



**General Bid Bulletin No. 20**  
**04 August 2021**

**RESPONSES TO CLARIFICATIONS**

**IFB No. 21-058-5;** South Commuter Railway Project for Package Number CP S-03b; Civil Engineering, Tunnel and Building Works for Approximately 6.1km Railway with 4.7km of Underground Railway and 1.4km of At-Grade Railway, Including FTI Station and Tunnelling Works to Connect to MMSP Senate Station

**TO ALL PROSPECTIVE BIDDERS:**

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

1. **Annex "A"** – CP03B Responses to Clarification Requests (Batch 8)

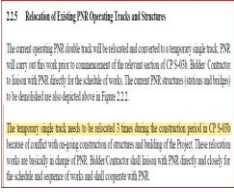

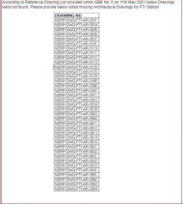
For the information and guidance.

For the Bids and Awards Committee V,

**(SGD)**  
**JULIUS M. SANTOS**  
*Chairperson*

**General Bid Bulletin No. 20**  
**CP S03B Responses to Clarification Requests (Batch 8)**

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|-----|----------|---|--|----------|---|---|--|--|
| 1   | S-03B    | Volume 1A, Part I & Volume 2, Part II                           | Section 4A<br>Section 6.II                             | N/A      | Bill of Quantities No.6 (Bill No.6b) - Underground Pedestrian Passage Way & The Drawings > Architectural Drawings > S-03b-Structural Drawings, Drawing No: NSRP-DWG-FTI-ST-3011 | Underground Pedestrian Passageway - Structural Drawings   | Structural Drawings of Underground Pedestrian Passageway (NSRP-DWG-UPP-ST-0000 to 0091) referred in DWG No: NSRP-DWG-FTI-ST-3011 are not able to be found in the shared documents therefore, the Employer is kindly requested to provide these drawings for the Bidder's further study   | The Bidder is advised to refer to Volume 2, Civil Drawings, S-03b_A-Viaduct_At-Grade, A4_CP_S-03b_UPP.   |
| 2   | S-03B    | Volume 1A, Part I & Volume 2, Part II                           | Section 4A<br>Section 6.II                             | N/A      | Bill of Quantities No.6 (Bill No.6b) - Underground Pedestrian Passage Way & The Drawings > Architectural Drawings   | Underground Pedestrian Passageway - Architectural Drawings  | The drawing no: NSRP-DWG-STA-AR-3002 which is referred for General Notes could not be found in the shared documents, please provide accordingly.   | "<br>There is no Sheet drawing no.: NSRP-DWG-STA-AR-3002 in CPS-03b; General Notes to be corrected and issued with Bid Addendum 3.   |
| 3   | S-03B    | Volume 1A, Part I & Volume 2, Part II<br>&<br>Volume 2, Part II | Section 4A<br>Section 6.II<br>Section 6IC              | N/A      | Bill of Quantities No.6 (Bill No.6b) - Underground Pedestrian Passage Way & The Drawings > Architectural Drawings & TS 200 - Bridges and Viaducts                               | Underground Pedestrian Passageway Construction  | It is noted that specifications that are referred in Bill No.6b for Earthworks and Structural Works are in TS 200 - Bridges and Viaducts. Other than that, there is no specific requirement found in project specifications for Underground Pedestrian Passageway Construction.<br><br>Also, considering the level of top slab of underground passageway which is around 4 meter below ground level (Ref. DWG: NSRP-DWG-FTI-AR-3117 & 3540) and, considering that the structure will be constructed under & perpendicular to the Southhazoo Expressway, the Bidder would like to ask the Employer the Construction Methodology of this Structure that the Bidder needs to follow (i.e. NATM, Cut & Cover, etc.). Geotechnical Details of this part of construction is also required accordingly. | The Bidder is advised that the Construction Methodology shall be provided by the Bidder/Contractor.<br><br>Please refer to the General Bid Bulletin (GBB) 11, Addendum 1, 01_Volume 1, CP S-03b Vol I IFB Sec-4 Bidding Procedures Bid Addenda 1 20210514; Technical Proposal, Implementation Proposak - Method Statements.<br><br>For the Geotechnical concerns, the Bidder is advised to refer to the GBB 11, Addendum 1, Site Data, Geotechnical Report CP S-03b. Further, Please also refer to the 05_Volume 2_SOW, CP S-03b Vol 2 Part II Sec 6 1A Scope of Works Bid Addenda 1 20210514.                             |
| 4   | S-03B    | VOLUME 2 / PART II  | SECTION 6 / DRAWINGS / CIVIL DRAWINGS / AT-GRADE / UPP | N/A      | N/A   | N/A   | Please confirm:<br>- Location of Receiving and Launching Shafts at UPP, or The Bidder is allow to propose them wherever is best suitable for its construction sequence.<br><br>- According to Civil Entrance 3 Drawings part of the structure is below West Service Road. Please confirm or if Bidder is allow to propose a traffic diversion for this road.   | The contractor shall submit the best suitable construction sequence subject for approval by the Engineer on site.<br><br>The Bidder shall determine the construction methodology for the East-West Underground Passage without hindering disrupting traffic. The provision for Soil Improvement is an exception.<br><br>DOTr had discussed and got the initial consent from the Authorities for the current design and to use the pipe-jacking methodology. The Bidder shall be required to prepare the necessary implementation plans based on this understanding.<br><br>Bidder is referred to GS 114 Traffic Management |
| 5   | S-03B    | GENERAL   |  | N/A      | N/A   | N/A   | Please provide preliminary BIM model for the Construction only scope of works if possible  | BIM models shall be provided with IFC drawings after Contract award.   |
| 6   | S-03B    | GENERAL   |  | 30/62    | 2   | All Drawings need to be provided as hardcopy on A3 format, PDF copy and original CAD and BIM File Format. | When drawings have been made using BIM tools, is the IFC an accepted file format?  | The Contractor shall submit BIM models in both native file format and IFC format.<br>The details of the native file format will be provided by the Engineer to the Contractor upon commencement of works.<br><br>BIM Employer Information Requirements for CP S-03b will be issued with Bid Addendum 3   |
| 7   | S-03B    |   |  | N/A      | N/A   | N/A   | Please indicate if The Employer has any list of authorized BIM software.   | The details of BIM software shall be determined after commencement of works.   |
| 8   | S-03B    | GENERAL   |  | N/A      | N/A   | N/A   | During Operation & Maintenance Phase, does The Employer use a specific CMMS software? Please provide this information if possible.   | The details of the CMMS software shall be provided by the Engineer after commencement of works.  |
| 9   | S-03B    | VOLUME 2 / PART II  | SECTION 6 / DRAWINGS / UNDERGROUND DRAWINGS / 14_MEP   | N/A      | N/A   | N/A   | According to the received basic Drawings, sprinklers and fire hose cabinets are supplied by the same fire water network. Please confirm this information is correct.   | Yes, this network system is correct.   |
| 10  | S-03B    | VOLUME 2 / PART II  | SECTION 6 / DRAWINGS / UNDERGROUND DRAWINGS / 14_MEP   | N/A      | N/A   | N/A   | According to the received Basic Drawings, no independent city water supply is required for the domestic water and firewater tanks.<br>Please confirm this information is correct and provide the location of the connection points to the network.   | Please refer to NSRP-DWG-FTI-PLD-2102 & 2013   |

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| 11  | S-03B    | GENERAL                                 |   | N/A                               | N/A   | N/A  | Please confirm the requirement of using pedestrian simulation software for the normal operation and emergency evacuation flow analysis as it can be done also through inhouse excel spreadsheets in a more efficient way.  | The Employer does not have a preference as long the passenger simulation model software is commonly used on accepted for metro stations, subject to approval of the Engineer  |
| 12  | S-03B    | GENERAL                                 |   | N/A                               | N/A   | N/A  | Please provide Thermal Loads from adjacent Contracts / Railways / ELV equipment  | It is Contractor's responsibility to coordinate the Thermal Loads from adjacent Contracts   |
| 13  | S-03B    | GENERAL                                 |   | N/A                               | N/A   | N/A  | Please provide Electrical Loads input from adjacent Contracts / Railways / ELV equipment   | It is Contractor's responsibility to coordinate the Electrical Loads from adjacent Contracts  |
| 14  | S-03B    | GENERAL                                 |   | N/A                               | N/A   | N/A  | Please provide the location points to connect with the Stormwater and Sewer city networks  | (Around Entrance/Exit)<br>Stormwater drainage from Entrance/Exit will be connected to relocated ESR drainage. Please see NSRP-SPL-C-DR-FTI-1081- 1082.  |
| 15  | S-03B    | GENERAL                                 |   | N/A                               | N/A   | N/A  | Please confirm if possible, if all collected water (but stormwater, tunnel drainage, shaft leakage and tunnel fire protection water) will be discharged into the sanitary drainage pumps.  | Please refer to NSRP-DWG-FTI-PLD-2301 and 2302  |
| 16  | S-03B    | VOLUME 1<br>Part I - Bidding Procedures | Section 1.2,3 and 5   |                                   | 2.4 Construction Experience<br>2.4.1 Contracts of Similar Size and Nature | Participation as a contractor, JV partner, or subcontractor, in at least one contract that has been successfully or substantially completed within the last ten (10) years immediately prior to the bid submission date and that is similar to the proposed works, where the value of the Bidder's participation in each of the following works exceeds US Dollars Three Hundred Ninety Million (390,000,000).<br>The similar work shall mean the project including the following works:<br>1. Tunnel works<br>2. Underground Railway Station works<br>3. At Grade Railway Station works   | Please kindly clarify if the contract experience shall meet the three conditions at the same time (i.e. a contract including Tunnel Works + Underground Railway Station Works + At Grade Railway Station Works) or can meet them separately or in any combination of them, i.e.:<br>a) Tunnel Works + Underground Railway Station Works<br>b) Underground Railway Station Works + At Grade Railway Station Works<br>c) Tunnel Works + At Grade Railway Station Works, etc...   | Please refer to Addendum 2 for the revised criteria.  |
| 17  | S-03B    | VOLUME 2 / PART II /                    | SECTION 6 / SPECIFICATIONS / SCOPE OF WORKS & DRAWINGS / CIVIL DRAWINGS / GENERAL | 20 OF 37 & NSRP-SW-ALT-PL-D-0002  |   |  <p>215 Relocation of Existing PNR Operating Tracks and Structures</p> <p>The contract requiring PNR double track will be relocated and converted to a temporary single track. PNR will carry out the work prior to commencement of the relevant section of CP-4/09. Bidder/ Contractor to liaise with PNR directly for the schedule of works. The contract PNR, resources (personnel and budget) to be identified and approved as per Figure 211.</p> <p>The temporary single track needs to be relocated 3 times during the construction period in CP 4/09 because of multiple works requiring construction of structures and building of the Project. These relocation works are basically in charge of PNR. Bidder/ Contractor shall liaise with PNR directly and closely for the schedule and sequence of works and final cooperate with PNR.</p> | According to referred mentioned documents, there are 3 relocations of the existing PNR tracks, which will be carried out by PNR. Please clarify or confirm the following items:<br>a) Please clarify or confirm that the 3 relocation times mentioned are the "steps" mentioned on the referred Drawing NSRP-SW-ALT-PL-D-0002<br>- Time 1: "Step 2"<br>- Time 2: "Step 3"<br>- Time 3: "Step 4"<br>b) Please also inform what are the starting and finishing dates for each Step.<br>c) Is there a Step 1 that is missing in the Drawings? In that case, please provide information. | PNR will relocate the tracks before commencement of the works to the west (Step 1).<br>Any further relocation of tracks (Step 2, 3 and 4) will be coordinated by the Contractor with PNR to suit the Contractor's construction programme.<br><br>Reference is made to the Provisional Sum 18<br><br>There is no information missing.  |
| 18  | S-03B    | VOLUME 2 / PART II /                    | SECTION 6 / GENERAL SPECIFICATIONS & DRAWINGS / CIVIL DRAWINGS / AT-GRADE         | 145 of 153 & NSRP-DWG-ATG-ST-4100 | GS 142 TEMPORARY WORKS  |    | According to the reference document, there are certain items identified as Temporary Works. In particular, it is mentioned on item 2) "Soil Improvement...".<br><br>Please confirm that the Grpund Improvement works to be carried out below U-Shape Construction Walls are not part of the Temporary Works above mentioned.   | Correct, the Ground Improvement works to be carried out below U-Shape Construction Walls are not part of the Temporary Works above mentioned.<br><br>Bidder is referred to Technical Specification - 228, JET GROUTING.   |
| 19  | S-03B    | GBB No. 6                               |   |                                   | CAD Files   | NSRP-DWG-FTI-AR-3011.dwg FTI Station Drawing List  |   | Employer confirms that these drawings are provided with Bid Addendum 2.   |
| 20  | S-03B    | Vol. 1                                  | Sec. 4 Bidding Forms (BDF)  | BF 36                             |   | P2_S6_II(DWG)_31Mar2021_06_Civil_UT  | Vol 1 Sec.4 Page No. BF 36 Engineer's Concept Programme's TBM 1 & TBM 2 durations does not match with Ref Drawing "P2_S6_II(DWG)_31Mar2021_06_Civil_UT" at page 3 Construction Schedule's TBM estimated durations. Please clarify which Schedule the Bidder to prepare the pricing study or please provide updated TBM's estimated Design & Fabrication, Shipping, Assembly and Main Drive activity durations separately.  | The Construction Duration and Key Dates as per Volume 3 should be followed. In addition, an ECP is provided to the Bidders for information only. However, Bidders can optimise and need to submit their own work schedule, see Program Requirements in Section 4 Volume 1, which need to comply with the contractual requirements.<br><br>Drawings NSRP-UT-CE-GN-0001 will be omitted from the drawings |

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| 21  | S-03B    | Bill of Quantities-4<br><br>And<br><br>TS<br>CP S-03b Vol2 Part II Sec 6<br>IE1 Underground Works UTS<br>Civil_Structural 20210408<br><br>Bill No 4<br><br>And TS<br>UTS Civil_Structural 20210408 |     | UTS Page<br>185,<br>paragraph c | 2100.14.1 (b) (c) |                                  | A.Please confirm: the BOQ Item No 2100 (2) payment will be made as per the Underground Technical Specification / clause: 2100.14.1 (b) (c).<br>B.Please confirm the Bidder understanding of the current clause, that 90%of Lump Sump Price per TBM and Accessories will be paid once each TBM is ready for Start Excavation and rest remaining 10% upon dismantling and removal of the machines, is correct. | A.: The understanding of Bidders is correct. The BOQ Item No 2100 (2) payment will be made as per the Underground Technical Specification / clause: 2100.14.1 b) (b) (c).<br><br><b>B: 90%of Lump Sump Price per TBM and Accessories will be paid upon commencement of the initial driving and rest remaining 10% upon dismantling and removal of the machines.</b><br><br><b>In TS 2100.14.1 the following correction shall be made:</b><br><b>"Payment for Pay Item 2100 (23) shall be made in the following manner:"</b><br><b>This amendment will be included in Bid Addendum 3.</b> |