

No. MMRC/TP-05/Quo/EIA/2024

Date: 29.01.2024

QUOTATION NOTICE

Director (Planning, Real Estate Dev./NFBR invites sealed quotations on the letterhead for the mentioned consultancy work from the registered Agencies who have carried out similar type of work with following details:

1.	Name of Work	Appointment of Agency for undertaking Environmental Impact Assessment (EIA) for Metro Line 11 (Wadala to SPM Circle)
2.	Scope of Work	<p>1. Environmental Impact Assessment (Approx. 18 km alignment):</p> <p>A. To provide a brief description of the relevant parts of the project, using maps, etc. Study on analysis of Alternatives at an early stage of the project is required as per Clause 2.4 (4) of January 2022 JICA Guidelines.</p> <p>B. The aspects of infectious diseases including occupational safety to be covered as per Clause 3 (1) of Appendix 1 of January 2022 JICA Guidelines.</p> <p>C. Legislative and Regulatory Considerations. CRZ regulation to be assessed.</p> <p>D. Description of the Environment: Physical environment, Biological environment, Socio-cultural environment, Identification of boundary of recorded forests/mangroves & collection of data from Forest Dept., estimate the number of trees for removal (Cut + Transplant) etc., Noise and Vibration Measurement, Identification of major water bodies, Socio-Economic Survey, Existing data on air quality, water quality, soil, status on solid waste, etc.</p> <p>E. Preparation of Environment Management Plan (EMP) and Environment Monitoring Plan (EMoP)</p> <p>F. EIA, EMP and EMoP will be finalised as per latest JICA Guidelines</p> <p>G. Total amount of Greenhouse gas emission will be estimated.</p> <p>H. Disaster Management Plan, Risk assessment of the project needs to be carried out.</p> <p>I. Environment budget to be evaluated & considered in Cost Estimates.</p> <p>Please refer detailed scope of work and Terms of Reference.</p>
3.	Duration of Work	2 Months
4.	Eligibility	— a. Agency should have undertaken EIA for Metro/Railway works of approx. 14km length

5.	Date of Receipt of sealed Quotation	15.02.2024 upto 16:00hrs.
6.	Time and date of opening of sealed quotations	15.02.2024 after 16:01hrs.

Note:

1. Before submitting quotations, the consultant is requested to inspect the site conditions by themselves
2. Before submitting quotations, the consultant is requested to inspect the alignment of by visiting the following address: MMRCL, 801-803, 8th Floor, Hallmark Business Plaza, Near Gurunanak Hospital, Kalanagar, Bandra (East), Mumbai- 400 051
3. **Detailed Scope of Work for EIA & Terms of Reference, format for Form A and Form B can be obtained from MMRCL's official website and Office of Deputy General Manager (Town Planning), MMRCL, 801-803, 8th Floor, Hallmark Business Plaza, Near Gurunanak Hospital, Kalanagar, Bandra (East), Mumbai-400 051**
4. The consultant should submit filled form A & B in separate sealed envelopes clearly mentioning 'Form A' & 'Form B' and consultant name on its cover.
5. **The sealed quotations should reach this office on or before 15.02.2024 upto 16:00hrs.**
6. The Consultant should drop the sealed envelope in tender box at MMRCL Transit office, E Block, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra- 400 051
7. The Consultant should quote the rates inclusive of all taxes
8. The above quotation rates will be valid for Six Months from the date of receipt mentioned above
9. The selected quotation will be issued work order from MMRCL
10. MMRCL reserves the authority to reject any or all quotations received without assigning any reason.

Address for Submission of Sealed Envelops:

MMRC, Transit Office 'E'-Block,
North side of City Park,
Behind Income Tax Office 'A' Wing Bandra (E) BKC,
Mumbai - 400051.
Maharashtra

-Sd-

Director (Planning)

Terms of Reference

Subject- Appointment of Agency for undertaking Environmental Impact Assessment (EIA) for Metro Line 11 (Wadala to SPM Circle)

A. Scope Of Work: Environmental Impact Assessment

A review on a scale appropriate to the Project, of the legal framework including gaps, if any, between local laws covering eminent domain and resettlement and the January 2022 JICA Guidelines (effective from 1st April 2022) for environmental considerations. Assessment of wide impacts for EIA required.

I. Environment Impact Assessment (EIA)

- i. Description of the proposed project: To provide a brief description of the relevant parts of the project, using maps (at appropriate scale) where necessary, and including the following information: location; general layout; size, capacity, etc.; pre-construction activities; construction activities; schedule; staffing and support; facilities and services; operation and maintenance activities; required offsite investments; and life span. Study on analysis of Alternatives at an early stage of the project is required as per Clause 2.4 (4) of January 2022 JICA Guidelines.
- ii. The aspects of infectious diseases such as HIV/AIDS, working conditions including occupational safety to be covered as per Clause 3 (1) of Appendix 1 of January 2022 JICA Guidelines.
- iii. Legislative and Regulatory Considerations: To describe the pertinent regulations and standards governing environmental quality, health and safety, protection of sensitive areas, protection of endangered species, siting, land use control, etc., at international, national, regional & local levels. CRZ regulation to be assessed as extension alignment will traverse through CRZ area of South Mumbai. Accordingly, requirement of forest clearance also to be assessed.
- iv. Description of the Environment:
 - (a) Physical environment: geology; topography; soils & muck; climate and meteorology; ambient air quality; surface and ground-water hydrology; coastal and oceanic parameters; existing sources of air emissions; existing water pollution discharges; and receiving water quality; ambient noise quality and vibration monitoring; to be prepared as per latest JICA Guidelines and existing legislations of monitoring.
 - (b) Biological environment: flora including mangroves; fauna; rare or endangered species; sensitive habitats, including parks or preserves, significant natural sites, etc., species of commercial importance; and species with potential to become nuisances, vectors or dangerous.
 - (c) Socio-cultural environment: population; land; planned development activities; community structure; employment; distribution of income, goods and services; recreation; public health; cultural properties; tribal peoples; and customs, aspirations and attitudes.
- v. Identification of boundary of recorded forests/mangroves & collection of data from Forest Dept.

- vi. Estimate the number of trees for removal (Cut + Transplant) and trees to be retained with details of Height, Girth and Name of Species etc.
- vii. Field reconnaissance: Vegetation distribution, important fauna and endangered fauna.
- viii. Inventory Survey of Sensitive Receptors: Sensitive receptors such as schools, hospitals, religious places, heritage sites as listed by ASI, within 100 m from centre line of the proposed metro corridor to be identified using satellite images, field reconnaissance & interviews with local residents.
- ix. Noise and Vibration Measurement: existing vibration measurement at sensitive receptors along the metro corridors, existing air quality and noise measurement at key locations along the metro.
- x. Identification of major water bodies likely to be affected, measurement of water quality; Temperature, pH, electrical conductivity, DO, TSS, BOD, COD, Phosphates, Turbidity, Heavy metals, TDS, Oil and Grease, Chloride, Sulphate, Nitrate and Nitrite Nitrogen, RC, Bacterial analysis (E – coli, Faecal coliform and total coliform), etc. to be analysed for surface and ground water in the identified water bodies and collection of existing and published data on water quality.
- xi. Socio-economic data on demography, social status, local economy, local culture & customs and land tenure to be collected through the Socio-Economic Survey.
- xii. Existing data on air quality, water quality, soil, status on solid waste, etc. to be collected, interviews with experts on the relevant field to be conducted, if necessary.
- xiii. Preparation of Environment Management Plan (EMP) and Environment Monitoring Plan (EMoP) based on analysis of collected data, mitigation strategy. EMoP to be finalized incorporating feedback from local residents participated in Public Consultation Meetings. Detailed impact analysis (both negative & positive impacts) on physical and biological environment and analysis of social impact to be included;
 - (a) EIA, EMP and EMoP will be finalised as per latest JICA Guidelines by assessing impacts with regard to environmental and social consideration that includes impacts on human health and safety as well as on the natural environment.
 - (b) Project and environmental benefits of the project will be evaluated.
 - (c) Analysis of an alternative at an early stage of the project (Clause 2.4 (4) of January 2022 JICA Guidelines).
 - (d) In addition to the direct and immediate impacts of projects; derivative, secondary and cumulative impacts as well as impacts associated with indivisible projects will also to be examined and assessed to a reasonable extent including the impacts through a project life cycle (Clause 3 (2) of Appendix 1 of January 2022 JICA Guidelines).
 - (e) Total amount of Greenhouse gas emission will be estimated and disclosed before project implementation (Appendix 1 Clause 6 (1) of January 2022 JICA Guidelines).
 - (f) Parameter Odour, sediments and subsidence will also be covered in physical environment Appendix 6 (pollution control) of January 2022 JICA Guidelines.
 - (g) Management of abandoned sites will be considered Appendix 6 (natural environment, protected areas) of January 2022 JICA Guidelines. This apparently refers to restoration of muck disposal sites.

- (h) Establishment of Grievance Redress Mechanism (GRM) Appendix 1 (Clause 11) of January 2022 JICA Guidelines.
- (i) Assistance will be provided for conducting consultation with stake holders such as local residents during selection of items to be assessed as well as at completion of the draft environmental assessment report Appendix 2 (Environmental Assessment Report) of January 2022 JICA Guidelines.
- xiv. EMoP to be finalised by taking into consideration JICA requirement of frequencies and also existing regulations of monitoring environmental parameters for Air, Water, Noise, Vibration, Soil/Muck.
- xv. EMP preparation shall consider the standards of water pollutant parameters prescribed by NGT Order(s) for sewage treatment plant.
- xvi. Identification of Institutional needs to implement Environmental and Social Assessment Recommendations: Review the Authority & capability of institutions & recommend steps to strengthen or expand them so that the management & monitoring plans in the environmental assessment can be implemented.
- xvii. Assist in coordinating the environmental assessment with other government agencies, in obtaining the views of local NGO's and affected groups.
- xviii. Disaster Management Plan to be prepared.
- xix. Risk assessment of the project needs to be carried out.
- xx. Environment budget to be evaluated & considered in Cost Estimates.

B. Duration of Work: 2 months

C. Payment Schedule:

Sr. No	Action	% Fees	Cumulative Time limit from Appointment days
1	On submission of inception Report, mobilization & project timeline	15%	10
2	On submission of Draft EIA report (Hardcopy & softcopy)	35%	30
4	On submission of Final EIA report (Hardcopy & softcopy)	30%	50
5	Compilation of all survey data and Submission of Final Survey EIA Report (Hardcopy & softcopy)	20%	60

FORM A

TECHNICAL PROPOSAL SUBMISSION FORM **(To be submitted in Separate Sealed Envelope with Annexures)**

Check list of Documents

Please compile and enclose the following Documents as part of Form A TECHNICAL PROPOSAL-FORM A	i) List and Copy of Work Orders (with Client Certificates) for qualification of the Eligibility mentioned in the Notice (Annexure I)	Yes/ No
	ii) Undertaking that the firm/Institution is not blacklisted by any Government or its agencies including Central/ state level Public Enterprises	Yes/ No
	iii) Undertaking regarding Non-Disclosure/sharing of confidential information with third parties.	Yes/ No
	iv) Certificate of incorporation, PAN Number, GSTIN details & MSME Registration details (if any)- (Annexure II)	Yes/ No
	v) Letter declaring offer to be unconditional, confirming its validity for 180 days.	Yes/ No
	vi) Litigation history (Annexure III)	Yes/ No
	vii) Copy of valid Partnership deed/ MOU, if any	Yes/ No
	viii) Authority letter clearly mentioning details of authorized representative	Yes/ No
	ix) Description in brief about Organization	Yes/ No

Note: Submission of Financial Proposal documents (Form B) in the Technical proposal (Form A) would lead to disqualification of the bidder.

LIST OF ELIGIBLE WORKS

(Eligible works as mentioned in the Notice)

S. No.	Name of Work and Location	Owner or Sponsoring Organization	Cost of Work (In Lakhs)	Length/ Area of Survey (in Km/ Sq.km)	Type of Survey Undertaken	Date of commencement as per work order	Completion date (as per Contract)

Note*- Client Certificate to be provided

Seal and signature of bidder

FORM A: Annexure-II

Please enclose following documents as per availability:

1. Certificate of Incorporation
2. PAN Card Copy
3. GSTIN Details
4. MSME Registration details

Litigation History

Sr. No	Case Particulars	Date of Filing	Case Outcome / Present Status

FORM B**FINANCIAL PROPOSAL SUBMISSION FORM****(To be submitted in Separate Sealed Envelope)**

FROM: _____

M/s. Consultancy services

To,
The Director (Planning),
Mumbai Metro Rail Corporation,
202, 2nd Floor, Hallmark Business Plaza,
Opp. Gurunanak Hospital,
Sant Dnyaneshwar Marg,
Bandra (E),
Mumbai – 400 051.

SUB: Appointment of Agency for undertaking Environmental Impact Assessment (EIA) for Revised Alignment of Mumbai Metro Line 11

Dear Sir/ Madam,

We, the undersigned, offer to provide the services for the above subject work in accordance with Tender provisions at and our financial offer and fees inclusive of all taxes and **applicable rate of GST** for this work shall be as follows:

S. No	Name of Work	Time limit for Consultancy	Lumpsum Fees (Rs)
1	Appointment of Agency for undertaking Environmental Impact Assessment (EIA) for Revised Alignment of Mumbai Metro Line 11	2 Months	
2		GST (@ _____%)	
3	TOTAL In figures: - In Words: -		

(Consultant to mention the applicable GST % separately)

(Total fees will include services as mentioned in Scope of Work of the Notice. Our Financial proposal shall be binding upon us.)

We remain,

Yours sincerely,

M/s. Consultancy services