

NOTICE INVITING TENDER (NIT)

1.1 GENERAL

1.1.1 Name of Work:

Lucknow Metro Rail Corporation (LMRC) Ltd. invites Open Tenders on international competitive basis from eligible applicants from all countries and all areas, who fulfil *qualification criteria* as stipulated in clause 1.1.4 of NIT, for the work, **“Contract-LKCC-05- Design and Construction of Cut and Cover Tunnel (approx.. length = 230m) including Ramp (approx.. length = 338m) & one underground “Airport” station at Lucknow, Uttar Pradesh, India”**

The brief scope of the work and site information is provided in ITT clause A1 & Employer Requirements (Volume –3)

1.1.2 Key details :

Approximate cost of work	INR 290 Crores
Tender Security amount	INR 2.90 Crores
Completion period of the Work	30 months
Tender documents on sale	From 22.12.2016 to 16.01.2017 (between 09:30 Hrs to 17:30 Hrs) on working days
Cost of Tender documents	INR 21000/- (inclusive of 5% UPVAT) (Demand Draft on a scheduled commercial bank based in India in favour of “Lucknow Metro Rail Corporation Ltd”) payable at Lucknow.
Last date of Seeking Clarification	<u>20.01.2017</u>
Pre-bid Meeting	<u>27.01.2017 @ 1500 Hrs</u>
Last date of issuing addendum	06.02.2017
Date & time of Submission of Tender	<u>07.03.2017 @ 15:00 Hrs.</u>
Date & time of opening of Tender	<u>07.03.2017 @ 15:05 Hrs.</u>
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents	Chief Engineer/Contract, Lucknow Metro Rail Corporation, Administrative Building, Vipin Khand, Gomti Nagar, Near Dr.Bhimrao Ambedkar Samajik Parivartan Sthal, Lucknow-226010, Uttar Pradesh, India

1.1.3 LMRC is receiving Loan from bilateral/multilateral funding agency/agencies hereinafter called “Funding Agency” toward the Part cost of North-South Corridor Phase-1 A Project of Lucknow Metro, and intends to apply a portion of the proceeds of the loan to payments under this contract. Disbursement of the loan will be subject, in all respects, to the terms and conditions of the Loan Agreement, including the disbursement procedures and the applicable guidelines

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of Funding Agency. No party other than LMRC shall derive any rights from the Loan Agreement or have any claim to loan proceeds. The above Loan Agreement will cover only a part of the project cost. The remaining portion shall be financed through equity participation by the Government of India and Government of Uttar Pradesh and other appropriate means.

1.1.4 QUALIFICATION CRITERIA:

1.1.4.1 **Eligible Applicants** : Please refer Clause A3 of ITT

1.1.4.2 **Minimum Eligibility Criteria:**

A. Work Experience: The tenderers will be qualified only if they satisfy the criteria **as given in para A.1, A.2 and A.3** below (during last Ten years ending 30.11.2016):

A.1 :Work experience of cut & cover tunneling and construction of u/g station by cut & cover method :

(i) At least one single work of civil construction of value Rs. 174.50 Crores or more which shall include one underground station or a double basement in urban environment including completed portion of ongoing work (having plan area of at least 4500 Sqm) using cut & cover method.

If the above work of value Rs. 174.50 Crores or more has been done by the foreign partner of JV and the work was done in the country of the foreign partner then in addition to this, the foreign partner must have done at least one relevant work equal to value 87.00 Crores or more outside the country of the foreign partner.

OR

(ii) Two different works of civil construction, each of value Rs. 109.00 Crores or more, which shall include at least one work of one underground station or a double basement in urban environment including completed portion of ongoing work (having plan area of at least 4500 Sqm) using cut & cover method.

If both the works of value Rs. 109.00 Crores or more have been done by the foreign partner of the JV, then either at least one of these two works should have been done outside the country of the foreign partner and if not, then in addition to this, the foreign partner must have done at least one relevant work equal to value Rs. 87.00 Crores or more outside the country of the foreign partner.

OR

(iii) Three different works of civil construction each of value Rs. 87.00 Crores or more, which shall include at least one work of one underground station or a double basement in urban environment including completed portion of ongoing work (having plan area of at least 4500 Sqm) using cut & cover method.

If all the three works of value Rs. 87.00 Crores or more or two out of the three works have been done by the foreign partner of the JV, then either at least one of these three works should have been done outside the country of the foreign partner.

Notes:

- a) “Relevant work” referred in para (i) and (ii) above means work that includes construction of underground station or a double basement in urban environment including completed portion of ongoing work using cut & cover method.
- b) Experience of underground station or double basement means experience of completion of entire civil works (“including structural works but excluding architectural finishes, E&M and ECS & TVS works”) of the underground station under reference.

A.2 :Work experience of E&M Works (Detail Engineering, Supply, Installation, Testing and Commissioning of Electrical and Mechanical system including Fire and Hydraulic system)

A2.1 (i) At least one single E&M work of value Rs. 28.00 Crores or more for Detailed Engineering, Supply, Installation, Testing and commissioning of Electrical and Mechanical system including Fire and Hydraulic system for Metro Rail/Railway /Airport / Infrastructure projects/Commercial Projects/Industrial plants.

If the above work of value Rs. 28.00 Crores or more has been done by the foreign partner of JV and the work was done in the country of the foreign partner then in addition to this, the foreign partner must have done at least one relevant work equal to value Rs. 14.00 Crores or more outside the country of the foreign partner.

OR

(ii) Two different E&M works each of value Rs. 17.50 Crores or more for Detailed Engineering, Supply, Installation, Testing and commissioning of Electrical and Mechanical system including Fire and Hydraulic system for for Metro Rail/Railway /Airport / Infrastructure projects/Commercial Projects/Industrial plants.

If both the works of value Rs. 17.50 Crores or more have been done by the foreign partner of JV, then either at least one of these two works should have been done outside the country of the foreign partner and if not, then in addition to this, the foreign partner must have done at least one relevant work equal to value Rs. 14.00 Crores or more outside the country of the foreign partner.

OR

(iii) Three different E&M works each of value Rs. 14.00 Crores or more for Detailed Engineering, Supply, Installation, Testing and commissioning of Electrical and Mechanical system including Fire and Hydraulic system for for Metro Rail/Railway /Airport / Infrastructure projects/Commercial Projects/Industrial plants.

If all the three works of value Rs. 14.00 Crores or more or two out of the three works have been done by the foreign partner of JV, then either at least one of these three works should have been done outside the country of the foreign partner.

A2.2 Experience of minimum two works for Control & Monitoring of E&M system including Fire & Hydraulics System.

A.3 Work experience ECS & TVS work (Design verification, Detail Engineering, Supply, Installation, Testing and Commissioning of Environment Control System (ECS) And Tunnel Ventilation System (TVS))

A3.1 (i) At least one single ECS & TVS work of value Rs. 30.00 Crores or more (including if part of E&M work) for Design verification, Detail Engineering, Supply, Installation, Testing and Commissioning of Environment Control System (ECS) / Tunnel Ventilation System (TVS) for Metro Rail/Railway /Airport / Infrastructure projects/Commercial Projects.

If the above work of value Rs. 30.00 Crores or more has been done by the foreign partner of JV and the work was done in the country of the foreign partner then in addition to this, the foreign partner must have done at least one relevant work equal to value Rs. 15 Crores or more outside the country of the foreign partner.

OR

(ii) Two different ECS & TVS works each of value Rs.18.50 Crores or more (including if part of E&M work) for Design verification, Detail Engineering, Supply, Installation, Testing and Commissioning of Environment Control System (ECS) / Tunnel Ventilation System (TVS) for Metro Rail/Railway /Airport / Infrastructure projects/Commercial Projects/Commercial Projects.

If both the works of value Rs. 18.50 Crores or more have been done by the foreign partner of JV, then either at least one of these two works should have been done outside the country of the foreign partner and if not, then in addition to this, the foreign partner must have done at least one relevant work equal to value Rs. 15.00 Crores or more outside the country of the foreign partner.

OR

(iii) Three different ECS & TVS works each of value Rs. 15.00 Crores or more (including if part of E&M work) for Design verification, Detail Engineering, Supply, Installation, Testing and Commissioning of Environment Control System (ECS) / Tunnel Ventilation System (TVS) for Metro Rail/Railway /Airport / Infrastructure projects/Commercial Projects/Commercial Projects.

If all the three works of value Rs. 15.00 Crores or more or two out of the three works have been done by the foreign partner of JV, then either at least one of these three works should have been done outside the country of the foreign partner.

A.3.2 Experience of minimum **one works** for **Design Validation**, Installation, Testing and Commissioning of TVS System for Metro Rail/ Public Transport system.

- A.3.3 Experience of minimum **one works** for **Control & Monitoring** of TVS System and of ECS systems of Metro Rail/Railway /Airport / infrastructure projects/Commercial Projects.

Notes :

- a) The tenderer shall submit details of work executed by them in the Performa of **Annexure-1** for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. **The offers submitted without this documentary proof shall not be evaluated.** In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by C.A., T.D.S certificates for all payments received and copy of final/last bill paid by client shall be submitted.
- b) Value of successfully completed portion of any ongoing work up to 30.11.2016 will also be considered for qualification of work experience criteria.
- c) For completed works, value of work done shall be updated to 30.11.2016 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. **Selling rate of exchange at the close of business of the State Bank of India on the day twenty eight days before the latest date of Tender Submittal shall be considered for calculating equivalent value in INR.**
- d) In case of joint venture / Consortium, full value the work, if done by the same joint venture or any of members of the Joint Venture shall be considered. However, if the work done by them in any other JV/consortium, value of work as per his percentage participation in that JV shall be considered.
- e) Criterion for work experience for “Cut & cover tunneling and construction of u/g station by cut & cover method” (Para A.1) shall be satisfied by a single entity/JV/ Consortium. Criterion for work experience for “E&M works” (Para A.2) shall be satisfied by a single entity/ JV/ Consortium **or a subcontractor**. Similarly criterion for work experience for “ECS & TVS work” (Para A.3) shall be satisfied by a single entity/ JV/ Consortium or a subcontractor. Subcontractor/s for “E&M works” and “ECS & TVS work” may be the same or different. A JV partner can participate in only one of the bidding JV/Consortium while a subcontractor for “E&M” / ”ECS & TVS” can participate with different/ multiple Tenderers.
- f) The Joint venture/MOU/Consortium agreement must contain a clause stating “All the partners are Jointly and severally liable to LMRC.”
- g) In case of bidder or his “E&M” / ”ECS & TVS” Sub contractor does not have the experience as required in para A2.2 for “E&M work” and para A3.2 & A3.3 for “ECS & TVS work”, Support documents from specialist vendors/designers in support of having such experience conforming their willingness with the bidder/sub-contractor for **meeting the requirement of above mentioned clauses i.e. A2.2, A3.2 & A3.3** shall be submitted along with the bid.
- h) **A Tenderer can submit work experience credentials of multiple Sub contractors to Single entity/JV/Consortium or respective Sub contractor for “E&M work” / “ECS & TVS work” for “E&M work” as well as for “ECS & TVS work”.**

B. - Financial Standing: The tenderers will be qualified only if they have minimum financial capabilities as below:

- (i) **T1 - Liquidity**

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- (a) The tenderer must have liquidity equal to cash flow requirement of value Rs. 12.45 Crores for the contract.
- (b) The liquidity shall be ascertained from Net Working Capital {Current Assets – (current liabilities + provisions)} as per latest audited balance sheet and/or from the Banking reference(s).
- (c) Banking reference(s) should contain in clear terms the amount that the Bank will be in a position to lend for this work to the applicant/member of the Joint Venture/Consortium. In case the Net Working Capital (as seen from the Balance Sheet) is negative, only the Banking reference(s) will be considered, otherwise the aggregate of the Net Working Capital and submitted Banking reference(s) will be considered for working out the Liquidity.
- (d) The Banking references should be from a Scheduled Bank in India or from an International Bank of repute (in case of foreign vendors) and it should not be more than 3 months old as on the date of submission of bids.
- (e) In Case of JV: - Requirement of working capital is to be distributed between members as per their percentage participation and every member should satisfy the requirement for his portion.

Example: Let member-1 has percentage participation=M and member-2 has percentage participation=N. If minimum working capital required is 'W' then working capital of member-1 $\geq \frac{W M}{100}$ and working capital of member-2 $\geq \frac{W N}{100}$.

- (f) In case the applicant is a Joint Venture/Consortium and if Banking Reference is issued by the bank in favour of the Joint Venture/Consortium for this contract, then it will be considered for the tenderer and if the Banking reference(s) is issued in favour of any member of JV/Consortium it will be considered only for that member.

- (ii) **T2 - Profitability**: Profit before Tax should be Positive in at least 2(two) years, out of the last five audited financial years

In Case of JV- The profitability of only lead member shall be evaluated.

- (iii) **T3 - Net Worth**: Net Worth of tenderer must be Rs. 17.44 Crores in the latest audited financial balance sheets.

In Case of JV, the algebraic sum total of Net Worth of all the members as per the latest audited balance sheets shall be considered the Net Worth of the tenderer.

- (iv) **T4 - Annual Turnover**: The average annual turnover from construction in last five financial years should be > 69.75 Crores.

In Case of JV – the tenderer must fulfil the following conditions:

1. Each partner to have minimum 25% of minimum requirement.
2. At least one partner to have 40% of minimum requirement.
3. All partners put together should meet the minimum requirement as per their percentage participation.

Example: Let Member-1 has percentage participation = M and Member - 2 has =N. Let the average annual turnover of Member-1 is 'A' and that of Member-2 is 'B', then the average annual turnover of JV will be

$$\frac{=AM+BN}{100}$$

Notes:

- Financial data for latest last five audited financial years has to be submitted by the tenderer in **Annexure-2** along with audited balance sheets. The financial data in the prescribed format shall be certified by Chartered Accountant with his stamp and signature. In case audited balance sheet of the last financial year is not made available by the bidder, he has to submit an affidavit certifying that ‘the balance sheet has actually not been audited so far’. In such a case the financial data of previous ‘4’ audited financial years will be taken into consideration for evaluation. **If audited balance sheet of any other year than the last year is not submitted, the tender will be considered as non-responsive.**
- Where a work is undertaken by a group, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.

1.1.4.3 **Bid Capacity Criteria :**

Bid Capacity: The tenderers will be qualified only if their available bid capacity is more than the approximate cost of work as per NIT. Available bid capacity will be calculated based on the following formula:

$$\text{Available Bid Capacity} = 2*A*N - B$$

Where,

A = Maximum of the value of construction works executed in any one year during the last five financial years (updated to 31.10.2016 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year).

N = No. of years prescribed for completion of the work

B = Value of existing commitments (**as on 30.11.2016** for on-going construction works during period of **30 months w.e.f. 01.12.2016**).

Notes:

- Financial data for latest last five financial years has to be submitted by the tenderer in **Annexure-3A** along with audited financial statements. The financial data in the prescribed format shall be certified by the Chartered Accountant with his stamp and signature in original.
- Value of existing commitments for on-going construction works during period of **30 months w.e.f. 01.12.2016** has to be submitted by the tenderer in **Annexure-3B**. These data shall be certified by the Chartered Accountant with his stamp and signature.
- In the case of a group, the above formula will be applied to each member to the extent of his proposed participation in the execution of the work. If the proposed % is not provided, equal participation will be assumed.

- 1.1.4.4 The tender submission of tenderers, who do not qualify the minimum eligibility criteria & bid capacity criteria stipulated in the clauses 1.1.4.2 to 1.1.4.3 above, shall not be considered for further evaluation and therefore rejected. The mere fact that the tenderer is qualified as mentioned in sub clause 1.1.4.2 to 1.1.4.3 shall not imply that his bid shall automatically be accepted. The same should contain all technical data

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as required for consideration of tender prescribed in the ITT.

1.1.4.5 Minimum Key Staff requirement –

A. Civil Works including Tunnel , Underground Station, ramps, architectural finishes etc.

a) **Project Manager** – having minimum 15 years of total experience out of which 10 years should be in projects of similar nature.

b)**Deputy Project Manager (DPM) Station** - having minimum 10 years of total experience out of which 8 years should be in projects of Metro Construction.

c)**Deputy Project Manager (DPM) Tunnel** - having minimum 10years of total experience out of which 8 years should be in tunnelling.

d)**Station In-Charge (one for each station)** - having minimum 8 years of total experience out of which 5 years should be in projects of Station Construction.

e)**Chief Safety Manager** – As per the qualification and experience given in General Instruction – 2 of LMRC SHE manual.

f) **Chief Quality Manager** – having minimum 8 years of total experience out of which 5 years should be in projects of Metro Construction

B. For E&M and ECS & TVS, Please refer Appendix G Annexure 4 of ITT.

NOTE – Please submit the CV of above Key Personals as per Annexure – 5.

1.1.5 The Tender documents consist of :

Volume 1

Notice Inviting Tender
Instructions to Tenderers (including Annexures)
Form of Tender (including Appendices)

Volume 2

General Conditions of Contracts
Special Conditions of Contract (including Schedules) : Part 1: for Civil works (including Tunnel, Underground Station, Cut & Cover, Ramps, Architectural Finishes etc.)
Special Conditions of Contract (including Schedules): Part 2: for E&M and ECS & TVS etc.

Volume 3

Employer’s Requirements – General (Part 1: Civil, Part 2: E&M, TVS, ECS etc.)
Employer’s Requirements – Functional (Part 1: Civil, Part 2: E&M, TVS, ECS etc.)
Employer’s Requirements – Design (Civil)
Employer’s Requirements – Construction (Civil)
Employer’s Requirements – Appendices

Volume 4

Outline Design Specifications (Civil)

Volume 5

Outline Construction Specifications (Civil)

Volume 6

Tender Drawings (Part 1: Civil, Part 2: E&M, TVS, ECS etc.)

Volume 7

Bill of Quantities

Volume 8

Condition of Contract on Safety, Health & Environment (SHE) Ver 1.2

Volume 9

Reference Document - Geotechnical Report

- 1.1.6 The contract shall be governed by the documents listed in para 1.1.5 above along with latest edition of CPWD Specification, IRS Specifications & MORTH Specifications. These may be purchased separately from the market.
- 1.1.7 The tenderers may obtain further information/ clarification, if any, in respect of these tender documents from the office of Chief Engineer/Contract, Lucknow Metro Rail Corporation, Administrative Building, Vipin Khand, Gomti Nagar, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal, Lucknow-226010.
- 1.1.8 All tenderers are hereby cautioned that tenders containing any material deviation or reservations as described in Clause **E4** of “Instructions to Tenderers” and/or minor deviation without quoting the cost of withdrawal shall be considered as non-responsive and is liable to be rejected.
- 1.1.9 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.
- 1.1.10 Tenders shall be valid for a period of 180 days from the date of submission of Tenders and shall be accompanied with a tender security of the requisite amount in the form of a Bank Guarantee (as per Annexure-7 of ITT) from Scheduled Commercial Bank in India.
- 1.1.11 LMRC reserves the right to accept or reject any or all proposals without assigning any reasons. No tenderer shall have any cause of action or claim against the LMRC for rejection of his proposal.
- 1.1.12 Employer will award the Contract to the Tenderers whose Tender has been determined to be substantially responsive and compliant to the requirements contained in the Tender Documents and who has offered the Lowest Evaluated Tender Price. Variant bids are not allowed

**Chief Engineer/Contract,
Lucknow Metro Rail Corporation**