

**National High Speed Rail Corporation Limited**

**Corrigendum No. 1**

**Date: 08/07/2019**

**Country: India**

**Name of the work:** Geotechnical Investigations by Borehole Drilling & Plate Load Test for Mumbai - Ahmedabad High Speed Rail Project in C-5 special Package Area

**Tender Notice No.** NHRCL/Vadodara/Geotech/2019-20/17

| S. No | Refer Para no.  | Original paragraph   | Revised paragraph   |
|-------|---|--|---|
| 1     | Name of the work<br>(page no. 3, 4 and 6)                     | Geotechnical Investigations by Borehole Drilling & Plate Load Test for Mumbai - Ahmedabad High Speed Rail Project in C-5 special Package Area from HSR Chainage 393.700 to 409.900 in Vadodara | Geotechnical Investigations by Borehole Drilling & Plate Load Test for Mumbai - Ahmedabad High Speed Rail Project in C-5 special Package Area from HSR Chainage 393.700 to <u>401.900</u> in Vadodara<br>(Please refer page no. 3R, 4R, 6R) |
| 2     | Approximate cost<br>(Page no. 3, 6)                           | Approximate Cost: 41,78,242 (excluding GST)  | Approximate Cost: 41,71,360.88 (excluding GST)  |
| 3     | Earnest money deposit<br>(Page no. 3, 4, 8, 26)               | Rs. 83,565.00  | (Please refer page no. 3R, 6R)<br>Rs. 83,430.00   |
| 4     | Section V, Cl. 1.5 Plate load test procedure<br>(page no. 29) | Plate load test shall be conducted as per JGS 1521-2012 considering the following test Locations. The Test Locations and depth shall be as given in Table 2.1 below.                           | (Please refer page no. 3R, 4R, 8R, 26R)<br>Plate load test shall be conducted as per JGS 1521-2012 considering the following test Locations. The Test Locations and depth shall be as per the   |

Dy. Chief Engineer Manager  
उप प्रमुख अभियंता प्रबंधक

National High Speed Rail Corporation Ltd.

राष्ट्रीय उच्च गतिरेल निगम लिमिटेड

વડોદરા / Vadodara

|       |  | Table 2.1: Plate Load Test Location and Depths                   |    |    |    |    |    |  | BOQ and as per the requirement of<br>NHSRCL.<br>(please refer page no. 29 R)                             |
|-------|--|--|----|----|----|----|----|--|--|
| S. No | Chainage<br>(In km)  | Plate Load Test along with<br>depth (Japanese Coad)              |    |    |    |    |    |  |  |
|       |  | 2m   | 3m | 4m | 5m | 6m | 7m |  |  |
| 1     | 393.700 to<br>401.900<br>Exact location &<br>depth will be<br>informed during<br>execution as per<br>site condition. | √  | √  | √  | √  | √  | √  |  |  |
| 5     | Section V, Cl. 3.3.1,<br>Ground Water<br>(page no. 45)   | Ground water shall be recorded in bore holes as per<br>IS: 6945. |    |    |    |    |    |  | Ground water shall be recorded in bore<br>holes as per IS: <u>6935</u> .<br>(Please refer page no. 45 R) |
| 6     | BOQ<br>(page no. 85, 86)   |  |    |    |    |    |    |  | Revised BOQ has been enclosed<br>herewith.<br>(please refer page no. 85 R & 86R)                         |
| 7     | Offer Sheet<br>(page no. 87)   |  |    |    |    |    |    |  | Revised offer sheet has been enclosed<br>herewith<br>(please refer page no. 87R)                         |

*(Signature)*

Dy. Chief Project Manager  
उप परियोजन प्रबंधक  
National High Speed Rail Corporation Ltd.  
राष्ट्रीय उच्च गतिरेल निगम लिमिटेड  
वडोदरा / Vadodara

**Tender No: NHSRCL/VADODARA/Geotech/2019-20/17**

|   |   |
|---|---|
| Name of work -:   | <b>Geotechnical Investigations by Borehole Drilling &amp; Plate Load Test for Mumbai - Ahmedabad High Speed Rail Project in C-5 special Package Area from HSR Chainage 393.700 to <u>401.900</u> in Vadodara.</b> |
| Approximate cost -:   | Rs. 41,78,242.00 (Excluding GST)  |
| Earnest money Deposit -:                                    | Rs. 83,430.00   |
| Tender Fees -:  | Rs. 3,540.00 (Including 18 % GST)   |
| Completion period -:  | 03 Months   |
| Validity of offer -:  | 90 Days   |
| Type of Tender -:   | Open Tender -Single Packet Bid  |
| Pre-bid Meeting date-:                                      | 02.07.2019 @ 1100 hrs   |
| Tender closing date -:                                      | 15.07.2019 @ 1500 hrs   |
| Tender opening date -:                                      | 15.07.2019 @ 1530 hrs   |
| Place of Pre-bid Meeting, submission & opening of Tender -: | Office of Chief Project Manager, National High-Speed Rail Corporation Ltd, 3rd floor, Productivity House, Productivity Road, Alkapuri, Vadodara-390007  |

(a) Tenderer(s) may also note that the end of the document is marked as "END OF DOCUMENT". The total document is to be downloaded for submission of the offer otherwise the document will be treated as incomplete and therefore invalid.

(b) Tenderer(s) may please also note that if any change/addition/deletion with mala-fide intention is made by the bidder and the same is detected at any stage even after award of the tender, all necessary action including banning of business may be taken against the bidder.

(c) The NHSRCL before the due date & time of closure of issue of tender documents on its own or in response to any clarification requested or suggested by any person including that of the tenderer may modify/cancel the tender document at its sole discretion. It will be the responsibility of the tenderers who had downloaded the documents from the website to submit offer in the updated copy of the tender documents and NHSRCL may not consider the offers downloaded from website if offer is not submitted in updated tender documents.

Signature of Tenderer

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Signature of NHSRCL Authority



Dy. Chief Project Manager  
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National High Speed Rail Corporation Ltd.  
राष्ट्रीय उच्च गतिरेल निगम लिमिटेड  
वडोदरा / Vadodara

NHSRCL, Vadodara

Geotechnical Investigations by Borehole Drilling & Plate  
Load Test for Mumbai - Ahmedabad High Speed Rail  
Project in C-5 special Package Area

Tender Documents

Single Packet Bid

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**TOP SHEET**

No.: NHSRCL/Vadodara/GEOTECH/2019-20/17

Date: 24.06.2019

Name of work : **Geotechnical Investigations by Borehole Drilling & Plate Load Test for Mumbai - Ahmedabad High Speed Rail Project in C-5 special Package Area from HSR Chainage 393.700 to 401.900 in Vadodara.**

Cost of Tender : **Rs.3,540/- (inclusive of GST @18%)**  
Document

Earnest Money : **Rs. 83,430/-**  
Deposit

Completion : **3 (Three) months**  
Period

Date of : **15.07.2019 at 15:00 hrs.**  
Submission

Date of Opening : **15.07.2019 at 15:30 hrs.**

National High Speed Rail Corporation Limited  
3<sup>rd</sup> Floor, Productivity House, Productivity Road,  
Alkapuri, Vadodara – 390007.



Dy. Chief Project Manager

उप परियोजन प्रबंधक

National High Speed Rail Corporation Ltd.

राष्ट्रीय उच्च गति रेल परियोजना लि.  
वडोदरा / Vadodara

Signature of Tenderer

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Signature of NHSRCL Authority

NHSRCL, Vadodara

Geotechnical Investigations by Borehole Drilling & Plate  
Load Test for Mumbai - Ahmedabad High Speed Rail  
Project in C-5 special Package Area

Tender Documents  
Single Packet Bid

**National High-Speed Rail Corporation Limited**  
(A Joint sector Company of Govt. of India and Participating  
State Governments)



NHSRCL/Vadodara/Geotech/2019-20/17

Date: 24.06.2019

**NOTICE INVITING TENDER**  
(Single Packet System)

**Sub: GEOTECHNICAL INVESTIGATIONS BY BOREHOLE DRILLING & PLATE LOAD TEST FOR MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT PROJECT IN C-5 SPECIAL PACKAGE AREA FROM HSR CHAINAGE 393.700 TO 409.900 IN VADODARA.**

1.0 Chief Project Manager, National High Speed Rail Corporation Limited, 3<sup>rd</sup> Floor, Productivity House, Productivity Road Alkapuri, Vadodara – 390007 invites sealed Tender on **Single Packet System** on prescribed forms for the above mentioned work. Your offer is invited for the works as given below:

| S<br>N | Name of Work   | Approximate<br>Cost of work<br>(Rs) | Time &<br>Date and<br>submissi<br>on &<br>oening<br>of tender  | Earnest<br>Money<br>Deposit (Rs.) | Comple<br>tion<br>Period |
|--------|--|-------------------------------------|--|-----------------------------------|--------------------------|
| 1      | Geotechnical Investigations by borehole drilling & plate load test for mumbai - ahmedabad high speed rail project C-5 special package area from HSR chainage 393.700 to 409.900 Vadodara | Rs. <u>41,71,360.88</u>             | Tender closing:<br>15.00 Hrs<br>on<br>15.07.19<br><br>Tender opening:<br>15.30 Hrs<br>on<br>15.07.19 | Rs. <u>83,430.00</u>              | 03<br>(Three)<br>months  |

Signature of Tenderer

Dy. Chief Project Manager  
उप परियोजन प्रबंधक  
National High Speed Rail Corporation Ltd.  
राष्ट्रीय उच्च गतिरेल निगम लिमिटेड  
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Geotechnical Investigations by Borehole Drilling & Plate  
Load Test for Mumbai - Ahmedabad High Speed Rail  
Project in C-5 special Package Area

Tender Documents  
Single Packet Bid

|     |  |
|-----|--|
|     | Vadodara on <b>15.07.2019</b> at 15.30 hrs) shall be rejected and returned to the bidder unopened. Earnest Money Deposit of <b>Rs.83,430.00/- (Rupees Eighty-Three Thousand Four hundred &amp; Thirty only)</b> should be submitted in the form of Pay Order/Crossed Demand Draft payable in favour of M/s National High Speed Rail Corporation Limited at New Delhi. Tender received without Earnest Money Deposit shall be summarily rejected. |
| 4.0 | Tender shall be submitted in accordance with the terms of the "Instruction to Tenderers" in the attachment here to, which forms part of this Notice Inviting Tender.   |
| 5.0 | National High Speed Rail Corporation Limited reserves the right to cancel the tender before submission / opening of tender, postpone the tender submission / opening date and to accept / reject any or all tenders without assigning any reasons therefor.  |
| 6.0 | Tenderer may note that they are liable to be disqualified at any time during the tendering process in case any of the information furnished by them is not found to be true. The decision of NHSRCL in this regard shall be final and binding.   |
| 7.0 | <b>The validity of the offer shall be 90 days from the date of opening of the tender.</b>  |
| 8.0 | If the tenderer does not submit any proof of meeting the eligibility criteria as given above a & tender conditions, along with the offer, The offer will be considered incomplete & will be summarily rejected. Certificates/ Credentials issued by private individuals/ Organizations will not be accepted.   |
| 9.0 | Bidders having requisite certificate from Ministry of micro, small & medium enterprises and also from National small Industry Corporation Limited are exempted from deposition of Tender fees and EMD.   |

National High-Speed Rail Corporation Ltd.,  
3<sup>rd</sup> Floor, Productivity House, Productivity Road,  
Alkapuri, Vadodara – 390007.

Dy. Chief Project Manager

उप परियोजन प्रबंधक

National High Speed Rail Corporation Ltd.

राष्ट्रीय उच्च गतिरेल निगम लिमिटेड

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- 21.1 Employer/Engineer shall notify the successful tenderer in writing by a Registered Letter/Courier/ Speed Post/FAX or per bearer that his tender has been accepted.
- 21.2 Letter of Acceptance after it is signed by the Agency in token of his acceptance shall constitute a legal and binding contract between Employer/Engineer and the Agency till such time the contract agreement is signed. The contract agreement is to be signed within 30 days from the date of issue of letter of acceptance after receipt of Performance Bank Guarantee towards the work as per terms & conditions of the contract.

### ELIGIBILITY CRITERIA

#### A. Technical Eligibility Criteria

1. The contractor should possess the experience of having successfully completed similar works during the last 7-years & current year (F.Y.2019-20) upto the last date of month previous to the one in which tender is invited, which should be any of the following: -
  - i. Three similar completed works each costing not less than Rs.16,71,297.00/-.
  - ii. Two similar completed works each costing not less than Rs.20,89,121.00/-.
  - iii. One similar completed work costing not less than Rs.33,42,594.00/-.

#### Notes:

Following will be considered as similar work:

- i. Geotechnical Investigations by Borehole Drilling Method, and
- ii. Geotechnical Investigations by Plate Load Test.

#### B. Financial Eligibility Criteria:

1. The tenderer must have received contractual payments in the previous three financial years & the current financial year upto the date of opening of tender, atleast 150% of the advertised value of the tender i.e. Rs 62,57,041.00/-
2. Average annual financial turnover of bidder during last three financial years (i.e. F.Y. 2015-16,2016-17& 2017-18) should be atleast 27,57,640.
3. Contractor should have positive neathworth. This will be judge from auditaed balace sheet of last financial years.

**Notes:** The tenderer shall submit certificates to this effect which may be an attested certificate from the concerned department/client and or audited balance

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APPENDIX TO TENDER

|   |   |
|---|---|
| Tender Notice No.   | Tender No.:NHSRCL/VADODARA/GEOTECH/2019-20/17   |
| Name of Work  | CARRYING OUT GEOTECHNICAL INVESTIGATIONS BY BOREHOLE DRILLING & PLATE LOAD TEST FOR MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT  |
| Client / Employer   | National High Speed Rail Corporation Limited  |
| Tender to be submitted / deposited / addressed (if it is sent by Post) to the office of | Office of Chief Project Manager, National High-Speed Rail Corporation Ltd, 3rd floor, Productivity House, Productivity Road, Alkapuri, Vadodara-390007  |
| a) Cost of Tender document  | Rs.3540/- (inclusive of GST @ 18%)  |
| b) Earnest Money Deposit  | <u>Rs.83,430/- (Rupees Eighty-Three Thousand Four hundred &amp; Thirty only)</u>  |
| c) Completion period  | 03 (Three) months   |
| d) Date and time of issue of tenders  | Available on NHSRCL website.  |
| e) Date and time of submission of tender  | On 15.07.2019 up to 15.00 hrs   |
| f) Date and time of opening of Bids of the tenders                                      | On 15.07.2019 at 15:30 hrs.   |
| g) Validity of Offer  | 90 days from the date of opening of tender  |
| Scope of Work and Deliverables  | The scope of work includes carrying out Geotechnical Investigations by Drilling of Boreholes of depths upto 45 m depth in soil, rock & overburden from the existing ground surface & Plate Load Test, as per the respective chainages, to determine the in-situ engineering properties on land & water as specified in the Technical Specifications, schedule of works / bill of quantities, etc. The work is to be carried out on item rate basis as per bill of quantities and tender conditions. |

Signature of Tenderer

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Dy. Chief Project Manager

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National High Speed Rail Corporation Ltd.

राष्ट्रीय उच्च गतिरेल निगम लिमिटेड

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insurance and all other incidental items as may be necessary for entire and successful completion of the work as per tender terms, drawings, specifications and instruction of the owner/engineer.

- b) Prepare and submit draft (in duplicate) and final (after incorporating comments, if any) report as per specification, schedule of items and instructions of the owner/his engineer.

#### 1.4 WORK TO BE EXECUTED BY OTHERS

No work under this specification will be executed by any agency other than the contractor unless specifically mentioned elsewhere in the contract.

#### 1.5 PLATE LOAD TESTS PROCEDURE

- a) Plate load test shall be conducted as per JGS 1521-2012 considering the following test Locations. The Test Locations and depth shall be as per the BOQ and as per the requirement of NHSRCL.

Detailed test depths to be determined by existing drilling of boreholes data and geology at the time of drilling. The depth of the test shall be reported to the owner and approved prior to the test. if ground water table is found above the test depth, test shall be immediately stopped and reported to owner for further action.

- (b) **Test Pit Size:** Pit dimension for the test shall be minimum 1.5m measured from centre of the test plate on each side of the test plate. So, minimum test pit size shall be 3mx3m. Excavation work shall be performed as per "Safety precautions at the site adjacent to Track 2015, Indian Railways" & "Excavation Work Code of Safety, IS:3764-1992 (Re- affirmed 1996)".

Signature of Tenderer

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उप परियोजन प्रबंधक  
National High Speed Rail Corporation Ltd.  
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**BILL OF QUANTITIES (BOQ)****GEOTECHNICAL INVESTIGATIONS BY BOREHOLE DRILLING & PLATE LOAD  
TEST FOR MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT**

| SN  | Schedule of Items   | Unit | Quantity | Rate<br>(Rs.) | Amount<br>(Rs.)    |
|-----|---|------|----------|---------------|--------------------|
| 1   | Carrying out Plate Load Tests to confirm the bearing capacity of the ground at foundation formation level at pier location, complete as per the Drawings, technical specifications, general specifications and direction of the Engineer, with contractor's own machinery, equipment, loading arrangement etc.<br>This item includes charges for mobilisation & demobilisation of testing equipment, local shifting, excavation of test pit, in-situ tests (as directed by NHSRCL representative) laboratory testing & Report preparation & submission also,<br><u>The test shall be carried out as per the requirement in various pits</u> |      |          |               |                    |
| (a) | As per JGS 1521-2012 at Depth up to 2m  | Nos. | 1        | 42,222.3<br>1 | 42,222.31          |
| (b) | As per JGS 1521-2012 at Depth <u>2m to 3m</u>   | Nos. | 1        | 43,743.5<br>0 | 43,743.50          |
| (c) | As per JGS 1521-2012 at Depth <u>3m to 4m</u>   | Nos. | <u>2</u> | 46,692.5<br>0 | <u>93,385.00</u>   |
| (d) | As per JGS 1521-2012 at Depth <u>4m to 5m</u>   | Nos. | 1        | 49,641.5<br>0 | 49,641.50          |
| (e) | As per JGS 1521-2012 at Depth <u>6m to 7m</u>   | Nos. | 1        | 59,518.5<br>7 | 59,518.57          |
|     |   |      | C/O      | Total=        | <u>2,88,510.88</u> |

Signature of Tenderer

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Dy. Chief Project Manager

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National High Speed Rail Corporation Ltd.

राष्ट्रीय उच्च गतिरेल निगम लिमिटेड

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| SN | Schedule of Items  | Unit | Quantity | Rate (Rs.) | Amount (Rs.)        |
|----|--|------|----------|------------|---------------------|
|    |  |      |          | B/F        |                     |
| 2  | <p>Geotechnical Investigation for Structures on Land i.e. Viaduct / RFOs/RUBs/ ROB's/ Minor Bridges/ Major Bridges.</p> <p>Exploratory drilling of 150mm diameter boreholes in all types of soil including conducting standard penetration test at specified depth, collection of disturbed, undisturbed samples from boreholes and Drilling of Nx size boreholes (65mm diameter) in all type of rock (boulders, weathered and fresh rock) and collection of rock core samples. Maximum depth of borehole shall be 45 m.</p> <p>This item includes charges for mobilisation &amp; demobilisation of drilling equipment, local shifting, in-situ permeability test, <u>water pressure test, chemical analysis test, Tri-axial compression test, SPT, Physical properties test etc.</u> (as directed by NHSRCL representatives) laboratory testing &amp; Report submission also.</p> |      |          |            |                     |
| a) | Drilling in soil   | M    | 1600     | 2211.75    | <u>35,38,800.00</u> |
| b) | Drilling in rock   | M    | 125      | 2752.40    | <u>3,44,050.00</u>  |
|    | <b>Total Cost of Schedule (1+2) excluding GST</b>  |      |          |            | <u>41,71,360.88</u> |

Signature of Tenderer

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Dy. Chief Project Manager

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**Subject-** Carrying out Geotechnical Investigations by Borehole Drilling & Plate Load Test in C-5 special package area from HSR Chainage 393.700 to 401.900 for Mumbai - Ahmedabad High Speed Rail Project.

**OFFER SHEET**

| Sl. No. | Schedule       | Total Cost of schedule in Rs. Ps. | RATE QUOTED BY THE TENDERER |                          |
|---------|----------------|-----------------------------------|-----------------------------|--------------------------|
|         |                |                                   | In Figures                  | In Words                 |
| 1       | Schedule (1+2) | 41,71,360.88                      | _____                       | _____                    |
|         |                |                                   | %age Above/Below/At par*    | %age Above/Below/At par* |

\* Strike whichever is not applicable (above/below/At par)

**Note:**

- The bidder shall quote rates as per the above schedule. GST will be paid extra as applicable on submission of documentary proof.
- Above quantities are tentative in nature and may change as per NHSRCL's requirement.
- The Tenderer's quoted rate for the complete items shall include all taxes, costs towards power, fuels, tools and plants, tackle, equipment, materials, transport, cess, royalty, Octroi of materials, labour, supervision, layout, setting out the locations for field tests, all taxes except GST, levies, contingencies, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary according to the Contract. NHSRCL will not entertain any claim what so ever in this respect. This should be included in the rates quoted by contractor.
- Quantities mentioned in the Schedule of Items depend upon the type of soil actually met with during execution and may therefore vary to any extent. The quantities are indicated merely for the purpose of quoting rates. Payments shall be based on actual work done both in the total value of the works executed under this contract, including extra items, if any, remain within  $\pm 25\%$  (Twenty Five percent) of the original contract value of the works.
- The Contractor, in his own interest, should get an indication of the probable extent of work to be executed under any particular item in this schedule before undertaking any preliminary work duly approved by NHSRCL.

Signature of Tenderer

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