

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. 7

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*

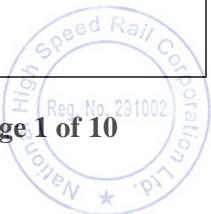
Date: 09.10.2019

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

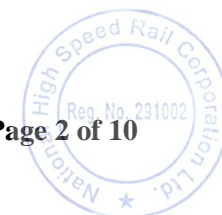
IFB Number: Package No. MAHSR-C-2

Following are to be considered -

Item No.	Refer Para No.	Original/Existing	Revised
1.	Part 2, Section VI-3, Drawings	<Following drawings have been revised> TD-JIC-IC1-TDC-B01-UST-NTU-15520002 TD-JIC-IC1-TDC-B01-UST-NTU-20490003 TD-JIC-IC1-TDC-B01-UST-NTU-23500000 TD-JIC-IC1-TDC-B01-UST-NTU-23510000 TD-JIC-IC1-TDC-B01-UST-NTU-23520000 TD-JIC-IC1-TDC-B01-UST-NTU-00400001 TD-JIC-IC1-TDC-B01-UST-NTU-00420001	<Following are the revised drawing> TD-JIC-IC1-TDC-B01-UST-NTU-15520003 TD-JIC-IC1-TDC-B01-UST-NTU-20490004 TD-JIC-IC1-TDC-B01-UST-NTU-23500001 TD-JIC-IC1-TDC-B01-UST-NTU-23510001 TD-JIC-IC1-TDC-B01-UST-NTU-23520001 TD-JIC-IC1-TDC-B01-UST-NTU-00400002 TD-JIC-IC1-TDC-B01-UST-NTU-00420002 Refer Attachment No 1 of this Addendum.



Item No.	Refer Para No.	Original/Existing	Revised
2.	Part 2, Section VI-3, Drawings		< Following drawings have been added> TD-JIC-IC1-TDC-B01-UST-NTU-15162000 Refer Attachment No 1 of this Addendum.
3.	Part 2, Section VI-3, Drawings Attachment No 1 of Addendum No 2		< Following drawings have been deleted> TD-JIC-IC1-TDC-B01-UST-NTU-23530000 TD-JIC-IC1-TDC-B01-UST-NTU-23540000
4.	Section VI-2, Sub-Clause 7.3(c), Page No. 146 of 199		<Add the following paragraph (xi) after existing paragraph (x)> (xi) The Contractor shall ensure that the place where concreting is to be done, shall be free of water.
5.	Part 3, Section VIII, Part B- Specific Provisions, Sub-Clause 4.2 Performance Security, Last Paragraph, Page 12 of 33	In the event the Contractor fails to provide the Performance Security within 28 days from the date of issue of the LOA, it may seek an extension of time for providing the performance security for a period not exceeding a further 15 days on payment of damages for such extended period in a sum calculated at the rate of 0.005% of the Contract price for each day until the Performance Security is provided.	In the event the Contractor fails to provide the Performance Security within 28 days from the date of <i>receiving</i> of the LOA, it may seek an extension of time for providing the performance security for a period not exceeding a further 15 days on payment of damages for such extended period in a sum calculated at the rate of 0.005% of the Contract price for each day until the Performance Security is provided.

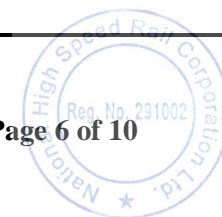


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6.	Part 1, Section II – Bid Data Sheet, ITB 1.2, Page 2 of 31		<p data-bbox="1397 284 2184 320"><Add the following item after ITB 1.1 in the Bid Data Sheet></p> <table border="1" data-bbox="1442 357 2192 655"> <tr> <td data-bbox="1442 357 1576 655">ITB 1.2</td> <td data-bbox="1576 357 2192 655"> Add new paragraph after last paragraph of ITB 1.2 with the following: (d) “Joint Venture” shall be replaced with “Joint Venture or Consortium”. (e) “JV” shall be replaced with “JV/Consortium”. </td> </tr> </table>	ITB 1.2	Add new paragraph after last paragraph of ITB 1.2 with the following: (d) “Joint Venture” shall be replaced with “Joint Venture or Consortium”. (e) “JV” shall be replaced with “JV/Consortium”.														
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7.	Part 1, Section II – Bid Data Sheet, ITB 8.2, Page 4 of 31	Addenda, if any, will be published on the Employer’s web page.	<p data-bbox="1397 667 2184 703">Replace the entire paragraph with the following:</p> <p data-bbox="1397 740 2184 842">Any Addendum issued shall be part of Bidding Documents and shall be published on the Employer’s website: www.nhsrcl.in in accordance with ITB 7.1.</p>																
8.	Part-1, Section IV, Attachment No 1 of Addendum No 4 Clause 2.7, Bill No 5.2, Item No. 511(d), Page 77 of 89	<table border="1" data-bbox="613 963 1375 1235"> <thead> <tr> <th data-bbox="613 963 725 1038">Item no.</th> <th data-bbox="725 963 1117 1038">Description</th> <th data-bbox="1117 963 1218 1038">Unit</th> <th data-bbox="1218 963 1375 1038">Quantity</th> </tr> </thead> <tbody> <tr> <td data-bbox="613 1038 725 1235">d)</td> <td data-bbox="725 1038 1117 1235">Pavement concrete of grade M-25 including supplying & fixing of concrete kerbs.</td> <td data-bbox="1117 1038 1218 1235">m</td> <td data-bbox="1218 1038 1375 1235">394</td> </tr> </tbody> </table>	Item no.	Description	Unit	Quantity	d)	Pavement concrete of grade M-25 including supplying & fixing of concrete kerbs.	m	394	<table border="1" data-bbox="1397 963 2184 1235"> <thead> <tr> <th data-bbox="1397 963 1509 1038">Item no.</th> <th data-bbox="1509 963 1928 1038">Description</th> <th data-bbox="1928 963 2040 1038">Unit</th> <th data-bbox="2040 963 2184 1038">Quantity</th> </tr> </thead> <tbody> <tr> <td data-bbox="1397 1038 1509 1235">d)</td> <td data-bbox="1509 1038 1928 1235">Pavement concrete of grade M-25 including supplying & fixing of concrete kerbs.</td> <td data-bbox="1928 1038 2040 1235">m</td> <td data-bbox="2040 1038 2184 1235">371</td> </tr> </tbody> </table>	Item no.	Description	Unit	Quantity	d)	Pavement concrete of grade M-25 including supplying & fixing of concrete kerbs.	m	371
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Item No.	Refer Para No.	Original/Existing				Revised			
		Item No	Description	Unit	Quantity	Item No	Description	Unit	Quantity
9.	Part-1, Section IV, Attachment No 1 of Addendum No 4 Clause 2, Sub-Clause 2.7, Bill No 3.2.2, Item No. 329(b), Page 47 of 89	b)	Supplying, fabricating & fixing of MS gate including providing RCC pedestals of specified size with bolts, nuts, stoppers, handles, locking arrangements, protective coating on structural steel in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 331.	Nos.	2	b)	Supplying, fabricating & fixing of MS gate including providing RCC pedestals of specified size with bolts, nuts, stoppers, handles, locking arrangements, protective coating on structural steel in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 331.		
		i)	G3: 6000 mm x 1800 mm	Nos.	2	i)	G3: 6000 mm x 1800 mm	Nos.	2
10.	Part-1, Section IV, Attachment No 1 of Addendum No 4 Clause 2.7, Bill No 2.2, Item No. 209 a) to d), Page 11 to 12 of 89	a)	Supplying and spraying shotcrete of 100mm thickness including supplying and fixing of wire mesh of size 100 mm x 100mm x 3.4 mm including all incidental works.	Sq m	180	a)	Supplying and spraying shotcrete of 100mm thickness including supplying and fixing of wire mesh of size 100 mm x 100mm x 3.4 mm including all incidental works.	sq m	1342
		b)	Supplying, drilling & installation of 25mm diameter, 8.5 metre long soil nails including grouting and	Nos	250	b)	Supplying, drilling & installation of 25mm diameter, 8.5 metre long soil nails including grouting and	Nos	600

Item No.	Refer Para No.	Original/Existing				Revised			
			all other accessories complete in all respects.				all other accessories complete in all respects.		
		c)	Supplying, drilling & installation of 25 mm diameter rock bolts of grade Fe500D including bearing plate, nut, grouting and all other accessories complete in all respects.			c)	Supplying, drilling & installation of 25 mm diameter rock bolts of grade Fe500D including bearing plate, nut, grouting and all other accessories complete in all respects.		
		i)	Length -3.0m	Nos.	90	i)	Length -3.0m	Nos.	600
		ii)	Length -4.0m	Nos.	80	ii)	Length -4.0m	Nos.	600
		iii)	Length -5.0m	Nos.	70	iii)	Length -5.0m	Nos.	600
		d)	Supplying, transporting, placing, compacting & curing plain cement concrete of grade M-25 in berms in slope.	cu m	112	d)	Supplying, transporting, placing, compacting & curing plain cement concrete of grade M-25 in berms in slope.	cu m	424
		e)	Supplying and laying wire crates/boulder crates with stone boulders over levelled surface including removal of loose material and filling with stone boulders as per the Drawings.	cu m	3127	e)	Supplying and laying wire crates/boulder crates with stone boulders over levelled surface including removal of loose material and filling with stone boulders as per the Drawings.	cu m	3127

Item No.	Refer Para No.	Original/Existing						Revised							
11.	Part 2, Section VI-1, Division 06000, Sub-Division 06010, Sub-Clause 3.1, Page 5 of 51 Addendum No 4 Item No 11	The Contractor shall be solely responsible for acquiring any additional land (land in addition to the Site) required by him for his Temporary Works areas outside the ROW, at his own expense, including maintaining and reinstating the same on completion of the Works to the entire satisfaction of the land owner and the Engineer. Employer has obtained permission to use 1.36 ha land on temporary basis adjacent to Shaft-3. The Contractor can utilise this land on payment to MIDC.						The Contractor shall be solely responsible for acquiring any additional land (land in addition to the Site) required by him for his Temporary Works areas outside the ROW, at his own expense, including maintaining and reinstating the same on completion of the Works to the entire satisfaction of the land owner and the Engineer. Employer has obtained permission to use 1.0 ha land on temporary basis adjacent to Shaft-3. The Contractor can utilise this land on payment to MIDC.							
12.	Part 2 Section VI-1, Division 04000, Appendix 04000-1, Chapter 3, Table 3, Page 94 of 100 Addendum No 3 Item No 15	4	Provision of soft eye for breakthrough of TBM-1	C2	C1	C1	C1	Size and location of soft eye shall be furnished by C-2 to C-1 for providing soft eye with GFRP rods. Backfilling behind wall of shaft 1 with minimum M-20 concrete shall be done by C-1. Shaft-1 (permanent walls with supports) shall be made available by C-1 before arrival of TBM-1.	4	Provision of soft eye for breakthrough of TBM-1	C2	C1	C1	C1	Size and location of soft eye shall be furnished by C-2 to C-1 for providing soft eye with GFRP rods. Backfilling behind wall of shaft 1 with minimum M-20 concrete shall be done by C-1. Shaft-1 (permanent walls with supports) shall be made available by C-1 before arrival of TBM-1. <i>Arrangement for arrival of TBM shall be made by C-2 Contractor.</i>



Item No.	Refer Para No.	Original/Existing			Revised		
13.	Addendum No 3 Item No 20				Item No. 20 <Deleted>		
14.	Part 2, Section VI-1, Division 4000, Sub-Division 4100, Clause 2, Table: Summary of Milestone, Milestone 4, Page 69 of 100 Addendum No 3 Item No 108	Milestone Name/Description (Sub- Clause 1.1.5.9)		Time for Completion from the Commencement Date (Sub- Clause 1.1.3.3)	Milestone Name/Description (Sub- Clause 1.1.5.9)		Time for Completion from the Commencement Date (Sub- Clause 1.1.3.3)
		No.	Description	Days	No.	Description	Days
		4	Completion of Permanent Reinstatement works of cut & cover tunnel and handing over the area to C3 Contractor as described in drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-00220000	950	4	Completion of Permanent Reinstatement works of cut & cover tunnel and handing over the area to C3 and P-1(A) Contractor as described in drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-00220000	950

Item No.	Refer Para No.	Original/Existing			Revised		
		Milestone No.	Milestone Name/Description (Sub- Clause 1.1.5.9)	Time for Completion from the Commence ment Date (Sub- Clause 1.1.3.3)	Milestone No.	Milestone Name/Description (Sub- Clause 1.1.5.9)	Time for Completion from the Commence ment Date (Sub- Clause 1.1.3.3)
15.	Part 3, Section VIII, Part A – Contract Data, Summary of Milestone, Milestone 4, Page 8 of 33 Addendum No 3 Item No 109						
		4	Completion of Permanent Reinstatement works of cut & cover tunnel and handing over the area to C3 Contractor as described in drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-00220000.	950 days	4	Completion of Permanent Reinstatement works of cut & cover tunnel and handing over the area to C3 and P-1(A) Contractor as described in drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-00220000.	950 days
16.	Part 1, Section IV, Attachment No 1 of Addendum No 4, Clause 2, Sub-Clause 2.7, Bill No. 3.2.2, Item 330, Page 48 of 89				Item No 330 <Deleted>		

Item No.	Refer Para No.	Original/Existing			Revised		
17.	Part 1, Section III, Sub-Clause 4.2.5, Table: Major Plant & Equipment, Page 30 of 31	Major Plant & Equipment			Major Plant & Equipment		
		S. No.	Equipment Type and Characteristics	Minimum Number Required	S. No.	Equipment Type and Characteristics	Minimum Number Required
		1	100% brand new closed mode TBMs (dual mode included) with full back up arrangements	3	1	100% brand new closed mode TBMs (dual mode included) with full back up arrangements	3
		2	Full casting yard equipment for casting and handling of tunnel lining (segment).	1	2	Full casting yard equipment for casting and handling of tunnel lining (segment).	1
		3	Gantry Crane of required capacity for handling of Precast tunnel segments etc.	3	3	Gantry Crane of required capacity for handling of Precast tunnel segments etc.	3
		4	Single Boomer for NATM tunnel works	3	4	<i>1 Single Boomer + 1 Triple Boomer OR 2 Double Boomer for NATM tunnel works</i>	3 sets
		5	Triple Boomer for NATM Tunnel works	3			
		6	Ventilation system during construction	4	5	Ventilation system during construction	4
		7	Wet shotcrete equipment	3	6	Wet shotcrete equipment	3



Item No.	Refer Para No.	Original/Existing	Revised
18.	Part-3, Section VIII, Part-A Contract Data, Sub-Clause 18.2 (d), Page 7 of 33	INR6,000,000.00 (Indian Rupees six million only) for Act of God INR 1,500,000.00 (Indian Rupees one million five-hundred thousand only) for third-party	<i>INR 20,000,000.00 (Indian Rupees twenty million only)</i>

