the nearest whole number as shown on drawings. A minimum of three (3) tubes shall be required or as specified on the drawings. The access tubes are included in the unit rate of pay item 204(7) Cross hole sonic logging test..***

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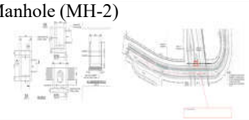
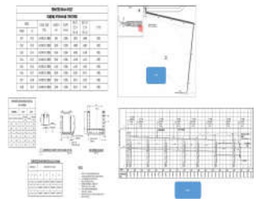
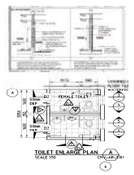
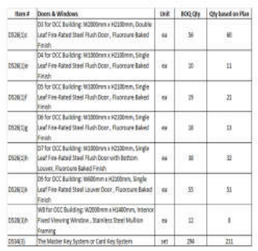
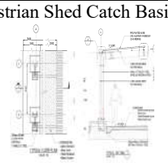
Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07		Volume 2, 02_Book 1 (Civil), 04_CP S-07_DPSFE	NSRP-DWG-DEP-DR-2671 Rev. 21.2	DEPOT PUMP SUMP - Manhole (MH-2)	Manhole (MH-2) 	1. Please provide pay item for Manhole (MH-2)	*BOQ to be revised to include Manhole (MH-2) as reflected in NSRP-DWG-DEP-DR-2671 Rev. 21.2 and shall be issued as Addendum No.5.*
S-07		Volume 2, 02_Book 1 (Civil), 04_CP S-07_DPSFE	NSRP-DWG-DEP-DR-2101	DRAINAGE LAYOUT SHEET 1	Outlet Pipes for Manholes 	Please verify conflict on the plan. No schedule was provided for the outlet pipes for the manholes in Road 8. 1. Please provide the length 2. Please provide dimension and type of outlet for the manhole in Road 8 3. Please provide pay item	*The outfall pipe is a 250mm diameter pipe. Typical section is shown in NSRP-DWG-DEP-DR-2710_rev 21.3*
S-07		Volume 2, 02_Book 1 (Civil), 04_CP S-07_DPSFE	NSRP-DWG-DEP-DR-2014 NSRP-DWG-DEP-DR-2733 NSRP-DWG-DEP-DR-2617	Perimeter Drain Outlet (CB-1 to CB-9)	Conflict on the perimeter drain details and the schedule of perimeter drain outlet 1. As per Schedule 10 the perimeter drain outlet type is RCBC but as per perimeter details in NSRP-DWG-DEP-DR-2733, there is no details for perimeter RCBC type. 	Perimeter Drain outlet type is RCBC as per schedule. 1. Please provide details for the Perimeter Drain outlet CB-1 to CB-9, RCBC Type. 2. Please provide pay item	*This will be Type B. Refer to NSRP-DWG-DEP-DR-2732_rev 21*
S-07		Addendum 2, 02_Book 2 (Archi Drawings), 1_Architecture, CP S-07_05_AR_CMV	NSRP-DWG-CMV-AR-3501_[21.2]	Catenary Maintenance Vehicle Shop	150mm thk CHB Wall 	Please provide pay item for 150mm thk CHB reflected on wall partition schedule	*BOQ will be revised to include 150mm thk CHB reflected on wall partition schedule in NSRP-DWG-CMV-AR-3501 Rev 21.2 and shall be issued as Addendum No.5.*
S-07		Addendum 2, 02_Book 2 (Archi Drawings), 1_Architecture, CP S-07_01_AR_OCC	NSRP-DWG-OCC-AR-3631 to 3642	OCC Building	Schedule of Doors and Windows 	Please verify conflict in quantity of the following doors and windows	*The updated BoQ is matched with the Schedule of Doors and Windows with the following reference sheets: NSRP-DWG-OCC-AR-3611 Rev 21.3, NSRP-DWG-OCC-AR-3612 Rev 21.2, NSRP-DWG-OCC-AR-3631, 3632, 3633 Rev 21.3, NSRP-DWG-OCC-AR-3641, 3642 Rev 21.2. Updated BOQ and Drawings shall be issued as Addendum No.3*
S-07		Volume 1 Addendum 2, 1.3 CP S-07 Vol.1A Sec.4A BOQ 20210310, BILL OF QUANTITIES No. 4-3.2	1 of 1	BILL OF QUANTITIES No. 4-3.2, Pedestrian Shed	Pedestrian Shed Catch Basin 	Please provide pay item for catch basin	*Already included in the BOQ, Bill No.5, Part C Drainage Works*

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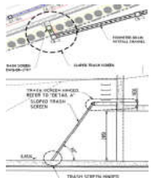
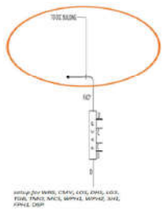
S-07		Volume 2, 02_Book 1 (Civil), 04_CP S-07_DPSFE	NSRP-DWG-DEP-DR 2741		Manhole with Trash Screen PLAN  SECTION	Please provide item for Trash Screen	***PIN 111(87)d-Miscellaneous Steelworks – Slope Trash Screen for Perimeter Drain***
S-07		GBB14 Response to Clarification Batch 6	73	Responses to Clarification Requests (Batch 6) Fire Alarm Detection System	Please confirm if the cabling for Fire Alarm Control Panel for each building is to be connected to OCC Building we assume this scope by others, if not please provide pay item and layout drawing? As per GBB 14, As per Part of Bidder's Scope of Work 	The FDAS FACP of LRS and Other buildings is to be connected to FDAS OCC Building. 1. Please provide Depot FDAS Site Layout Drawings to determine the wiring installation path 2.Please provide pay item for the FDAS cabling/interconnection.	***1)Cable route for site layout is by CP NS-01*** ***2. Cost for FDAS Cabling / interconnection is considered included in PIN D710(8)a --- Fire Alarm Control Panel - OCC Building***
S-07		GBB14 Response to Clarification Batch 6	73	Responses to Clarification Requests (Batch 6) Building Management System	As indicated on Bid Drawings, Optical Cable is by others. Other builings BMS Panel is connected via Optical Cable to BMS OCC, please confirm that Optical Cable is not part of our scope. As per GBB 14, Optical cable is part of the specialist (BMS contractor). NSRP-DWG-OCC-EL-5281 to be issued as rev21.2.	The BMS Optical Cable is part of the BMS Specialist. 1. Please provide Depot BMS Site Layout Drawings to determine the Cable Route 2. please provide pay item for BMS optical cabling.	***1)Cable route for site layout is by CP NS-01*** ***2. BMS optical cabling is considered included in PIN 713(9) --- Wires and Conduit***
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	NSRP-DWG-LGS-EL-5011	Bill No. 4-2.7 Garbage Shed for Light Repair Shop	Fire Detection System & Building Management System	BMS was not included in the BOQ and drawing for the Garbage Shed for Light Repair Shop. 1. Please clarify if FDAS interface with BMS is not required for Bill No. 4-2.7. If required, please provide payitem.	***BMS is not required for Bill No.4-2.7, since the Fire Alarm Control Panel at LGS is connected to Fire Alarm Control Panel of OCC Building and then connected to BMS, please refer to NSRP-DWG-LGS-EL-5011 Rev 21 and NSRP-DWG-OCC-EL-5681 Rev 21.3. The updated drawing shall be issued as Addendum No.5***

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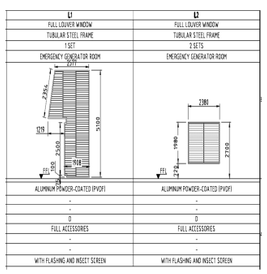
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	NSRP-DWG-LRS-EL-5281	Bill No. 4-2.1 Light Repair Shop Access Control System	BOQ D703(9)c RG59B Coaxial Cable	1. It is observed that the cabling used for OCC Building and Depot Sectioning Post are typical as per Amendment no. 1 (Based on BOQ). 1.1 We would like to clarify if this is the same for Light Repair Shop 1.2 RG59B Coaxial Cable is indicated in the BOQ for LRS, please verify. 1.3 In amendment 1, the RG59B Coaxial Cable was removed from the Depot Sectioning Post. Please confirm.	*1.1 For access control system cable,Access cotnrol specialist to verify the type of cable to be used. Based on manufacturer data of approved material* *1.2 yes but subject for verification of access cotnrol specialist.Based on manufacturer data of approved material* *1.3 For access control system cable,Access cotnrol specialist to verify the type of cable to be used. Based on manufacturer data of approved material.*
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310		Bill No. 4-2.1 Light Repair Shop Wires and Cables	BOQ D703(6)a Control Cable	The Control Cable is not defined in the Bid Drawings, and specifications for the project. 1. Provide specification of the BOQ D703(6)a "Control Cable".	*Please refer to TS 700, Section 703, Clause 703.3*
S-07		Volume 1 Addendum 2, 1.3 CP S-07 Vol.1A Sec.4A BOQ 20210310, BILL OF QUANTITIES No. 4-1.1		OCC Building	Part E - Miscellaneous Works	We understand that the following items shall be located in Multipurpose Toilets in OCC Building. But there are 10 identical Multipurpose Toilets from Ground Floor to Fifth Floor as per floor plans. Please verify the quantities as per Bill No. 4-1.1. As per BOQ As per Plan Baby Changing Folding Tables - 6 sets 10 sets Child Protective Seat - 4 sets 10 sets 50 Liters Stainless Steel, waste bin - 6 sets 10 sets	*The conflict between the quantity of toilet accessories in BOQ vs the drawing updated in Addendum 5*
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	NSRP-DWG-OCC-AR-3621	Bill No. 4-1.1 OCC	BOQ D527(1)a L1 for OCC Building: W3120mm x H5100mm, Powder Coated Aluminum Louver, Polygonal BOQ D527(1)b L2 for OCC Building: W2380mm x H1980mm, Powder Coated Aluminum Louver BOQ D527(1)c L3 for OCC Building: W800mm x H1400mm, Powder Coated Aluminum Louver BOQ D527(1)d L4 for OCC Building: W1500mm x H1000mm, Powder Coated Aluminum Louver Door and Window Schedule 	As per Door and Window Schedule Louver is Tubular Steel Frame, Finish shall be Flourourethane ovenbaked finish while in BOQ it is Powder Coated Aluminum Louver. Which will govern.	*BOQ will govern and it is matched with drawing NSRP-DWG-OCC-AR-3621 rev 21.*

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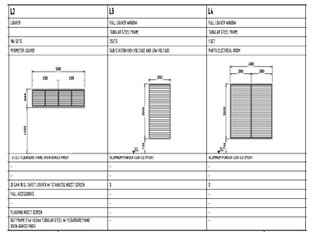
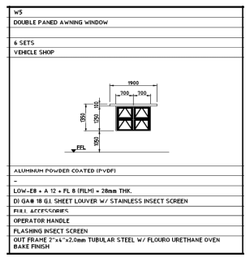
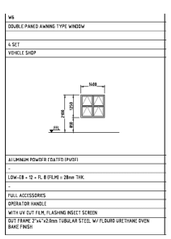
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	NSRP-DWG-LRS-AR-3631	Bill No. 4-2.1 LRS	BOQ D527(3)c L3 for Light Repair Shop: W2050mm x H3000mm, Powder Coated Aluminum Louver BOQ D527(3)d L4 for Light Repair Shop: W4000mm x H3000mm, Powder Coated Aluminum Louver Door and Window Schedule 	As per Door and Window Schedule Louver is Tubular Steel Frame, Finish shall be Flourourethane ovenbaked finish while in BOQ it is Powder Coated Aluminum Louver. Which will govern.	***BOQ shall govern, please refer to the updated BOQ and shall be issued as Addendum No.4.***
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	NSRP-DWG-WPH1-AR-3601	Bill No. 4-2.13 Pump House for Water Tank 1	BOQ D526(16)b W6 for Pump House For Fire Water Tank 1: W1900mm x H1350mm, Awning Type Steel Window , Fluoroure Baked Finish Door and Window Schedule 	1. As per Door and Window Schedule Awning Window Finish shall be Aluminum Powder Coated while in BOQ it is Steel, Fluoroure Baked Finish. Which shalll govern. 2. Please verify dimension as per drawing W1400mm x H1250mm while in BOQ it is W1900mm x H1350mm.	***1. BOQ shall govern, please refer to the updated BOQ.*** ***2. The dimension shall be W1400mm x H1350mm, please refer to the latest drawing NSRP-DWG-WPH1-AR-3601 Rev 21.3.*** ***Updated BOQ and Drawing issued in Addendum 5***
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310	NSRP-DWG-WPH2-AR-3601	Bill No. 4-2.15 Pump House for Water Tank 2	BOQ D526(16)b W6 for Pump House For Fire Water Tank 2: W1900mm x H1350mm, Awning Type Steel Window , Fluoroure Baked Finish 	1. As per Door and Window Schedule Awning Window Finish shall be Aluminum Powder Coated while in BOQ it is Steel, Fluoroure Baked Finish. Which shalll govern. 2. Please verify dimension as per drawing W1400mm x H1250mm while in BOQ it is W1900mm x H1350mm.	***1. BOQ shall govern, please refer to the updated BOQ.*** ***2. The dimension is revised to W1400mm x H1350mm to match the latest drawing.*** ***Updated BOQ and Drawing issued in Addendum 5***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		VOL 2 Civil Works ADDENDUM 2		NSRP-DWG-BIN-ST-4533_[21.2] NSRP-DWG-(SPO, PTA, SRO, BAN, CAB, CAL)-ST-4533_[21.2]	SECTION 2 Pedestal Reinforcement Detal	Please clarify about the detail of pedestal's inner reinforcing steel bar extended to the footing had insufficient embedment lenght. Please clarify also the corresponding BOQ.	*Embedment length is adjusted, please refer to the updated drawings.* *Already included in the BOQ, Bill No.4, Pay Item No.403(2).* *Updated BOQ and drawings issued in Addendum 5*
S-05		ADDENDUM 2		BILL OF QUANTITIES No. 4 (All Station: SPO, SRO BIN, PTA, CAB, BAN,CAL)	SUMMARY OF BILL No. 4 STATIONS for Bill No. 4-1 through BILL No. 4-4	The building floor area and height of the Station shoulld be indicated in the summary of Bill	*The building floor area and height of the Station is already indicated in the Drawings.*
S-05		Volume 2_01 Specification				Please provide TS 418 for the item Soil Cement	*Technical specifications for soil cement columns are provided on TS 418 Jet grouting in Addendum 3.*
S-05		Volume 2_03 Book 2 (Architectural)		NSRP-DW-BIN/PTA/SPO/SRO-3403 to 3404	Vol.1A Sec.4A BOQ Bill no. 4-1 to 4-4 Item No. 510(1)	Please clarify if High Impact Laminate Sheet is for covering the surface of Modular Cabinet. Or kindly clarify if pay item 510(1) is referring only the High Impact Laminate Sheet or the Modular Cabinet made-up of High Impact Laminate Sheet?	*Pay Item No. 510(1) is referring to the Modular Cabinet made-up of High Impact Laminate Sheet, please refer to TS 500, Section 510.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Revised Plans, Door Schedule and Details for pay items S526(1), S526(2), S526(3), S526(4) for Substations 10-18	*Please refer to the updated BOQ and Drawings and shall be issued as Addendum No.3.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Revised Plans, Door Schedule and Details for pay items S528(1)a and S528(1)b for Substations 10-18	*Please refer to the updated BOQ and Drawings and shall be issued as Addendum No.3.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Details for pay item S548(1) for Substations 10-18	*Please refer to the updated BOQ and Drawings and shall be issued as Addendum No.5.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please confirm if Vinyl Baseboard (S538(2)) in substations is same item as B1: H=100m, High Vinyl Baseboard strip in Main Stations	*Yes, the same item.*
S-05				Bill of Quantities GS 106 (1, 2, 3 and 4)		Please provide supplemental specification which includes all necessary facilities, furniture, equipment, personnel, apparatus and installations for its own use and that of the engineer.	*Please refer to General Specification, Section 106, Clause 106.1.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide locations of CHB Wall, Non-Load Bearing, (incl. Reinforcing Steel); t=200mm and CHB Wall, Non-Load Bearing, (incl. Reinforcing Steel); t=150mm for Substations 10-18	*200mm CHB for toilets and 150mm in substation building, Please refer to the updated BOQ and Drawings and shall be issued as Addendum No.4.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Schedule of Wall Finish for pay item S548(2) for Substations 10-18	*Please refer to the updated BOQ and Drawings and shall be issued as Addendum No.5.*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Details and Specifications for Aluminum Shelves - 554(20) for Substations 10-18	*Refer to NSRP-DWG-SS00-AR-3202 for Aluminum shelves details and specifications, submitted rev 21.3, addendum 3*
S-05				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Details for Cyclone Fencing and Cyclone gate for Substation 10-18 under miscellaneous works	*Refer to NSRP-DWG-SS00-AR-3203 for Security Fence Detail, 2021 rev 21.3.*

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		Vol. 1A Sec 4ABOQ	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, So il Cement Column Foundation	Response to Clarification Requests (Batch 12)	With respect to the Addendum 2, Final Response it says that The updated TS 418 was issued March 2021 under Addendum 2. But based on attached files under Bid Bulletin No. 16, there's no updated TS 418 on the said Addendum. Please verify?	*The TS418 was already issued in Addendum 3.*
S-05		Vol. 2 Sec 6 II drawing CP S-05_02_SPO_ST& CP S-05_02_PTA_ST & CP S-05_02_BIN_ST & CP S-05_02_SRO_ST	25 & 24 & 25 & 26			This detailed drawing is the Column of each Station. Coupler does mention at the typical detailed drawing. Please clarify the design of the column for each station if couplers are required?	*Couplers are not required in the typical column details of structural drawings. However, the contractor has the option to use couplers as long as they meet the requirements under TS400.*
S-05		Volume 2_03 Book 2 (Architectural) General Drawings		NSRP-DWG-STA-AR-3522		Please provide more detailed drawing for Acrylic Glass Safety Ceiling Deflector. Please clarify the intent of Acrylic Glass Safety Ceiling Deflector.	*Please refer to NSRP-DWG-STA-AR-3522 Detail -A Rev. 21.3*
S-05		Volume 2_03 Book 2 (Architectural) General Drawings		NSRP-DWG-STA-AR-3522	Vol.1A Sec.4A BOQ Bill no. 4-1 to 4-4 Item No. 535(2)	Please clarify the thickness of Acrylic Glass Safety Ceiling Deflector if t=5mm as per BOQ or t=20mm as per indicated in drawings	*Thickness of Acrylic Glass Safety Ceiling Deflector is to correct at 20mm thk.*
S-05		Volume 2_03 Book 2 (Architectural)		NSRP-DWG-SPO/SRO-3033 to 3034 NSRP-DWG-SPO-AR-3517 NSRP-DWG-SRO-AR-3518		Please confirm what finish will govern, the schedule of finishes or the finish indicated in detailed drawings. Please clarify the conflict of finish in PSD Room.	*For PSD room finishes please refer to NSRP-DWG-SPO-AR-3034 rev. 21.3* *To revise NSRP-DWG-SPO-AR-3517 & NSRP-DWG-SRO-AR-3518 rev.21.3* *SRO is designed by others PSD room was not included in the drawing.*
S-05				Bill of Quantities Bill no 2(PART A – PART D)		Please provide specific Temporary Stock Pile Area and Disposal Area (Clients Recommendation)	*Please refer to TS 101.2.2, TS 102.2.9 and TS 202.3.6*
S-05		Vol. 1A Sec 4A BOQ	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column		Please provide specification including Minimum Target Strength and Design Strength, for pay item 405(18) Soil Cement Column.	*Please refer to the updated Technical Specifications, TS 400, Section 405, Table 405.1; [Exposure Class - Surfaces of members in contact with the Ground (Non-Aggressive or Aggressive Soil) - Column and Pedestal. Updated Technical Specifications issued as Addendum 5*
S-05		Vol. 1A Sec 4A BOQ	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column Foundation		Please provide Soil conditions with complete borehole data (especially including grain size distribution of layers to be treated), for pay item 405(18) Soil Cement Column.	*The Soil condition with complete borehole data was already specified on drawings. The Bidder is advised to refer to the latest drawing NSRP-DWG-SS11-ST-4306 rev 21.3 and issued as Addendum No.5.* *Grain size distribution is not required.*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05		Vol. 1A	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column		Kindly verify the number of soil cement columns and dimension of MF3A in pay item 405(18) as it has different dimensions from MF3.	*The Bidder is advised to refer to the latest drawing NSRP-DWG-SS11-ST-4306 rev 21.3 and issued as Addendum 5*
S-05		Vol. 1A	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column		Please provide Soil Cement Columns Layout, for pay item 405(18).	*The Bidder is advised to refer to the latest drawing NSRP-DWG-SS11-ST-4306 rev 21.3 and issued as Addendum 5*
S-06		VOL 2 Civil Works ADDENDUM 2		NSRP-DWG-BIN-ST-4533_[21.2] NSRP-DWG-(SPO, PTA, SRO, BAN, CAB, CAL)-ST-4533_[21.2]	SECTION 2 Pedestal Reinforcement Detal	Please clarify about the detail of pedestal's inner reinforcing steel bar extended to the footing had insufficient embedment lenght. Please clarify also the corresponding BOQ.	*Embedment length is adjusted, please refer to the updated drawings.* *Already included in the BOQ, Bill No.4, Pay Item No.403(2).* *Updated BOQ and drawings issued as Addendum 5*
S-06		ADDENDUM 2		BILL OF QUANTITIES No. 4 (All Station: SPO, SRO BIN, PTA, CAB, BAN,CAL)	SUMMARY OF BILL No. 4 STATIONS for Bill No. 4-1 through BILL No. 4-4	The building floor area and height of the Station shoulld be indicated in the summary of Bill	*The building floor area and height of the Station is already indicated in the Drawings.*
S-06				NSRP-DWG-ATG-ST-6203 and NSRP-DWG-ATG-ST-6300		The slab interface joint detail was shown SECT J/6300 - BASE SLAB SHOWING DIFFERENT ELEVATIONS. of NSRP-DWG-ATG-ST-6203. Please clarify if dowel bar and sealant is required in these slab interface joint connection.	*Yes, please refer to the typical joint detail shown in NSRP-DWG-ATG-ST-7000 and 7001 Rev 21.*
S-06				NSRP-DWG-ATG-ST-6403	VIA06 ABUTMENT DETAIL SECTION 1	Please provide the interface detail of the Wingwall to adjacent Retaining wall.	*Yes, please refer to the typical joint detail shown in NSRP-DWG-ATG-ST-7000 and 7001 Rev 21.*
S-06		Volume 2_01 Specification				Please provide TS 418 for the item Soil Cement	*Soil cement column shall not be applied in CPS-06.*
S-06		Volume 2_03 Book 2 (Architectural)		NSRP-DW-BIN/PTA/SPO/SRO-3403 to 3404	Vol.1A Sec.4A BOQ Bill no. 4-1 to 4-4 Item No. 510(1)	Please clarify if High Impact Laminate Sheet is for covering the surface of Modular Cabinet. Or kindly clarify if pay item 510(1) is referring only the High Impact Laminate Sheet or the Modular Cabinet made-up of High Impact Laminate Sheet?	*Pay Item No. 510(1) is referring to the Modular Cabinet made-up of High Impact Laminate Sheet, please refer to TS 500, Section 510.*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Revised Plans, Door Schedule and Details for pay items S526(1), S526(2), S526(3), S526(4) for Substations 10-18	*Please refer to the updated BOQ and Drawings and shall be issued as Addendum No.3.*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Revised Plans, Door Schedule and Details for pay items S528(1)a and S528(1)b for Substations 10-18	*Please refer to the updated BOQ and Drawings and issued as Addendum No.3.*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Details for pay item S548(1) for Substations 10-18	*Please refer to the updated BOQ and Drawings and issued as Addendum 5.*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please confirm if Vinyl Baseboard (S538(2)) in substations is same item as B1: H=100m, High Vinyl Baseboard strip in Main Stations	*Yes, the same item.*
S-06				Bill of Quantities GS 106 (1, 2, 3 and 4)		Please provide supplemental specification which includes all necessary facilities, furniture, equipment, personnel, apparatus and installations for its own use and that of the engineer.	*Please refer to General Specification, Section 106, Clause 106.1.*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide locations of CHB Wall, Non-Load Bearing, (incl. Reinforcing Steel); t=200mm and CHB Wall, Non-Load Bearing, (incl. Reinforcing Steel); t=150mm for Substations 10-18	*200mm CHB for toilets and 150mm in substation building, Please refer to the updated BOQ and Drawings and issued as Addendum 5*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Schedule of Wall Finish for pay item S548(2) for Substations 10-18	*Please refer to the updated BOQ and Drawings and issued as Addendum 5*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Details and Specifications for Aluminum Shelves - 554(20) for Substations 10-18	*Please refer to the latest drawing, NSRP-DWG-SS00-AR-3202 rev 21.3 for Aluminum shelves details and specifications, and issued as Addendum No.3.*
S-06				Bill of Quantities - SP 05 (Bill 6-1 to 6-5) and SP 06 (Bill 6-1 to 6-5)		Please provide Details for Cyclone Fencing and Cyclone gate for Substation 10-18 under miscellaneous works	*Please refer to the latest drawing, NSRP-DWG-SS00-AR-3203 rev 21.3 for Security Fence Details, and issued as Addendum No.3.*
S-06		Vol. 1A Sec 4ABOQ	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, So il Cement Column Foundation	Response to Clarification Requests (Batch 12)	With respect to the Addendum 2, Final Response it says that The updated TS 418 was issued March 2021 under Addendum 2. But based on attached files under Bid Bulletin No. 16, there's no updated TS 418 on the said Addendum. Please verify?	*Soil cement column shall not be applied in CPS-06.*
S-06		Volume 2_03 Book 2 (Architectural) General Drawings		NSRP-DWG-STA-AR-3522		Please provide more detailed drawing for Acrylic Glass Safety Ceiling Deflector. Please clarify the intent of Acrylic Glass Safety Ceiling Deflector.	*Please refer to NSRP-DWG-STA-AR-3522 Detail -A Rev. 21.3*
S-06		Volume 2_03 Book 2 (Architectural) General Drawings		NSRP-DWG-STA-AR-3522	Vol.1A Sec.4A BOQ Bill no. 4-1 to 4-4 Item No. 535(2)	Please clarify the thickness of Acrylic Glass Safety Ceiling Deflector if t=5mm as per BOQ or t=20mm as per indicated in drawings	*Pay Item No.535(2) to correct at 20mm thk as per drawings, please refer to the updated BOQ and issued as Addendum No.5*
S-06		Volume 2_03 Book 2 (Architectural)		NSRP-DWG-SPO/SRO-3033 to 3034 NSRP-DWG-SPO-AR-3517 NSRP-DWG-SRO-AR-3518		Please confirm what finish will govern, the schedule of finishes or the finish indicated in detailed drawings. Please clarify the conflict of finish in PSD Room.	*For PSD room finishes please refer to NSRP-DWG-SPO-AR-3034 rev. 21.3* *To revise NSRP-DWG-SPO-AR-3517 & NSRP-DWG-SRO-AR-3518 rev.21.3* *SRO is designed by others PSD room was not included in the drawing.*
S-06				Bill of Quantities Bill no 2(PART A – PART D)		Please provide specific Temporary Stock Pile Area and Disposal Area (Clients Recommendation)	*Please refer to TS 101.2.2, TS 102.2.9 and TS 202.3.6*
S-06		Vol. 1A Sec 4A BOQ	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column		Please provide specification including Minimum Target Strength and Design Strength, for pay item 405(18) Soil Cement Column.	*Please refer to the updated Technical Specifications, TS 400, Section 405, Table 405.1; [Exposure Class - Surfaces of members in contact with the Ground (Non-Aggressive or Aggressive Soil) - Column and Pedestal. Updated Technical Specifications issued as Addendum 5*
S-06		Vol. 1A Sec 4A BOQ	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column Foundation		Please provide Soil conditions with complete borehole data (especially including grain size distribution of layers to be treated), for pay item 405(18) Soil Cement Column.	*Soil cement column shall not be applied in CPS-06.*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Vol. 1A	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column		Kindly verify the number of soil cement columns and dimension of MF3A in pay item 405(18) as it has different dimensions from MF3.	***Soil cement column shall not be applied in CPS-06.***
S-06		Vol. 1A	Bill no 6-2	Bill of Quantities – SP 05 (Bill 6-2) 405(18) D=0.6m, Soil Cement Column		Please provide Soil Cement Columns Layout, for pay item 405(18).	***Soil cement column shall not be applied in CPS-06.***
S-04		Volume 2		Specifications		1. Please confirm the following: a. what concrete design/ specific structure requiring concrete modulus of elasticity, and creep and Shrinkage Coefficients for the selected mix Design.	***All concrete structures will be required for concrete modulus of elasticity, creep, and shrinkage coefficient. Please refer to TS 405 for concrete requirements.***
S-04		Volume 2		Drawings	Architectural Plans	2. Please provide of the following: Substations 7,8 & 9 a. Schedule of Finishes b. Schedule of Area Estimation c. Schedule of Waterproofing with legend d. Types of wall with thickness	***a. NSRP-DWG-SS00-AR-3005 (Schedule of Finishes) rev 21.3*** ***b. the following area estimation is typical to substations 7,8&9 .*** ***b.1. equipment area = 157.50 sqm.*** ***b.2. meeting room = 24 sqm.*** ***b.3. gas cylinder room = 4.84sqm.*** ***b.4. toilet = 5.78sqm.*** ***c. Refer to rev 21.3*** ***d. Refer to NSRP-DWG-SS00-AR-3005 (Schedule of Finishes) for wall type and thickness, rev 21.3***
S-04		Volume 2 & Section 6	9 of 13	Equipment Requirement for S 04	Protection Fence	As per the equipment requirement for S-04, the protection fencing is requested. Please provide the detailed specification and drawings of the equipment of protection fencing.	***Please refer to NSRP-DWG-STA-AR-3536 Rev 21***
S-04	2	Section 6-III Supplementary Information	Page 5	Resettlement Action Plan (RAP) and Land Acquisition	Site Handover to Contractor : 01-Sep-21	Please confirm whether the mentioned Site Handover Date(01-Sep-21) is the one to be assumed as the Commencement date of CP S-04.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	2	Section 6-III Supplementary Information	Page 5	Resettlement Action Plan (RAP) and Land Acquisition	Site Handover to Contractor : 01-Sep-21	Please confirm whether the mentioned Site Handover Date(01-Sep-21) is the one to be assumed as the Commencement date of CP S-05.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	2	Section 6-III Supplementary Information	Page 5	Resettlement Action Plan (RAP) and Land Acquisition	Site Handover to Contractor : 01-Sep-21	Please confirm whether the mentioned Site Handover Date(01-Sep-21) is the one to be assumed as the Commencement date of CP S-05.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	2	Section 6 / GS 103.1		Supplementary Information		please provide us the updated site handover plan including the schedule in section 6 - III Supplementary Information	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	2	Section 6 / GS 103.1		Supplementary Information		please provide us the updated site handover plan including the schedule in section 6 - III Supplementary Information	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04	Volume -3 (Part-III) Conditions of Contract		PCC 2	2.1 - Time for Access to the site	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	Kindly clarify when Site Access delivery schedule will be notified. Also clarify what will be the extent of ROW (in percentage terms) will be handed over to the contractor on commencement date.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	Volume -3 (Part-III) Conditions of Contract		PCC 2	2.1 - Time for Access to the site	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	Kindly clarify when Site Access delivery schedule will be notified. Also clarify what will be the extent of ROW (in percentage terms) will be handed over to the contractor on commencement date.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	Volume -3 (Part-III) Conditions of Contract		PCC 2	2.1 - Time for Access to the site	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	Kindly clarify when Site Access delivery schedule will be notified. Also clarify what will be the extent of ROW (in percentage terms) will be handed over to the contractor on commencement date.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-07	Volume -3 (Part-III) Conditions of Contract		PCC 2	2.1 - Time for Access to the site	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	Kindly clarify when Site Access delivery schedule will be notified. Also clarify what will be the extent of ROW (in percentage terms) will be handed over to the contractor on commencement date.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04	3	Part III / Section 8 - Particular Conditions of Contract	PCC 2	2.1	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	The Bidder understands that the Employer will submit the Site Access Delivery Schedule, the submission of the same is unknown when these clarification questions are raised and transmitted to the Employer. The Bidder queries whether the Employer plans to get the contractor to have exclusive access to the Site with no hindrance, i.e. full possession.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04	3	Section 7-8 COC 30 November 2020	PCC 2	2.1 Time for Access to te Site	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will be issued by the Employer during the bidding period. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	As per noted in the reference text, the Bidder kindly asks for the Site Access Delivery Schedule.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	3	Part III / Section 8 - Particular Conditions of Contract	PCC 1	2.1	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	The Bidder understands that the Employer will submit the Site Access Delivery Schedule, the submission of the same is unknown when these clarification questions are raised and transmitted to the Employer. The Bidder queries whether the Employer plans to get the contractor to have exclusive access to the Site with no hindrance, i.e. full possession.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05						Please clarify the status of land acquisition for construction area? Is it 100% acquired? If the land is not yet acquired, please explain the status and process	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06						Please clarify the status of land acquisition for construction area? Is it 100% acquired? If the land is not yet acquired, please explain the status and process	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04	3	Vol.3 Sec.8 Part A - Contract Data 2.1	PCC2	Time for access to the Site	-	Before going to the referred clause, Vol.2 Section 6-III. Supplementary information stipulates that the Site Hand-over is planned to 01-Sep-2021. And also there is a comment "Some works which will be concurrent with this contract". At this point, we expect that some of section will be not accessible due to concurrent work on going. Moreover, according to the referred clause, it is said that "As notified by the Employer, pursuant to a Site Access Delivery Schedule." Without the exact Site Access Delivery Schedule for the whole project Alignment, it is not possible to plan practical and feasible work schedule. For this reason, please provide the Site Access Delivery Schedule.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	2	Vol.2 Sec.6-IB GS	GS3	GS103 Possession of Site and Contractor's Mobilization	...Where site possession is not available across the whole of the works, the Employer may give possession on a staged basis where portions are available. Full site possession will be given not later than 12 months after the initial staged possession has commenced. The Contractor shall revise the Detailed Works Program to reflect the staging of works to align with the available possession ...	With the condition in the reference text, the the detailed Site hand-over schedule is essential information to reflect the staging of works to align with the available possession. Without the detailed Site hand-over schedule, it is not practically possible to make a reasonable construction programme which can achieve the challenging Key Dates of the Project. In this regard, please provide detailed Site hand-over schedule (with specific description of the delayed secitons) to bidders for their reliable proposal.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	3	Vol.3 Sec.8 Part A - Contract Data 2.1	PCC2	Time for access to the Site	-	Before going to the referred clause, Vol.2 Section 6-III. Supplementary information stipulates that the Site Hand-over is planned to 01-Sep-2021. And also there is a comment "Some works which will be concurrent with this contract". At this point, we expect that some of section will be not accessible due to concurrent work on going. Moreover, according to the referred clause, it is said that "As notified by the Employer, pursuant to a Site Access Delivery Schedule." Without the exact Site Access Delivery Schedule for the whole project Alignment, it is not possible to plan practical and feasible work schedule. For this reason, please provide the Site Access Delivery Schedule.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	2	Vol.2 Sec.6-IB GS	GS3	GS103 Possession of Site and Contractor's Mobilization	...Where site possession is not available across the whole of the works, the Employer may give possession on a staged basis where portions are available. Full site possession will be given not later than 12 months after the initial staged possession has commenced. The Contractor shall revise the Detailed Works Program to reflect the staging of works to align with the available possession ...	With the condition in the reference text, the the detailed Site hand-over schedule is essential information to reflect the staging of works to align with the available possession. Without the detailed Site hand-over schedule, it is not practically possible to make a reasonable construction programme which can achieve the challenging Key Dates of the Project. In this regard, please provide detailed Site hand-over schedule (with specific description of the delayed secitons) to bidders for their reliable proposal.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	3	Vol.3 Sec.8 Part A - Contract Data 2.1	PCC2	Time for access to the Site	-	Before going to the referred clause, Vol.2 Section 6-III. Supplementary information stipulates that the Site Hand-over is planned to 01-Sep-2021. And also there is a comment "Some works which will be concurrent with this contract". At this point, we expect that some of section will be not accessible due to concurrent work on going. Moreover, according to the referred clause, it is said that "As notified by the Employer, pursuant to a Site Access Delivery Schedule." Without the exact Site Access Delivery Schedule for the whole project Alignment, it is not possible to plan practical and feasible work schedule. For this reason, please provide the Site Access Delivery Schedule.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04	2	Vol. 2 - Part II - Requirements, Section 6 - Employer's Requirements, IB - General Specification	GS 103 - Possession of Site and Contractor; s Mobilization	103.1 - Posession of Site and Access	Paragraph 2 "the Employer shall provide the Contractor with the right of access to and possession of so much od Site….. and Paragraph 3 "so some area of the site … and will not be available to the Contractor for his use. ….. No claims in this respect from the Contractor.... due to lack of knowledge.... See GS 131 and Appendix 7 for PNR constrains".	This sentence implicated that the Employer will hand over the land in section, but no clear indication of which land/area will hand over to the Contractor, and also in Section-III Supplementary Information page 1 paragraph 5 "Land acquisition ... may not be complete before the Commencement of the Works. We would like to have the latest Relocation and Land handover schedule to the Contractor from the Employer, so to enable the bidder to meet the Key Date indicated in Section 8 Particular Conditions of Contract page PCC 7 and PCC 8. Please advice	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

CP S04-07 Responses to Clarification Requests (Batch 15)

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	2	Vol 2, Section 6	GS3	GS 103.1 Possession of site and access	-	We understand that the Employer may give possession on a staged basis where portions are available. Full site possession will be given not later than 12 months after the initial staged possession has commenced. We think that it is the essential information to align with construction sequences and program during tender stage so please kindly provide updated site possession schedule with related information. In addition, please clarify the contractor shall be entitled to extension of time, cost and profit if the staged possession is delayed.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	2	Volume 2, 01 Specification, 01 GS	GS 103	GS 133.2 Demolition of Structures and/or Obstruction within Right of Way	133.2.1 Various structures, parts of structures and/or other obstructions existing within the Right of Way (ROW) have been identified in the drawing "Status of Land Acquisition as at October 2018" included in the Bidding Documents as the Site Data.	According to the GS referred within this query, the drawing "Status of Land Acquisition as dated on October 2018" is referred with indicating that this information is contained within ITB. However, it is the Bidder's understanding that this information is not provided within the ITB. The Bidder would like kindly to request the provision of this drawing associated with "Status of Land Acquisition as dated on October 2018."	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	2	Volume 2, 01 Specification, 01 GS	GS 103	GS 133.2 Demolition of Structures and/or Obstruction within Right of Way	133.2.1 Various structures, parts of structures and/or other obstructions existing within the Right of Way (ROW) have been identified in the drawing "Status of Land Acquisition as at October 2018" included in the Bidding Documents as the Site Data.	According to the GS referred within this query, the drawing "Status of Land Acquisition as dated on October 2018" is referred with indicating that this information is contained within ITB. However, it is the Bidder's understanding that this information is not provided within the ITB. The Bidder would like kindly to request the provision of this drawing associated with "Status of Land Acquisition as dated on October 2018."	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04	1	Volume 1 Section 4 Bidding Forms	-	Access and possession of Site	The existing situation with respect to the resettlement program is indicated upon a series of drawings contained within a document entitled "Status of Site Acquisition Drawings", which is contained within the "Site Data" and is available for the Bidder's review. Demolition of structures may be required to ground level and there will be ground slabs and foundations to remove. Existing utilities crossing / infringing the Right of Way have been identified. The Contractor may be required to divert / relocate these to facilitate the proposed construction works. Surveys of existing trees and vegetation have been undertaken and permits to cut / root ball trees for replanting elsewhere will be requested prior to award of the construction contract. The Contractor may be required to undertake this work. Surveys of unexploded ordnance may be undertaken prior to award of the construction contract. This is unlikely to be required for the South Line (Commuter) area. If the surveys identify the need to dig and expose unexploded ordnance, the Contractor may be required to facilitate the Philippines Military in executing this work. Provisional sums have been included for work by the Contractor to achieve a clear site to enable the Works to commence / progress. 3. Time Chainage Diagram	As per the given note in the reference text, the amount of demolishment work is unmeasurable. Also it is possible for some land owners and tenants to be delayed in vacating their properties. So the bidder wants to confirm that the Employer is responsible for the delay of the demolishment works and to achieve a clear site according to given work schedule. For the preparation of the schedule, the bidder wants to clarify exact duration for the demolition works including both the RAP, land acquisition processes and demolishment of remaining properties by the Contractor until achieving a clear site.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04	3	Volume 3 Section 7-8	PCC 2	2.1 Time for Access to te Site	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will be issued by the Employer during the bidding period. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	As per noted in the reference text, the Bidder kindly asks for the Site Access Delivery Schedule.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	-	GS 103	-	103.1 Possession of Site and Access	Such possession and access shall be made available to the Contractor on the date for Commencement of Works as established under GCC 8.1. Where site possession is not available across the whole of the works, the Employer may give possession on a staged basis where portions are available. Full site possession will be given not later than 12 months after the initial staged possession has commenced. The Contractor shall revise the Detailed Works Program to reflect the stagining of Works to align with the available possession at no additional cost.	From the reference text appeared in GS103.1, the Bidder would like the Client to provide us with the initial staged possession given to the Contractor based on the chainage.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06	-	GS 103	-	103.1 Possession of Site and Access	Such possession and access shall be made available to the Contractor on the date for Commencement of Works as established under GCC 8.1. Where site possession is not available across the whole of the works, the Employer may give possession on a staged basis where portions are available. Full site possession will be given not later than 12 months after the initial staged possession has commenced. The Contractor shall revise the Detailed Works Program to reflect the stagining of Works to align with the available possession at no additional cost.	From the reference text appeared in GS103.1, the Bidder would like the Client to provide us with the initial staged possession given to the Contractor based on the chainage.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05	2	Volume 2, Specifications, 2.2 SCRP General Specification	-	-	GS 103, Full site possession will be given not later than 12 months after the initial staged possession has commenced.	Will the employer allow the Contractor start any work before month 12, for instance, geotechnical campaign?	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06	2	Volume 2, Specifications, 2.2 SCRP General Specification	-	-	GS 103, Full site possession will be given not later than 12 months after the initial staged possession has commenced.	Will the employer allow the Contractor start any work before month 12, for instance, geotechnical campaign?	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-04		GS 103		103.1 Possession of Site and Access	The Philippines…has the right to operate works and freight trains in addition to passanger trains over the whole Right of Way. These services will remain in operation throughout the program of the Works, so some areas of the Site which are contained within the PNR Right of Way will remain dedicated to PNR's operations and will not be available to the Contractor for his use.	The Bidder understands that, within the RoW given to the Contractor, some areas will be dedicated to PNR's operations. Here, the Bidder was not clear about some areas of the Site (i.e., within the RoW for the Contractor) associated with PNR's operations. Does 'some areas of the Site associated with PNR's operations (refer to the reference text)' include only the temporary PNR track and temporary stations? If PNR needs to possess the area other than temp PNR track and temp PNR stations, the Bidder would like the Client kindly to provide the details on the area dedicated to PNR's operations within the RoW.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-05		GS 103		103.1 Possession of Site and Access	The Philippines…has the right to operate works and freight trains in addition to passanger trains over the whole Right of Way. These services will remain in operation throughout the program of the Works, so some areas of the Site which are contained within the PNR Right of Way will remain dedicated to PNR's operations and will not be available to the Contractor for his use.	The Bidder understands that, within the RoW given to the Contractor, some areas will be dedicated to PNR's operations. Here, the Bidder was not clear about some areas of the Site (i.e., within the RoW for the Contractor) associated with PNR's operations. Does 'some areas of the Site associated with PNR's operations (refer to the reference text)' include only the temporary PNR track and temporary stations? If PNR needs to possess the area other than temp PNR track and temp PNR stations, the Bidder would like the Client kindly to provide the details on the area dedicated to PNR's operations within the RoW.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***
S-06		GS 103		103.1 Possession of Site and Access	The Philippines…has the right to operate works and freight trains in addition to passanger trains over the whole Right of Way. These services will remain in operation throughout the program of the Works, so some areas of the Site which are contained within the PNR Right of Way will remain dedicated to PNR's operations and will not be available to the Contractor for his use.	The Bidder understands that, within the RoW given to the Contractor, some areas will be dedicated to PNR's operations. Here, the Bidder was not clear about some areas of the Site (i.e., within the RoW for the Contractor) associated with PNR's operations. Does 'some areas of the Site associated with PNR's operations (refer to the reference text)' include only the temporary PNR track and temporary stations? If PNR needs to possess the area other than temp PNR track and temp PNR stations, the Bidder would like the Client kindly to provide the details on the area dedicated to PNR's operations within the RoW.	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04		Vol 3 / Sec. 8	14/32 (PCC)	2.1	As notified by the Employer, pursuant to a Site Access Delivery Schedule. This Schedule will form part of the Contract and its priority shall be governed by GCC Sub-Clause 1.5 (i)	The Employer is kindly requested to clarify the access dates to the Site and how such as; Will the Contractor be given full possession and an unhindered access? Will the Contractor be entitled to have any compensation under the Contract should any differences in the Site conditions before and after the Site visit occur? Can you please provide us the Site Access Delivery Schedule?	***Bidder is advised that further information regarding land access will be issued in Addendum 4.***

CP S04-07 Responses to Clarification Requests (Batch 16)

ANNEX "B"

Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	1	3	EQC 23&25	Construction Experience	-	Is our similar work experience which was performed by Integrated JV acceptable regardless of our share? Suppose we have just 1 work experience which satisfies the requirement for the 'length of 150m' in page no. EQC 24 and this work experience was performed by Integrated JV and our share was 50%. If this project was performed by the Consortium, the length of only 75m(50% of 150m) will be acceptable. However, since this project was performed by Integrated JV, we understood that our work experience would be accepted as the total length of 150m regardless of our share. Is our understanding correct?	*If the Bidder has been involved in all key aspects of the construction of the particular works in the contract, the Bidder may claim the experience in such contract to satisfy the requirement stated here. The Bidder shall demonstrate in full details that Bidder's designated scope of works in the Joint Venture can satisfy the requirement stated here.*
S-07	-	Site Data, SCRP Item 10.17 Depot Design Report	441	c) Consolidation Assessment	Table 8.1.3 Summary of Immediate and Secondary Consolidation of South Depot Site	Settlement of 30cm ~ 40cm is expected during construction period so considerable volume of additional embankment, around several percentage of total quantity, will be necessary for compensation accordingly. Please confirm the rate of embankment is deemed to consider such additional volume without separate measurement.	*It is Contractor's responsibility and pricing exercise to ensure the price can cater for such expected ground settlement. Please also note that a new provisional sum item (PS-12 Ground Improvement Works) has been included in Addendum 3.*
S-05	2	Sec.6-II Drawings	NSRP-DWG-VIA00-ST-1500	Deck Widening Summary		There are total 7 types of Widening Slab (Deck Widening) descibed on the referred Drawing, but there is no information where these Widening Slabs shall be installed. Considering the characteristic of Deck Widening Work, it is neccessary to know the exact locations and numbers for preparing its fabrication plan. In this regard, please provide drawing which indicates the locations and numbers of these widening slabs.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-05	2	Book 1 (Civil) VIA00	NSRP-DWG-VIA00-ST-1500 ~ 1561	Deck Widening Summary - Notes	The Contractor shall produce construction plan for all PC-Slab expansion for facilities for the approval of the Enigneer	The bidder was not able to figure out the location and quantities for deck widening for railway facilities and those of OCS pole. Kindly advise to which clause and drawings shall the bidders refer. Otherwise, may the bidder understand the Referenced Text as "The Contractor is responsible to confirm the quantity and location of expansion for faciliites by coordination with railway contractor"?	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-05	2	Section 6, II Drawings (Civil/Via05)		DWG Nº. NSRP-DWG-VIA00-ST-0062	Typical section without or with OCS pole	In order the contractor plan the sequence of moulds and rates on the Precast Yard, would you kindly clarify the number of OCS pole it would be considered and if this special section will be positioned in the same segment in each span.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-05	2	Section 6, II Drawings (Civil/Via05)		DWG Nº. NSRP-DWG-VIA00-ST-0062	Typical section without or with OCS pole	In order the contractor plan the sequence of moulds and rates on the Precast Yard, would you kindly clarify the number of OCS pole it would be considered and if this special section will be positioned in the same segment in each span.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-06	2	Section 6, II Drawings (Civil/Via05)		DWG Nº. NSRP-DWG-VIA00-ST-0062	Typical section without or with OCS pole	In order the contractor plan the sequence of moulds and rates on the Precast Yard, would you kindly clarify the number of OCS pole it would be considered and if this special section will be positioned in the same segment in each span.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-06	2	Section 6, II Drawings (Civil/Via05)		DWG Nº. NSRP-DWG-VIA00-ST-0062	Typical section without or with OCS pole	In order the contractor plan the sequence of moulds and rates on the Precast Yard, would you kindly clarify the number of OCS pole it would be considered and if this special section will be positioned in the same segment in each span.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-04	1	Part IA, Section 4	26 of 130	Bill of Quantities, No. 3, Part B	Waterproofing	Waterproofing is not mentioned on the concrete surface with exposure to soil. According to our experience and international standards, the waterproofing is required for the all-concrete surface in contact with soil. Thus, please confirm that the cost of waterproofing should include in each concrete items.	*Bidder is advised to refer to TS 500,Waterproofing Matrix Appendix 1 in Addendum 5 for the all the waterproofing requirement.* *For any discrepancy between the Drawings and the Technical Specifications, the above Technical Specifications shall govern. Drawings shall be amended accordingly in the IFC.*
S-04	1	Part IA, Section 4	26 of 130	Bill of Quantities, No. 3, Part B	Waterproofing	If waterproofing is required for the concrete surface with exposure to soil. Please provide the technical specification for waterproofing.	*Bidder is advised to refer to TS 500,Waterproofing Matrix Appendix 1 in Addendum 5 for the all the waterproofing requirement.* *For any discrepancy between the Drawings and the Technical Specifications, the above Technical Specifications shall govern. Drawings shall be amended accordingly in the IFC.*
S-04	1	Part IA, Section 4	26 of 130	Bill of Quantities, No. 3, Part B	Integral Crystalline Admixture with exposure to soil	Please confirm that the contractor can use an integral crystalline admixture to concrete wherein contact with soil instead of waterproofing.	*Bidder is advised to refer to TS 500,Waterproofing Matrix Appendix 1 in Addendum 5 for the all the waterproofing requirement.* *For any discrepancy between the Drawings and the Technical Specifications, the above Technical Specifications shall govern. Drawings shall be amended accordingly in the IFC.*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06	-	CP S-06_ATG	NSRP-DWG-ATG-ST-6200/6201	VIA06 At Grade Typical Section Sheet 1/2	U-type Retaining Wall With/Without OCS pole	Please provide the information of OCS pole locations to identify where & how many OCS poles are at Depot Access Track.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-07	-	-	-	Depot Access Track With/Without OCS Pole	-	Please provide the information of OCS pole locations to identify where & how many OCS poles are at Depot Access Track.	*The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.* *The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.*
S-05	1	Vol 1 Section 4	BF39	BIM & CMMS Implementation	Scope of Works	The Contractors scope of work is understood that provide LOD 500 model for create a list of asset, not an establish CMMS itself. Please confirm, scope of works regarding of CMMS, above and clarify below, - What kind of CMMS solution is considered or used for the Employer's O&M works. - What type of asset shall be listed for CMMS - What kind of FM data shall be collected during construction for the Employer's O&M works	*CMMS (Software) is not yet identified and CMMS Document is being developed to address consolidated information requirements from O&M, DOTr and PNR. Bidders may refer to CP NS-01 Volume Part 2 Section 1 CMMS V9, Section 11.4.6- Software Requirements and Section 11.5- Interface Requirement. Please see below the link: https://dotr.gov.ph/component/k2/item/1153-cp-ns-01-e-m-systems-and-track-works.html*
S-07	-	-	NSRP-DWG-DEP-RD-1928	North South Depot Perimeter Wall GRS Retaining Wall	-	To clarify the BOQ quantities, please provide clear boundary between Embankment for Depot (excavated material) and Embankment for GRS Retaining Wall (selected borrow material).	*Refer to NSRP-DWG-DEP-RD-1928. Along the Retaining Wall a Triangle area is Embankment of GSR Retaining Wall. Other area is Embankment of DEPO.*
S-04	2	Section 6 TS 500	Page 246 ~ 249	523 TENSILE MEMBRANE ROOF STRUCTURE (TMRS)	523.1.1 General Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure.	Please clarify that 523 specification is follow; According to specification, Membrane supplier(Subcontract) has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure. It is still under strict regulations. Therefore, there will be considerable restrictions on the selection of specialized subcontracts to carry out construction roofing structure. Please clarify that the specifications are mandatory	*Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval;* *Amended TS 523.1.1 in Addendum 5*

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04	2	Vol.2 Sec.6 IC. TS 200-Bridge and Viaducts	TS200-55	204.2.7.3 Depth of Bores	depth of drilling	"The bores shall be taken below the proposed founding level to a depth of at least 3 times the diameter of the pile. If rock is met with, the depth of drilling into rock having RQD more than 75, may be limited to 3 meters." As per Clause 204.1.1.2 Geotechnical Investigation Works in TS-200 Annex-A indicate the termination criteria for each borehole is minimum 10 continuous readings of SPT N value more than 50 or minimum 10m continuous core drilled into weak rock, and SPTs in every borehole to be performed at 1m intervals for first 15m and at 1.5m intervals thereafter. Please clarify which clause prevail over or termination of drilling meet with both clauses.	***Bidder is advised that For 204.2.7.3 Depth of Bored pile will prevail.***
S-05	2	Vol.2 Sec.6 IC. TS 200-Bridge and Viaducts	TS200-55	204.2.7.3 Depth of Bores	depth of drilling	"The bores shall be taken below the proposed founding level to a depth of at least 3 times the diameter of the pile. If rock is met with, the depth of drilling into rock having RQD more than 75, may be limited to 3 meters." As per Clause 204.1.1.2 Geotechnical Investigation Works in TS-200 Annex-A indicate the termination criteria for each borehole is minimum 10 continuous readings of SPT N value more than 50 or minimum 10m continuous core drilled into weak rock, and SPTs in every borehole to be performed at 1m intervals for first 15m and at 1.5m intervals thereafter. Please clarify which clause prevail over or termination of drilling meet with both clauses.	***Bidder is advised that For 204.2.7.3 Depth of Bored pile will prevail.***
S-06	2	Vol.2 Sec.6 IC. TS 200-Bridge and Viaducts	TS200-55	204.2.7.3 Depth of Bores	depth of drilling	"The bores shall be taken below the proposed founding level to a depth of at least 3 times the diameter of the pile. If rock is met with, the depth of drilling into rock having RQD more than 75, may be limited to 3 meters." As per Clause 204.1.1.2 Geotechnical Investigation Works in TS-200 Annex-A indicate the termination criteria for each borehole is minimum 10 continuous readings of SPT N value more than 50 or minimum 10m continuous core drilled into weak rock, and SPTs in every borehole to be performed at 1m intervals for first 15m and at 1.5m intervals thereafter. Please clarify which clause prevail over or termination of drilling meet with both clauses.	***Bidder is advised that For 204.2.7.3 Depth of Bored pile will prevail.***
S-07	2	Volume 2 Sec.6 ERQ	II. Drawings	NSRP-DWG-DEP-RD-8014 Access Track wall facing reinforcement details sheet 2	-	What is interval of OCS POLE? Is OCS POLE installed every 10 meters?	***The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.*** ***The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.***

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S-05	2	Volume 2, Section 6, II Drawings(Civil/Maintenance Road)	-	DWG No. NSRP-DWG-VIA00-ST-1301	-	The loading condition for OCS poles appeared in the drawing. However, there is no indication of whether the installation of OCS poles belong to the Bidder's scope of work. In addition, the Bidder believes that there should be any type of foundation for OCS poles embedded within the grider would be required (e.g., anchoring). Please clarify (1) if the bidder needs to know any detail associated with the foundation of OCS poles, (2) if so, please provide the details associated with supporting the OCS pole.	***The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.*** ***The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.***
S-05	2	Volume 2 TS-500	246 & 247	523.1.1/ General 523.2.1/ Material	523.1.1 General Work of this section, ...herein. Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has installed at more than twenty (20) MRT stations by using TiO2 membrane roof structure. 523.2 Products 523.2.1 Material The fabric material should be fiberglass fabric with PTFE coating and TiO2 coating. Material should satisfy equivalent figures below (Air Purify 450 (AP450) or greater. 523.2.1.1 Performance of Self-cleaning Functions Standards for Determining Performance: Decomposition index is above 5 (Test Methods for Evaluating Self-cleaning Functions: JIS R 1703-2)	According to the technical specification, the Bidder has found that only one company can meet the requirements as the specification indicates to have the experience of installing over 20 MRT stations by using TiO2 membrane roof structure. In addition, materials specified within the technical specification is patented so again only one company can supply the material. The Bidder was wondering if the Client intended to specify the company to be performed or the Bidder was allowed to subcontract any company who can perform TMRS work as long as the system is constructed meeting the performance in general accordance with the technical specification. Please clarify.	***Membrane supplier has experience of manufacturing and installing polytetrafluoroethylene (PTFE) tensile membrane structures for over twenty (20) years all over the world (including the Philippines), and has experience in installation of TiO2 membrane roof structure, subject to Engineer's approval;*** ***Amended TS 523.1.1 in Addendum 5***
S-05	2	Volume 2, Specification TS 700	-	701.1.2	Provide raceway systems for future system wide contractors as indicated.	Raceway systems for SWC is specified on neither Drawings nor BOQ. Please confirm this system is excluded from the Bidder's SoW.	***1)Raceway systems for the future system wide contractors are not covered by the scope of the Civil Works Contractor. It shall be the scope of the E&M Contractor or "By Others".*** ***2)For the Station & Substation Buildings - Raceways (which are either metallic or non-metallic conduits / enclosures to hold cables / wires) - the Bidder is advised to refer to the BOQ, Bill Nos. 4-1 through 4-4, Part F.5-Electrical Works, under Conduit and Cable Tray. For Substations, Please refer to the BOQ, Bill Nos. 6-1 through 6-5, Part E.5-Electrical Works, under Conduit and Cable Tray. Further, for the Interfacing Works, Please refer to the BOQ, Bill No. 1, Item GS126***
S-05	-	General	-	-	-	Please provide the Bidder with tapping point pipe length of storm, sewer and water line for each station.	***The bidder shall be required to coordinate with utility providers to agree tapping points which will be located within ROW.***
S-06	-	General	-	-	-	Please provide the Bidder with tapping point pipe length of storm, sewer and water line for each station.	***The bidder shall be required to coordinate with utility providers to agree tapping points which will be located within ROW.***
S-07	2	Volume 2, 01 Specification, 02 TS, SCRP_TS 500	TS 500 - 79 TS 500 - 177 TS 500 - 163	TS 502 Architectural Concrete Finishes TS 515 Damp Proofing TS 514 Waterproofing	502.1.1 Termite control and damp-proofing under the Architectural Concrete on grade shall be carried. 515.1.2 Damp-proofing shall be installed under the Concrete slab-on-grade 514.1.1.2.f Asphalt Waterproofing for underground Concrete Surface.	Please confirm if damp proofing is Asphalt Waterproofing Membrane	***Confirmed, Damp-proofing is not Asphalt Waterproofing. Damp-proofing is used for slab-on-grade, ATG Ushape and Box culverts. Lean concrete shall be provided on the pile caps.*** ***Bidder is advised to refer to TS 500,Waterproofing Matrix Appendix 1 in Addendum 5 for the all the waterproofing requirement.***

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S-06	2	Volume 2 & Section 6 (II Drawings)	CAB/BAN/CAL-STL4522	-	TYPICAL LEAKAGE GUTTER AND BUFFER DETAIL	It is specified 'GUTTER (BY OTHERS) FIXED TO SUPPORT PLATE WITH FOLDABLE TANGS. SHOWN INDICATIVELY ONLY'. → Please confirm that the stainless steel gutter is out of Bidder's scope.	*The stainless steel gutter is part of Bidder's scope.*
S-06	2	Vol.2 Sec.6 IC. TS 200-Bridge and Viaducts	TS200-52	204.2.6 Test Piles	The load shown on the Drawings shall prevail over the load specified here or elsewhere.	As per NSRP-DWG-VIA06-ST-0105, maximum pile EQ loads axial compression for P-1222 is 18074kN. If this load are to be used for Static Load Test, Conventional Static Load Test using kentledge can not be carried out. Only Bi-directional load test is available for huge test load. Considering soil profiles for this project, most of piles are embeded into very dense sand (N>50) not rock. In this case, Bi-directional cell (O-cell) should be positioned apart from pile tip. It is difficult calculate the balanced O-celll postion for upper and lower part bearing capacity. We expect the O-celll position is to be provided by the Designer if Bi-directional load test shall be applied. Please confirm if our understanding is correct.	*The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.* *Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.*

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S-04	2	Volume 2	NSCP-DWG-VIA00-ST-0320	-	Timing for Static Load test	Please confirm the timing for the static load test for pile whether it is before or during the production pile	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-05	2	Volume 2	-	Static Load Test	Static Load Test	Please clarify if the static load test will be done on test piles/sacrificial piles	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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S-05	2	Volum2 2	NSCP-DWG-VIA00-ST-0320	-	Timing for Static Load test	Please confirm the timing for the static load test for pile whether it is before or during the production pile	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-06	2	Volume 2	-	Static Load Test	Static Load Test	Please clarify if the static load test will be done on test piles/sacrificial piles	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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S-06	2	Volume 2 Section 6	Drawings_MPFS	NSRP-DWG-BAN-SN-6104, NSRP-DWG-CAB-SN-6104, NSRP-DWG-CAL-SN-6104	-	Please provide underground structrual drawings to install the waste water treatment plant.	***The Waste Water Treatment Plant is Design and Build. Bidder is advised to refer to TS 618.***
S-05	3	VOLUME 3 Part III – Conditions of Contract; Particular Conditions PCC	-	19.1 Definition of Force Majeure	N/A (related to H&S COVID19)	Recent pandemic event has considerably hampered the pursuit of critical socio-economic development undertakings in general, including that of the construction industry, and the related risks associated therewith presently remains unpredictable. In the light of this, may we suggest to please consider including Pandemic outbreaks as an exceptional event under the definition of Force Majeure. Add following at the end of clause 19.1 : (vi) Diseases and other health-related disorders declared by competent, internationally-recognized and authorized health institutions such as the World Health Organization (WHO) as pandemic outbreaks, such as novel coronavirus (COVID19), Severe Acute Respiratory Syndrome (SARS), etc.	***Bidder's request is declined. Bidder is referred to COVID-19 provisions in the Bidding Documents.***
S-06	3	VOLUME 3 Part III – Conditions of Contract; Particular Conditions PCC	-	19.1 Definition of Force Majeure	N/A (related to H&S COVID19)	Recent pandemic event has considerably hampered the pursuit of critical socio-economic development undertakings in general, including that of the construction industry, and the related risks associated therewith presently remains unpredictable. In the light of this, may we suggest to please consider including Pandemic outbreaks as an exceptional event under the definition of Force Majeure. Add following at the end of clause 19.1 : (vi) Diseases and other health-related disorders declared by competent, internationally-recognized and authorized health institutions such as the World Health Organization (WHO) as pandemic outbreaks, such as novel coronavirus (COVID19), Severe Acute Respiratory Syndrome (SARS), etc.	***Bidder's request is declined. Bidder is referred to COVID-19 provisions in the Bidding Documents.***
S-07	2	Volume 02, Book 1 (Civil) 03_CP S-07_Structures General Bid Bulletin 14	60 of 127 69 of 127 71 of 127	NSRP-DWG-DEP-RD-8001 NSRP-DWG-DEP-RD-8010 NSRP-DWG-DEP-RD-8012	Access Track, OCS Poles	In GBB 14, OCS pole locations are under design 1) Please provide the locations of OCS poles at the Access track. 2) Please provide details of OCS pole along access track. 3) Please provide pay item	***The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.*** ***The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.***
S-07	1	Volume 1/ Section 3	-	1.2.3.1	-	Key personnel in Section 3 Clause 1.2.3.1 does not tally with those in Section 6. IV. Key personnel. Please clarify	***Bidder is referred to revised 6.IV Key Personnel & Section 3 in addendum 4***

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S-04	2	Vol. 2 Sec 6 IC Technical Specfication	TS200-51 & TS-100-Annex A-13	204.2.6 Test Piles & 204.1.2.1 Test Piles	The Contract specifies Initial Load Tests for the test piles and Static Load Tests, Integrity Tests as well as Cross Hole Sonic Logging Tests for all working piles. & Payment for the test piles shall be for the accepted quantities at the contract unit price per linear meter of test pile installed, for each diameter. Reinforcing steel shall be paid in accordance with Section 207, Reinforcing Steel. The costs in connection with furnishing and installing reinforcing bar spacers, centralizers, steel reinforcing cage bracing and cross hole sonic logging tubes shall be included in that item.	This is for Test piles. But, the item of test pile isn't clearly able to be found at the BOQ in order to put fee of installtion. The contractor can put testing cost and report cost to '204(4) Static load test (SLT)' or '401(6) Static load test (SLT)' at BOQ. However, the criteria of payment for installation of test pile is unit price per linear meter of test pile. How can the contractor settle out at 204(4) or 401(6)' of BOQ? If not, the contractor have to put into '204(2)b Bored Pile (1200mmØ), (in dry conditions)', '204(2)c Bored Pile (1500mmØ), (in dry conditions)', '401(10)', and '401(11)' as well as '207(2)a Reinforcing Steel, Grade 60 for Bored Pile' and '403(2)a'?. Please, clarify it.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-05	2	Vol. 2 Sec 6 IC Technical Specfication	TS200-51 & TS-100-Annex A-13	204.2.6 Test Piles & 204.1.2.1 Test Piles	The Contract specifies Initial Load Tests for the test piles and Static Load Tests, Integrity Tests as well as Cross Hole Sonic Logging Tests for all working piles. & Payment for the test piles shall be for the accepted quantities at the contract unit price per linear meter of test pile installed, for each diameter. Reinforcing steel shall be paid in accordance with Section 207, Reinforcing Steel. The costs in connection with furnishing and installing reinforcing bar spacers, centralizers, steel reinforcing cage bracing and cross hole sonic logging tubes shall be included in that item.	This is for Test piles. But, the item of test pile isn't clearly able to be found at the BOQ in order to put fee of installtion. The contractor can put testing cost and report cost to '204(4) Static load test (SLT)' or '401(6) Static load test (SLT)' at BOQ. However, the criteria of payment for installation of test pile is unit price per linear meter of test pile. How can the contractor settle out at 204(4) or 401(6)' of BOQ? If not, the contractor have to put into '204(2)b Bored Pile (1200mmØ), (in dry conditions)', '204(2)c Bored Pile (1500mmØ), (in dry conditions)', '401(10)', and '401(11)' as well as '207(2)a Reinforcing Steel, Grade 60 for Bored Pile' and '403(2)a'?. Please, clarify it.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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S-06	2	Vol. 2 Sec 6 IC Technical Specfication	TS200-51 & TS-100-Annex A-13	204.2.6 Test Piles & 204.1.2.1 Test Piles	The Contract specifies Initial Load Tests for the test piles and Static Load Tests, Integrity Tests as well as Cross Hole Sonic Logging Tests for all working piles. & Payment for the test piles shall be for the accepted quantities at the contract unit price per linear meter of test pile installed, for each diameter. Reinforcing steel shall be paid in accordance with Section 207, Reinforcing Steel. The costs in connection with furnishing and installing reinforcing bar spacers, centralizers, steel reinforcing cage bracing and cross hole sonic logging tubes shall be included in that item.	This is for Test piles. But, the item of test pile isn't clearly able to be found at the BOQ in order to put fee of installtion. The contractor can put testing cost and report cost to '204(4) Static load test (SLT)' or '401(6) Static load test (SLT)' at BOQ. However, the criteria of payment for installation of test pile is unit price per linear meter of test pile. How can the contractor settle out at 204(4) or 401(6)' of BOQ? If not, the contractor have to put into '204(2)b Bored Pile (1200mmØ), (in dry conditions)', '204(2)c Bored Pile (1500mmØ), (in dry conditions)', '401(10)', and '401(11)' as well as '207(2)a Reinforcing Steel, Grade 60 for Bored Pile' and '403(2)a'?. Please, clarify it.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-04	1	Section 4A BOQ	Bill No. 4 Stations	Geotechnical Investigation Works		Please confirm how many holes for Geotechnical Investigation Work for each station.	***Please refer to TS-400 Section 401.2.7.2 Extent and Number of Bores stating "Bores shall be taken at the span of the station and located every 40m throughout the station span. In addition, there shall be 2 confirmatory bore holes to be conducted for each station"***
S-07	2	Book 1 (Roads) Structures Drawing	-	NSRP-DWG-DEP-RD-8010 to 8012	-	Please verify if OCS Pole is included in subcon's scope of work. If so, please provide plan/s showing OCS Pole location and detail.	***The design of OCS pole (position and pole spacing), pole supply and installation are the scope of separate E & M contractors. The civil contractor has to provide Pole foundation with installation details from E&M Contractor through regular interfacing liaison during contract implementation. For the bidding purpose, the Bidder shall assume an interval of 40 meter for the OCS poles.*** ***The Employer has provided a Provisional Sum item for Interface Works - Physical construction interface works including but not limited to OCS Pole foundations, to cover any necessary interfacing works which are to be detailed during contract implementation.***
S-07		Volume 2 Specifications TS 700	118	**TS 713 Building Management System** **TS 713.2.7 Building Management System (BMS)**	**Building Management System For Other Small Buildings:** **a) Unscheduled Repair Shop** **b) Wheel Re-profiling Shop** **c) Catenary Maintenance Vehicle Shop** **d) Oil Storage for Light Repair Shop** **e) Hazardous Store** **f) Truck Garage Building** **g) Track Maintenance Office** **h) Maintenance Car Shop** **i) Canteen** **j) Depot Sectioning Post**	Please confirm if the Air Conditioning Systems, Fans, and Heat Reclaim Ventilators for Small Buildings are not required to be interfaced in the Building Management System (BMS)	***Yes it is confirmed.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-07		Vol.2 & 03_CP S-07_ Structure	NSRP-DWG-DEP-RD-1926 BOQ no,204 (5)c	NSRP-SOUTH DEPOT PRIMETER WALL, Piled RC Retaining Wall, TYPE 2 Low-strain pile integrity testing(Φ1500mm)		There is discrepancy between drawings and BOQ regarding the number of low-strain pile integrity testing which will be tested on every pile We can't calculate the same number(597 nos.) of low-strain pile integrity testing written in BOQ using Table.1 Retaining Wall Schedule in drawing no. 1926. Would you please check pile spacing and number of low-strain pile integrity testing ?	***Considering 10m length of Piled RC Wall: 1) The spacing of pile is 3.75m for 1.5m diameter bored pile. 2)For number of testing please refer to TS, 200, Section 204.2, Subsection 204.2.6, Clause 204.2.6.3 Integrity Tests, Paragraph 1. Additionaly 597 Nos under pay item 204(5)c of Low strain pile integrity testing is correct***
S-07		Volume 1	Section 4 Bidding Form (BF)	Bid Security (Bank Guarantee)	Letter	In reference to our previous letter with reference XXXX-PSDBM-CPS07-2021-003 dated 04 March 2021 RFC No. 4 Item No. 1 (see Annex A), wherein we requested for the amendment of the Bid Security (Bank Guarantee) form under Section 4 Bidding Form page BF 12 to indicate the specific expiry date of the Bid Security. This is to comply with the Banko Sentral ng Pilipinas (BSP) Manual Regulation for Banks, Section X347 Standby Letters of Credit under sub-item X347.1 (c) that states "The Bank's obligation shall have an expressed expiration date." (see Annex B). We note that the response in GBB 21 dated 20 March 2021 page 41 of 69 was "The Bidder shall use the form template included in the standard bid documents. The bidders shall provide necessary justifications for the proposed change for Employer's consideration." We are respectfully requesting for reconsideration that the suggested amendment be accepted for the bid of SCRP CPS-07 as no bank would issue a bid security without an expressed expiry date based on the said BSP Regulations. Furthermore, the same request was approved by DOTr in the bid for Metro Manila Subway Project Phase 1, Package CP104 (see Annex C). Attached herewith is Bidding Form Bid Security (Bank Guarantee) page BF12 with the requested amendments for your perusal (see ANNEX D)	***Bidder is advised that Bidding Forms as provided in the Bidding Document shall not be modified.***
S-06		Volume 2	SOW-14	Sec.6-IA Scope of Works	2.4.4 Standardisation of Electrical and Mechanical Equipment It is a requirement of the Employer that to the greatest extent possible, certain of the Electrical and Mechanical elements of the SCRP should be standardised across the entire Project.	Bidder would like to clarify that considering operationability and maintenanceability is this requirement shall include other DOTr/PNR project such as NSCR (North-South Commuter Railway) project.	***The requirement shall be applied to all of NSCR Project.***

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S-07		Volume 2, Section 6, IC, SCRP TS 500	TS 500 -210 TS 500 -214 TS 500 -218 TS 500 - 393 to 394 Bill 4 -1.1 to 4-3.2 Bill 6.1	TS 519 Intumescent Fireproofing TS 519.1.9 Product TS 519.1.19 Testing/Certification/Listings TS 519.1.31 Performance Requirements TS 548 Painting 548.2.2 Materials	General Type: A single pack, solvent based intumescent coating for fire protection of structural steel Description: A decorative thin film intumescent coating designed for the fire protection of steelwork for two to four(2-4) hour ratings. Features: Thin Film Coating UL/ULC Listed, UL 1709- rated Wet film Thickness: 1.14mm per coat Dry film Thickness: 0.8mm per coat Solids Content: by Volume 67% Underwriters Laboratories Inc: Intumescent Paint has been tested in accordance with ASTM E-119(UL263) and UL 1709 at Underwriter's Laboratories, Inc. Intumescent paint is listed by UL and ULC. UL 1709: XR623 3) Fire Resistance Design: Indicated in Drawings Tested according to ASTM E 119 or UL 263. The Contractor shall use UL 1709 or ASTM E 1529 test method, with testing by a qualified testing agency. 10) Paint for Designated Steel Members: high build, organic, zinc rich, paint/ epoxy resin paint with long coating interval/ high build, inorganoc polysiloxane paint (3 coats system) a) Primer, b) Inetmediate, c) Topcoat BOQ D548(7) Fireproofing (Intumescent Paint for Metal/Steel)	1. Please verify the specification for painting for Structural Steel 1.a) per BOQ D548(7) = TS 548 1.b) per TS 519 2. If item 1.b will govern, please confirm that UL263 for testing method is acceptable	***1) a) BoQ D548(7) = will be corrected to D519(1) in Addendum 5.*** ***b) Please refer to TS 519*** ***2) It is confirmed that UL263 for testing method is acceptable as stipulated in TS 519.1.19. Please take note that it should also pass the UL 1709 testing as these are two (2) separate test/conditions.***
S-07		Volume 2, 02 Book 1 (Civil), 03_CP S-07_Structures	NSRP-DWG-DB1-ST-4121 NSRP-DWG-DB2-ST-4111	Detention Basin 1 and Basin 2		Please confirm that no Waterproofing required for Detention Basin 1 and Basin 2	***Confirmed, No waterproofing shall be applied on detention basins 1 & 2.*** ***Bidder is advised to refer to TS 500,Waterproofing Matrix Appendix 1 in Addendum 5 for the all the waterproofing requirement.*** ***For any discrepancy between the Drawings and the Technical Specifications, the above Technical Specifications shall govern. Drawings shall be amended accordingly in the IFC.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04		Volume 2			Test Piles for Static Load Test	Please confirm if test piles will be included in the pay item for static load test. If yes, please specify length of test piles to use for viaduct and stations so that all bidders will price the same assumptions	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-04				Static Load Test	GBB 16 25 Mar 2021 of package CP S-04 GBB 20 13 April 2021 of package CP S-04	Please confim whether the static Load test shall be done on the working pile or scarifical pile. With reference the GBB 16, it is static load tests are on working pile but the GBB 20, it is saying the static load tests are on test piles.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-04		Volume 1 Section 4	BF24	Management & Supervision -Site Organization	-	To ensure a fully compliant and responsive submission to the client's requirements, we would like to seek the Client's guidance in the preparation of the following: (1) Project Management Chart (3) Site Management Chart (5) Work Supervision Resources Chart What constitutes a Project Management Chart when compared to a Site Management Chart and to a Work Supervision Resources Chart and vice-versa? What level of detail in terms of level of positions are required to be exhausted for each of the above-mentioned charts? Clarification is sought to ensure we have a common understanding in the preparation of the above required charts. A visual representation/diagram to show what is required for each would be appreciated	***Bidder is advised there is no specific definition of these charts and the bidders shall develop these charts in line with its experience on similar projects.***
S-05		Volume 2			Test Piles for Static Load Test	Please confirm if test piles will be included in the pay item for static load test. If yes, please specify length of test piles to use for viaduct and stations so that all bidders will price the same assumptions	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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S-05				Static Load Test	GBB 20 13 April 2021 of package CP S-04 GBB 21 21 April 2021 of Package CP S-05	Please confirm whether the static Load test shall be done on the working pile or sacrificial pile. With reference the GBB 21 of package 5, it is static load tests are on working pile but GBB 20 is saying the static load tests are on test piles.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-05		Volume 1 Section 4	BF24	Management & Supervision -Site Organization	-	To ensure a fully compliant and responsive submission to the client's requirements, we would like to seek the Client's guidance in the preparation of the following: (1) Project Management Chart (3) Site Management Chart (5) Work Supervision Resources Chart What constitutes a Project Management Chart when compared to a Site Management Chart and to a Work Supervision Resources Chart and vice-versa? What level of detail in terms of level of positions are required to be exhausted for each of the above-mentioned charts? Clarification is sought to ensure we have a common understanding in the preparation of the above required charts. A visual representation/diagram to show what is required for each would be appreciated	***Bidder is advised there is no specific definition of these charts and the bidders shall develop these charts in line with its experience on similar projects.***

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S-06		Volume 2			Test Piles for Static Load Test	Please confirm if test piles will be included in the pay item for static load test. If yes, please specify length of test piles to use for viaduct and stations so that all bidders will price the same assumptions	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-06		Volume 1 Section 4	BF24	Management & Supervision -Site Organization	-	To ensure a fully compliant and responsive submission to the client's requirements, we would like to seek the Client's guidance in the preparation of the following: (1) Project Management Chart (3) Site Management Chart (5) Work Supervision Resources Chart What constitutes a Project Management Chart when compared to a Site Management Chart and to a Work Supervision Resources Chart and vice-versa? What level of detail in terms of level of positions are required to be exhausted for each of the above-mentioned charts? Clarification is sought to ensure we have a common understanding in the preparation of the above required charts. A visual representation/diagram to show what is required for each would be appreciated	***Bidder is advised there is no specific definition of these charts and the bidders shall develop these charts in line with its experience on similar projects.***
S-07	Volume 2	Sec.6 ERQ	N/A	C. Technical Specification TS200 Annex A 204. Bored Piles	204.1.2.4 Extra Over for Breaking Out Obstructions The payment of extra over for breaking out obstructions shall be for the accepted quantities at the contract unit price per cubic meters of the voids formed by the removal of rock (except bedrock), boulders, artificial hard material and the like, which can only be removed by special plant and which is within the specified cross section of the pile. The unit price shall include provision, maintenance and removal of specialist equipment, over break and making good.	There is no pay item provision of "Extra over for breaking out obstruction" in BOQ. Please confirm it will be payable in new negotiated rate in appearance of boulder or rock layer during drilling of bored piles.	***The Bidder is advised to refer to the updated BOQ, Bill No. 8, Item No. PS-13 - Extra Over for Breaking Out Obstructions. Updated BOQ shall be issued as Addendum 5.***

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S-07	Volume 1	Sec.4A BoQ	N/A	Miscellaneous Works (Furniture)		Please provide specifications of Furniture.	***GS 100 , Appendix 5, Section 5.2 contains the specifications of the furtniture.***
S-07	Addendum 2 Volume 2	01_Specifications 01_GS SCRP S-07 Vol.2 Sec.6 IB Appendix 5 Facilities for Emp-Eng 2021.03.10 FINAL	GS 100 - Appendix 5 - Page 3	5.1 Offices	During the construction period of the offices, the Contractor shall provide suitable temporary accommodation to be agreed by the Engineer.	Please provide details for temporary accommodation such as size, furniture and etc..	***Temporary accommodaition shall be provided during the construction period of offices for the Engineer/Employer. As such, the Contractor shall provide temporary accommodation to satisfy the minimum requirements of the site office.***
S-07	Addendum 2 Volume 2	01_Specifications 01_GS 2.2 SCRP General Specification S-04 to S-07_20210311	GS -115	130.2.3 Other Insurances as required by the Employer or by the Laws of the Philippines f) Professional Indemnity (PI) Insurance	Where the Contract requires the Contractor to carry out any elements of Permanent Works Design, he shall ensure that he, or his consultant designer, is appropriately covered by sufficient Professional Indemnity insurance. At the Contractor's discretion, major aspects of Temporary Works Design may also necessitate PI Insurance cover.	We understand that the Contractor shall ensure permanent works design such as elevator and temporary works design which are prepared by the Contractor and the works aforesaid shall be covered by Professional Indemnity insurance. Also the Contractor has no responsibility for other permanent works design carried out and provided by Employer. Please confirm regarding two issues above.	***Yes, About the design responsiblity, the Contractor has responsility for elevator and temporary works which are designed by Contractor. And the Contractor has no responsibility for other permanent works design carried out and provided by Employer.***
S-07	Volume 2	Sec.6 ERQ	TS-100-Annex A-16	111 Manhole, Inlets and Catch Basins 111.1.1 Method of Measurement	Manholes, inlets and catch basins, both new and reconstructed as applicable, shall be measured in unit "each"……Excavation and backfill also will be considered as included in the payment for the manhole, catch basin and inlet.	1) Shall blind stone layer and compacted sand layer under Manhole/Catch Basin be deemed included in the pay item "Manhole, inlets and catch basin" or separately measured under pay item 206(10)d? 2) Shall ladder lung inside manhole and catch basin be deemed included in the pay item "Manhole, inlets and catch basin" or separately paid?	***1. Yes, Blind Stone Layer and Compacted Sand Layer under Manhole/Catchbasin shall be deemed included in the pay item of "Manhole,inlets and Catchbasin".*** ***2. Yes, ladder rung inside the manhole/catchbasin shall be deemed included in the pay item if "Manhole,inlets and cathbasin.***
S-07	Volume 2	Sec.6 ERQ	TS-200-Annex A-13	204.1.2 Payment 204.1.2.1 Test Piles	Payment for the test piles shall be for the accepted quantities at the contract unit price per linear meter of test pile installed, for each diameter. Reinforcing steel shall be paid in accordance with Section 207, Reinforcing Steel. The costs in connection with furnishing and installing reinforcing bar spacers, centralizers, steel reinforcing cage bracing and cross hole sonic logging tubes shall be included in that item.	In page 11 of your response to clarification request (Batch 9), you answered Test pile for bored is to be paid under 204(4) Static Load tests(SLT) which provides unit price for testing Nos. In this case Test pile should be priced just based on number of Testing without knowing Test pile details such as diameter and length. Clause 204.1.2.1 of TS 200 Annex stipulates Test piles shall be paid for unit price per linear meter of Test piles installed, for each diameter. In our understanding, construction price of test piles shall be measured under pay item for bored pile construction, for example "204(2)a Bored pile (1000mm diameter), (in dry condition)" Please clarify.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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S-07	Volume 2	02_Book 2 03_S07 ELEC		NSRP-DWG-CMV-EL-5011 Wire connection between H/H and MDP		In the drawing, the cables between CMV-1PP1 and Handhole as well as CMV-1LP1 and Handhole are individually connected. Is it correct configuration? We consder the cable from Handhole shall be connect to CMV-MDP-01 Please confirm.	***Confirmed. Cables passing through the handhole is connected to CMV-MDP-01.***
S-07	Volume 1	Sec.4A BoQ		Miscellaneous Works (Furniture)		Your answer to the following question in Batch.12 is not appropriate. Q) Please provide specifications of Furniture. A) The borrowed embankment should be all suitable materials. Please refer to TS 103. Please provide appropriate answer to the question.	***Bidder is advised to refer to GS Appendix 5 in Addendum 2.***
S-04		Site Data: EIA (Environmental Impact Assessment) dated September 2020	*Page 1-1*	*1. Project Description*	55. The Project will not share the tracks of the proposed freigth and long-haul trains. PNR line will continue its operation while the Project is being construcucted. Existing tracks will be reused for the freight and long-haul trains operation.	Referring to the underlined sentence within the reference text, (1) Please clarify if there is any existing PNR track to be used during the course of the construction by the Bidder. (2) If the reply of (1) is YES, please specify (a) chainage where the existing track will be used, and (b) the time schedule assocaited with the use of the exisitng PNR track.	***1. It is not possible for the bidder to use the existing PNR track.***
S-04		Vol 2 Sec 6 II drawing Drawing Detail CP S04-07 Responses to Clarification Request (GBB No. 17) dated March 26, 2021		*AT-GRADE MAINLINE DRAINAGE DETAIL OF DRAINAGE CROSSING* *CP S04-07 Responses to Clarification Request (GBB No. 17) dated March 26, 2021*	**Clarification request:** **Quantity of Breaking concrete & Backfill for existing canal'** **- Please clarify that the quantity of Breaking concrete & Backfill for existing canal are included in BOQ.** **If it is included, please inform us which BOQ item is included that quantity.** **Final Response:** **Quantity for Breaking Concrete & Backfill for Existing Canal were already included in the BOQ issued in Addendum 2. Please use the following pay item:** **202(2) Removal of Existing Lined Canal; and** **103(1)d Embankment for Existing Canal/(Selected Borrow material).** **Quantities are only assumed due to unknown data. Contractor to verify and check on site.**	Although the Client referred to 103(1)d Embankment for Existing Canal/(Selected Borrow material) which will be appeared in Addendum #2, this item was not found within Addendum #2. Please clarify.	***The pay item 103(1)d Embankment for Existing Canal was included under Bill 5 Addendum 3.***
S-05		Site Data: EIA (Environmental Impact Assessment) dated September 2020	*Page 1-1*	*1. Project Description*	55. The Project will not share the tracks of the proposed freigth and long-haul trains. PNR line will continue its operation while the Project is being construcucted. Existing tracks will be reused for the freight and long-haul trains operation.	Referring to the underlined sentence within the reference text, (1) Please clarify if there is any existing PNR track to be used during the course of the construction by the Bidder. (2) If the reply of (1) is YES, please specify (a) chainage where the existing track will be used, and (b) the time schedule assocaited with the use of the exisitng PNR track.	***1. It is not possible for the bidder to use the existing PNR track.***

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S-06		Volume 2, Specification TS 700		*711.3.1*	The lift steelwork shall be bonded to the lighting protection system. Curtain wall shall be properly earthed to the building lightning protection system.	Bonding of metallic materials is specified in neither Drawings nor BOQ. Please advise the item where bonding of metallic materials is included.	***The Bidder is advised that the related works for the bonding of metallic materials shall be covered by the Bill Nos. 4-1, 4-2 & 4-3; Part F.5- Electrical Works - Lightning Protection System and Earthing System.***
S-06		Site Data: EIA (Environmental Impact Assessment) dated September 2020	*Page 1-1*	*1. Project Description*	55. The Project will not share the tracks of the proposed freigth and long-haul trains. PNR line will continue its operation while the Project is being construcucted. Existing tracks will be reused for the freight and long-haul trains operation.	Referring to the underlined sentence within the reference text, (1) Please clarify if there is any existing PNR track to be used during the course of the construction by the Bidder. (2) If the reply of (1) is YES, please specify (a) chainage where the existing track will be used, and (b) the time schedule assocaited with the use of the exisitng PNR track.	***1. It is not possible for the bidder to use the existing PNR track.***
S-06		Vol 2 Sec 6 II drawing Drawing Detail CP S04-07 Responses to Clarification Request (GBB No. 17) dated March 26, 2021		*AT-GRADE MAINLINE DRAINAGE DETAIL OF DRAINAGE CROSSING* *CP S04-07 Responses to Clarification Request (GBB No. 17) dated March 26, 2021*	Clarification request: Quantity of Breaking concrete & Backfill for existing canal' - Please clarify that the quantity of Breaking concrete & Backfill for existing canal are included in BOQ. If it is included, please inform us which BOQ item is included that quantity. Final Response: Quantity for Breaking Concrete & Backfill for Existing Canal were already included in the BOQ issued in Addendum 2. Please use the following pay item: 202(2) Removal of Existing Lined Canal; and 103(1)d Embankment for Existing Canal/(Selected Borrow material). Quantities are only assumed due to unknown data. Contractor to verify and check on site.	Although the Client referred to 103(1)d Embankment for Existing Canal/(Selected Borrow material) which will be appeared in Addendum #2, this item was not found within Addendum #2. Please clarify.	***The pay item 103(1)d Embankment for Existing Canal was included under Bill 5 Addendum 3.***

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Packages	Vol	Sec	Page No.	Clause No./Title	Reference Text (if necessary)	Clarification Request	*Final Response*
S-06		Sec 4A BOQ CP S04-07 Responses to Clarification Request (GBB No. 14) dated February 26, 2021		*Part B – Specific Provisions* *CP S04-07 Responses to Clarification Request (GBB No. 21) dated April 20, 2021*	"[…] 2) In circumstances where the required quantity of work would be exceeding the quantity as per the tender BOQ, the contractor should inform the Engineer and the Employer in writing. No work in excess of the tender BOQ quantity should be performed without the knowledge and prior approval of the Engineer / Employer. […]"	Reference is made to the Employer's response as referenced herein in relation to the ad measurement contract type. Further to the Employer's response, we understand that the Contractor shall inform the Engineer each and every time where the required quantity of the works are to exceed the quantities in the tender BOQ. As this notification and Engineer's/Employer's approval process may result in delays in execution (considering no. of items in BOQ and unknown no. of items to exceed tender quantities), please confirm the Engineer's/Employer's reply period upon receipt of the Contractor's written notification as requested in the Employer's response.	***Bidder is referred to Volume 3, Particular Conditions of Contract.***
S-06		Volume 2 TS	TS 401.2.6 NSRP-DWG-VIA00-ST-0320	Test pile	Test piles which are used to arrive at the load carrying capacity shall not be incorporated in the structures. Test pile selected by the engineer…...	The client confirmed that based on the stated provisions in TS204.2.6, Test piles, which are not to be incorporated in the completed structure, shall be removed to at least 600mm below the proposed soffit level of pile cap through Batch number 11(No. 67, 102). But Client also confirmed that the Static Load Test shall be conducted for the Working Pile (or Permanent Pile) through Batch number 12 (No. 137). Is the contractor able to conduct the static test for the preliminary pile only? or permanent pile (=working pile) as well?	***Static load test shall be conducted on test/sacrificial pile.***
S-06		Volume 2 GS	GS 119.3.1	IFC Drawing	IFC Drawings issued immediately after commencement date	Is the contractor able to generate a test pile shop drawing base on the IFC drawing which will be issued immediately after the project commencement date?	***Yes, the contractor can generate a test pile shop drawing based from the IFC Drawings. The Bidder is advised to refer further to the General Specifications, Section GS119, Sub-section 119.3; Clause 119.3.2, Paragraph 1 through 5.***
S-06		Volume 1 Sec 4A Volume 2 TS	Sec 4A BOQ TS 200_Annex A	Bill No. 4 204.1.1.1	Test Pile Quantity	The quantity of Static Load Test (SLT) in the BOQ (4nos) is different from TS200 Annex A (2nos). Please confirm the required quantity for SLT.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***

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S-06		Volume 2 TS	TS 200_Annex A	204.1.1.1	Test Pile	Is it possible to commence the staged permanent pile installation before all the 11 pile tests are completed? For example, once the contractor gets approval for the test pile report section by section, can the contractor commence the permanent pile work in the relevant section?	***Pile load tests shall be conducted before permanent pile installation.***
S-06		Vol. 1 Sec. 4	BF 27	3. Precast Concrete Segmental Fabrication and Erection	A narrative giving comprehensive details of the production cycle for one single standard size (400m) Segmental Box Girder including curing etc. including a brief description of the Quality Assurance system that will be adopted for all pre-cast.	The length of one single standard size seems to be 40 meters instead of 400 meters based on the drawings provided by Client. Please confirm the length in the text for us to prepare MS correctly.	***Confirmed, standard size of precast segmental box girder is 40m.***
S-06		Vol.2 03_CP S-06_VIA06	12	GS 131.4		Referring to General Specification 131.4, the Contractor are required to erect safety hoarding along the PNR. The safety hoardings shall be located a minimum 2m to the face or any component of the fence on the PNR side from the nearest rail of the adjacent PNR railway track to leave at least 800mm clearance inside the PNR zone for personal safety purpose. In case SCRP viaduct will be constructed over the PNR track as shown the below location, is there any required safety protection measure over PNR?	***The bidder shall provide necessary protection measures to PNR operation.***
S-07		Vol 3. Sec.8 PCC	PCC 7 PCC 8	Summary of Key Dates		Please provide the access milestone for LV Power incomming from MV and communication accessibility from LAN	***The bidder shall refer to Key Date KD03-1.***
S-07		Vol 3. Sec.8 PCC	PCC 7 PCC 8	Key Dates - KD 03-2		What is expected schedule(commencement, duration) to install track inside LRS building?	***The bidder shall refer to Key Date KD03-2.***
S-07		Vol.1 Responses to Clarifications Requests (Batch 9) Vol.2	- Bill No.2 - page 22 - page TS100-24	-ITEM No. 103(1)b -Final Response - 102.2.9 Removal of Unsuitable Material	-Embankment (Using Common Soil Excavation) QUANTITY 111,305.00 cum -Embankment (Using Common Soil Excavation) are the total volume of from all excavated suitable materials from all structure in Depot Area (roads, drainage, retaining walls, detention basins, Depot buildings, south Depot underpass etc) - the Engineer may require the Contractor to remove the unsuitable material and backfill to the finished graded section with approved material	From the response of the 9th clarification, the common soil 111,305 cubic meter is understood to be the quantity of all excavations excluding the backfill, since there is no disposal soil item in entire BoQ. According to TS 102.2.9, the amount of "Unsuitable material" cannot be utilized for embankment and other backfill, therefore it should be excluded from 111,305 cubic meter reuse of soil. At this tender stage, bidder can not evaluate and measure suitable soil volume in excavated material because it shall be confirmed during construction stage by Engineer's approval. To address this uncertainty of common soil volume and disposal soil volume within ROW, please clarify and demonstrate how the 111,305 cum calculated with detail.	***The Bidder is advised that the BOQ Quantity for Item 103(1)b is the "compacted volume of suitable materials / embankment (using common soil excavation)" and definitely does not include unsuitable materials. The Bidder is further advised to refer to the Technical Specifications, TS 100_Annex A, Section 103_Embankment, Sub-section 103.1; Clause 103.1.1-Method of Measurement. Also refer to TS 200_Annex A, Section 201, Sub-Section 201.1; Clause 201.1.1; Sub-Clause 201.1.1.1***
S-07		Vol.1 1.3b CP S-07 Vol.1A Sec.4A BOQ_Add.2_20210310	Bill No.2	ITEM No. 201(4)d, 103(1)b, and 103(1)c	PART A EARTHWORKS	Please provide the shrinkage factor value applied on the BOQ of Embankment quantities.	***The Bidder is advised that the Embankment & Backfill Quantities in the BOQ such as for Item Nos. 103(1)b, 103(1)c and 201(4)d - are "compacted volumes", shrinkage factor does not apply. Please refer to the Technical Specifications, TS 100_Annex A, Section 103_Embankment, Sub-section 103.1; Clause 103.1.1-Method of Measurement. Also refer to TS 200_Annex A, Section 201, Sub-Section 201.1; Clause 201.1.1; Sub-Clause 201.1.1.1***

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S-07		Vol.2 & 03_CP S-07_ Structure	NSRP-DWG-DB1-ST-4101, 4152, NSRP-DWG-DB2-ST-4101, 4152 BOQ no,204 (2)c	Detention Basin Foundation Plan 1500dia Pile Details Bored Pile(1500mmΦ)		There is discrepancy between drawings and BOQ regarding the length of Bored Pile(1500mmΦ) of Detention Basins. Based on the drawings, the number of bored piles in Detention Basin 1 & 2 are respectively 152ea and 64ea. The total number of bored piles are 216ea and It is exactly same as low strain pile integrity testing number of 216ea. However, Pile length described in drawings are respectively 19.0m and 19.5m in Detention Basin 1 &2. So, the length of Bored pile length is calculated 4,136m but 3,832m in BOQ. Would you kindly clarify this discrepancy?	***Please refer to the revised / updated BOQ, Bill No. 5, Part E, Item 204(2)c.*** ***Updated BOQ shall be issued as Addendum 5.***
S-07		Vol. 2 TS 100	103.2	Embankment		1)Please provide any idea if the material from currently candidated borrow pit don't satisfy the Material Requirement. 2) Please let us know the material is available when the material exceed 15% (eg. 20%) of Sieve No. 200 3) Please let us know if you can suggest the upper and lower limit for Sieve No. 200 passing rate. 4) There is no way to ensure 15% or less for Sieve No. 200 passing rate. Why don't you to decide the material requirement (eg. Passing rate should not be more than 15% for Sieve No.200) at the construction state with consensus between Contractor and Engineer?	***1. The contractor shall identify the potential location of borrow pit material, subject to testing and approval by an accredited material engineer on site.*** ***2. all material exceeds 15% of sieve no. 200 shall be subject to testing and approval by an accredited material engineer on site.*** ***3. The contractor can suggest the upper and lower limit for Sieve No. 200 passing rate but subject to testing and approval by an accredited material engineer on site.*** ***4. The contactor shall recommend sieve no. or the passing rate shall be subjected to testing and approval of the accredited materials engineer on site.***

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S-04		Volume 2 & Section 6, Part II Requirement GBB 16 - Batch 8 GBB 17 - Batch 9 GBB 20 - Bacth 11 GBB 20 - Bacth 11 GBB 21 - Batch 12	53 of 372 75 of 94 12 of 44 15 of 29 22 of 29 29 of 70	TS 200 - 204.2.6 S04 - Static Load Test S07- Test Piles S04 - Static Load Test (SLT) S06 - Test Piles S05 - Test Pile	-The Contract specifies Initial Load Tests for the test piles and Static Load Tests, Integrity Tests as well as Cross Hole Sonic Logging Tests for all working piles. -Yes, as per TS 204.2.6, "..Initial Load Tests for the test piles and Static Load Tests, Integrity Tests as well as Cross Hole Sonic Logging Tests for all working piles." -1.a) Please refer to pay item 204(4). 1.b) Please refer to pay item 207(2)a. -Test piles shall not be incorporated in the completed structure and shall be removed to at least 600mm below proposed soffit level of pilecap (See TS 204.2.6). -Test piles are included in the cost of PIN 401(6) --- Static Load Test (SLT). -Q1) Yes. The Static Load Test shall be conducted for the Working Pile (or Permanent Pile). Q2) The Bidder is advised to refer to the appropriate and particular Bored Pile Drawing corresponding to S-05 instead of referring only to the Typical Drawing. The Load is indicated on the Drawing. Q3) Test piles which are used to arrive at the load carrying capacity shall not be incorporated in the structure, including 1 x L2 Pile earthquake load. Q4) Initial Load test (or Preliminary Load Test), shall be referred to the Static Load Test. Please see Technical Specifications, TS 200, Section 204, Sub-Section 204.2; Clause 204.2.6.1.	The working pile for all tests has significant confusion due to the contradiction between clarifications. As stated many times with the most emphasis, please confirm that all test piles shall be working pile and the construction cost of concrete and rebar shall be paid as per unit rate inside BoQ.	***The Contractor shall allow for 11 number (sacrificial) test piles per contract package, the static load testing of working piles to the loads given in the pier schedule is not permitted. At least one test per pile size (diameter) per soil class shall be carried out in each package, the location of the remainder will be determined by the Engineer. The actual length will be determined by the Engineer and will depend on the soil conditions at the agreed location of the test piles. The sacrificial test piles will be subject to a static load test, the magnitude of the load test will be maximum of 1 x L2 Earthquake load, as given in the pier schedule. The acceptance criteria is given on drawing NSRP-DWG-VIA00-ST-0320. The object of the pile test is not only to verify the geotechnical parameters assumed in the design but also for the Contractor to demonstrate his working methods for constructing the piles. The static load test shall be "Maintained Load Test" and the loads shall be applied and maintained as per ATM D1143-81.*** ***Alternative test methods may be proposed by the Contractor but he must clearly indicate what the advantages and savings his method would bring to the Client and that the alternative method would still validate the assumed design parameters. The Contractor shall also note that working piles are not permitted to be used as "Reaction" piles during the static load test. The contractor shall allow for additional sacrificial piles if the reaction method is to be used. Bidder to refer to updated BOQ in Addendum 5.***
S-04		General	Bid Security			The Bidder kindly requests from the Employer to share its bank details in order for the Bidder to issue the Bid Security from its bank outside Philippines in the form of a SWIFT message in the form of MT760 as per ITB 19.3	***Bank: Land Bank of the Philippines - UN Branch*** ***Account Name: Procurement Service - DBM*** ***Account Number: 001442-1012-10*** ***Swift Code: TLBPPHMMXXX***
S-04			GBB 20 GBB 21	Page 14 of 28 Page 28 of 69	Q) Please confirm that the working piles can be allowable to use for the static load tests. R) Test piles shall not be incorporated in the completed structure and shall be removed to at least 600mm below proposed soffit level of pilecap (See TS 204.2.6). Q) Question 1: Static load test (BOQ No.2, Item 204(4)) is conducted on permanent pile? R) Q1)Yes. The Static Load Test shall be conducted for the Working Pile (or Permanent Pile).	According to GBB 20 and GBB 21, it is discrepancy in response. Please, clarify that Static load test can be conducted to Permanet pile, or not.	***No. Static load test shall be conducted to test pile / sacrificial pile.***
S-04			GBB 17 GBB 20	Page 11 of 43 Page 22 of 29	Q) Please verify unit of measure for Test Pile, is it numbers or linear meter. R) Unit of measurement is linear meter (l.m.) Q) Please clraify the concrete and rebar quantity of test piles is included in the Bill of Quantities. R) Test piles are included in the cost of PIN 401(6) --- Static Load Test (SLT).	According to GBB 17 and GBB 20, it is discrepancy in response. PIN 401(6) is Static Load Test at BOQ. The unit of 401(6) is 'Nos'. The unit of 401(10) and 401(11) is 'l.m.' Please, clarify which item measurement of Static Load Test belong to, 401(6) or 401(10) or (11).	***Please refer to the Updated BOQ, Addendum 5, Bill No. 4-1 to Bill No. 4-4; Item 401(6) - Static Load Test (SLT).***

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S-05			GBB 20 GBB 21	Page 14 of 28 Page 28 of 69	Q) Please confirm that the working piles can be allowable to use for the static load tests. R) Test piles shall not be incorporated in the completed structure and shall be removed to at least 600mm below proposed soffit level of pilecap (See TS 204.2.6). Q) Question 1: Static load test (BOQ No.2, Item 204(4)) is conducted on permanent pile? R) Q1)Yes. The Static Load Test shall be conducted for the Working Pile (or Permanent Pile).	According to GBB 20 and GBB 21, it is discrepancy in response. Please, clarify that Static load test can be conducted to Permanet pile, or not.	*No. Static load test shall be conducted to test pile / sacrificial pile.*
S-05			GBB 17 GBB 20	Page 11 of 43 Page 22 of 29	Q) Please verify unit of measure for Test Pile, is it numbers or linear meter. R) Unit of measurement is linear meter (l.m.) Q) Please clraify the concrete and rebar quantity of test piles is included in the Bill of Quantities. R) Test piles are included in the cost of PIN 401(6) --- Static Load Test (SLT).	According to GBB 17 and GBB 20, it is discrepancy in response. PIN 401(6) is Static Load Test at BOQ. The unit of 401(6) is 'Nos'. The unit of 401(10) and 401(11) is 'l.m.' Please, clarify which item measurement of Static Load Test belong to, 401(6) or 401(10) or (11).	*Please refer to the Updated BOQ, Addendum 5, Bill No. 4-1 to Bill No. 4-4; Item 401(6) - Static Load Test (SLT).*
S-06			GBB 20 GBB 21	Page 14 of 28 Page 28 of 69	Q) Please confirm that the working piles can be allowable to use for the static load tests. R) Test piles shall not be incorporated in the completed structure and shall be removed to at least 600mm below proposed soffit level of pilecap (See TS 204.2.6). Q) Question 1: Static load test (BOQ No.2, Item 204(4)) is conducted on permanent pile? R) Q1)Yes. The Static Load Test shall be conducted for the Working Pile (or Permanent Pile).	According to GBB 20 and GBB 21, it is discrepancy in response. Please, clarify that Static load test can be conducted to Permanet pile, or not.	*No. Static load test shall be conducted to test pile / sacrificial pile.*
S-06			GBB 17 GBB 20	Page 11 of 43 Page 22 of 29	Q) Please verify unit of measure for Test Pile, is it numbers or linear meter. R) Unit of measurement is linear meter (l.m.) Q) Please clraify the concrete and rebar quantity of test piles is included in the Bill of Quantities. R) Test piles are included in the cost of PIN 401(6) --- Static Load Test (SLT).	According to GBB 17 and GBB 20, it is discrepancy in response. PIN 401(6) is Static Load Test at BOQ. The unit of 401(6) is 'Nos'. The unit of 401(10) and 401(11) is 'l.m.' Please, clarify which item measurement of Static Load Test belong to, 401(6) or 401(10) or (11).	*Please refer to the Updated BOQ, Addendum 4, Bill No. 4-1 to Bill No. 4-3; Item 401(6) - Static Load Test (SLT).*
S-07		Bid Bulletin 16, Volume 1A Sec.4A BOQ_Add.2_20210310		Bill items	BOQ D502(3)a T=50mm, Tampered Concrete Including Wire Mesh with Hardener BOQ D502(3)b T=100mm, Tampered Concrete Including Wire Mesh with Hardener BOQ D502(3)c T=180mm, Tampered Concrete Including Wire Mesh with Hardener BOQ D502(3)e T=300mm, Tampered Concrete Including Wire Mesh with Hardener	As per GBB 16 response, the Concrete Topping with thickness of 500mm to 800mm is included in pay item 405(7)b. QUERY: Please verify if the Concrete Topping with thickness 50mm to 300mm thick is also included in pay item 405(7) and 405(9). a. BOQ 405(7)a Structural Concrete, Class "AAA" (36 Mpa) for Slab on Fill (At-Grade Slab) b. BOQ 405(7)b Structural Concrete, Class "AAA" (31 Mpa) for Slab on Fill (At-Grade Slab) c. BOQ 405(9)a Structural Concrete, Class "AAA" (36 Mpa) for Elevated Slab/ Concrete Stairs/ Concrete Gutter d. BOQ 405(9)b Structural Concrete, Class "AAA" (31 Mpa) for Elevated Slab/ Concrete Stairs/ Concrete Gutter	*Concrete Topping with thickness 50mm to 300mm thick is not included in pay item 405(7) and 405(9).* *Please refer to Bill No.4, Pay Item Nos. D502(3)a, D502(3)b, D502(3)c, D502(3)d, D502(3)e.*
S-05				BILL OF QUANTITIES No. 4 Bill No.4-1 SAN PEDRO STATION	Split Type Air Conditioning Units	Please provide the Details of steel hanger and support frame for ceiling-mounted and wall mounted AC Units. Please provide pad foundation for floor mounted AC units	*To revise and submit sheet NSRP-DWG-STA-ME-6011 rev 21.3. Contractor shall refer to Specific details based on SMACNA standard & actual site installation or condition -AC unit pad foundation will depend on the actual weight & dimension of AC equipment to install on site,structural engineer to verify size of rebars,concrete details etc*

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S-05		CP S-05_02_Structural_SS_10-14		NSRP-DWG-SS10-ST-4001, SS-11-ST-4001, SS12-ST-4001,SS13-ST-4001,ST14-ST-4001		Expansion Joints (Elastic Tight Joints) located at Plans for Substation 10 to Substation 14. Please confirm under what pay item?	***Please refer to the revised / updated BOQ, Bill Nos. 6-1, 6-2, 6-3, 6-4 & 6-5; Part D.1, Item 405(17). Updated BOQ shall be issued as Addendum 5.***
S-06		CP S-06_02_Structural_SS_15-18		NSRP-DWG-SS15-ST-4001, SS-16-ST-4001, SS17-ST-4001,SS18-ST-4001		Expansion Joints (Elastic Tight Joints) located at Plans for Substation 15 to Substation 18. Please confirm under what pay item?	***Please refer to the revised / updated BOQ, Bill Nos. 6-1, 6-2, 6-3 & 6-4; Part D.1, Item 405(17). Updated BOQ shall be issued as Addendum 5.***
S-06		Vol. 2 Sec 6 II drawing CP S-06_02_CAB_ST & CP S-06_02_BAN_ST & CP S-06_02_CAL_ST	28 & 25 & 26			This detailed drawing is the Column of each Station. Coupler does mention at the typical detailed drawing. Please clarify the design of the column for each station if couplers are required?	***Couplers are not required in the typical column details of structural drawings. However, the contractor has the option to use couplers as long as they meet the requirements under TS400.***