

Our Ref: DMRC/Kochi/ 02/204/KEDD-01

Date: 10th April 2013

FROM

Project Director
Delhi Metro Rail Corporation Ltd,
2nd Floor, GCDA Complex,
Eastern Entry Tower,
Ernakulam South Railway Station,
Ernakulam, 682016

NOTICE INVITING TENDER
(CONTRACT PACKAGE – KEDD-01)

Contract-KEDD-01:- Detailed Design Consultancy services for Power Supply & Distribution system, 750 V dc Third Rail Traction electrification and SCADA system for Kochi Metro Phase –I Project.

- I. Delhi Metro Rail corporation Limited (DMRC) on behalf of Kochi Metro Rail limited (KMRL) is Inviting Tenders from Indian and International applicants through International Competitive Bidding (ICB) for above **Contract KEDD-01** (i.e. selection of Detailed Design Consultant (DDC) for the “**Detailed Design Consultancy services for Power Supply & Distribution system, 750 V dc Third Rail Traction electrification and SCADA system for Kochi Metro Phase –I Project.**” for following:-
- 25 km Elevated Metro Corridor with 22 Stations (Alwaye- Petta Line).
 - Depot cum workshop at Muttom.
- II. **Notes:-**
- i) The Scope of work includes Traction Simulation study and report as per task 1(a) of “Scope of work” in Appendix-A of tender documents
 - ii) Eligible applicants, who fulfil qualification criteria as stipulated in clause 7.0 of NIT, for the work shall only be considered for further evaluation of their bids.
- III. The brief scope of the work and site information is provided in Appendices A to D.
- IV. Tender Documents comprise:

Volume-1:-

- Notice Inviting Tender
- Instructions to Tenderers(including Annexures& Initial Filter)
- Form of Agreement
- Service Agreement Part I - General Conditions of Contract
- Service Agreement Part II - Special Conditions of Contract
- Appendix A - Scope of Work
- Appendix C - Pro-Forma

- Appendix D - Design Criteria

Volume-2 :-

- Appendix B - Remuneration and Payment.

- 1.0 The copies of tender document can be purchased on payment of a non-refundable fee of Rs 21000 (including KVAT @ 5%). Payment may be made only by bank draft, drawn on a schedule commercial bank based in India, in favour of **“Delhi Metro Rail Corporation Limited”** payable at **Kochi**.

Two copies of tender documents will be issued from the office of

Project Director

Delhi Metro Rail Corporation Ltd,
2nd Floor, GCDA Complex,
Eastern Entry Tower,
Ernakulam South Railway Station,
Ernakulam, 682016

Between 1000 hrs to 1700 hrs from **10th April 2013 to 16th April 2013**

- 2.0** Last date of seeking clarifications is **19th April 2013**

[The clarifications are to be submitted to the office of the Project Director/ DMRC/Kochi in soft copy (in Compact Disk) along with two Hard copies].

Date of Pre-bid Meeting is **23rd April 2013 (at 1500 hrs)** at the office of the PD/DMRC/Kochi.

Last date of issuing Addendums is **27th April 2013**

- 3.0 Duly filled tenders shall be returned to the Project Director, DMRC at the address given above not later than 1500 hours on **1st May 2013**. The Technical Packages shall be opened at 1530 hours on **1st May 2013**.

Project Director

Delhi Metro Rail Corporation Ltd,
2nd Floor, GCDA Complex,
Eastern Entry Tower,
Ernakulam South Railway Station,
Ernakulam, 682016

- 4.0 **Please note carefully the requirements for submitting tenders, and the date and time for submittal. “Late” and “delayed” tenders will not be accepted.**

- 5.0 Tenders shall be valid for a period of 120 days from the date of submission of Tenders, and shall be accompanied by a Bank Guarantee, from Scheduled Commercial Bank based in India, for the sum of Indian Rupees **0.6 Million**, as described in paragraph 4.2 of the Instructions to Tenderers.

- 6.0 The completion period is
- a. 36 weeks for Design and

- b. Up to ROD of respective corridors or commissioning of system (whichever is later) for “Services to be performed during Construction” as mentioned in clause 10.0 of ITT.

7.0 Initial filter (Minimum eligibility criteria)(attached in Annexure-1 to ITT):-

A) Financial Capability:

(i) Liquidity and Banking reference :

This Information will be seen from financial information submitted in Annexure 5.1 to section '5' of Initial filter Questionnaire extracted from the balance sheets/annual statements and from the banking reference submitted by the tenderer. The tenderer should note that the above statement should be counter signed by the CA/Auditor of the firm. The documents including banking reference should show that the tenderer has access to or has available liquid assets, lines of credit and other financial means to meet cash flow of **Rs. 7 million** for this contract, net of tenderer's commitments for other contract:

Net current assets (liquidity) = (current assets + loans and advances) - (current liabilities + provisions)

In case the tenderer comprises of joint venture/consortium, then the lead member is required to have at least 40% of above requirement and other members at least 25% of above requirement and the tenderer collectively should have 100% of the total requirement.

- (ii) The profit before tax should be positive in at least 2 out of last 5 financial years. This will be calculated individually for lead member of the Joint Venture/Consortium/Partnership.

The tenderer should submit the above information In the Annexure 5.1 to Section 5 of Initial filter Questionnaire.

(iii) Bid Capacity Evaluation

The bid capacity of tenderers will be calculated as per following formula:

Bid Capacity = $2AN - B$

Where

A = Max value of works executed in any one year during last 10 years

N = No. of years prescribed for completion of works (1 year for this work)

B = Value of existing commitments and on-going works to be completed during next 1 year.

For this, he should furnish the relevant data in Annexure 3.7 to Section 3 of Initial filter Questionnaire

Adequate bid Capacity \geq Rs. 30 Millions

In Case of JV/JVA – the tenderer must fulfill the following conditions:

All partners put together should meet the minimum requirement as per their percentage participation.

Example: Let Member-1 has percentage participation = M and Member – 2has =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/JVA will be

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

100

- (iv) **Average** annual turnover of the tenderer for last 5 years should be more than **Rs. 60 million**. The tenderer should submit the above information in the Section 3 of Initial filter Questionnaire.

In Case of JV/JVA – the tenderer must fulfill the following conditions:

All partners put together should meet the minimum requirement as per their percentage participation.

Example: Let Member-1 has percentage participation = M and Member – 2has =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/JVA will be

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

- (v) **Net Worth:** Net Worth of tenderer must be positive in the latest audited financial balance sheets.

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

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

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

B) Technical Capability:

The work involves designs/drawing of the following major areas:-

1. 750 V DC Third Rail
2. Substations :
 - a. 66kV(or higher)/33kV
 - b. 33 kV/750V DC TSS
 - c. 33 /0.415kV Auxiliary ASS
 - d. HT cabling (66kV or higher, 33kV)
3. SCADA
4. Interface with Civil works such as:
 - a. Earthing and bonding works on MRTS viaduct
 - b. Earthing arrangements at stations, Receiving Substations (RSS) & Auxiliary Substations (ASS)
 - c. Cable Duct on Viaduct and stations.
 - d. 750 V Third Rail holding arrangements on stations/viaduct.

The tenderer is required to submit their design experience above four areas of having designed at least the following in last 10 years:

- (i) The tenderer should have designed at least **30 track kms** of **750 V DC Third Rail** works. The above information should be submitted project-wise in Annexure-3.1 & summary in Annexure-3.2 respectively to section 3.
- (ii) The tenderer should have designed at least Two (2) nos. of 66kV (or higher)/33kV substations **and** at least Five (5) nos. of **33 kV/415 V AC or 33 kV/750 V DC substations** **and** at least Two (2) works of HT cabling (66kV or higher). The above information should be submitted project-wise in Annexure-3.1 & summary in Annexure-3.3, Annexure-3.4, 3.4 A and Annexure-3.5 respectively to section 3.

- (iii) The tenderer should have designed at least one (1) SCADA works for tractions and power supply in any railway system. The above information should be submitted project-wise in Annexure-3.1 & summary in Annexure-3.6 respectively to section-3.
- (iv) The tenderer should have designed interfaces with civil works in at least one metro project, the details of which should be clearly brought out in Annexure-3.8 to section-3.

Kindly note that it is desirable that the tenderer has the design competence in all the above four core areas. He would be required to clearly explain the proposal for the above areas in the offer along with proof of his meeting the above requirement in the relevant field. The documentary evidence of the design experience in all the core areas shall be submitted.

C) Project Organization:

The tenderer should be able to mobilize a project team as per the Educational/professional profile given in the Annexure 4.1 to Section-4.

Project Organization should be as under:

(i)	Project Manager	-	1
(ii)	Dy. Project Manager	-	1
(iii)	Design Engineer (750 V DC Third Rail)	-	1
(iv)	Design Engineer (PSI* & Distribution)	-	1
(v)	Design Engineer (SCADA)	-	1
(vi)	Civil & Structural Engineer	-	1
(vii)	Earthing, Bonding & Stray Current Expert	-	1

***PSI---** Power Supply Installation

The above experts should be graduates in relevant discipline and should have minimum 10 yrs of design experience in relevant Design field *as mentioned in clause 7.0 (B) of Technical Capability*.

Bio-data and other relevant document shall be furnished along with the offer. The Bio-data should clearly bring out relevant experience in specific core area.

Only those applicant who meet all the above criteria viz. financial, technical and Project Organization, will be considered for further evaluation.