

DA/GT/COR-OF/007

Dated: 11.11.2019

To,

**M/s CEG Test House and Research Centre Pvt. Ltd.**

B-11 (G), 1<sup>st</sup> Floor,  
Malviya Industrial Area,  
Jaipur 302017

Tel:- 0141- 4046599, Fax : 0141 2751806

Email: bd@cegtesthouse.com

(hereinafter termed as Contractor)

(Kind Attention- **Mr. Aditya Jain**)

**Sub: - Bid No: DA/GT/COR-OF/007:** Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor.  
**Amendment in LOA (Letter of Acceptance)**

**Ref: -**

- I. Letter of Acceptance (LOA) dated 11.10.2019

With reference (i) LOA no DA/GT/COR-OF/007 dated 11.10.2019 was issued for the subject work. As per para 3.0 of LOA, Completion period for the work was erroneously mentioned 06 months instead of **12 months** as amended in Addendum No-2 published on dated 31.07.2019. Therefore, para 3.0 of LOA is amended as below & superseded the para no 03 issued in LOA dated 11.10.2019.

**"3.0 Completion Period"**

*In terms of **Clause 1.2 (c) of IFB** of the bid documents, the entire work shall be completed in a period of **12 months from the commencement date**. As per **clause 8.1 of GCC, Section-5**, the commencement date will start from **18.10.2019** i.e. 07 days from the date of issue of LOA".*

All other terms and conditions of the contract documents shall remain unchanged.

Please acknowledge receipt of the letter.

Yours faithfully,

For & on behalf of  
National Capital Region Transport Corporation Limited

  
(Saurabh Kohli)

**Sr. Deputy General Manager/Procurement-II**

**Copy to:** ED/Civil, CPM/Gurugram, GGM/Finance, GM/Planning, Sr.DGM HR, Dy.Chief Engineer/Gurugram.

DA/GT/COR-OF/007

Dated: 11.10.2019

**LETTER OF ACCEPTANCE**

To,

**M/s CEG Test House and Research Centre Pvt. Ltd.**

B-11 (G), 1<sup>st</sup> Floor,

Malviya Industrial Area,

Jaipur 302017

Tel:- 0141- 4046599, Fax : 0141 2751806

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(Kind Attention- **Mr. Aditya Jain**)

**Sub: - Bid No: DA/GT/COR-OF/007: Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor.**

**Ref: -**

- I. Press Advertisement dated 03.07.2019
- II. Bid Reference No DA/GT/COR-OF/007 dated 10.05.2019.
- III. Addendum No.1 published on 23.07.2019.
- IV. Addendum No. 2 published on 31.07.2019
- V. Technical Bid opened on 23.08.2019.
- VI. Financial Bid Opened on 07.10.2019

With reference to the above this is to inform to the Contractor that the bid for the subject work of “**DA/GT/COR-OF/007: Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor**” has been accepted by National Capital Region Transport Corporation Ltd (hereinafter termed as “Employer”) at total contract value of **Rs. 1,81,03,211/- (Rupees One Crore Eighty-One Lakh Three Thousand Two Hundred and Eleven Only)**, hereinafter termed as “Contract value”, **inclusive of all taxes, duties, royalties etc. excluding GST.** The scope of work, accepted rates and terms/conditions applicable to this LOA are as under:

**1.0 Scope of Work**

In terms of **ITB 1.1 (Instructions to Bidders)**, Section-1 of the bid documents, the scope of work covered under this LOA is as stipulated in **Part-II Employer's (Works) Requirement** under the bid documents read with amendments referred above, uploaded on Employer's website and submitted by the Contractor with their bid. The work shall be carried out as per the above scope of work.



Bid No: DA/GT/COR-OF/007 (Page1 of 3)

## **2.0 Accepted Rates/Cost and Payment Schedule**

**2.1** The accepted rates for various items of work covered under this LOA are stipulated in the Bill of Quantities enclosed as **Annexure- I (Bill of Quantities)** to this LOA. The above accepted rates include all costs associated for performing the entire scope of work, all taxes, duties etc. complete except **GST**. GST will be paid extra as applicable on the submission of GST Invoices for first RA bill. The subsequent RA bill shall be processed for payment upon submission of documentary evidence towards payment of GST collected on the previous bill to the GST Authorities. The Final bill payment shall be released on the undertaking by the Contractor for providing evidence within 21 days from the close of month in which payment is released.

**2.2** As per Bid Conditions, this is fixed priced contract. Price Adjustment shall not be applicable in the present Contract.

## **3.0 Completion Period**

In terms of **Clause 1.2 (c) of IFB** of the bid documents, the entire work shall be completed in a period of **06 months** from the commencement date. As per **clause 8.1 of GCC, Section-5**, the commencement date will start from **18.10.2019** i.e. 07 days from the date of issue of LOA.

## **4.0 Submission of Performance Security**

In terms of **ITB 40 (Instructions to Bidders), Section-1** of the bid documents, within 28 days of receipt of this Letter of Acceptance by the Contractor, the Contractor shall furnish to the Employer a Performance Security in the form of Performance Bank Guarantee stipulated in **Clause 4.2 of the General Condition of Contract (GCC), Section-5 and Appendix to Bid, Section-6** of the bid document for an amount of **Rs. 18,10,321/- (Rupees Eighteen Lakh Ten Thousand Three Hundred and Twenty-One Only)** being amount equal to **10% (Ten Percent)** of the accepted Contract value as stated in **Clause 4.2 of Appendix to Bid, Section-6**.

## **5.0 Release of Bid Security**

In terms of **ITB 19.5 (Instructions to bidders), Section-1** of the bid document, the bid security submitted by the Contractor with his bid shall be returned upon the execution of the contract agreement and on receipt of the performance security by the Employer or the condition stipulated in bid documents.

## **6.0 Signing of Contract Agreement**

In terms of **ITB 41 of Section-1 (Instructions to Bidders)** of the bid documents, the Contractor shall enter into a contract agreement with the Employer for the works covered under this LOA within the time limits as specified therein. The Contractor shall be informed by the Employer about signing of contract agreement on receipt of acceptance of this LOA and Performance Security by the Employer.





### **7.0 Other Terms and Conditions**

The execution of this contract shall be governed by the various stipulations in the bid documents and its amendments referred above. Any deviation from the above conditions, submitted by the Contractor in its bid, if any, stands withdrawn.

### **8.0 Nomination of Engineer in Charge**

In terms of Clause 3.1 of General Conditions of Contract, Section-5, it is to inform that **Dy.Chief Engineer/Gurugram**, National Capital Region Transport Corporation Limited, 311 A&B, 3<sup>rd</sup> Floor, JMD Pacific Square, Sector-15, Part-II, Gurugram-122001 Tel No.-+ 91 1244266486 has been nominated as the Engineer for the subject Contract. The Contractor is advised to interact with the above official for further instructions as regards the execution of works.

### **9.0 Acceptance of the LOA**

This letter of acceptance is being issued in duplicate, in favour of the Contractor. The copy marked as "Duplicate" is required to be returned by the Contractor, duly signed and stamped on each page by the authorized signatory of the Contractor, as a token of Contractor unconditional acceptance of the same so as to reach the undersigned within seven days of issue of this letter. This LOA shall constitute a binding agreement between the Employer and the Contractor till such time a formal agreement is signed between the Employer and the Contractor for the execution of this contract.

Please acknowledge receipt of the letter.

Yours faithfully,

For & on behalf of  
National Capital Region Transport Corporation Limited

  
( Saurabh Kohli )  
Sr. Deputy General Manager/Tender

Encl: Annexure-A (Bill of Quantities : Total 05pages).

Copy to: ED/Civil, CPM/Gurugram, GGM/Finance, GM/Planning, Sr.DGM HR, Dy.Chief Engineer/Gurugram.

**NATIONAL CAPITAL REGION TRANSPORT CORPORATION LIMITED**



**DA/GT/COR-OF/007: Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor.**

**Financial Bid**

**NATIONAL CAPITAL REGION TRANSPORT CORPORATION LTD.,**

7/6, Siri Fort Institutional Area, August Kranti Marg, New Delhi-110049, Phone: 011-41066943, Fax: 011-4106 6953



**Bill of Quantities**  
**PREAMBLE**

1	The Bill of Quantity bid shall be read in conjunction with Instruction to Bidders, General and Particulars Conditions of Contract, Notice for Invitation of bids, Technical specification, Employer's Requirements and Tender Drawings.
2	The rates/prices are mentioned in BOQ are for complete and finished items of work and complete in all respect.
3	Location where the road vehicles/ pedestrians are mixing along the construction site, shall be provided and maintained with barricading as per drawing provided in the tender. The cost of barricading including shifting etc. are included in the quoted rates of respective items & nothing extra shall be paid separately for the same.
4	The work executed against the BOQ items would be paid on measurement basis.
5	The Contractor may raise their 'On Account' payments on monthly basis as per the status of work on the last day of the respective month.
6	The Accepted rates/percentage shall be inclusive of necessary lighting, drinking water, lead & lift of the materials, security guards, housekeeping, general safety of site, cost towards any other statutory compliances etc complete and any other cost towards in compliance of tender document.
7	The Accepted rates/percentage are inclusive of all taxes, duties, levies, cess, Royalties, insurances & all other incidental charges except Goods and Services Tax, required to fulfill the Bid Conditions including statutory deductions viz. TDS towards Income Tax / Works Contract Tax / GST TDS / Labour Cess etc. GST shall be paid as per para 2.1 of LOA.



**BILL OF QUANTITIES**  
**SUMMARY SHEET**

DA/GT/COR-OF/007: Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor.

NAME OF BIDDER		M/s CEG Test House And Research Centre Pvt. Ltd.			
S.No.	Description	Financial Amount	Percentage'Accepted by the bidder above/below/ at par the respective Schedule/ Section		Accepted Amount (In INR)
			Above/below/at par	(Percentage (%age) in numerical figure)	
1	2	3	4	5	6
1	DA/GT/COR-OF/007: Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor.	₹ 1,98,39,135	Below	8.75	₹ 1,81,03,211





## Bill of Quantities

### Detailed Geotechnical Investigation work from Sarai Kale Khan (SKK) (Ch. 0 Km) to IDPL Complex (Ch. 23.30 Km) of SKK (Sarai Kale Khan) - SNB (Shahjahanpur-Neemrana-Behror) Regional Rapid Transit System (RRTS) Corridor.

Item No.	Description of Item	Unit	Rate (Rs)	Quantity	Amount (Rs)
<b>1</b>	<b>Field Investigation</b>				
1.1	Mobilisation of drilling equipment and all associated in situ testing equipment including core boxes (rigs at a time)	per rig	7531.6	7	52,721
1.2	Drilling of boreholes in all types of strata from existing ground level and soil				
i)	GL – 10m	m	419.5	2822	11,83,760
ii)	10 – 20m	m	519.9	2882	14,98,344
iii)	More than 20m up to 60 m depth	m	597.3	7181	42,89,252
1.3	Drilling in Rock required cutting by diamond bits/cutters.				
i)	Weathered Rock	m	4817.1	473	22,78,494
ii)	Hard Rock	m	6929.1	203	14,06,608
1.4	Carry out SPT tests	Nos	131.8	8550	11,26,920
1.5	Collect disturbed samples	Nos	84.7	8550	7,24,495
1.6	Collect UD samples	Nos	118.2	4275	5,05,349
1.7	Conduct permeability test In over burden soil				
(i)	In over burden soil	Nos	2052.4	285	5,84,925
(ii)	in Rock with packers	Nos	5107.9	15	76,619
1.8	Collect water samples	Nos	37.7	300	11,297
1.9	Survey of all boreholes including plotting of a co ordinate (XYZ) on alignment plan	KM	753.2	23.4	17,624
1.10	Conducting crosshole shear wave test (CHSWT) in bore hole in all types of strata at all depths such as 2m, 4m, 6m, 8m, 10m, 13m, 16m, 19m, 22m, 25m, 28m, 31m, 35m, 38m & 45m below ground level including boring of required number of bore holes, preparation of boreholes, providing PVC liner, grouting and backfilling with sand after completion of the test etc all complete as per specification, drawings and as directed by the engineer-in-charge.	Each	401080.0	2	8,02,160





Item No.	Description of Item	Unit	Rate (Rs)	Quantity	Amount (Rs)
1.11	Conducting pressuremeter test (PMT) in various bore holes in all types of strata at all depths such as 2m, 5m, 8m, 11m, 14m, 17m, 20m, 23m, 26m, 29m, 32m, 35m, 38m & 40m below ground level including preparation of bore hole of required size etc all complete as per specification, drawings and as directed by the engineer-in-charge. Cost of the borehole and backfilling etc shall be paid separately as per relevant BOQ item	Each	81300.0	2	1,62,600
1.12	Conducting Plate Load Test (PLT) in various locations as per IS 1888 & specifications and as directed by the engineer -in -charge, plotting load intensity verses settlement curve, complete test in all respect	Nos	29810.0	3	89,430
<b>2</b>	<b>Laboratory Tests</b>				
<b>A</b>	<b>Soil Samples</b>				
2.1 (i)	Sieve Analysis	Nos	32.0	8550	2,73,600
ii)	Hydrometer Analysis	Nos	61.7	8550	5,27,731
2.2	Specific gravity	Nos.	47.1	4275	2,01,259
2.3	Moisture Content	Nos.	18.8	4275	80,494
2.4	Dry Density	Nos.	18.8	4275	80,494
2.5	Atterberg Limits	Nos.	141.2	8550	12,07,461
2.6	Consolidation Tests	Nos.	470.7	849	3,99,647
2.7	Triaxial Shear Tests				
i)	Undrained consolidated	Nos.	188.3	849	1,59,859
ii)	Undrained unconsolidated test	Nos.	188.3	849	1,59,859
2.8	Direct shear tests	Nos	321.1	1360	4,36,758
2.9	Chemical Analysis				
i)	Soil	Nos.	188.3	300	56,487
ii)	Water	Nos	188.0	300	56,400
<b>B</b>	<b>Rock samples</b>				
2.11	Density test	Nos	167.4	15	2,511
2.12	Water absorption and porosity	Nos	167.4	15	2,511
2.13	Determination of Hardness	Nos	138.1	15	2,071
2.14	Unconfined compression test	Nos	413.2	15	6,198
2.15	Carry out point load index	Nos	519.9	15	7,798
2.16	Modulus of elasticity	Nos	611.9	15	9,179
2.17	Abrasion testing	Nos	519.8	15	7,797
<b>3</b>	<b>Report</b>				
3.1	Provide Draft factual reports (for each Km, 3 copies each)	KM	941.5	23.4	22,030
3.2	Provide final report 1 set (6 copies)	Set	6590.2	1	6,590
4	Provision of barricading boards as per the tender drawing at the location of each boreholes, provision of lighting, traffic marshals etc. complete as per the safety manual, maintaing, shifting of the entire setup to next location complete with all incidentals	each location	4406.0	300	13,21,801
<b>TOTAL (excluding GST)</b>					<b>₹1,98,39,135</b>

