



**NATIONAL HIGH SPEED RAIL CORPORATION LIMITED (NHSRCL)**  
**(A Joint Sector Company of Govt. of India and Participating State Government)**  
2nd Floor, Asia Bhawan, Road No.205, Sector-9, Dwarka, New Delhi-110077, India

**Addendum No. 05**

**Country: INDIA**

**Name of Work:** *Design and Construction of Civil and Buildings Works including Testing and Commissioning on Design-Build Lump Sum Price basis for Double Line High Speed Railway for Mumbai Underground Station, Cut & Cover Tunnel and Shaft -1 from MAHSR Km. -0.255 to Km. 0.775 at Bandra-Kurla Complex in the State of Maharashtra for the Project for Construction of Mumbai-Ahmedabad High Speed Rail*

Date: 24.07.2020

Loan Agreement No.: ID-P277 & ID-P279

IFB Number: Package No. MAHSR-C-1

Following are to be considered:

Item No.	Refer Para No.	Original/As Existing	Revised
1.	The entirety of the Bidding Documents	Part 2 – Employer’s Requirements Section VI. Employer’s Requirements Section VI-1. General Specifications Section VI-2. Design Requirements and Criteria Section VI-3. Technical Specifications Section VI-4. Drawings Section VI-5. Reference Information/Reports	Part 2 – Employer’s Requirements & <i>Reference Information/Reports</i> Section VI. Employer’s Requirements & <i>Reference Information/Reports</i> Section VI-1. <i>Employer’s Requirements</i> - General Specifications Section VI-2. <i>Employer’s Requirements</i> - Design Requirements and Criteria Section VI-3. <i>Employer’s Requirements</i> - Technical Specifications Section VI-4. <i>Employer’s Requirements</i> – Drawings Section VI-5. Reference Information/Reports



Item No.	Refer Para No.	Original/As Existing	Revised
2.	The entirety of the Bidding Documents	Employer's Requirements – Reference Information/Reports	The phrase “Employer's Requirements – Reference Information/Reports” is replaced with “Reference Information/Reports”.
3.	The entirety of the Bidding Documents	Employer's Requirements (Reference Information/Reports)	The phrase “Employer's Requirements (Reference Information/Reports)” is replaced with “Reference Information/Reports”.
4.	Addendum No. 03, Item No. 1  Part 2, Section VI-4, Drawings		<p>In Attachment-1, new list of Drawings has been provided which replaces the existing corresponding list of drawings.</p> <p>In these lists, the original drawings which have not been revised are shown in 'Black', drawings which have been revised are shown in 'Blue' and drawings which have been newly added are shown in 'Red'.</p> <p>Note that only those drawings that have been revised or newly added are enclosed in Attachment.</p> <p>Attachment may be downloaded by the Bidders, who have purchased the Bid Document, through the link provided to the respective Bidders.</p>
5.	Part 1, Section II, BDS, ITB 11.2(g), Page 4 of 34	“Not Applicable.”	<p>“The Bidder is not required to submit any documentary evidence along with the Bid in regard to ITB 15 and ITB 16 for <i>Forms CON, FIN-1, FIN-2, FIN-3, FIR-1, FIR-2, Annexure to Form FIR-2 and ACK</i>. All information furnished in these Forms shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor <i>except for FORM CON in which certification by a Chartered Accountant/Company Auditor/Statutory Auditor is not required.</i></p> <p><i>The Bidder shall submit the documentary evidence for the information as mentioned in the Forms ELI-1, ELI-2, EXP-1, EXP-2(a) and EXP-2(b).</i></p> <p>However, the Employer reserves the right to demand any <i>additional</i> relevant supporting documents as required.”</p>



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6.	Part 1, Section II, BDS, ITB 11.2(m) (New), Page 5 of 34	Add new Para 11.2 (m) at the end of 11.2 (l) as follows:  “The Bidder is not required to submit any documentary evidence along with the Bidding Documents in regard to ITB 15 and ITB 16. All information furnished in the respective Forms as mentioned in “Clause 4.0 Bidders’ Qualification Section-IV” shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor. However, the Employer reserves the right to demand any relevant supporting documents as required.”	<Deleted>
7.	Part 1, Section III, 4.2.4 of Stage 4: Technical Evaluation, Notes, page no.30 of 34	Note: * Years of experience in similar works means construction of metro underground stations.	Note: i. * Years of experience in similar works means construction of metro underground stations. ii. <i>The Contractor shall ensure that during the execution of the Works the Key Personnel deployed shall continue to meet the experience criteria as mentioned above.</i>
8.	Part 1, Section IV, Bidding Forms, FORM ELI-1, ELI-2, CON, EXP-1, EXP-2(a), EXP-2(b), Page 54-63 of 101, Page 76-89 of 101		Refer Attachment-2 of this addendum for revised Bidding forms ELI-1, ELI-2, CON, EXP-1, EXP-2(a) and EXP-2(b).
9.	Part 2, Section VI-1, Division 01000, Sub-Division 01010, Clause 7, Page 3 of 10	The technical data and the Site data referred in Clause 4.10 of the General Conditions of Contract and provided in the Employer’s Requirements (such as geotechnical details) has been made available to the Contractor for his information and are indicative only. The interpretation of the data shall be the responsibility of the Contractor. The Contractor shall undertake the detailed topographic survey, sub-surface and other site investigations for his scope of design under the Contractor’s design as per Section VI-1 - General Specifications,	The technical data and the Site data referred in Clause 4.10 of the General Conditions of Contract and provided in the <i>Reference Information/Reports</i> (such as geotechnical details) has been made available to the Contractor for his information and are indicative only. The interpretation of the data shall be the responsibility of the Contractor. The Contractor shall undertake the detailed topographic survey, sub-surface and other site investigations for his scope of design under the Contractor’s design as per Section VI-1 – General



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		Division 05000 Design Management, of the Employer's Requirements.	Specifications, Division 05000 Design Management, of the Employer's Requirements.
10.	Addendum No. 02, Item No. 9  Part 2, Section VI-1, Division 01000, Sub-Division 01020, Clause 1, Sub-Cause A, Item b), Page 5 of 10	ix. Cable Ducts*  Note*: There are three types of Cable Ducts i.e. for power supply, Signal and Telecommunication (hereinafter called Communication) and LCX (for train radio). Cables shall be installed by E-1 contractor.	ix. Cable Ducts*  Note*: There are three types of Cable Ducts i.e. for power supply, Signal and Telecommunication (hereinafter called Communication) and LCX (for train radio). <i>The extent of supply and installation of cables to be done by C-1 Contractor shall be as per the Employer's Requirements.</i>
11.	Part 2, Section VI-1, Division 01000, Sub-Division 01020, Clause 1, Sub-Clause A, Item f), Page 5 of 10	Backfilling between external wall face and up to excavated face with minimum M-20 grade concrete beyond Ch: 0km762.669m as per Appendix 2 of this Division.	<i>Backfilling between external wall face and excavated face with minimum M-20 grade concrete beyond Ch: 0km762.669m and with compacted soil in the remaining part of Shaft-1 as per Appendix 2 (applicable for Shaft-1 only) of this Division. Backfilling in the remaining part (i.e. the UG station, Cut &amp; Cover Tunnel) between external face of north, south &amp; west walls and excavated face, as per Appendix-3 (Attachment-3 of this Addendum) of this Division.</i>
12.	Part 2, Section VI-1, Division 03000, Sub-Division 03010, Clause 1, Page 5 of 30	"HSR Benchmarks" means the benchmarks provided by the Employer, used to locate, confirm the Right of Way (ROW) & its co-ordinates including levels.	"Benchmarks" means the benchmarks provided by the Employer used to locate <i>and</i> confirm the Right of Way (ROW) <i>and</i> its co-ordinates including levels.
13.	Addendum No. 02, Item No. 12, Attachment No. 01  Part 2, Section VI-1, Division 04000, Appendix 04000-1, Chapter III, 4.	Final connection to the Energizing Indicator shall be done by E-1	Final connection to the <i>OHE Disconnecter</i> shall be done by E-1



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	Between C-1 and E-1, Item 23, Column 4, Page 18 of 20		
14.	Part 2, Section VI-1, Division 06000, Sub-Division 06020, Sub-Clause 6.3, Page 13 of 40	The proposed Rail Track Formation Level shall also be marked on stakes to indicate embankment height or excavation depth.	The proposed Rail Level shall also be marked on stakes to indicate excavation depth.
15.	Part 2, Section VI-1, Division 06000, Sub-Division 06020, Sub-Clause 5.3, Item 6), Page 12 of 40, and Sub-Clause 7.1, Page 13 of 40	Railtrack Formation	<i>Rail Level</i>
16.	Part 2, Section VI-2, Division 02000, Heading above “Table of Contents”, Page 1 of 30	<b>Division 01000: Civil Works Table of Contents</b>	<b>Division 02000: Civil Works Table of Contents</b>



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17.	Part 2, Section VI-2, Division 02000, Sub-Clause 4.3.6, Page 27 of 30	<p>a) The quality and grade of the concrete, treatment of construction joints, areas of slab cast and external waterproofing measures shall be such that the requirement of waterproofing can be achieved and maintained. Waterproofing measures shall be provided to all faces in contact with soil so that the permanent underground structure is completely watertight.</p> <p>b) The Contractor shall refer to Drawings and TS 02000 for waterproofing properties.</p>	<p>a) The quality and grade of the concrete, treatment of construction joints, areas of slab cast and external waterproofing measures shall be such that the requirement of waterproofing can be achieved and maintained.</p> <p>b) The Contractor shall refer to TS 02000 and Drawings for waterproofing <i>requirements</i>.</p>														
18.	Part 2, Section VI-3, Division 02000, Sub-Clause 2.5.1, Page 13 of 72	<p>2.5.1 General</p> <p>a) Prior to commencement of backfilling, the Contractor shall submit, his proposals for carrying out the work such that the optimum use may be made of excavated material, in writing to obtain approval from the Engineer. The proposals shall include details of the compaction plant and methods for adjusting the moisture content of the material.</p>	<p>2.5.1 General</p> <p><i>Backfilling is to be done with M-20 concrete/M-20 plum concrete/ excavated material/sand etc. as specified in the Employer's Requirements. The specifications for backfill with excavated material/sand shall be as below:</i></p> <p>a) Prior to commencement of backfilling, the Contractor shall submit, his proposals for carrying out the work such that the optimum use may be made of excavated material, in writing to obtain approval from the Engineer. The proposals shall include details of the compaction plant and methods for adjusting the moisture content of the material.</p>														
19.	Part 2, Section VI-3, Division 02000, Sub-Clause 4.8.3, Table 3, Page 28&29 of 72	<p>Table 3: Minimum Grade of Concrete</p> <table border="1" data-bbox="495 1157 1081 1291"> <thead> <tr> <th></th> <th>Plain Concrete</th> <th>Reinforced Concrete</th> </tr> </thead> <tbody> <tr> <td>All sections</td> <td>M-25*</td> <td>M-35*</td> </tr> </tbody> </table> <p>*Unless otherwise specified</p>		Plain Concrete	Reinforced Concrete	All sections	M-25*	M-35*	<p>Table 3: Minimum Grade of Concrete</p> <table border="1" data-bbox="1335 1193 1921 1332"> <thead> <tr> <th></th> <th>PCC levelling course</th> <th>PCC (Structural)</th> <th>Reinforced Concrete</th> </tr> </thead> <tbody> <tr> <td>All sections</td> <td>M-20*</td> <td>M-30*</td> <td>M-35*</td> </tr> </tbody> </table> <p>*Unless otherwise specified</p>		PCC levelling course	PCC (Structural)	Reinforced Concrete	All sections	M-20*	M-30*	M-35*
	Plain Concrete	Reinforced Concrete															
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	PCC levelling course	PCC (Structural)	Reinforced Concrete														
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20.	Part 2, Section VI-3, Division 02000, Clause 6, Page 40 to 46 of 72				<The entire Clause 6 has been replaced with Attachment-4 of this Addendum>		
21.	Part 2, Section VI-3, Division 02000, Sub-Clause 7.7, Page 49 to 57 of 72				<The entire Sub-Clause 7.7 has been replaced with Attachment-5 of this Addendum>		
22.	Part 3, Section VIII, Part A – Contract Data, Sub-Clause 8.1(c), Page 6 of 67	Commencement of Works	8.1(c)	1. No effective access to and possession of the Site on the Commencement Date. 2. Effective access to and possession of the Site shall be as per Sub-Clause 2.1 of the Contract Data.	Commencement of Works	8.1(c)	No effective access to and possession of the Site on the Commencement Date.
23.	Addendum No. 04, Item 1  IFB, S. No. 5, 7, 8, Page 2 of 3	<p>S. No. 5)</p> <p>The Bidding Documents shall be available for sale at NHSRCL’s office as mentioned in Para. (4) above during 10:00 hrs to 17:00 hrs on all the working days from 26.11.2019 to 31.07.2020, alternatively, Bidding Documents are also available for downloading through the link after payment as mentioned in para above.</p> <p>S. No. 7)</p> <p>Bids must be delivered to General Manager (Contract) at the address as given in BDS ITB 24.1 on or before 15:00 hrs on 03.08.2020 and must be accompanied by a Bid Security of INR 220 Million (Indian Rupees Two Hundred Twenty Million only).</p>			<p>S. No. 5)</p> <p>The Bidding Documents shall be available for sale at NHSRCL’s office as mentioned in Para. (4) above during 10:00 hrs to 17:00 hrs on all the working days from 26.11.2019 to 28.08.2020, alternatively, Bidding Documents are also available for downloading through the link after payment as mentioned in para above.</p> <p>S. No. 7)</p> <p>Bids must be delivered to General Manager (Contract) at the address as given in BDS ITB 24.1 on or before 15:00 hrs on 31.08.2020 and must be accompanied by a Bid Security of INR 220 Million (Indian Rupees Two Hundred Twenty Million only).</p>		



Item No.	Refer Para No.	Original/As Existing	Revised
		S. No. 8)  Only the Technical Bid will be opened in the presence of Bidders' representatives who choose to attend at 15:30 hrs on 03.08.2020 at the office of:	S. No. 8)  Only the Technical Bid will be opened in the presence of Bidders' representatives who choose to attend at 15:30 hrs on <i>31.08.2020</i> at the office of:
24.	Addendum No. 04, Item No. 2 Part 1, Section II, BDS, ITB 24.1, Page 9 of 34	The deadline for Bid submission is: Date : 03.08.2020 Time : 15:00 hrs	The deadline for Bid submission is: Date : <i>31.08.2020</i> Time : 15:00 hrs
25.	Addendum No. 04, Item No. 3 Part 1, Section II, BDS, ITB 27.1, Page 9 of 34	ITB 27.1 The opening of the Technical Bid shall take place at: Date : 03.08.2020 Time : 15:30 hrs	ITB 27.1 The opening of the Technical Bid shall take place at: Date : <i>31.08.2020</i> Time : 15:30 hrs