## 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. 10

## **Country: INDIA**

**Name of Work:** Construction of Tunnelling Works including Testing and Commissioning for Double Line High Speed Railway using Tunnel Boring Machine (TBM) and New Austrian Tunnelling Method (NATM) between Mumbai Underground Station at Bandra-Kurla Complex (MAHSR Km. 0.773) and Shilphata (MAHSR Km. 21.150) in the State of Maharashtra for the Project for Construction of Mumbai-Ahmedabad High Speed Rail

Date: 09.01.2020

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

IFB Number: Package No. MAHSR-C-2

Following are to be considered -

Item No.	Refer Para No.	Original/Existing	Revised
1.	Bidding Document		Package No. P-1(A) has been integrated with Package No. C- 3. Bidders shall read the "P-1(A)" Package as "C-3" Package for the milestones, interface requirements and any other clauses mentioned in the Bidding Documents.
2.	Part-2, Section VI-2, Clause 4.18(11), Page 52 of 199	<ul> <li>(11) Limiting Construction Induced Vibrations at Adjacent EBS during excavation of tunnel with TBM, NATM and Cut &amp; Cover</li> <li>It shall be ensured by the Contractor that excessive vibrations shall not be caused to any EBS during execution of permanent or temporary work. Vibrations shall be measured in terms of peak particle velocity</li> </ul>	Adjacent EBS and mudflats during excavation of tunnel with TBM, NATM and Cut & Cover It shall be ensured by the Contractor that excessive vibrations shall not be caused to any EBS and mudflats during execution of permanent or temporary work.

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		(PPV). Unless otherwise accepted by the applicable government agencies and the Engineer, peak particle velocities at adjacent EBS shall not exceed the values in the Table 16 below:	velocity (PPV). Unless otherwise accepted by the applicable government agencies and the Engineer, peak particle velocities at adjacent EBS <i>and mudflats</i> shall not exceed the values in the Table 16 below:
		Table 16: Peak Particle Velocities in mm/sec (Max.Allowable) at Adjacent EBS	Table 16: Peak Particle Velocities in mm/sec (Max.Allowable) at Adjacent EBS and mudflats
		Most structures in "good" condition 25	Most structures in "good" condition 25
		Most structures in "fair" condition12Most structures in "poor" condition5	Most structures in "fair" condition12Most structures in "poor" condition5
		Water-supply structures, hospitals, school 5 buildings	Water-supply structures, hospitals, school 5 buildings
		Heritage structures/bridge structures5	Heritage structures/bridge structures5Mudflats at Thane Creek10
		Above limits are maximum permissible. However, above limits may have to be restricted further if required to avoid damage to the adjacent EBS or causing discomfort to the occupants.	Above limits are maximum permissible. However, above limits may have to be restricted further if required to avoid damage to the adjacent EBS or mudflats or causing discomfort to the occupants. The Contractor shall monitor PPV at the EBS and mudflats continuously. The monitoring scheme shall be submitted to the Engineer for approval before starting tunneling work.
3.	Part 2, Section VI-1, Division-08000. Appendix-08000-1 Addendum No 6,	The Contractor shall review and comply with the environmental management plan (EMP) prepared in the Supplemental Environmental Impact Assessment (S-EIA) report available on the NHSRCL information disclosure website (https://www.nhsrcl.in/environmental-impact- assessment-report) and will note and implement any	The Contractor shall comply with <i>the Supplemental</i> <i>Environmental Impact Assessment (S-EIA) report</i> and environmental management plan (EMP) prepared in the S-EIA available on the NHSRCL information disclosure website (https://www.nhsrcl.in/environmental-impact-assessment-

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	Attachment No. 2 Sub-Clause 6.1.1 Page 85 of 159	requirements therein, in addition to those found in this specification.	report) and will note and implement any requirements therein, in addition to those found in this specification
4.	Part 2, Section VI-1, Division-08000. Appendix-08000-1 Addendum No 6, Attachment No 2 Sub-Clause 6.1.2 Page 86 of 159	Before the start of construction, the Contractor will prepare a Construction Environmental Management Plan (CEMP) based on the CEMP Form to be reviewed and approved by the Engineer and implemented during the work. The CEMP shall sufficiently address the items contained in this specification.	Before the start of construction, the Contractor will prepare a Construction Environmental Management Plan (CEMP) based on the <i>EMP in Supplemental Environmental Impact</i> <i>Assessment (S-EIA) report</i> to be reviewed and approved by the Engineer and implemented during the work. The CEMP shall sufficiently address the items contained in this specification.
5.	Part 2, Section VI-1, Division-08000. Appendix-08000-1 Addendum No 6, Attachment No 2, Page 87 of 159		<add 6.2.3="" 6.2.4="" after="" existing="" following="" sub-clause="" the=""> "6.2.4. The Contractor shall comply with all legislative requirements and any additional conditions imposed by the competent authorities while giving approval or subsequent conditions given by authorities, throughout the entire construction period."</add>
6.	Part 2, Section VI-3, Drawings	Drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-20100000	<deleted></deleted>

