

## BIDDING DOCUMENT

**Independent Construction Quality Monitoring Agency  
for, “Improvement of Various City Roads by Kochi  
Metro Rail Limited in connection with Kochi Metro  
Traffic Diversion”**



**KOCHI METRO RAIL LIMITED  
8<sup>th</sup> FLOOR, REVENUE TOWER,  
PARK AVENUE ROAD,  
ERNAKULAM**

**1.0 GENERAL:**

Kochi Metro Rail Ltd (KMRL/ Client), invites single cover open tenders from eligible company/firm, having experience of similar contract for **Independent Construction Quality Monitoring Agency for, "Improvement of Various City Roads by Kochi Metro Rail Limited in connection with Kochi Metro Traffic Diversion".**

**2.0 NOTICE INVITING TENDER**

Name of Work	<b>Independent Construction Quality Monitoring Agency for the work, "Improvement of Various City Roads by Kochi Metro Rail Limited in connection with Kochi Metro Traffic Diversion"</b>
Time of completion	4 months
Tender processing fee	3000/- (Rupees Three Thousand Only). DD in favour of Kochi Metro Rail Limited ,payable at Kochi,Kerala.
Tender Submission and Opening date	<b>03/01/2015 2.00 PM</b> at the Office of Kochi Metro Rail Limited, Revenue Tower, Cochin 11
Tender details	Tender document can be downloaded from KMRL website <a href="http://www.kochimetro.org">www.kochimetro.org</a> and addressed to General Manager (Civil), KMRL,8th Floor, Revenue Tower, Cochin 11.
EMD/Security	DD in favour of Kochi Metro Rail Limited payable at Kochi for an amount of 45,000/- .

### 3.0 BACKGROUND

Kochi Metro Rail Limited (KMRL) invites expression of interest from eligible consultants to work as Independent Construction Quality Monitoring Agency for the work, “**Independent Construction Quality Monitoring Agency for the work, “Improvement of Various City Roads by Kochi Metro Rail Limited in connection with Kochi Metro Traffic Diversion”.** KMRL is engaged in implementing the metro rail project in Kochi. As part of the project KMRL is taking up strengthening and improvement of *15 km of roads* in Kochi. The selected agency shall carry out quality monitoring of the strengthening and improvement of roads undertaken by KMRL. The consulting services include engaging an Independent Construction Quality Monitoring Agency to monitor that the quality of goods and works procured and executed are of high standards and of the assured quality resulting in creation of sustainable assets. The consultants shall ensure that the quality assurance of materials is properly documented.

### 4.0 QUALIFICATION CRITERIA:

Interested firms shall provide information demonstrating that they have the required qualifications and relevant experience to perform the Services. The short listing criteria are:

1. **The general and overall experience of the firm including the number of years of operation, Indicating the number of years in planning, designing contract management, construction supervision quality assurance of road works consultancy.**
2. **Experience of working in a similar geographic region.**
3. **Key personnel required:** The organization shall be able to demonstrate to have key expert as Project Manager in the areas of Highway engineering with more than 15 years in civil construction (after graduation in civil Engineering) including at least five years of experience in Construction Quality monitoring.
4. **An average annual turnover of INR 50 lakhs for the past three years (2011-12,2012-13 & 2013-14);**
5. **Firms should have minimum of 3 year Experience in Highway engineering as Quality Monitoring consultants or enlisted as State PWD or NHAI consultants.**
6. **List of key positions whose CV and experience would be evaluated**

Minimum qualification for personnel to be employed for construction quality monitoring of the works is given in Table below:

No	Description	Qualification & experience	Number of posts
1	Team Leader	Graduate in Civil Engineering with 15 years of experience out of which at least <b>five</b> years of experience in road sector.	1
2	Quality Engineer	Graduate in Civil Engineering with 15 years experience out of which at least five years of experience in execution and quality monitoring of Highway projects.	1
3	Junior Engineer	Diploma in Civil Engineering	2

## 5.0 TERMS OF REFERENCE

**5.1 For Selection of Independent Construction Quality Monitoring Consultancy for Kochi Metro rail Ltd for the work, "Improvement of Various City Roads by Kochi Metro Rail Limited in connection with Kochi Metro Traffic Diversion".**

1.1 KMRL is engaged in implementing a metro rail project in Kochi. As part of the project, KMRL is taking up strengthening and improvement of 15 km of roads. The primary objective of the project is strengthening and improving about 15 km of roads as allied work of construction of metro rail in Kochi. The project will include formation, diversion, strengthening, construction of sub-grade/sub-base/base course and wearing course etc.

### 1.2 Description of Components of the projects:

The project includes strengthening and Improving the existing road with profile correction using WMM & BM, base course with DBM and wearing course with BC and other appurtenance works.

### 1.3 Project duration

The consultancy is intended for the execution period and is approximately four months. The consultancy work is valid till the completion of the main work at the rate in the agreement.

### 1.4 Method of Implementation of the project works:

The works will be arranged through contracting agencies by inviting tenders. The day to day supervision will be handled by the KMRL and

the quality monitoring consultants. The duty of the quality monitoring consultants will be daily monitoring of the works independently.

### **1.5 Various activities involved in the implementation of the project are:**

- Formation/improvement and strengthening of the selected roads and other works as detailed in the tender schedule of work KMRL/PRJ/RW-CONTRACT/179/2014/TEN 01. This will be carried out by the contractor under the supervision of KMRL and **Independent Construction Quality Monitoring Agency**.
- Ensure quality of construction, goods and materials during implementation. - This is to be carried out by the **Independent Construction Quality Monitoring Agency**.

### **6.0 SCOPE OF WORK:**

The Scope of Consultant's works includes but not limited to

- 1) Mobilize staff and other requirements for undertaking visits to the construction sites of strengthening and improvement of roads for Kochi Metro Rail.
- 2) Interaction with contractors and officials of KMRL for studying the details of road improvement works being undertaken by KMRL.
- 3) Inspection of works and materials (or as specified in the terms) to ascertain that the works are implemented as per IRC/ MORTH specifications (or any other specifications mentioned in the contract).
- 4) Inspection of the works to ensure that the project works, goods and services procured by the contractors for implementation of the project are in conformity with the required specifications and quality
- 5) Checking at random whether materials procured are of the desired quality and specification.
- 6) Carrying out checks at frequent intervals to ensure compliance with the standard specifications in respect of the quality of construction of project works and the quality of construction materials used in the project works as described in the quality Manual. The consultant may if deemed necessary collect samples of materials and arrange for testing at approved laboratories.

- 7) Suggest remedial measures or improvements in the quality of works and quality of supervision.
- 8) Witness tests or execution of specific items if required at the time of execution/conducting tests
- 9) Providing technical expertise if required for certain specialized items of works.
- 10) Routine quality control checks and supervision including attending to factory inspection of materials.
- 11) Occasionally KMRL may entrust any particular check of material or quality of construction, which shall be carried out by the consultant. .
- 12) Prepare a Quality assurance Manual within one week after execution of agreement. The quality assurance manual shall specify Format and Periodicity of tests and inspection at each stage of works to be carried out by the **Independent Construction Quality Monitoring Agency and KMRL**. The quality assurance manual as well as the report format shall be in accordance with the quality control guidelines and specifications of MORTH specifications for road and bridge works.
- 13). The quality monitors shall inspect each road work and conduct necessary tests at every stage as specified in MORTH specifications.

## 7.0 REPORTING

7.1 The consultants shall inspect the work site daily and provide guidance to them to rectify defects if any. The consultants shall provide activity related comments for rectification/improvements on the same day or next day of field visit. Such activity reports of details and remedial measures given and done shall be given to the client weekly. On subsequent visits, compliance relating to the rectifications suggested during the previous visits shall be reviewed, noted and documented and submitted to client.

7.2 In addition to the above periodical reports, the consultant shall inform the client regarding any serious irregularity or serious lapse on the part of contractor in the implementation requiring immediate attention then and there so that remedial measures can be taken.

7.3 The reports shall be submitted to

1. Original copy to General Manager Civil, KMRL
2. 2<sup>nd</sup> copy to the Engineer in Charge

## 8.0 PERFORMANCE GUARENTEE

8.1 The successful bidder shall give a performance guarantee of 5% of the quoted amount as Bank Guarantee valid till 45 days from the date of completion.

## 9.0 FINANCIAL QUOTE

9.1 The financial quote to be submitted duly in Format attached in Annexure B.

9.2 Rate to be quoted for approx. 15.00 km with required personnel as specified in the document.

**9.3** The contract will be awarded to the bidder whose bid has been determined and found to be eligible and to be substantially responsive to the bid document and who has offered the lowest evaluated Quote, provided further that the bidder has the capability and resources to effectively carry out the contract works.

**9.4** Overall total amount is considered for evaluation of the bid.

**9.5** The rates given for works should be inclusive of all overheads and taxes. No office space or any travel arrangements will be made by KMRL.

## 10.00 TERMS AND CONDITIONS FOR SUBMISSION OF BIDS

- 10.1 Bids are to be submitted in single cover, properly sealed and addressed to General Manager (Civil), Kochi Metro Rail Limited, 8<sup>th</sup> Floor, Revenue Tower, Park Avenue, Cochin 11 before the last date and time detailed in the NIT.
- 10.2 The tender processing fee of Rs .3000/- and EMD of Rs.45,000/- shall be remitted in form of DD in favour of Kochi Metro Rail Limited payable at Kochi.
- 10.3 Bid includes this tender document duly signed by the bidder with the Company profile (Annexure A) and financial quote(annexure B) and the relevant documents and experience certificates.
- 10.3 Bidders are requested to submit the copies of the relevant experience certificates and registration certificates of the firm duly attested by a Gazette Officer of the rank not less than Executive Engineer.

- 10.4 Certificates/documents for the average turnover of the firm for the last three years should be duly authorized by the Chartered Accountant of the firm.
- 10.5 The company/firm should submit its profile, as detailed along with self-attested copies of documentary proof.in the format as shown in Annexure A.
- 10.6 KMRL reserves the right to modify/cancel the bid without assigning any reasons.
- 10.7 If the document submission date, happens to be a holiday or not working due to any valid reasons, the tender opening process/submission of documents will be done on the next working day, the same time and place.
- 10.8 Further details, if require, can be held from the Mr. S. Chandra Babu, General Manager (Civil), Kochi Metro Rail Limited.

## **11.0 PAYMENT TERMS AND CONDITIONS**

- 11.1** Payment will be done only on monthly basis duly certified by Engineer in Charge. The bill will be proportionally based on the kilometer of work completed by the main contractor .The payment bill to be supported by tour diary of the personnel engaged duly certified by Site in Charge. Payment will be credited to the designated bank account of the consultant electronically.
- 11.2** Absence of any personnel during execution of work will be subjected to a penalty of Rs. 5000/- day
- 11.3** Non submission of report on time will be subjected to a penalty of Rs. 1000 per day.

**ANNEXURE A**  
**COMPANY PROFILE**

No.	DETAILS	
1	Name of Company	
2	Address with telephone, e-mail, fax number & the name(s) of the contact person(s)	
3	Office Address of agency.	
4	Account Details along with Account Number, Bank Details, IFSC	
5	PAN	
6	Relevant experience certificate to be attached (Minimum 2 no.s)	
	Verification -The authorized person shall sign all the documents . Documents without signatures shall not be considered for evaluation purpose & the bidder may be disqualified on this account.	

**ANNEXURE B****FINANCIAL QUOTE**

**Rate quoted for the contract of being Independent Construction Quality Monitoring Agency for 15 km of road works undertaken by KMRL, with the following personnel.**

**Rate inclusive of all applicable taxes.**

No	Description	No: of posts	
1	Team Leader	1	
2	Quality Monitor	1	
3	Junior Engineer	2	
NET AMOUNT (Figures)			
	In Words-		