



MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
मुंबई महानगर प्रदेश विकास प्राधिकरण

No. T&C/Monorail/SWC/RTI/20/5351

16th March, 2015

To,
Shri. Ranjit Gadgil
Parisar,
'Yamuna'
ICS Colony, Ganeshkhind Road,
Pune - 411 007
Mo. 8805027186

Sub.: Information under Right to Information Act, 2005

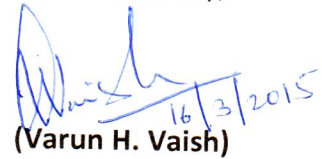
Ref. : 1) Your application dated 09.12.2014.
2) This office letter no. T&C/Monorail/SWC/RTI/20/5221
Dated 28.01.2015

Sir,

With reference to above subjects, please find enclosed herewith copies of Terms and Conditions regarding the submission of the final report to MMRDA (9 pages) as per your demand.

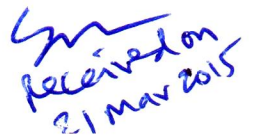
Thanking you,

Yours faithfully,


(Varun H. Vaish)

**Deputy Engineer (Monorail)/
Public Information Officer (Monorail)**

Encl: as above


Received on
21 Mar 2015

MUMBAI METROPOLITAN REGION
TERMS OF REFERENCE
CONSULTANCY SERVICES
IMPLEMENTATION OF MONORAIL SYSTEM IN MMR

1.0 INTRODUCTION

Government of Maharashtra/Mumbai Metropolitan Region Development Authority with World Bank Loan assistance has taken up several initiatives such as Mumbai Urban Transport Project, Mumbai Urban Infrastructure Project, Bus Rapid Transit System, Mumbai Metro Rail project etc. To supplement various Mass Transit system initiative MMRDA now proposes to take up implementation of proven and established Monorail system in congested corridors of MMR.

With the above objective, MMRDA has identified the following four preliminary corridors:

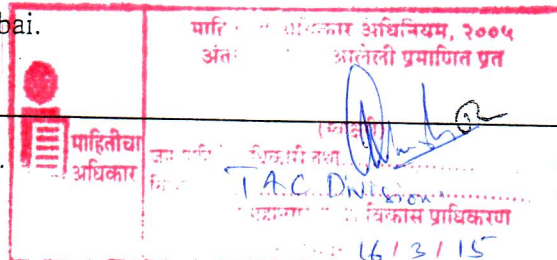
- i) Malbar Hill to BKC (approx. 25 kms)
- ii) Chembur – Mahul – Gowandi – Chembur (approx. 10 kms)
- iii) Lokhandwala Complex – Kanjurmarg (approx. 10 kms)
- iv) Thane – Kalyan – Bhiwandi (approx. 25 kms)

In consultation with MMRDA, M/s RITES will prioritize the corridors totalling approx. 25 kms and the Engineering and Feasibility Study will be carried out accordingly. The plan showing the proposed corridors is enclosed.

1.2 MMRDA intends to appoint M/s RITES Ltd, to function as Consultant to assist in preparing the Feasibility Study Report and Bid Process Management for implementation of the project.

2.0 CLIENT

The client is Mumbai Metropolitan Region Development Authority (MMRDA) with headquarters at Mumbai.



3.0 OBJECTIVES

3.1 The objectives of this consultancy services are mainly –


- i) Preparation of Feasibility Study Report
- ii) Bid Process Management.

4.0 SCOPE OF SERVICES FOR THE CONTRACT

The scope of work and details of the tasks to be performed in two parts are given below.

4.1 Part-I Techno-economic Feasibility Study Report

- a. Review of earlier reports.
- b. Technical Appraisal of Monorail Technology, worldwide experience, (including type of technology adopted, costs) with recommendation for technology most suited for Mumbai.
- c. Technical feasibility of the alignment and identification of station locations (Section loads & Station loads to be provided by MMRDA)
- d. Topographic survey, Geo-technical investigation (@ 2 boreholes per km), preparation of geometric alignment and land requirement.
- e. Identification of location of depot and depot layout.
- f. Construction methodology.
- g. Power supply and system requirements
- h. Operation Plan & Service details.
- i) Passenger dispersal and integration facilities with other modes of public transport.
- j) Safety features, evacuation of passengers and handling emergencies.
- k) Broad capital cost estimates of the project and operation & maintenance cost, fixed and variable component, fare level and revenue estimates.
- l) Financial viability analysis for different implementing strategies.
- m) Development and comparison of alternative implementation strategies viz. Built & Operate and Transfer (BOT), Public-Private Partnership (PPP), Govt. funding, etc. and making recommendations.
- n) Environment issues including preliminary Environment Impact Assessment.
- o) Legal aspects including safety certification aspects.
- p) Institutional set up and implementation schedule.

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	(स्वाक्षर) जन माहिती अधिकारी तथा विभागाचे नाव <u>TAC Division</u> पुणे महानगर प्रदेश विकास प्राधिकरण दिनांक :- 16/3/15

- q) The Consultants will provide the alignment plan and the station locations (including the interchange stations, if any) to MMRDA for running the transport demand model and providing section and station loads (both boarding and alighting) to the consultants. MMRDA will also provide the section and station loads for the horizon year(s)

4.2 Part-II Bid Process Management

1. Request for Pre-qualifications

- Prepare tender document for inviting Request for Qualification (RFQ) applications.
- Attend pre-application meeting and assist MMRDA in reply to queries raised by the applicants (if any)
- Preparing addenda/corrigenda to the RFQ documents for issuing to the applicants.
- Evaluate RFQ applications and assist MMRDA in shortlisting the suitable bidders.

2. Bid Documents (as per the implementation strategy decided by MMRDA.


2.1 In case project is to be taken up on BOT/PPP

- Prepare tender document including Technical & Performance Specifications and formats for inviting Technical proposals.
- Prepare tender document including Draft Concession Agreement and formats for inviting financial proposals.
- Preparation of conceptual drawings
- Prepare bid evaluation Criteria (technical & financial)

OR

2.1 In case project is to be taken up on Turnkey Basis

- Prepare tender documents for inviting Request for Proposal (RFP) (Technical & Financial) including Technical & Performance Specifications.
- Preparation of conceptual Drawings.
- Prepare bid evaluation Criteria.

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	<p>(स्वाक्षरी)</p> <p>जून माहिती अधिकारी तथा विभागाचे नाव T. K. C., Division</p> <p>मुंबई महानगर प्रदेशा विकास प्राधिकरणा</p> <p>दिनांक :- 16/3/15</p>

3. Pre-Bid Meeting.

- a. Attend pre-proposal / bid meeting and assist MMRDA in replying to queries raised by the bidders (if any)
- b. Assess the results of pre-bid for operational, technical and risk issues and make recommendations.
- c. Assist MMRDA in preparing addenda/corrigenda to the tender documents / RFP documents for issuing to the bidders.

4. Evaluation of Proposals and Negotiations**4.1 In case project is to be taken up on BOT/ PPP**

- a. Assist MMRDA in evaluating the Technical & Financial proposals
- b. Making recommendations for preferred bidder
- c. Assist MMRDA in negotiating the Concession Agreement with the preferred bidder and finalizing the same including necessary schedules.
- d. Finalizing the Shareholder's Agreement.

OR

4.2 In case project is to be taken up on Turnkey basis

- a. Assist MMRDA in evaluating the proposals (Technical & Financial) including negotiations.
- b. Making recommendations for successful bidder and award of the contract to developers.

5.0 EXCLUSIONS


The scope of work under the current terms of reference **excludes** all services in respect of the following :

- a. Detailed Design
- b. Detailed Environment Impact Assessment.

6.0 DELIVERABLES**6.1 Part-I Techno-economic Feasibility Study**

Engineering & Feasibility Study Report comprising of all the aspects indicated at Section 4.1 covering

- a. Technical appraisal of the monorail technology
- b. System configuration
- c. Route Alignment standards & planning norms

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	<p>(स्वाक्षरी)</p> <p>जन माहिती अधिकारी तथा.....</p> <p>विभागाचे नावT.A.C, Divisions.....</p> <p>मुंबई महानगर प्रदेशा विकास प्राधिकरण</p> <p>दिनांक :- 16/3/15</p>

- d. Civil engineering aspects including alignment design, station locations, conceptual station planning, land requirement.
- e. Estimation of average trip length, proposed fare structure and revenue generation.
- f. Operation & maintenance plan including maintenance depot
- g. Environmental issues including preliminary Environment Impact Assessment
- h. Capital, operation & maintenance and revenues estimates
- i. Economic viability
- j. Financial analysis for various funding options
- k. Construction methods and implementation schedule
- l. Implementation strategies and recommendations
- m. Legal aspects including safety certification aspects
- n. Institutional set up.

6.2 Part-II – Bid Process Management

- a. RFQ Document (for inviting pre-qualification applications by MMRDA)
- b. Evaluation Report on the RFQ applications and recommendations
- c. Tender Documents including conceptual drawings for the accepted implementation Strategy (to be issued by MMRDA to shortlisted applicants)
- d. Evaluation Report (technical & financial) with recommendations.

7.0 STUDY FINDINGS

The responsibility of study finding and recommendations rest with the Consultants. The reports prepared for MMRDA will not be used by RITES without permission of MMRDA.

8.1 SERVICE AND FACILITIES TO BE PROVIDED BY MMRDA TO RITES

MMRDA will :

- i) Provide the traffic data for the identified corridor, section load and station loads for the base as well as horizon year (station locations to be identified by RITES)
- ii) Assist the RITES; its sub-consultants and personnel to obtain such documents/reports/data as necessary to enable the RITES, its sub-consultants or personnel to perform the Services.
- iii) Issue all such instructions as may be necessary for appropriate and effective implementation of the Services to officials and representatives of the MMRDA and letters to concerned agencies for collection of data and assistance in getting approval for carrying out geotechnical investigation.

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जन माहिती अधिकारी तथा
विभागाचे नाव T.A.C. Division
मुंबई महानगर प्रदेश विकास प्राधिकरण
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- iv) Provide necessary approvals to various submittals by RITES from time to time and give further guidelines as required for prompt and effective completion of the services under the scope of work.
- v) Provide to the RITES, its sub-consultants and personnel any such other assistance as may be required to carry out the work for the project.
- vi) Bear the cost of all advertisement/notifications in media, and Tender Documents to be issued to the applicants.

8.2 SERVICES AND FACILITIES TO BE PROVIDED BY RITES:

- i) The Consultants will handover all the data, information collected for the study in hard and soft copies.
- ii) The Consultants will deploy a team of two suitable personnel in Mumbai to work in coordination with MMRDA during Feasibility Study stage.
- iii) The Consultants will make presentations to MMRDA and other concerned organizations (like MCGM, BEST) if needed of all the important submittals of Feasibility Report.
- iv) The equipment purchased under the study will be handed over to MMRDA at the end of the assignment (however we do not envisage purchase of any equipment for the present assignment).
- v) All deliverables will be provided in hard and soft copies as indicated in section 9 and 10.


9.0 DELIVERABLES AND TIME SCHEDULE

Part I Engineering and Feasibility Study Report

The completion period for finalizing the Engineering and Feasibility Study Report is expected to be **4 months** from the date of award of work.

Part-II Bid Process Management

Sl. No.	Activity	Time Frame
1	RFQ Document	As mutually agreed
2	RFQ evaluation Report	1 month from date of handing over RFQ applications as received by MMRDA
	In case of Implementation of Project on BOT / PPP	
3	Technical Proposal Document	As mutually agreed
4	Technical Evaluation Report	1 month from date of handing over the Technical Proposals as received by MMRDA
5	Financial Proposal Document	15 days from the date of approval of Technical

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	जन माहिती अधिकारी तथा विभागाचे सहायक पुणे महानगर प्रदेश विकास प्राधिकरण दिनांक - 16/2/15

		Evaluation Report
6	Financial Evaluation Report	15 days from the date of handing over of the Financial Offers as received by MMRDA.
	In case of Implementation of Project on Turnkey basis	
7	RFP Document	As mutually agreed
8	Evaluation Report (Technical & Financial) #	2 months from the date of handing over the Technical & Financial Proposals as received by MMRDA.

Assuming that in case of turnkey option the technical & financial proposals will be invited simultaneously under two package tendering system.

10.0 REPORTS

RITES shall submit

- i) Geo-technical investigation Report ✓
- ii) Alignment report drawings (5 copies)
- iii) Three sets of the RFQ and Tender Documents along with the soft copy of the same
- iv) 3 copies of the draft Engineering & Feasibility Study Report.
- v) Ten copies of Final Engineering and Feasibility Study Report including Executive Summary

11.0 CONSULTANCY FEE


11.1. As per the scope of work under clause 4.0 above, RITES Fee shall be as under

Sl. No.	Description		Fee (Rs.)
1	Part-I	Engineering & Feasibility Study Report	Rs. 1 crore (Rs. One crore)
2	Part-II	Bid Process Management \$	Rs. 1 crore (Rs. One crore)

\$ The indicated fee for Part II of the services is for the Bid Process management Services in case the Project is to be taken up on BOT / PPP for implementation. A rebate of Rs. 15 lakhs (Rs. Fifteen lakhs) will be offered in the portion of the fee for Part II of the services in case the project is taken up on Turnkey for implementation.

11.2 The service tax/works tax/VAT and any other tax as applicable at the time of billing shall be paid as per the actuals on the total payment by MMRDA.

11.3 Payment shall be made to RITES as per the following payment schedule within 15 days of submission of the invoice.

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11.3.1 Part – I Engineering & Feasibility Study.

Sl. No.	Activities	Fee (% of the total fee for Part I of the services)
1	Mobilization Fee	
2	On submission of Alignment Drawings	10%
3	On submission of Draft Engineering & Feasibility Study Report and MMRDA's approval	30%
4	On submission of Final Engineering & Feasibility Study Report and MMRDA's approval	40%
		20%

11.3.2 Part II – Bid Process Management

Sl.No	Activities	Fee (% of the total fee for Part II of the services)
1	On submission of RFQ document	10%
2	On submission of RFQ Evaluation Report	10%
Option I	In case of Implementation of Project on BOT/ PPP	
3	On submission of Technical Proposal Document	10%
4	On submission of Technical Proposal Evaluation Report	20%
5	On submission of Financial Proposal Document	10%
6	On submission of Financial Evaluation Report and selection of preferred bidder	20%
7	On negotiation and finalization signing of the Concession Agreement	20%
Option II	In case of Implementation of Project on Turnkey basis	
8	On submission of RFP Document & MMRDA's approval.	30%
9	On submission of Technical Evaluation Report and MMRDA's approval	20%

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माहितीचा अधिकार (घ्यासो)
जस माहिती अधिकारी तथा
विभागाचे सतः T.A.G. Division
मुंबई महानगर प्रदेशा विकास प्रतिकरणा

10	On submission of Financial Evaluation Report and MMRDA's approval and concluding negotiations if needed	20%
12	On finalization of contract and award to the developer	10%

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