



Request for Proposal

**DPR, EIA & SIA PREPARATION FOR SOUTHERN
EXTENSION OF MUMBAI METRO LINE-3;
CUFFE PARADE TO NAVY NAGAR**

Mumbai Metro Rail Corporation Limited

Hallmark Business Plaza, 8th Floor, Sant Dnyaneshwar Nagar, Bandra East,
Mumbai, Maharashtra 400051

DISCLAIMER

This is request for proposal (“RFP Document”) for developing Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for physical and operational extension of the existing Mumbai Metro Line - 3 (MML-3) alignment from Cuffe Parade Station to the proposed Navy Nagar Station. This RFP contains brief information about the Project, qualification requirements and the selection process for the successful Bidder.

The purpose of this RFP Document is to provide interested parties (“Bidder(s)”) with information in order to assist them in formulation of their bid application (the “Bid”). The information contained in this RFP document or subsequently provided to Bidders, in writing by or on behalf of Mumbai Metro Rail Corporation Ltd. (MMRC) is provided on the terms and conditions set out in this RFP Document and any other terms and conditions subject to which such information is provided.

This RFP document is not an agreement and is not an offer by MMRC to any other party. The terms on which the Project is to be developed and the rights of the Selected Bidder shall be as set out in separate agreement contained herein.

This RFP document does not purport to contain all the information each Bidder may require. This RFP Document has been prepared with a view to provide the relevant information about the Project available with MMRC and may not be appropriate for all persons, and it is not possible for MMRC, their employees or advisors to consider the investment objectives, financial situation and particular needs of each Bidder who reads or uses this RFP Document. Certain Bidders may have a better knowledge of the proposed Project than others. The assumptions, assessments, statements and information contained in the RFP Document, may not be complete, accurate, adequate or correct. Therefore, each Bidder should conduct his own investigation and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources.

MMRC, its employees and advisors make no representation or warranty and shall incur no liability in any manner whatsoever under any law, statute, rules, regulations or otherwise as to the accuracy, reliability or completeness of the assumptions, assessments, statements and information contained in this RFP Document and the same is provided hereunder as to the best of the knowledge of MMRC.

Information provided in this RFP Document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. MMRC accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein. Intimation of discrepancies in the RFP document, if any, should be given to the Office of MMRC, immediately by the Bidders. If MMRC receives no written communication, it shall be deemed that the Bidders are satisfied that the RFP Document and the information provided hereunder is complete in all respects.

Any requirements of the Project, which may be deemed to be necessary by the Bidder should be independently established and verified by the Bidder.

MMRC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP Document.

MMRC, its employees and advisors makes no representation or warranty and shall have no liability to any person, including any Applicant or Bidder under any law, statute, rules or regulations or principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP Document or otherwise,

including the accuracy, adequacy, correctness, completeness or reliability of the RFP Document and any assessment, assumption, statement or Information contained therein or deemed to form part of this RFP Document or arising in any way for participation in this Bid Stage.

MMRC also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP Document.

MMRC reserves the right to accept or reject any or all applications without giving any reasons thereof. MMRC will not entertain or be liable for any claim for costs and expenses in relation to the preparation of the documents to be submitted in terms of this RFP Document.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by MMRC, or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and MMRC shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process. The word “Bid” and “Tender” is used interchangeably in the document.

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SECTION 1: Letter of Invitation (LOI) & Details of Tender

MMRC/Planning/PLN/38/RFP/01/2022

02/08/2022

Invitation for Appointment of Consultant

Dear Sir/Madam,

Sub: Letter of Invitation (LOI) – for Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar

MMRC invites Bids (through e-tendering process) from eligible Bidder(s), who may be a sole proprietorship firm, a partnership firm or a company incorporated under Companies Act 1956/2013 and having registered office in India, for preparation of DPR, EIA & SIA Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar.

Background

Western Naval Command (WNC), Indian Navy approached Mumbai Metro Rail Corporation Limited (MMRC) with a requirement to extend Mumbai Metro Line - 3 (MML-3) south wards to Navy Nagar thereby providing direct connectivity to Navy Residential area (Army & Navy quarters).

Naval area is located approx. 3 km from Cuffe Parade Station (the first metro station). It comprises of Officers' residential quarters, Messes, Institutes, Training/Sports grounds, 800 bed Command Hospital Asvini and INS Kunjali with approx. 50,000 to 60,000 Naval personnel (including their dependents) reside therein. This area also encompasses TIFR, four schools, Indian Meteorological Department, and several civilian establishments. However, the public transport facilities available in the area are limited only to BEST buses along with IPT (taxis). Thus, the residents and workers in this area are largely dependent on private vehicles.

The proposed extension will facilitate city wide connectivity and convenience of travel of defence personnel's families & dependents (Navy Nagar to rest of Mumbai) who are not adequately served by public transport.

Project Brief

MMRC undertook a Pre-Feasibility study based on which an alignment has been finalized in a joint deliberation with WNC Officials.

Salient features of 'Option-5':

1. 250 m long station is proposed in-front of TIFR on Dr. Homi Bhabha Road with approx. 2.5 km extension of tunnel from current terminal point near Ambedkar Nagar.
2. Double side platform station including cross-over before & after metro station (25 other stations have island platform).
3. With extension, the stabling facilities created south of Cuffe Parade will no more be available. Therefore, an underground (U/G) stabling facility is proposed below BEST's Backbay Bus Depot, and adjoining heliport land and slums.
4. A turnout provided after Cuffe Parade station to enter into U/G stabling below Backbay Bus Depot.

Objective

Govt of Maharashtra has granted in-principle approval for south extension and preparation of DPR.

The objective of the assignment is to prepare DPR, EIA & SIA Report for physical and operational extension of the existing MML-3 alignment from Cuffe Parade Station to proposed Navy Nagar Station.

Detailed Scope of Services is given in Section 3 of RFP document.

Eligibility Criteria

Eligibility Criteria for the assignment is given in the Data Sheet of Section 2.

Duration of Services

Time duration for the consultancy service will be 32 weeks (8 months), extendable to the period depending upon MMRC's discretion and mutual consensus.

The RFP document shall be available for download at the specified tender portal by paying the prescribed Tender Document Fee. As per the prescribed schedule, issue of response to queries and corrigendum, if required, will be issued leading to the submission of the bid documents.

Table 1:Details of RFP

Sr. No.	Parameter	Details		
1	Tender / Bid No.	MMRC/Planning/PLN/38/RFP/01/2022		
2	Department	Planning Department		
3	Name of Tender / Bid	Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar		
4	Contact Details	Mr. Swetal Kanwalu, DGM (Town Planning), Planning Dept., 8 th Floor, Hallmark Business Plaza, Sant Dnyaneshwar Nagar, Bandra East, Mumbai, Maharashtra 400051 Contact No. 022 69061355, 022 69061369		
5	Importation Dates	Milestone	From Date	To Date
		Issue of Tender	02/08/2022	
		Last date of receipt of queries / clarifications	02/08/2022	10/08/2022
		Pre-bid meeting	On 10/08/2022	
		Last date of Bid Submission	01/09/2022	

The RFP document is available for download from website www.tenderwizard.com/MMRC from the above-mentioned date. The Tender Document fee of Rs. 10,000 /- (excluding 18% GST) shall be paid at the time of downloading the RFP.

For further details, if required, you may contact:

Contact Details:

Mr. Swetal Kanwalu, DGM (Town Planning),
Planning Dept.

8th Floor, Hallmark Business Plaza

Sant Dnyaneshwar Nagar, Bandra East, Mumbai, Maharashtra 400051

Contact No. 022 69061355, 022 69061368

E-mail ID: swetal.kanwalu@mmrcl.com

MMRC reserves the right to reject any/all of the proposals without assigning any reason thereof.

Date: 02/08/2022

Place: Mumbai

Yours faithfully,

Sd-

(R. Ramana)
Executive Director (Planning)

Details of Tender

Table 2: Details of Tender

SN	Parameter	Description
1	Name of Work	Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar
2	Cost of Tender Document	10,000/- (INR Ten Thousand only), excluding GST (Refundable for MSME registered firms)
3	Completion period of Work	32 weeks (8 months)
4	Point of Contact	Mr. Swetal Kanwalu, DGM (Town Planning) Hallmark Business Plaza, 8th Floor, Sant Dnyaneshwar Nagar, Bandra East, Mumbai, Maharashtra 400051 Contact No. 022 69061355 E-mail ID: swetal.kanwalu@mmrcl.com

Tender Schedule

For the agencies that have registered as MSMEs are requested to make the necessary payment of Rs. 10,000/- + GST on the portal. The amount will be reimbursed separately after submission of the proof of the payment.

The tenders will be received online on MMRCL portal (www.tenderwizard.com/MMRCL) and will be opened as per scheduled date and time given below:

Table 3: Tender Schedule

S.N.	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time
1	Issue of Tender Document	-----	02/08/2022	
2	-----	Submission of queries/clarification	02/08/2022	10/08/2022
3	Pre-bid Meeting		On 10/08/2022	
4	-----	Bid Submission	01/09/2022 (16:00 Hours)	
5	Opening of Technical Bid	-----	01/09/2022 (17:00 Hours)	

*Timeline is tentative. Bidders shall be informed regarding updated dates through the E-Tendering portal. Financial bid opening date & time shall be intimated in advance.

Deemed Knowledge and Disclaimer

MMRC shall receive Bids pursuant to this RFP document, in accordance with the terms set forth herein as modified, altered, amended and clarified from time to time by MMRC. Bidders shall submit bids in accordance with such terms on or before the Proposal Due Date. The participating Bidders are expected to visit the Project site to examine its precincts and the surroundings at the Bidder's own expenses and ascertain on its own responsibility, information, technical data, traffic data, market study, etc. including actual condition of existing services.

The Bidder shall be deemed to have inspected the Project Site and be aware of the existing Project site conditions and shall not claim for any change on the Project site after submitting its Bid. The Bidder hereby admits, agrees and acknowledges that MMRC has not made any representation to the Bidder or given any warranty of any nature whatsoever in respect of the Project Site including in respect of its usefulness, utility etc. or the fulfilment of criteria or conditions for obtaining applicable permits by the Bidder for implementing the Project.

The Bidder shall be fully and exclusively responsible for, and shall bear the financial, technical, commercial, legal and other risks in relation to the development of the assets regardless of whatever risks, contingencies, circumstances and/or hazards may be encountered (foreseen or unforeseen) including underground utilities and notwithstanding any change(s) in any of such risks, contingencies, circumstances and/or hazards on exceptional grounds or otherwise and whether foreseen or unforeseen and the Bidder shall not have any right whether express or implied to bring any claim against, or to recover any compensation or other amount from MMRC in respect of the Project other than for those matters in respect of which express provision is made in the Agreement.

MMRC reserves the right to reject any or all of the tender offers, without assigning any reason thereof. Validity period of the offer of the tender will be 180 days from the date of opening of the financial bid of the e-tender. If there is any amendment in the tender the same shall be updated on the web portal.

Guidelines for E-Tendering

All documents related to this bid document are available on the MMRC e-tendering portal www.tenderwizard.com/MMRC, without registration. All bidders must note that this being E-tender, bids received only through online on E-tendering portal www.tenderwizard.com/MMRC shall be considered as an offer. Any bid submitted in paper form will not be received and opened and shall be summarily rejected. To participate, applicant / bidders is/are required to register and bid using following steps.

Step 1: Registration of Applicants/Bidders

- Go to website: www.tenderwizard.com/MMRC.
- Click on "Register" button.
- Fill in the desired User ID, Company Details by your own.
- Vendor in possession of DSC Class III may insert Digital Signature Certificate token in computer's USB drive, and click on "Update Digital Signing Certificate Serial No. From USB token". A new PKI based "Signer Certificate" window will open. Browse your Signer Certificate, enter token password and click on Register.
- For those without DSC, it is mandatory to apply for the DSC.
- Do not enter special character(s) in any field except "Email Address", "Website (URL)" and "Alternative Email Address".
- Then click on "Create profile".
- You will be forwarded to "Document Upload" screen. Upload documents as specified in previous page. After uploading is completed, click on "Finish Upload".
- You will be forwarded to Payment screen. Make registration payment.
- The User ID and system generated password with payment confirmation will appear on the next screen which can be printed for future reference.

- For enabling the User ID, forward the registration acknowledgement to twhelpdesk358@gmail.com along with a Request Letter.
- Download the format for Request letter from Home Page (available under Click to view Latest Circulars / Format). Letter should be duly signed with rubber stamp.

Step 2: Apply digital signature (known as “digital signature certificate”): following registration a token (data card) will be issued to the registered company.

- Applying Class III Digital Signature Certificate: (token issued upon registration)
- The applicant/bidder is required to apply for a class III Digital Signature Certificate (DSC). Digital Signature Certificate which is obtainable from the authorized agencies of CCA (Controller of Certifying Authorities in India www.cca.gov.in).

Procedure for submission of E-tender by bidder:

- Interested bidders who wish to participate should visit website <http://www.tenderwizard.com/MMRC> which is the ONLY website for bidding their offer. Further, the procedure is as follows:
- Register your company in website www.tenderwizard.com/MMRC for obtaining a Login ID and Password (after paying necessary registration charges). This is one-time annual payment and applicable for bidding other tenders also.
- Using the login ID, password and digital signature, enter the tender portal to purchase the tender document.
- Pay processing fees/tender cost through e-payment gateway.
- With the payment of tender document cost, the bidder can download the ‘Technical bid’ [in prescribed/Microsoft Excel (.xls) format] and ‘price bid’ [in prescribed/Microsoft Excel (.xls) format] by clicking on the link “Show Form”.
- Download the **Technical bid** and **Price bid** and save them without changing the file name. Fill up your quotations, save them. Then upload the Technical bid and Price bid in appropriate links.
- Attach supporting documents first in “Document Library”. Then attach them by selecting in particular tender.
- On Submission of tender a system generated “Acknowledgement Copy” of tender submission will be received.
- Bidder can revise/change quoted rates any time before closing date & time.
- Bidder must submit the offer before the online closing date & time. The website will automatically stop accepting the offer after online closing date and time.
- Bidder manual & system requirement is available on website www.tenderwizard.com/MMRC for necessary help.
- All Bids must be uploaded on-line on E-Tendering portal. www.tenderwizard.com/MMRC before the time and date specified in the pre-qualification Data sheet / Bid Data sheet.
- Being e-tenders the bidders will not be able to upload bids after the designated time of bid submission.
- The Applicants/Bidders are advised to regularly visit the e-tendering portal www.tenderwizard.com/MMRC for updates.
- N.B: Bidders are requested to refer to the Vendor’s manual by downloading the Vendor’s Manual by visiting www.tenderwizard.com/MMRC and clicking on “Help Manuals”.

Bidder may contact ITI representative at 08951944383 & helpdesk at 08040482100 [email-twhelpdesk358@gmail.com](mailto:twhelpdesk358@gmail.com) for any assistance. Contact Timings-India 09:00Hrs.–20:00Hrs (GMT +5.30).

Bidder/ Agencies are advised to study this bid document carefully before submitting their proposals in response to the NIT. Submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications. Prospective bidders are advised to check the minimum qualification criteria before participating in the bidding process. This Bid Document is not transferable and the name of the bidder who purchases and submits the same bid shall be unchanged.”

SECTION 2: Instructions to Consultants (ITC) and Data Sheet

Instructions to Consultants

1. Definitions

- 1.1 “Affiliate(s)” means an individual or an entity that directly or indirectly controls, is controlled by, or is under common control with the Consultant.
- 1.2 “Applicable Law” means the laws and any other instruments having the force of law in the Client’s country, or in such other country as may be specified in the Data Sheet, as they may be issued and in force from time to time.
- 1.3 “Client” means “MMRC” or “Authority” that signs the Contract for the Services with the selected Consultant.
- 1.4 “Consultant” means a legally-established professional consulting firm or an entity that may provide or provides the Services to the Client under the Contract.
- 1.5 “Contract” means a legally binding written agreement signed between the Client and the Consultant and includes all the attached documents listed in its Clause 1 (the General Conditions of Contract (GCC), the Special Conditions of Contract (SCC), and the Appendices).
- 1.6 “Data Sheet” means an integral part of the Instructions to Consultants (ITC) Section 2 that is used to reflect specific country and assignment conditions to supplement, but not to over-write, the provisions of the ITC.
- 1.7 “Day” means calendar day;
- 1.8 “Professionals” means, collectively, Key Professionals, Support Professionals, support staff, or any other personnel of the Consultant or Joint Venture member(s).
- 1.9 “Government” means the Government of Maharashtra/Government of India
- 1.10 “Joint Venture (JV) or Consortium” means an association with or without a legal personality distinct from that of its members, of more than one Consultant where one member has the authority to conduct all business for and on behalf of any and all the members of the JV, and where the members of the JV are jointly and severally liable to the Client for the performance of the Contract.
- 1.11 “Key Professional(s)” means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose CV is taken into account in the technical evaluation of the Consultant’s proposal.
- 1.12 “Foreign Personnel” means such professionals and support staff who at the time of being so provided had their domicile outside India.
- 1.13 “Local Personnel” means such professionals and support staff who at the time of being so provided had their domicile inside India;
- 1.14 “ITC” (this Section 2 of the RFP) mean the Instructions to Consultants that provides the Consultants with all information needed to prepare their Proposals.
- 1.15 “LOI” (this Section 1 of the RFP) means the Letter of Invitation being addressed by the Client to the Consultants.
- 1.16 “Support Professional(s)” means an individual professional provided by the Consultant and who is assigned to perform the Services or any part thereof under the Contract and whose CVs are not evaluated individually.
- 1.17 “Proposal” means the Technical Proposal and the Financial Proposal of the Consultant.
- 1.18 “RFP” means the Request for Proposals to be prepared by the Client for the selection of Consultants.
- 1.19 “Services” means the work to be performed by the Consultant pursuant to the Contract.

- 1.20 “TOR” (this Section 5 of the RFP) means the Terms of Reference that explain the objectives, scope of work, activities, and tasks to be performed, respective responsibilities of the Client and the Consultant, and expected results and deliverables of the assignment.
- 1.21 “Technical Advisory Committee” means a committee constituted by the Authority for the purpose of technical guidance to the Consultants and monitoring of the study
- 1.22 “INR” means Indian Rupee (s).
- 1.23 QCBS-Quality- and Cost-Based Selection (QCBS)

2. Introduction

- 2.1 MMRC intends to select an individual firm or Joint Venture (“the Consultant”) in accordance with the method of selection specified in Data Sheet.
- 2.2 The Consultants are invited to submit a Technical Proposal and a Financial Proposal, as specified in the Data Sheet, for consulting services required for the assignment named in the Data Sheet. The proposal will be the basis for negotiations (for both technical & financials) and ultimately for a signing contract with the selected Consultant.
- 2.3 Consultants should familiarise themselves with local conditions and take into account in preparing their proposals. To obtain first-hand information on the assignment and local conditions. Consultants are advised to attend pre-bid meeting specified in the Data Sheet.
- 2.4 MMRC will timely provide at no cost to the Consultants, the inputs, relevant project data and reports required for the preparation of the consultants Proposal as specified in the Data Sheet.
- 2.5 The Consultant shall bear all costs associated with the preparation and submission of its Proposal, subsequent contract negotiations and the Client shall not be responsible or liable for those costs, regardless of the conduct or outcome of the selection process. The Client is not bound to accept any proposal and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Consultant.

3. Conflict of Interest

- 3.1 The Consultant has an obligation to disclose to the Client any situation of actual or potential conflict that impacts its capacity to serve the best interest of its Client. Failure to disclose such situations may lead to the disqualification of the Consultant or the termination of its Contract.
- 3.2 Without limitation on the generality of the foregoing, and unless stated otherwise in the Data Sheet, the Consultant shall not be hired under the circumstances set forth below:
- 3.3 Relationship with the client’s staff: A Consultant (including its Professionals) that has a business or family relationship with a member of MMRC ’s staff who is directly or indirectly involved in any part of (i) the preparation of the Terms of Reference of the assignment, (ii) the selection process for such assignment, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to the MMRC throughout the selection process and the execution of the Contract.
- 3.4 No agency or current employees of MMRC shall work as Consultants under their own departments. Recruiting former employees of MMRC and Government to work for their former ministries, departments or agencies is acceptable provided no conflict of interest exists. When the Consultant nominates any government employee as a professional in their technical proposal, such professional must have written certification from their government or employer confirming that they are on leave without pay from their official position and allowed to work full-time outside of their previous official position. Such certification shall be provided to MMRC by the Consultant as part of his technical proposal.

4. Unfair Competitive Advantage

If a Consultant could derive a competitive advantage from MMRC after having provided consulting services related to the assignment in question, MMRC shall make available to all Consultants together with this RFP all information that would in that respect give such Consultant any competitive advantage over competing Consultants.

5. Corrupt and Fraudulent Practices

5.1 The consultant's personnel observe the highest standard of ethics during the selection and execution of such contracts and must not indulge in any corrupt /fraudulent practice defined here under:

- a) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything likely to influence improperly the actions of another party¹
- b) "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to likely mislead, a party to obtain financial or other benefit or to avoid an obligation²;
- c) "collusive practices" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party³;
- d) "coercive practices" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party⁴;

¹ "Another party" refers to a public official acting in relation to the selection process or contract execution. In this context "public official" includes employees of other organisations taking or reviewing selection decisions.

² "party" refers to a public official; the terms "benefit" and "obligation" relate to the selection process or contract execution; and the "act or omission" is intended to influence the selection process or contract execution.

³ "Parties" refers to participants in the procurement or selection process (including public officials) attempting to establish contract prices at artificial, non-competitive levels.

⁴ "Party" refers to a participant in the selection process or contract execution.

- e) "obstructive practice" is; Deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators to materially impede a MMRC investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.

5.2 MMRC will reject a proposal for award if it determines that the consultant recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

5.3 Consultants, personnel shall not be under a declaration of ineligibility for aforesaid (Para 5.1) corrupt and fraudulent practices. Furthermore, the Consultants shall be aware of the provisions on fraud and corruption stated in the specific clauses in the General Conditions of Contract.

6. Eligibility Criteria

The eligibility criteria are detailed out in the Data Sheet. The bidder must fulfil project experience undertaken as below;

A. Minimum 15 years' experience in consultancy services.

B1. Minimum 2 nos. of DPR with depot/stabling facilities prepared for metros in India.

B2. Out of the aforementioned projects, minimum 1 no. of DPR to be prepared for underground metro (minimum 2.0 km stretch).

C. Minimum 1 no. of EIA & SIA Report prepared for metros in India. Report may be a part of the aforementioned projects or otherwise.

D. Minimum Average Annual turnover of INR 10 Cr. for at least 3 Financial Years (FY) in the last 5 FY (FY 2016-17, 2018-18, 2018-19, 19-20, 20-21).

Note:

- a) JV/Consortium is not permitted.
- b) All assignments shall be supported by a valid client completion/appreciation certificate as stated in Form TECH-2. In the absence of such documentary proof, the assignment shall not be considered eligible for evaluation.
- c) The above information shall be submitted as part of Technical Proposal (e-envelope B-Form TECH-2)

7. Award of Contract

7.1 Evaluation of Bids will be based on Quality-cum-Cost-Based Selection (QCBS)

7.2 Financial proposal shall be opened and combined technical and financial score shall be determined. Firm having the highest combined technical and financial score will be awarded the package after negotiations.

8. Only One Proposal

8.1 The Proposal shall comprise the documents and forms listed in the Data Sheet.

8.2 Consultants may submit only one proposal. If a Consultant submits or participates in more than one proposal, each of the proposals or consultants shall be disqualified.

8.3 In preparing the Proposal, the Consultant is expected to examine the RFP in detail. Material deficiencies in providing the information requested in the RFP may result in rejection of the Proposal.

9. Proposal Submission

9.1 The intending bidders must be registered on e-tendering portal of MMRCL www.tenderwizard.com/MMRCL. Those who are not registered on the e-tendering portal shall be required to get registered beforehand. If needed they can be imparted training on 'online tendering process'. After registration, the bidder will get user id and password. On login, bidder can participate in tendering process and can witness various activities of the process.

9.2 Details of the e-tender process are described in this document section.

9.3 Tender submissions will be made online after uploading the mandatory scanned documents. Bid shall be submitted online on the e-tendering portal in 'three electronic envelopes system' within prescribed schedule.

9.3.1 e-Envelope 'A' (Cost of Tender Document): Consultant should generate, and upload scanned copies of Receipt for Cost of Tender Document.

9.3.2 e-Envelope 'B' (Technical bid): Consultant shall upload scanned copies of Technical Document as per the requirements of the Tender Documents.

- 9.3.3 e-Envelope 'C' (Financial bid): Consultant shall quote his offer in the Financial Proposal at the prescribed space in e-Envelope "C".
- 9.4 Under "Price Bid-Covering Letter" Upload the digitally signed copy of the Quotation on Company's Letter head under the template "Price Bid- Covering Letter". Consultant shall upload signed and stamped scanned copy of Financial Proposal.
- 9.5 Payment Procedure for Cost of Tender Document: Tender document and supporting documents can be downloaded for reference purpose from the e-Tendering Portal of MMRCL during the period mentioned in the tender notice. Interested Consultants have to make online payment using online payment gateway during bid preparation i.e., Debit Card/Credit Card/Net-Banking. Fee receipt can be system generated during bid preparation by the Consultant.
- 9.6 Submission of Tenders shall be closed on e-tendering portal of MMRCL on the date & time of submission prescribed in Data Sheet after which no tender shall be accepted. It shall be the responsibility of the Consultant / bidder to ensure that his tender is submitted online on e-tendering portal of MMRCL before the deadline of submission. MMRCL will not in any way be responsible for non-receipt of tender documents due to any delay and/or loss etc.

10. Proposal Validity

- 10.1 The Data Sheet indicates how long Consultants' Proposals must remain valid after the submission date. During this period of 6 months from the date of opening of the financial bid of the tender, Consultants shall maintain the availability of Professional staff nominated in the Proposal. MMRC will make its best effort to complete negotiations within this period.
- 10.2 During this period, the Consultant shall maintain its original Proposal without any change, including the availability of the Key Professionals, the proposed rates and the total price.

11. Extension of Validity Period

- 11.1 The Client will make its best effort to complete the negotiations within the proposal's validity period. However, should the need arise, the Client may request, in writing, all bidders who submitted Proposals prior to the submission deadline to extend the Proposals' validity.
- 11.2 If the bidder agrees to extend the validity of its Proposal, it shall be done without any change in the original Proposal and with the confirmation of the availability of the Key Professionals.
- 11.3 The bidder has the right to refuse to extend the validity of its Proposal in which case such Proposal will not be further evaluated.

12. Sub-Contracting

The Consultant shall not subcontract any services other than field surveys and EIA & SIA studies.

13. Clarification and Amendment of RFP Documents

- 13.1 The bidder may request a clarification of any part of the RFP during the pre-bid meeting. Any request for clarification must be sent in writing, or by standard electronic means, to the Client's address indicated in the Data Sheet. The Client will respond in writing, or by standard electronic means to all bidders. If the Client deem it necessary to amend the RFP as a result of a clarification, it shall do so following the procedure described below:
- At any time before the proposal submission deadline, the Client may amend the RFP by issuing an amendment in writing or by standard electronic means. The amendment shall be sent to all bidders and will be binding on them. The bidders shall acknowledge receipt of all amendments in writing.
 - If the amendment is substantial, the Client may extend the proposal submission deadline to give the bidders reasonable time to take an amendment into account in their Proposals.

13.2 The bidder may submit a modified Proposal or a modification to any part of it at any time prior to the proposal submission deadline. No modifications to the Technical or Financial Proposal shall be accepted after the deadline.

14. Preparation of Proposals – Specific Considerations

While preparing the Proposal, the bidder must give particular attention to the following:

- a) The Client may indicate the estimated Key Professional's time input (expressed in man-month) in the Data Sheet. This estimate is indicative, and the Proposal shall be based on the bidder's own estimates for the same.
- b) Proposed Professional staff must have at least the experience indicated in the Data Sheet, preferably under conditions like those prevailing in the country of the assignment.
- c) Bidder shall not propose alternative Key Professionals. Only one CV shall be submitted for each Key Professional position. Failure to comply with this requirement will make the Proposal non-responsive.
- d) It is desirable that the majority of the Key Professional staff proposed be the permanent employees of the firm or have an extended and stable working relation with it.

15. Language

Documents to be issued by the Consultants as part of this assignment must be in the English language. It is desirable that the firm's personnel have a working knowledge of the Client's national/local language.

16. Technical Proposal Format and Content

16.1 The Technical Proposal shall not include any financial information. A Technical Proposal containing material financial information shall be declared non-responsive.

16.2 Bidders are required to submit a Full Technical Proposal (FTP). The Technical Proposal shall provide the information indicated in the following paras from (a) to (g) using the attached Standard Forms (Section 4).

- a) A brief description of the Bidders' organisation and an outline of recent experience on assignments of a similar nature are required in Form TECH-2. For each assignment, the outline should indicate the names of Professional Key staff participated, duration of the assignment, contract amount, and Consultant's involvement. Information should be provided only for those assignments for which the Consultant was legally contracted by the Employer as a corporation venture. Assignments completed by individual Professional staff working privately or through other consulting firms cannot be claimed as the experience of the Consultant, or that of the Consultant's associates, but can be claimed by the Professional staff themselves in their CVs. Consultants should be prepared to substantiate the claimed experience if so, requested by MMRC.
- b) A description of the approach, methodology work plan and transfer of knowledge and training for performing the assignment covering the following subjects: technical approach and methodology, work plan, and organization and staffing schedule. Guidance on the content of this section of the Technical Proposals is provided under Form TECH-3 of Section 3. The work plan should be consistent with the Work Schedule (Form TECH-7 of Section 4) which will show in the form of a bar chart the timing proposed for each activity.
- c) The list of the proposed Professional staff team by area of expertise, the position that would be assigned to each staff team member, and their tasks (Form TECH-4)

- d) Estimates of the total staff input (staff-months of foreign and local professionals) needed to carry out the assignment (Form TECH-6 of Section 4) supported by bar chart diagrams showing the time proposed for each professional staff team member.
- e) In case of fulltime employee proposed as Key Professional, CV should be signed by authorized signatory of the firm and Key Professional. Scanned copies of CVs signed by the respective personnel will be accepted. In case of a person not an employee of the bidding firm, an undertaking from the person stating his/her acceptance to work on behalf of the bidding firm for this study should be submitted. Key information should include number of years working for the firm/entity, and degree of responsibility held in various assignments during the previous years as given in the Data sheet.
Note: MMRC may verify experience of Key Personnel/expert with previous employer.
- f) A detailed description of the proposed methodology and staffing.

17. Financial Proposals

- 17.1 The Financial proposal should be a Lump-sum proposal excluding GST and shall be prepared using the attached Forms (Form FIN 1, 2, 3) specified in Section 4.
- 17.2 The Financial proposal should be submitted clearly indicating the total cost of the Consultancy in both figures & words, in Indian Rupees, & signed by Applicant's Authorised Representative.
- 17.3 The Financial Proposal shall take into account all expenses associated with the assignment. These shall normally cover remuneration for all the Key Professionals, Support Professionals, Support Staff, accommodation, air fare/ train fare, communication costs, local transportation costs, equipment, printing of documents, surveys/ investigations (except Geotechnical Investigation*), etc. The rates for individual Key Professional & total amount indicated in the Financial Proposal shall be without any condition attached or subject to any assumption and shall be final and binding. In case any assumption or condition is indicated in the Financial Proposal, it shall be considered non-responsive and liable to be rejected.

18. Taxes, Currency of Proposal & Payment

- 18.1 The Financial Proposal shall take into account all the tax liabilities. Further, all payments shall be subject to deduction of taxes at source as per Applicable Laws.
- 18.2 The bidder shall express the price for its Services in the Indian Rupees (INR) only, no foreign currency fluctuation will be paid.
- 18.3 Payment under the Contract shall be made in the INR only.
- 18.4 Payments shall be made based on the deliverables as mentioned in the Payment Schedule in Section 3: Terms of Reference (TOR).
- 18.5 Changes in Tax rates: Payment shall be made as per current applicable rate of GST. Any change in GST rate will be reimbursed/recovered based on applicability & documentary evidence.

19. Submission, Sealing, and Marking of Proposals

- 19.1 Tender submissions will be made online after uploading the mandatory scanned documents. Bid shall be submitted online on the e-tendering portal in 'three electronic envelopes system' within prescribed schedule.
- 19.2 The bidder shall submit their tender on-line on e-tendering website www.tenderwizard.com/MMRCL. It shall be the responsibility of the Consultant / bidder to ensure that his tender is submitted on e-tendering website of MMRCL before the deadline of submission prescribed in Data Sheet.
- 19.3 'Tender Document Fee' after due date and time shall not be accepted and online tenders of such bidders shall be rejected summarily.

19.4 MMRCL will not be responsible for delay, loss or non-receipt of 'Tender Document Fee'.

19.5 MMRCL may, at their discretion, extend the deadline for submission of tenders by issuing an amendment, in which case all rights and obligations of the Employer and the Bidder previously subject to the original deadline will thereafter be subject to the deadline as extended.

20. Confidentiality

20.1 From the time the Proposals are opened to the time the Contract is awarded, the bidder should not contact the Client on any matter related to its Technical and/or Financial Proposal. Information relating to the evaluation of Proposals and award recommendations shall not be disclosed to the Bidders who submitted the Proposals or to any other party not officially concerned with the process, until the Contract award.

20.2 Any attempt by bidder or anyone on behalf of the bidder to influence improperly the Client in the evaluation of the Proposals or Contract award decisions may result in the rejection of its Proposal.

20.3 Notwithstanding the above provisions, from the time of the Proposals' opening to the time of Contract award, if a bidder wishes to contact the Client on any matter related to the selection process, it should do so only in writing.

21. Opening of Technical Proposals

21.1 The Client's evaluation/Tender opening committee shall conduct the opening of the Technical Proposals in the presence of the bidders' authorised representatives who choose to attend (in person or through Microsoft teams). The opening date, time are stated in the Data Sheet. Bidders have to submit their interest to attend the technical bid opening at least a day before date of opening of Technical Bid. The link shall be shared with the interested bidders. The envelopes with the Financial Proposal shall remain sealed and shall be securely stored until they are opened in accordance with Clause 24 of the ITC.

21.2 At the opening of the Technical Proposals the following shall be read out: (i) the name and the country of the Consultant or, in case of a Joint Venture, the name of the Joint Venture, the name of the lead member and the names and the countries of both members; (ii) any other information deemed appropriate or as indicated in the Data Sheet.

22. Proposal Evaluation

22.1 Subject to provision of Clause 16.1 of the ITC, the evaluators of the Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

22.2 The Consultant is not permitted to alter or modify its Proposal in any way after the proposal submission deadline except as permitted under Clause 11.3 of this ITC. While evaluating the Proposals, the Client will conduct the evaluation solely on the basis of the submitted Technical and Financial Proposals.

23. Evaluation of Technical Proposals

23.1 Prior to evaluation of Proposals, MMRC's appointed authority/Evaluation Committee will determine whether each proposal is responsive to the requirements of the RFP. MMRC may, at its sole discretion, reject any proposal that is not responsive hereunder. A proposal shall be considered responsive only if;

- a) The technical proposal is received in the form specified Section-4 of RFP.
- b) It is received by the due date including any extension thereof pursuant to Clause 10 of ITC
- c) It is signed and submitted as stipulated in clause 16 of ITC.
- d) It is accompanied by a valid Power of Attorney pursuant to ITC.
- e) It contains all the information (complete in all respect) as required in RFP.
- f) It does not contain any condition.

23.2 The Evaluation Committee shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria, sub-criteria, and point system specified in the Data Sheet under QCBS. Each responsive Proposal will be given a technical score (St). A Proposal shall be rejected at this stage if it does not respond to important aspects of the RFP, and particularly the Terms of Reference or if it fails to achieve the minimum technical score indicated in the Data Sheet.

23.3 MMRC shall not be required to provide any explanation or justification in respect of technical evaluation of proposal. The decision of evaluation committee will be final and will be binding on all prospective bidders.

24. Public Opening and Evaluation of Financial Proposals (For a. Quality- and Cost-Based Selection (QCBS))

24.1 After the technical evaluation is completed MMRC shall notify in writing to bidders that have secured the minimum qualifying score, the date, time and link for Microsoft Teams for opening the Financial Proposals. Bidders' attendance at the opening of Financial Proposals is optional.

24.2 Those bidders who failed to qualify at the Technical Qualification stage, shall be informed the technical scores and shall be notified the minimum qualifying score and considered non-responsive to the RFP and TOR. Their Financial Proposals will be returned unopened after completing the selection process.

24.3 Financial Proposals shall be opened publicly in the presence of the bidders' representatives who choose to attend. The name of the bidders and the technical scores shall be read aloud. The Financial Proposal of the bidders who meet the minimum qualifying score will then be inspected to confirm that they have remained sealed and unopened. These Financial Proposals shall be then opened, and the total prices read aloud and recorded.

24.4 In case of discrepancy between the Technical and Financial Proposals in indicating quantities of input, the Technical Proposal prevails.

24.5 In addition to the above, as indicated under para. 24.4, activities and items described in the Technical Proposal but not priced in the financial proposal, shall be assumed to be included in the prices of other activities.

24.6 In the case of QCBS, total score is calculated by weighing the technical and financial scores & adding them as per the formula & instructions in the Data Sheet also as detailed under para 24.7.

24.7 The lowest evaluated Financial Proposal (Fm) will be given the maximum financial score (Sf) of 100 points. Financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical (St) & financial (Sf) scores using the weights (T = the weight given to the Technical Proposal; P = the weight given to the Financial Proposal; T + P = 1) indicated in the Data Sheet: $S = St \times T + Sf \times P$. The firm achieving the highest combined technical & financial score will be invited for negotiations.

25. Negotiations & Award

Negotiations will be held at the address indicated in the Data Sheet with regard to the weaknesses if any in the selected proposal. The invited bidder will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional staff. Failure in satisfying such requirements may result in MMRC proceeding to negotiate with the next-ranked Consultant. Representatives conducting negotiations on behalf of the bidder must have written authority to negotiate and conclude a Contract.

26. Technical Negotiations

26.1 Negotiations will include a discussion of the Technical Proposal, the proposed technical approach and methodology, work plan, and organisation and staffing, & Knowledge transfer and training

and any suggestions made by the Consultant to improve the Terms of Reference. MMRC and the Consultant will finalise the Terms of Reference, staffing schedule, work schedule, logistics, and reporting. These documents will then be incorporated in the Contract as “Description of Services”. Special attention will be paid to clearly defining the inputs and facilities required from MMRC to ensure satisfactory implementation of the assignment. MMRC shall prepare minutes of negotiations which will be signed by MMRC and the Consultant.

26.2 MMRC may negotiate a Contract based on the Professional staff named in the Proposal. Before contract negotiations, MMRC will require assurances that the Professional staff will be available. MMRC will not consider substitutions during contract negotiations. If this is not the case and if it is established that Professional staff were offered in the proposal without confirming their availability, this shall result in the rejection of the Consultant’s Proposal and the Client proceeding to negotiate the Contract with the next-ranked bidder.

27. Availability of Key Professional staff/experts

27.1 If it is established that any of the Key Professionals is included in the Proposal without his/her confirmation, such Proposal shall be disqualified and rejected for further evaluation with respect to Clause 5 of this ITC.

27.2 Replacements of Key Personnel is not desirable, and consultants shall refrain from doing so in any circumstances except death and medical incapacitation. If Key Personnel or replacements of equal or better qualifications are not deployed, it will be considered as non-deployment of Key Personnel and no payment shall be admissible.

27.3 The consultant shall not change the Key Personnel proposed for the work without any valid reasons acceptable to the Client. A penalty of Rs. 25,000/- will also be levied if the consultant changes the Key Personnel proposed without valid reasons or without prior information to the client.

28. Financial negotiations

Staff month rate negotiations shall not take place, except when the offered Key Professionals remuneration rates are much higher than the typically charged rates by consultants in similar contracts. In such case, the Client may ask for clarifications and, if the fees are very high, ask to change the rates.

29. Conclusion of the negotiations

Negotiations will conclude with a review of the draft Contract. To complete negotiations MMRC and the Consultant will initial the agreed Contract. If negotiations fail, MMRC will invite the Consultant whose Proposal received the second highest score to negotiate a Contract.

30. Award of Contract

30.1 After completing negotiations, MMRC shall award the Contract to the selected Consultant.

30.2 The Consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet or such other date as may be mutually agreed.

30.3 If the Consultant fails to either sign the Agreement as specified in Clause 30.1 or commence the assignment as specified in Clause 30.2, the Authority may invite the bidder whose proposal received the second highest score to negotiate a Contract.

DATA SHEET

ITC Clause Reference	Particulars
2.1	Name of the Client: Mumbai Metro Rail Corporation Ltd. (MMRCL) Method of selection: Quality and Cost Based Selection (QCBS) .
2.2	Financial Proposal to be submitted with Technical Proposal: Yes Name of the assignment is: “Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar”
2.3	A pre-bid meeting will be held: Yes Date: 10/08/2022 (Time of the pre-bid meeting would be communicated to all the bidders later on the E-Tendering portal. Microsoft teams link for attending pre-bid shall be uploaded on the E-Tendering portal)
2.4	MMRC will provide the following inputs and facilities: MMRC will make available alignment plan, longitudinal section and any other information pertaining to MML-3 required for the suitable completion of the assignment. MMRC will also provide the previously prepared Pre-Feasibility Report and other information/data collected on this subject in the past.
6	<p>Eligibility Criteria:</p> <p>The bidder must fulfil project experience undertaken as below;</p> <p>A. Minimum 15 years’ experience in consultancy services.</p> <p>B1. Minimum 2 nos. of DPR with depot/stabling facilities prepared for metros in India.</p> <p>B2. Out of the aforementioned projects, minimum 1 no. of DPR to be prepared for underground metro (minimum 2.0 km stretch).</p> <p>C. Minimum 1 no. of EIA & SIA Report prepared for metros in India. Report may be a part of the aforementioned projects or otherwise.</p> <p>D. Minimum Average Annual turnover of INR 10 Cr. for at least 3 Financial Years (FY) in the last 5 FY (FY 2016-17, 2018-18, 2018-19, 19-20, 20-21).</p> <p>Note:</p> <p>All assignments shall be supported by a valid client completion/ appreciation certificate as stated in Form TECH-2. In the absence of such documentary proof, the assignment shall not be considered eligible for evaluation. The above information shall be submitted as part of Technical Proposal (e-envelope B-Form TECH-2)</p>
8.1	<p>The Proposal shall comprise the following:</p> <p>e-Envelope ‘A’ (Tender Fee and Tender processing fee): Generate Receipt for Cost of Tender Document</p> <p>e-Envelope ‘B’ (Technical Proposal): Technical proposal shall be submitted in the form specified in Check List.</p> <p>(1) TECH-1 (PDF)</p> <p>(2) TECH-2 (PDF)</p> <p>(3) TECH-3 (PDF)</p>

ITC Clause Reference	Particulars
	<p>(4) TECH-4 (PDF) (5) TECH-5 (PDF) (6) TECH-6 (PDF) (7) TECH-7 (PDF) (8) Supporting Documents mentioned in the Checklist for Technical Proposal at (L) of Section 4: Bidding Forms (9) Checklist for Technical Proposal (Excel) e-Envelope 'C' (Financial Proposal): (1) FIN-1 (PDF) (2) FIN-2 (PDF) (3) FIN-3 (Excel)</p>
10.0	Proposals must remain valid for 180 days after the proposal submission date.
13.1	<p>Clarifications may be requested no later than 10/08/2022.</p> <p>The contact information for requesting clarifications is: Mr. Swetal Kanwalu, DGM (Town Planning), 8th Floor, Hallmark Plaza, Bandra East, Mumbai 400051 E-mail id: swetal.kanwalu@mmrcl.com</p>

ITC Clause Reference	Particulars																																				
16	<p>The estimated number man-months is 13.0 man-months. The Key Professionals should be supported by adequate number of support professionals.</p> <p>General Conditions to be fulfilled by Key Staff:</p> <ol style="list-style-type: none"> 1. Age of the Key Professionals should not be greater than 70 years. 2. Each CV of Key Professional should be signed by Authorized Signatory and Key Professional. <p>The estimated number of man-months for each Key Professional are given below:</p> <table border="1" data-bbox="384 633 1409 1491"> <thead> <tr> <th data-bbox="384 633 491 689">S. N.</th> <th data-bbox="491 633 916 689">Key Personnel</th> <th data-bbox="916 633 1409 689">Estimated Man-Months</th> </tr> </thead> <tbody> <tr> <td data-bbox="384 689 491 745">1</td> <td data-bbox="491 689 916 745">Alignment Expert</td> <td data-bbox="916 689 1409 745">0.5</td> </tr> <tr> <td data-bbox="384 745 491 813">2</td> <td data-bbox="491 745 916 813">Geotech/Tunnelling Expert</td> <td data-bbox="916 745 1409 813">1.5</td> </tr> <tr> <td data-bbox="384 813 491 880">3</td> <td data-bbox="491 813 916 880">Tracks Expert</td> <td data-bbox="916 813 1409 880">0.5</td> </tr> <tr> <td data-bbox="384 880 491 981">4</td> <td data-bbox="491 880 916 981">Metro System Expert (Elec., RS & S&T)</td> <td data-bbox="916 880 1409 981">1.5</td> </tr> <tr> <td data-bbox="384 981 491 1048">5</td> <td data-bbox="491 981 916 1048">Structural Expert</td> <td data-bbox="916 981 1409 1048">1.0</td> </tr> <tr> <td data-bbox="384 1048 491 1149">6</td> <td data-bbox="491 1048 916 1149">Traffic/Transportation Planner/Engineer</td> <td data-bbox="916 1048 1409 1149">2.0</td> </tr> <tr> <td data-bbox="384 1149 491 1216">7</td> <td data-bbox="491 1149 916 1216">Depot/Stabling Expert</td> <td data-bbox="916 1149 1409 1216">1.0</td> </tr> <tr> <td data-bbox="384 1216 491 1283">8</td> <td data-bbox="491 1216 916 1283">Financial/Funding Expert</td> <td data-bbox="916 1216 1409 1283">1.0</td> </tr> <tr> <td data-bbox="384 1283 491 1350">9</td> <td data-bbox="491 1283 916 1350">EIA Expert</td> <td data-bbox="916 1283 1409 1350">2.0</td> </tr> <tr> <td data-bbox="384 1350 491 1417">10</td> <td data-bbox="491 1350 916 1417">SIA Expert</td> <td data-bbox="916 1350 1409 1417">2.0</td> </tr> <tr> <td colspan="2" data-bbox="384 1417 916 1491" style="text-align: center;">Total</td> <td data-bbox="916 1417 1409 1491" style="text-align: center;">13.0</td> </tr> </tbody> </table> <p>In addition to the above list of Key Professionals, the bidder is required to deploy support professional of about 5 years' experience, having expertise of:</p> <ol style="list-style-type: none"> 1. Civil Engineer 2. Architect 3. Geotechnical Engineer 4. MEP Engineer 5. Structural Engineer <p>Other Sub-ordinate Staff for surveying, drafting, clerical work, etc. will also be deployed as required.</p>	S. N.	Key Personnel	Estimated Man-Months	1	Alignment Expert	0.5	2	Geotech/Tunnelling Expert	1.5	3	Tracks Expert	0.5	4	Metro System Expert (Elec., RS & S&T)	1.5	5	Structural Expert	1.0	6	Traffic/Transportation Planner/Engineer	2.0	7	Depot/Stabling Expert	1.0	8	Financial/Funding Expert	1.0	9	EIA Expert	2.0	10	SIA Expert	2.0	Total		13.0
S. N.	Key Personnel	Estimated Man-Months																																			
1	Alignment Expert	0.5																																			
2	Geotech/Tunnelling Expert	1.5																																			
3	Tracks Expert	0.5																																			
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5	Structural Expert	1.0																																			
6	Traffic/Transportation Planner/Engineer	2.0																																			
7	Depot/Stabling Expert	1.0																																			
8	Financial/Funding Expert	1.0																																			
9	EIA Expert	2.0																																			
10	SIA Expert	2.0																																			
Total		13.0																																			
16.2	The format of the Technical Proposal to be submitted is: Full Technical Proposal (FTP)																																				

ITC Clause Reference	Particulars												
17	This is lump sum contract hence reimbursable expenses will not be applicable. However, information to be provided shall only be used to establish payments to the Consultant for possible additional services, if any, requested by MMRC and the Consultant need to provide the information.												
18	Amounts payable by MMRC to the Consultant under the contract will be subject to local taxation: <i>Yes</i> MMRC will reimburse the Consultant, 'GST' paid by the Consultant, as per the applicable law. Consultant, Sub-Consultants, and their Personnel shall pay such taxes, duties, fees, and other impositions as may be levied under the Applicable law, the amount of which is deemed to have been included in the Contract Price.												
18.2 & 18.3	Consultant shall express the price for its Services in INR only. Payment under the Contract shall be made by the Client in the Indian Rupees (INR) only The single currency for price conversions is: <i>Indian Rupees</i>												
23.2	<p>Evaluation system: QCBS (Quality & Cost Based Selection) Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals are:</p> <p>i. Firm Experience</p> <p>Provided that all eligible assignments claimed by the bidder have been substantiated by a completion certificate provided by the employer.</p> <p><u>Eligibility & requisite Experience of Consultant relevant to the assignment:</u></p> <p>A. Minimum 15 years' experience in consultancy services.</p> <p>B1. Minimum 2 nos. of DPR with depot/stabling facilities prepared for metros in India.</p> <p>B2. Out of the aforementioned projects, minimum 1 no. of DPR to be prepared for underground metro (minimum 2.0 km stretch).</p> <p>C. Minimum 1 no. of EIA & SIA Report prepared for metros in India. Report may be a part of the aforementioned projects or otherwise.</p> <p>D. Minimum Average Annual turnover of INR 10 Cr. for at least 3 Financial Years (FY) in the last 5 FY (FY 2016-17, 2018-18, 2018-19, 19-20, 20-21).</p> <p>Marking for 'Pts. B1 & B2' above is as following:</p> <table data-bbox="384 1630 1129 1753"> <tr> <td>2 no. of qualifying projects:</td> <td>70% of max points</td> </tr> <tr> <td>3-5 nos. of qualifying projects:</td> <td>85% of max points</td> </tr> <tr> <td>6 or more nos. of qualifying projects:</td> <td>100% of max points</td> </tr> </table> <p>Marking for 'Pt. C' above is as following:</p> <table data-bbox="384 1843 1129 1966"> <tr> <td>1 no. of qualifying projects:</td> <td>70% of max points</td> </tr> <tr> <td>2-3 nos. of qualifying projects:</td> <td>85% of max points</td> </tr> <tr> <td>4 or more nos. of qualifying projects:</td> <td>100% of max points</td> </tr> </table> <p>Total points for criterion (ii): [40]</p>	2 no. of qualifying projects:	70% of max points	3-5 nos. of qualifying projects:	85% of max points	6 or more nos. of qualifying projects:	100% of max points	1 no. of qualifying projects:	70% of max points	2-3 nos. of qualifying projects:	85% of max points	4 or more nos. of qualifying projects:	100% of max points
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1 no. of qualifying projects:	70% of max points												
2-3 nos. of qualifying projects:	85% of max points												
4 or more nos. of qualifying projects:	100% of max points												

ITC Clause Reference	Particulars				
	<p>ii. Adequacy of the proposed methodology and work plan in responding to the Terms of Reference:</p> <p>a) Understanding Scope of Services b) Approach c) Methodology d) Work Plan/ Activity Schedule and Deliverable e) Organisation Staffing and Manning Schedule</p> <p>Total points for criterion (ii): [10]</p> <p>iii. Key Professional staff qualifications and competence for the assignment:</p>				
	S.N.	Key Personnel	Qualification	Experience	Points
	1	Alignment Expert (Team Leader)	Graduate in Civil Engineering	20 yrs total, 10 yrs in metro rail projects	8
	2	Geotech/Tunnelling Expert [#] (Deputy Team Leader)	Masters in Geotechnical Engineering	15 yrs total, 10 yrs in u/g tunnelling by TBM/NATM	6
	3	Tracks Expert	Graduate in Civil Engineering	15 yrs total, 5 yrs in track design & ballast less track construction	5
	4	Metro System Expert [#] (Elec., RS & S&T)	Graduate in Electronics/ Electrical / Telecommunications / Mechanical or equivalent Engineering	15 yrs total, 7 yrs in Rolling Stock / metro systems	5
	5	Structural Expert	Masters in Structural Engineering	10 yrs total, 5 yrs in u/g construction especially u/g MRTS projects	4
	6	Traffic/Transportation Planner/Engineer	Masters in Transportation Planning / Engineering	10 yrs total, 5 yrs in traffic engineering/ management	4

ITC Clause Reference	Particulars				
	7	Depot/Stabling Expert	Graduate in Electrical / Mechanical Engineering	10 yrs total, 10 yrs in procurement and commissioning of major railcar shed equipment	4
	8	Financial/Funding Expert	MBA / PGDM in Finance	10 yrs total, 5 yrs in rail / metro projects	4
	9	EIA Expert	Masters in Environmental Science / Engineering	15 yrs total, 10 yrs in rail / metro projects	5
	10	SIA Expert	Masters in Anthropology / Social Work /Social Sciences	15 yrs total, 10 yrs in rail / metro projects	5
	Total				50
<p>Note - # implies that more than 1 CV will be considered & average scores of all CVs will be used for final assessment.</p> <p>Points to the Key Professionals will be allotted based on qualification and experience in relevant field. Proportionate marks shall be given based on number of years of experience & number of projects.</p> <p>The weightage of marking for the aforementioned Key Personnel is as follows: a. Educational qualifications - 30% weightage b. Professional experience - 70% weightage</p> <p>Total points for criterion (iii): [50]</p> <p>Total points [(i)+ (ii)+ (iii)]: 100 Points</p> <p><u>For qualifying score under Technical Proposal, a bidder has to score at least 70% in total.</u></p> <p>a) The Team Leader shall be available throughout the consultancy period. However, in absence of team leader, Deputy Team Leader shall act as a Team Leader with prior intimation and approval of MMRC.</p> <p>b) The requirement of Key expertise given above is must. The consultant may include any expert and adjust the man-months associated with the Key Personnel; however, the overall man-months for the project shall not be changed while preparing their financial proposal. The proposed team should be available in Mumbai for the duration assigned to them.</p> <p>c) The support professionals/staff deployment will be as per consultant's discretions. Particulars should be indicated in the prescribed format.</p>					

ITC Clause Reference	Particulars
24.6	<p>The lowest evaluated Financial Proposal (Fm) is given the maximum financial score (Sf) of 100.</p> <p>The formula for determining the financial scores is the following: $Sf = 100 \times Fm / F$, in which Sf is the financial score, Fm is the lowest price and F the price of the proposal under consideration.</p> <p>The weights given to the Technical and Financial Proposals are: T = 0.8 and F = 0.2</p>
25	<p>Expected date and address for contract negotiations: Date of negotiation meeting will be intimated later.</p> <p>Address: MMRCL Office, Hallmark Business Plaza, 8th Floor, Sant Dnyaneshwar Nagar, Bandra East, Mumbai, Maharashtra 400051.</p>
30.2	<p>Expected date for commencement of consulting services</p> <p>Date: September 2022 At: Mumbai</p>

SECTION 3: Terms of Reference (TOR)

Scope of Services

The services to be rendered under the proposed DPR to include, but not limited to:

PART I - DETAILED PROJECT REPORT (DPR)

A. Collection of Primary & Secondary Data

To collect and evaluate existing baseline data, reports, plans, studies, and other relevant information available with MMRC and in the public domain related to the extension works. This will assemble and catalogue existing reports and documents comprising previous studies, on-going projects and other documents containing information covering the study area relevant for the project.

A1. Collection of Relevant Documents and Maps

All relevant documents prepared for areas adjacent to Navy Nagar that relate to existing land use and transport characteristics, as well as future growth strategy plans to be reviewed.

The uses would include key drivers of transit:

- Employment centers (commercial office hubs/retail centers/high-tech industrial);
- High density residential areas;
- Universities and colleges;
- Health campuses;
- Civic, sporting, entertainment and tourist hubs and locations;
- Existing major transport hubs including bus stations, etc.

These uses are to be mapped and relevant Census 2011 information on population and employment to be obtained to assist with the assessment of current and future characteristics. The strategic plans for the growth and expansion, including the development of new areas to be reviewed in terms of their ability to influence the demand for the future metro route.

Based on this initial review, key data gaps to be identified with recommendations on additional data necessary for the project.

A2. Review of Other Studies

Planning of a high-capacity Mass Transit system needs access to information related to:

- The essential characteristics of existing travel demand, i.e., travel pattern within the immediate project influence area and its interaction with area outside.
- The supply, i.e., operational characteristics, costs, performance, regulation, and utilization of the existing transport services.
- Population and socio-economic characteristics (employment by zone, residential workers, vehicle ownership, etc.).
- Current and likely land use patterns.
- Planned transport investments, policy changes and other government actions their implementation status and expected investment or implementation costs.
- Funding sources and expected amounts available for transport improvements.

Review of all available studies related to the proposed study area including Comprehensive Mobility Plan for Greater Mumbai, Comprehensive Transport Study for MMR, connectivity proposed to Shiv Smarak, proposed Backbay reclamation for City Park, proposed Ro-Ro services, Coastal Road project, etc. to be examined to understand the issues and possible solutions for transportation.

A3. Identification of Data Gaps

For development and use in transportation demand model, input data will be required to describe:

- Locations and configurations of existing and future transport networks and services,
- Operating characteristics (travel times and costs) of existing transport networks and services,
- Traffic usage characteristics of existing transport networks and services,
- Residential population by Traffic Analysis Zone (TAZ) and their socio-economic characteristics for the base year and forecasts of such variables for the specified future target years, and
- Types and intensities of existing and forecasted land use activities by location

Under this task, the data requirement will be determined through the following process:

- Identifying data requirements (described above) and likely data sources,
- Appraising the suitability and availability of the existing data,
- Identifying additional data requirements, and
- Developing a program for obtaining the additional data.

Based on the data requirements and the available information, additional data to be obtained from primary surveys or other data collection activities to be identified. A detailed methodology of conducting primary surveys to be included.

B. Topographic & Geo-technical Engineering Surveys/Field Investigations

B1. Topographic Survey

To carry out the required physical and topographical survey for finalized alignment. Topographic survey to map all key features including buildings and properties along the selected alignment. Details like roads, streams, culverts, pipeline, electric cables, etc. to be captured in this survey. The results of the topographic survey to be presented in a digital format so that they can be used by GIS and CAD systems such as AutoCAD or MX-Rail. The survey maps to be prepared for laying out the alignment for the system. Details regarding the identification of utilities to fill in the data gaps in the survey information to be collected from respective department. The survey plans to be prepared at appropriate scale and the alignment to be marked. The same to be used for assessing land reservation requirement for project implementation.

B2. Geo-technical Investigations

The objective of geotechnical investigation is to have sufficient data on the sub-soil, covering sufficient depth below ground level so that data is readily available for the detailed design of the structures/facilities and also to adopt proper and safe methodology for construction and to ensure least possible damage to existing structures and dislocation of existing services. Bore holes to be carried out for the finalized alignment including station and stabling facilities.

- To supervise the field investigations and laboratory tests to be carried out by the agency.
- To prepare the specifications for conducting sub soil investigations for the alignment & station.
- To specify the extent of boring/drilling required; size of the boring; frequency of sampling/ core recovery and the tests to be conducted on the samples.
- To prepare the reporting guidelines for the compilation of the test results.

C. Alignment Profile and Engineering Feasibility: Civil/Systems Components

Alignment of extension from Cuffe Parade station upto TIFR passing through Vijay Chowk is approved by GoM. However, to determine the appropriate design standards for the alignment, to reduce the impact on surrounding developments and to minimize land acquisition and rehabilitation & resettlement (R&R) component to be prioritized in terms of:

C1. Alignment Profile

To optimize position of Navy Nagar station to best fit in with the existing infrastructure, including allowing space for the entrances. The optimization exercise will involve on-site inspections and surveys and will include allowances for the space for construction exercises for the deep excavations necessary for the station, entry/exits and ancillary buildings.

The station will be planned to be within existing roads as much as possible to avoid impacts on adjacent buildings and the planning for the construction of the station will be such that necessary traffic movements are maintained by using temporary decking and other arrangements.

With the station position finalized, the main alignment can be planned to connect to the existing overrun tunnels from Cuffe Parade station with the key consideration being to minimize the length of tunnels underneath existing buildings.

C2. Maps for Land Acquisition

Subject to the assessment of options, an optimal/preferred land acquisition plan to be prepared. It will take into account the following considerations:

- Agreed corridor widths to enable the construction of the metro line
- Agreed site areas for station and associated transport interchanges (for bus and taxi, as well as kiss-and-ride (as appropriate)
- Operational access requirements for stabling area

Temporary construction sites having adequate land for storage of materials and construction machinery to be identified. Time schedule to be derived for the same. Permanent land requirement to be kept at a minimum.

D. Travel Demand Forecast & Ridership Estimation for extension & revalidation of entire alignment

D1. Appraisal Of Study Area and Existing Transportation Scenario

Study influence area to be delineated based on various influencing factors like land use, employment, densities, etc. A detailed appraisal of study area to be carried out in order to assess the current demand for proposed transport facility and the potential for future development leading to increased demand.

D2. Primary Data Collection

A number of traffic and transportation surveys are required to be carried out in order to establish the baseline data for future transport demand. Survey locations to be finalized in a way so that maximum transport demand can be captured. To update data and travel characteristics collected part of secondary data by conducting focused traffic and travel pattern surveys. A data collection program to be prepared and necessary surveys to be carried out. The information obtained from this data collection program to be tabulated, analyzed, and used for validation of travel demand forecasting models.

D3. Finalization of Survey Locations

The traffic and transportation surveys will be location specific in order to capture maximum travel demand. The survey locations will be finalized in consultation with MMRC.

D4. Primary Surveys

Traffic surveys to be conducted, but not limited to, are listed as under:

- a. Vehicular Traffic Volume Count Survey
- b. Turning Movement Counts at Intersections
- c. Travel Time Survey
- d. Trip Generation Survey
- e. Transit Oriented Survey (Fare Structure survey, Bus Route Survey, Occupancy Survey, Transfer Survey)
- f. Origin Destination Survey
- g. Household Survey
- h. Workplace Survey
- i. Public Transport/IPT Commuter Travel Characteristics Survey

D5. Data Analysis

Analysis of Primary Data

The field data collected to be analyzed using appropriate software to obtain the base year travel data. The base year data will be analyzed to provide the planning, transport and land use information, trip and summaries, travel time matrix and traffic and travel reports that form the basis for model development/calibration.

D6. Constitute Travel Demand Model

Travel Demand Model is to be updated for entire MML-3 alignment and proposed extension works considering latest available data. This model should incorporate impact of other transport networks in the city.

This involves selection, conceptualization, calibration and validation of travel demand model at the aggregate and disaggregate levels using the transport database developed for the base year.

The calibration process to develop the mathematical relationships and quantify calibration coefficients needed to effectively predict the demand for travel and its flow over the network. This calibration will be carried out for each of the elements of the transport model which include:

- Trip Generation - the decision of trip-makers to make trips for a given purpose;
- Trip Distribution – the choice of trip destination;
- Model Choice – the choice of travel mode, and
- Traffic Assignment – the choice of travel route (path) over the transport network.

The results obtained from the household surveys, roadside interview surveys, traffic counts, workplace surveys combined with land use and socio-economic data aggregated to the TAZ level to provide the basis for analysis and development of these components of travel demand – trip generation, distribution, and modal choice.

D7. Preparation of Base Year Transport Network

To prepare a base year network for travel demand modelling.

D8. Preparation of Base Year Land Use and Socio-Economic Data

In order to understand and estimate trip generation, collection of socio-economic data such as population and employment by each TAZ is required. Base year data to be collected from various sources such as previous study reports, Census 2011 documents and Master Plans.

D9. Travel Demand Forecast

Parameters /variables used to calibrate the demand model to be forecasted for horizon years at an interval of 10 years in line with existing MML-3 data. This is done to estimate the travel demand and ridership estimation for Navy Nagar extension and resultant impact on remaining stations of MML-3.

The output of the analysis would be hourly boarding & alighting figures for Navy Nagar station and revision for remaining stations which then is to be used to update the forecast sectional travel demand figures for the extended MML-3.

E. Multi Modal & Traffic Integration and Barrier-Free Design

E1. Multi Modal & Traffic Integration

The entry/exits of Navy Nagar station will be the key element for successful integration with other public transportation modes, pedestrian access, and drop-off facilities. Accordingly, to undertake the following:

- a. Study and propose seamless connections, at station, with other modes of transport i.e., other metro lines, monorail, suburban/main-line railway, buses, etc.
- b. Systematically and carefully review the station entry/exit locations and suggest most appropriate integration solution including total integration with surrounding developments.
- c. Configure pedestrian facilities in such a manner to minimize the vehicle pedestrian conflicts as far as possible.
- d. Analyze the modal split of dispersing traffic and prioritize the modes so that the facilities can be provided based on the priority and space availability.
- e. Identify and propose dedicated spaces for 2/3-wheelers (bikes, cycles, IPT), taxi, traffic flow, waiting areas, flow segregation inside and around the stations putting more emphasis on pedestrianization and non-motorized transport in the immediate vicinity of the station.
- f. Identify possible public car parking schemes in the station influence zone.

E2. Station Area Traffic Improvement Schemes (SATIS)

To enhance the system attractiveness for commuters, the following aspects are important:

- Station design in terms of functional performance and locations of entry/exits.
- Convenient station access in terms of safety and ease for all commuters.

The Navy Nagar station entry/exit areas and integration will be planned and outlined keeping in mind the following objectives:

- Efficient Multi Modal integration with other modes (monorail, metro, suburban rail, buses, bicycles, etc.)
- Station Entry/Exits to be easy to identify and access (including universal design and barrier-free design),

- Pedestrian traffic in the Station area

For safe movement of pedestrian traffic in and out of the stations, pedestrian crossing proposals to be framed, which can be at-grade or grade-separated crossing:

- Pedestrian underpasses
- Foot over bridges
- Strategically located bus stops to minimize pedestrian trip lengths to the metro station

- Vehicles traffic in Station area

To propose for smooth and safe circulation of vehicles around the stations through:

- Dedicated area for pick-up/drop-off by private vehicles
- Dedicated bays/drop-off areas for public transport and IPT (buses, rickshaw, taxis)
- Park-and-ride facility to allow commuters to park their vehicles (cars, bikes, bicycles) and commute by metro.

E3. Universal & Barrier-Free Design

To encourage ridership of the metro, the station entry/exits will have to be easily reachable by all, regardless of their age and ability. ‘Harmonized Guidelines and Standards for Universal Accessibility in India 2021’ published by Central Public Works Department (CPWD) to be followed to ensure Barrier-Free Built Environment for Persons with Disability and Elderly Persons.

- Provision to be made at each station for lifts, escalators, ramps, tactile on the floor, dedicated visual/ audio/ information, and other tools for old or disabled people.
- In the catchment area of the stations, refurbishment of sidewalks to be proposed wherever they are not good enough for commuters safe walking. Emphasis to ensure that no utilities, electric poles, trees, telephone junction boxes, etc. create hindrance on sidewalks.
- For easy understanding & quick dispersal of traffic and pedestrians, traffic signs will be proposed at appropriate locations.
- For safety purpose, proper lighting facilities will also be proposed as per the norms.

E4. Comprehensive Transit Oriented Development (TOD) Strategy

The potential for Transit Oriented Development along the Mass Rapid Transit corridors based on the guidelines will be developed including densification of corridor by increasing FSI and land value capture as per the guidelines. Guiding list of lands/areas amenable for change in near future e.g., vacant land, low rise development relocation etc., use type.

The review of TOD opportunities to be based around:

- a. Government-owned sites, and
- b. Large privately-owned sites along the route of the transit network, and at potential station site.

Furthermore, land required for acquisition of temporary construction will provide opportunities for TOD projects, subject to their size and location. Potential TOD sites to be identified, with an overlay of government-owned sites and large private sites for the purpose of identifying potential project sites that could assist with generating fare activity, as well as generating additional land value uplift revenue.

To devise a TOD Implementation Strategy that will outline the following:

- a. Key initiatives (as per land use mix, Operations, etc.)
- b. Primary & Secondary stages
- c. Action steps
- d. Implementing Agencies
- e. Priority

To identify underutilized areas wherein increased development density would assist in increasing population or employment levels leading to increase in metro ridership.

E5. Non-Fare Box Revenue (NFBR) Sources

Station plans to be prepared for maximizing NFBR potential including Advertising, Retail, Systems Assets among other NFBR possibilities. Report to cover benchmarking study, technical feasibility and requirements.

F. Detailing of the Selected System & Miscellaneous Works

F1. Station Design

Architecture of the station is important as it has a significant effect in encouraging ridership. Design of the station should be such that it provides adequate space for the safe movement of passengers from street level to the trains, in the most direct and logical way.

Designs and layouts need to be designed keeping in mind the following guiding principles:

- Circulation, user defined and clear;
- Safety, intrinsic and emergency;
- Security, actual and perceived;
- Comfort, amenities and environment;
- Material, robust and low maintenance;
- Adaptability, variation to station type;
- Concession, to maximize station revenue;
- Compatibility with other MML-3 stations;
- Multi Modal Integration;
- Facilities for the Persons with Disabilities.

F2. Construction Methodology

- To recommend appropriate methodology for tunnel & station construction as NATM or Cut-and-Cover box using the bottom-up or top-down cast in situ concrete structure method.
- Preparation of alternative options for stabling & maintenance facilities in consultation with MMRC. To locate stabling facilities at suitable location and prepare preliminary engineering design and layout with required maintenance facilities as per recommended schedules of rolling stock maintenance, ensuring reasonable cost estimates including outline of construction methodology.
- Facilities for maintenance of Track, OHE Signalling & Communication, AFC, Station Services, Ventilation and Air conditioning, Lighting, Firefighting, Evacuation system, Operation Control Centre, etc. to be provided.
- It is essential to revisit the earlier layout of MML-3 Depot (planned earlier in 25 ha land) to cater upto 42 trains required till the year 2031. However, stabling lines to be optimized for 55 trains required till the year 2053 for existing MML-3 operations in addition to the requirements for extension works.
- Systems works and technology selection that are finalized for MML-3 to be adopted for extension works. To this extent, amendments to be made in the ongoing (civil and systems) works of MML-3 shall be advised, if any. Any compatibility issues to be clearly identified.
- Preparation of station location and general layout plans, covering all facilities including stabling & maintenance facilities.

F3. Operation Plan

To carry out System operation approach, operation plan including system frequency, timetabling, rolling stock requirement, stabling details. The MML-3 Train Operation Plan will be updated for various horizon years including rakes requirement.

F4. Project Implementation Schedule

To prepare time schedule for implementation and any contingency plan for achieving early RoD. Further, update existing train operation plan for various horizon years including rakes requirement.

To prepare staged plan for making the extension works operational.

G. Cost Estimates, Economic and Financial Analysis

G1. Capital Cost Estimates

To prepare capital cost estimates of extension works and update cost estimates of existing works to enable a reasoned decision for implementation of the extension. The already awarded MML-3 contracts to be used for deriving the rates for cost estimates. Requirement of additional Rolling Stock, if any, to be considered. Appropriate level of contingency to be applied to the key units while developing the cost estimates.

To make estimates of the cost of various components. These items and sub-components forming the overall metro system need to be considered as a whole.

To revise the main cost components of entire MML-3 line, but not limited to, including:

- a. **Civil Works:** Construction of tunnels, station and stabling facilities considering extension of existing MML-3 alignment.
- b. **Construction Supervision and Project Management expenses.**
- c. **System Works:** Make rational assumptions about the System works including a range of services frequencies, operational methods.
- d. **Rolling Stock & other equipment:** Assess rake requirements and the likely range of types of equipment needed to meet the implications arising from these assumptions. Derive unit estimates (modules) for each of the identified types of equipment.
- e. **Land Acquisition & R&R components:** Land (GoI / GoM / private holding) acquisition and corresponding R&R cost components.
- f. **Taxes & Duties**

G2. Operations and Maintenance Cost Estimates

To revise the operation and maintenance cost estimates for following components, but not limited to:

- Maintenance Costs
 - Rolling Stock including Refurbishment
 - Tunnels
 - Tracks / Walkway / Permanent Way
 - Power Supply, OHE, TVS, Lifts/Escalators
 - Signalling
 - Automatic Fare Collection & Station Services
 - All Civil assets including station & ancillary buildings
 - All assets within Depot
 - Taxes & Duties
- Staff Costs
- Energy Costs
 - Traction
 - Building Services
 - Depot, etc.
- General Running Costs
 - Insurance
 - Cash handling & Counting
 - Miscellaneous Running Costs
 - Contingency
 - Escalation, etc.

G3. Financial Viability Analysis

The objective of financial viability analysis is to undertake study of financial framework considering the extant funding pattern, identify cost recovery method, study loan repayment plans and its implications, and evaluate the viability of the investment in terms of Financial Internal Rate of Return (FIRR). The viability of MML-3 has already been established within MML-3 DPR and this assignment would update the FIRR for entire Line after inclusion of the impacts of the extension works.

G4. Economic Analysis

The objective of economic evaluation is to determine the feasibility of the proposed project in terms of the benefits likely to accrue to the economy as a whole, thereby justifying its implementation based on profit to the nation / economy.

Economic appraisal of MML-3 project has been carried out within the broad framework of social cost-benefit analysis in the MML-3 DPR. Social cost-benefit analysis attempts to appraise the social worth of the project by comparing the value of the resources to be employed in the project with the benefits derived by the society as a whole. Accordingly, Economic Internal Rate of Return (EIRR) to be evaluated for the entire MML-3 alignment including extension works.

G5. Sensitivity Analysis

Results of the sensitivity analysis to be summarized in terms of sensitivity indicators. In addition, switching values to be worked out which show the percentage change in each variable for the project decision to change, i.e., the extent to which the benefits need to decrease and / or costs need to increase in order to maintain EIRR at the level of accounting rate of return.

H. Miscellaneous Works

- Address security related issues in line with guidelines/directions of the MoHUA, GoI & MoD (Navy).
- ‘Guidelines for Preparation of Detailed Project Reports’ issued by MoHUA will be used to the extent applicable.
- Within the overall framework as indicated above, recommendations for improving the project viability, acceptability, constructability, and operational efficiency to provide better quality of service to be suggested.

H1. Co-ordination with WNC

- To facilitate conduct of various Engineering, Land and other surveys in Navy Nagar.
- To assist MMRC in transfer process of Defence land for implementation of extension works.

H2. Miscellaneous Surveys

Other surveys/data collection required include the following:

- Utility Surveys:** To conduct utility surveys by digging test pits at appropriate locations to avoid conflicts with existing utilities.
- Land Records Collection:** To collect land ownership details in form of maps from Revenue Department. These will be used for preparing land schedules and land acquisition plans.
- Existing Building Structures Inspection:** To inspect all building structures impacted by the extension and provide preliminary condition and impact categorizations for each structure.
- Traffic Study & Temporary Traffic Management Schemes:** A traffic study in Colaba is to be conducted, since it is high density locality which may result in increased traffic in that area.

Further, to accommodate construction works, particularly deep excavations, temporary traffic management schemes to be suggested for pedestrian and vehicular traffic. These will identify anticipated diversions, restrictions & the need for temporary traffic & construction area decks.

The aim of the traffic management measures is to relieve, wherever possible, or minimize the (short term) disruption to normal traffic likely to be caused by the metro construction works. The traffic management measures would need to cope, in safety, with all aspects of traffic, including those generated from:

- Goods vehicles
- Public transport
- Essential services
- Pedestrian movement
- Local and through private traffic

The organization of traffic during construction activities to be planned considering the long-term strategic traffic plans provided under CMP.

PART II - DETAILED ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT

I. Environment Impact Assessment (EIA)

- i. 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 JICA guidelines for environmental and social considerations.
- ii. 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.
- 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.
- iv. Description of the Environment:
 - (a) Physical environment: geology; topography; soils; 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.
 - (b) Biological environment: flora; 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 to be cut: height, diameter, 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 rivers/creeks likely to be affected, measurement of water quality (e.g., Temperature, pH, electrical conductivity, DO, SS, BOD, COD etc.) in the identified rivers/creeks 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.
- xiv. 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.
- xv. Assist in coordinating the environmental assessment with other government agencies, in obtaining the views of local NGO's and affected groups.
- xvi. Disaster Management Plan to be prepared.

J. Social Impact Assessment (SIA) and Resettlement & Rehabilitation Plan (RRP)

- i. Description of the project.
- ii. Institutional framework covering the identification of agencies responsible for resettlement activities and NGOs that may have a role in project implementation.
- iii. Eligibility: Definition of displaced persons and criteria for determining their eligibility for compensation and other resettlement assistance, including relevant cut-off dates.
- iv. Gathering of baseline information on the demographic, social, cultural and political characteristic of the affected people communities through Baseline Socio-Economic Survey (BSES), the land and territories that they have traditionally owned or customarily used or occupied and natural resources on which they depend.
- v. A summary of the social assessment including a census survey covering current occupants of the affected area, standard characteristic of displaced households, the magnitude of the expected loss of assets (fully/partially), and information on vulnerable groups or persons.
- vi. Resettlement measures including entitlement matrix: A description of the packages of compensation and other resettlement measures that will assist each category of eligible displaced persons.
- vii. A summary of the results of the free, prior and informed consultation with the affected people communities that was carried out during project preparation and that led to broad community support for the project.
- viii. A framework for ensuring free, prior and informed consultation with the affected people, communities during the period of implementation.
- ix. The cost estimates and financing plan for the RRP.
 - x. An implementation schedule covering all resettlement activities from preparation through implementation, including target dates for the achievement of expected benefits to re-settlers and terminating the various forms of assistance.
 - xi. Accessible procedures appropriate to the project to address grievances by the affected People's communities arising from implementation. When designing the grievance procedures, take into account the judicial recourse and customary dispute settlement mechanisms among the affected people.
 - xii. Mechanisms and benchmarks appropriate to the project for monitoring, evaluating and reporting on the implementation of the resettlement and rehabilitation plan including external monitoring conducted by independent experts. The monitoring and evaluation mechanisms should include arrangements for the free, prior and informed consultations with the affected people communities.
 - xiii. The Public Consultation Meetings (PCM): Assist client in conducting the PCMs for RRP in compliance with JICA Guidelines.

List of Deliverables & Schedule of Payment

The total duration of the assignment shall be 32 weeks (8 months), extendable to a period depending upon MMRC's discretion and mutual consensus. The Consultant shall deliver the following deliverables (the "Deliverables") during the course of this Consultancy. Time schedule for important Deliverables of the Consultancy and the Payment Schedule linked to the specified Deliverables is as below:

S. N.	Study Output/Deliverable	Payment (%)	Submission Timeline from Date of Award
STAGE – IA – DETAILED PROJECT REPORT			
1	Inception Report	10%	2 weeks
2	Traffic Demand Model and Analysis Report	20%	6 weeks
3	Detailed Utility Surveys Report & Temporary Traffic Management Schemes	5%	12 weeks
4	Land Record & Existing Building Structure Inspection Report	5%	12 weeks
5	Draft DPR	25%	22 weeks
6	Final DPR	10%	2 weeks after receiving the comments on Draft DPR
STAGE – II - DETAILED ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT			
7	Field Data Report including BSES Report	5%	24 weeks
8	Draft EIA, ESMP, SIA, RAP and GAP Report	10%	28 weeks
9	Final EIA, ESMP, SIA, RAP and GAP Report	10%	32 weeks

Table 4: Deliverables & Payment Schedule

SECTION 4: Bidding Forms

Form TECH 1: Technical Proposal Submission Form (e-Envelope 'B')

Mr R. Ramana
Executive Director (Planning)
MMRCL, 2nd floor,
Hallmark Plaza, Sant Dyaneshwar Nagar,
Bandra (East)
Mumbai-400 051

Sub: RFP for Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar

Dear Sir:

We, the undersigned, offer to provide the consulting services towards preparing **Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar** in accordance with your Request for Proposals dated *[Insert Date]*.

{If the Consultant is a joint venture, insert the following: We are submitting our Proposal a joint venture with: {Insert a list with full name and the legal address of each member, and indicate the lead member}. We have attached a copy {insert: "of our letter of intent to form a joint venture" or, if a JV is already formed, "of the JV agreement"} signed by every participating member, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture.

We hereby declare that:

- (a) All the information and statements made in this Proposal are true and we accept that any misinterpretation or misrepresentation contained in this Proposal may lead to our disqualification by the Client.
- (b) Our Proposal shall be valid and remain binding upon us for the period of time specified in the Data Sheet,
- (c) We have no conflict of interest in accordance with ITC 3.
We confirm our understanding of our obligation to abide in this regard to corrupt and fraudulent practices as per ITC 5.
- (d) We undertake to negotiate a Contract on the basis of the proposed Key Experts. We accept that the substitution of Key Experts shall not be proposed as stated in ITC Clause 10 and ITC Clause 27 may lead to the termination of Contract negotiations.
- (e) Our Proposal is binding upon us and subject to any modifications resulting from the Contract negotiations.

We undertake, if our Proposal is accepted and the Contract is signed, to initiate the Services related to the assignment no later than the date indicated in the Data Sheet.

We understand that the Client is not bound to accept any Proposal that the Client receives.

We remain,

Yours sincerely,

Authorized Signature {In full and initials}: _____
Name and Title of Signatory: _____

Name of Consultant (company's name or JV's name):

In the capacity of: _____

Address: _____

Contact information (phone and e-mail): _____

{For a joint venture, either all members shall sign or only the lead member, in which case the power of attorney to sign on behalf of all members shall be attached}

Form TECH 2: Consultant’s Experience under Eligibility Criteria (e-Envelope ‘B’)

[Using the format below, provide information on each assignment under eligibility criteria for which your firm was legally contracted, for carrying out consulting services requested under Clause 6 in section 2 ITC]

Assignment name:	Approx. value of the contract (in current INR):
Country: Location within country:	Duration of assignment (months):
Name of Employer and Contact Details:	Total No of staff-months of the assignment:
Address:	Approx. value of the services provided by your firm under the contract (in current INR):
Start date (month/year): Completion date (month/year):	No of professional staff-months provided by associated Consultants:
Narrative description of Project:	
Description of actual services provided by your staff within the assignment:	

Firm’s Name:

1. Proof of Consultant’s Experience in the form of Completion Certificate/work done certificate from client (issued by an officer not below the rank of Executive Engineer or equivalent of the client) or document establishing at least 90% of total payment done and certified by the auditor or any document that establishes that such assignment has been accepted by the employer.
2. Copy of Contract/work orders indicating the details of completed assignments and previous clients etc.

Form TECH-3: Description of Understanding of Scope of Services, Approach, Methodology and Work Plan/ Activity Schedule for performing the assignment (e-Envelope ‘B’)

Technical approach, methodology, and work plan are key components of the technical proposal. You are suggested to present your Technical Proposal (05 pages, inclusive of chart and diagrams):

- a) *Understanding of Scope of Services;*
- b) *Approach;*
- c) *Methodology;*
- d) *Work Plan/ Activity Schedule; and deliverables*
- e) *Organisation & Staffing and Staffing Schedule*

a) *Understanding of Scope of Services.* *In this chapter you should explain your understanding of the objectives of the assignment and scope of services.*

b) *Approach.* *In this chapter you should explain your approach to the services for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them.*

c) *Methodology.* *In this chapter you should explain your Methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.*

d) *Work Plan/Activity Schedule.* *In this chapter you should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Employer), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here. The work plan/ Activity Schedule should be consistent with the Work Schedule/ Activity Schedule of Form TECH-7.*

e) *Organisation & Staffing and Staffing Schedule.* *In this chapter you should propose the structure and composition of your team. You should list the main disciplines of the assignment, the key expert responsible, and proposed technical and support staff. Present the manning schedule for Key Personnel and Support Personnel as per the understanding on the scope of services, approach and methodology. The Staffing Schedule should be consistent with the Staffing Schedule of Form TECH-6.*

Form TECH-4: Team Composition and Task Assignments (e-Envelope 'B')

Sr No	Proposed Key Professional Staff				
	Name of Staff	Firm	Area of Expertise	Position Assigned	Task Assigned
1					
2					
N					
Sr No	Proposed Support Professional				
1					
2					
n					
Sr No	Other Support Staff				
1					
2					
n					

Form TECH-5: Curriculum Vitae (CV) for Proposed Professional Staff (e-Envelope 'B')

1. **Proposed Position** [*only one candidate shall be nominated for each position*]:

2. **Name of Firm** [*Insert name of firm proposing the staff*]:

3. **Name of Staff** [*Insert full name*]:

4. **Years with the Firm:**

5. **Present Position in the Firm:**

6. **Date of Birth:** _____ **Nationality:**

7. **Education** [*Indicate college/university and other specialised education of staff member, giving names of institutions, degrees obtained, and dates of obtainment*]:

8. **Overall Experience (years and months):**

9. **Relevant Experience as per employment record (years and months):**

10. **Membership in Professional Societies:** _____

11. **Other Training** [*Indicate significant training since degrees under 7 - Education were obtained*]: _____

12. **Countries of Work Experience:** [*List countries where staff has worked in the last ten years*]: _____

13. **Languages** [*For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing*]:

14. **Employment Record** [*Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organisation, positions held.*]:

From [Year]: _____ To [Year]: _____ Employer: _____ Positions held: _____

<p>15. Detailed Tasks Assigned</p> <p><i>[List all tasks to be performed under this assignment]</i></p>	<p>16. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned (Key Qualifications)</p> <p><i>[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 15.]</i></p> <p>Name of assignment or project: _____</p> <p>Year: _____</p> <p>Location: _____</p> <p>Employer: _____</p> <p>Main project features: _____</p>
----------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

17. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: _____

[Signature of staff member] Day/Month/Year

Full name of staff: _____

Date: _____

[Signature of authorised representative of the firm] Day/Month/Year


Full name of authorised representative of the firm: _____


Note: CV of each individual (clearly stating tenure of the Key Personnel working with the current firm) should be signed by the respective staff member along with the date and endorsed by the authorized representative of the firm.

FormTECH-6: Staffing Schedule (e-Envelope ‘B’)

	Name of Staff & Position	Staff input in month (in the form of a bar chart)										Total staff input month
		1	2	3	4	5	6	7	8	9	10	
Key Professionals												
1												
2												
3												
N												
Sub-total												
Support Professionals												
1												
2												
n												
Sub-total												
Other Support Staff												
1												
2												
n												
Sub-total												
Total												

- 1 For Key Professional Staff (local & foreign) and Support Professional staff, the input should be indicated individually; for other Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, surveying, liasoning etc.).
- 2 Months are counted from the start of the assignment.

 Full time input

 Part time input

Form TECH-7: Work Schedule/ Activity Schedule (e-Envelope ‘B’)

Activity Schedule

No	Activity ¹	Months ²									
		1	2	3	4	5	6	7	8	9	10
1											
2											
3											
4											
5											
n											

- 1 Indicate all main activities of the assignment, including delivery of reports (e.g.: inception, interim, and final reports), and other benchmarks such as Employer approvals. For phased assignments indicate activities, delivery of reports, and benchmarks separately for each phase.
- 2 Duration of activities shall be indicated in the form of a bar chart.

Completion and Submission of Reports/ Deliverables (as per ToR) (e-Envelope ‘B’)

Report No.	Description of the Deliverable	Months from effective date of the study	No of physical & Soft Copies
1-1			
1-2			
1-3			
1-4			
1-5			
1-6			
1-7			
-			
-			
-			
-			

Checklist for Technical Proposal (e-Envelope 'B')

Sr. No	Particulars	Description	Yes/No
1	Receipt for Cost of Tender Document	Scanned copy of the receipt	Yes/No
2	Certificate of Incorporation	Copy of Certificate of Incorporation/Registration	Yes/No
3	PAN Card	Copy of PAN Card	Yes/No
4	GST Registration	Copy of GST Registration	Yes/No
5	MSME Registration	Copy of MSME Registration if any	Yes/No
6	Turnover Details	Annual Turnover Certificates from all types of engineering consultancy works including urban infrastructure, metros, building construction issued by CA & audited P&L account and balance sheet for at least 3 Financial Years (FY) in the last 5 FY (FY 2016-17, 2018-18, 2018-19, 19-20, 20-21).	Yes/No
7	Partnership details	Copy of valid partnership deed, if any, should be attached along with the technical proposal and Power of Attorney to sign on behalf of both members.	Yes/No
8	The Bidder must not be debarred/ blacklisted by any Government body/PSU in India as on date of submission of the Bid.	An undertaking stating that firm/organization is not blacklisted by Government or its agencies including Central/State Level Public Enterprises.	Yes/No
9	Non-Disclosure Agreement	A Certificate regarding non-disclosure/sharing of confidential information with third parties.	Yes/No
10	Indulgement in litigation	An affidavit stating the firm is not indulged in any litigation or legal issues going on in any of the judiciary body in the country	Yes/No
11	Authorized signatory	Authority letter clearly mentioning details of authorized representative of the Agency to execute the contract formalities should be attached along with technical proposal.	Yes/No
12	Firm's Experience	Copy of Contract/work orders indicating the details of previous assignment, client etc. The Competent authority of the Consulting firm shall self-certify if the firm has done assignments on non-disclosure agreements.	Yes/No

Sr. No	Particulars	Description	Yes/No
13	Unconditional offer & list of documents	Covering letter declaring the offer to be unconditional and a list of all the documents submitting along with the Bid.	Yes/No
14	Technical Proposal Submission form	Form TECH 1 of RFP	Mandatory
15	Consultant's Experience under Eligibility Criteria under ITC Clause 6	Form TECH 2 of RFP	Mandatory
16	Description of Understanding of Scope of Services, Approach, Methodology and Work Plan/ Activity Schedule for performing the assignment	Form TECH-3 of RFP	Mandatory
17	Team Composition and Task Assignments	Form TECH-4 of RFP	Mandatory
18	Curriculum Vitae (CV) for Proposed Professional Staff	Form TECH-5 of RFP	Mandatory
19	Staffing Schedule	Form TECH-6 of RFP	Mandatory
20	Work Schedule/ Activity Schedule	Form TECH-7 of RFP	Mandatory

Form FIN-1: Financial Proposal Submission Form (e-Envelope ‘C’)

[Submission of Financial proposal should be done in formats available on the portal. The information in brackets [] should not appear in the Financial Proposals to be submitted. Financial Proposal Standard Form in excel and PDF format shall be used for the preparation of the Financial Proposal according to the instructions provided under Section 2.]

[Location, Date]

To:

Dear Sirs:

We, the undersigned, offer to provide the consulting services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Technical Proposal. Our attached Financial Proposal for Direct pedestrian subway connection to MML-3 Station is [Insert amount(s) in words and figures¹]. This amount is exclusive of all the local taxes, duties & GST. {Please note that all amounts shall be the same as in Form FIN-2 & 3}.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e. before the date indicated in the Data Sheet.

Yours sincerely,

Authorized Signature [In full and initials]: _____

Name and Title of Signatory: _____

Name of Firm: _____

Address: _____

{For a joint venture, either both members shall sign or only the lead member/consultant, in which case the power of attorney to sign on behalf of both members shall be attached}

1 Amounts must coincide with the ones indicated under Total Cost of Financial proposal in Form FIN-2 & 3.

Form FIN-2: Breakdown of Staff-Month Cost (e-Envelope ‘C’)

[Submission of Financial proposal should be done in formats available on the portal. The information in brackets [] should not appear in the Financial Proposals to be submitted. Financial Proposal Standard Form in excel & PDF format shall be used for the preparation of the Financial Proposal according to the instructions provided under Section 2.]

Sl. No.	Name	Position	Man-moth Rate	Total Person Month	Total Amount (Rs.)
Key Professional					
1					
2					
3					
	Sub-Total				
Support Professional					
1					
2					
Support staff					
1					
2					
3					
	Sub-Total				
	TOTAL in Rupees (excluding GST)				
Applicable GST Rate					_____ %
Total in Rupees (including GST)					

- 1 Form FIN-2 shall be filled in for the same Professional (Key Professionals and Support Professionals) and Support Staff listed in Form TECH-6.
- 2 Key Professional Staff (Foreign & Local) and Support Professionals should be indicated individually; Support Staff should be indicated per category (e.g.: draftsmen, clerical staff).
- 3 Positions of the Key Professional (Foreign, Local) & Support Professional Staff shall coincide with the ones indicated in Form TECH-4.

Form FIN 3: Lumpsum Financial bid submission in excel format (e-Envelope 'C')

[Submission of Financial proposal should be done in formats available on the portal. The information in brackets [] should not appear in the Financial Proposals to be submitted. Financial Proposal Standard Form in excel and PDF format shall be used for the preparation of the Financial

NIT No.: MMRC/Planning/PLN/38/RFP/01/2022				
Name Of Work		Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar		
Financial Bid				
Name of the Firm		(Name)		
Sr. No.	Name of Work	Time limit for consultancy	Total excluding GST (in figure in rupees)	Total excluding GST (in words in rupees)
1	Appointment of Consultant for "Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar	32 weeks (8 months)		

Note: Please fill only in coloured cells of the sheet.

Rate filled at any other place in the document shall not be considered.

No condition shall be accepted.

Check the quoted fees in figures and words before submitting

Proposal according to the instructions provided under Section 2.]

Section 5. Form of Contract (Draft)

Consultants' Services

Lump-Sum

Draft CONTRACT FOR CONSULTANTS' SERVICES

Lump-Sum

between

[name of the Employer]

and

[name of the Consultant]

Dated: _____

Form of Contract

LUMP-SUM

Name of work: Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar

This Agreement is made on the ___ day of the month of ___ and executed at _____ between on the one hand, Mumbai Metro Rail Corporation Limited (MMRC) a company incorporated under the provisions of the Companies Act, 1956/2013, having its registered office at **Mumbai Metro Rail Corporation Ltd. (MMRCL), MMRCL Transit Office Building, 'A' Wing, 'E' Block, North Side of City Park, Behind Income Tax Office, BKC, Bandra (East), Mumbai 400051**, hereinafter referred to as the 'Client' on the one part, represented by **Shri R. Ramana, Executive Director (Planning)**, which term shall, unless excluded by or repugnant to the context, be deemed to include its representatives, successors and assignees.

AND

_____ Consultants having its registered/corporate office at _____ represented by _____ (name and designation of representing officer) on the other part (Hereinafter called "Architect & Consultants/Consultant") which term shall, unless excluded by or repugnant to the context, be deemed to include its representatives, successors and assignees.

WHEREAS

- a. The Client is a SPV, Joint Venture Company of Government of India and Government of Maharashtra and implementing underground Colaba-Bandra-Andheri (SEEPZ) Metro Line-3 in Mumbai. The Client desires to appoint a Consultant to provide certain consulting services as defined in the General Conditions and elsewhere of Contract attached to this Agreement (herein called the "Services")
- b. The Client had invited proposals (via Request for Proposal (RFP) No. MMRC/Planning/PLN/38/RFP/01/2022 dated 02/08/2022" from the interested parties for the "Preparation of Detailed Project Report (DPR), Environment Impact Assessment (EIA) & Social Impact Assessment (SIA) Report for Southern Extension of Mumbai Metro Line-3 from Cuffe Parade to Navy Nagar".

- c. After evaluation of bids, the Client has selected the Consultant on open tendering basis as they have the required professional skills, personnel and technical resources. The Consultant has agreed to provide the Services specified in the RFP on such terms and conditions as set forth in this Agreement.

NOW THIS AGREEMENT WITNESSETH AND THE PARTIES HEREBY AGREE AS FOLLOW:

- 1) The Agreement shall come into effect on the date of issue of Work Order (Effective Date).
- 2) This Agreement shall remain in force for a period of 32 weeks (8 months) and shall continue until all of the Services are completed; unless terminated earlier subject to the provisions of this Agreement.
- 3) The Consultant shall ensure deployment of Key Personnel and support staff/ engineers for period as quoted in their proposal including construction phase and there will be no upward revision in consultant fee. However, any shortfall in deployment would entail proportionate reduction in contract value.'
- 4) The following documents attached hereto shall be deemed to form an integral Part of this contract.
 - a) The work order issued by Client
 - b) The Letter of Acceptance (LOA) issued by the Client
 - c) All the submission Proposals and documents made by the Consultant as part of the RFP submission
 - d) RFP document
 - e) Response to pre-bid queries
 - f) Corrigendum to the RFP if issued by the Client;
 - g) Addendum(s) to the RFP
 - h) Submission by the consultant as per negotiations
 - i) The General conditions of contract (herein after called GCC)
 - j) The Special conditions of contract (herein after called SCC)
- 5) The mutual rights and obligations of the Client and the Consultants shall be as set forth in the Agreement; in particular:
 - a) The Consultants shall carry out the Services in accordance with the Provisions of the Contract; and
 - b) The Client shall make milestone payments to the Consultant in such manner as specified in Schedule of payments.
 - c) The financial offer including GST submitted by the Consultant while responding to the

Request for Proposal and accepted by the client is Rs. _____/- (Rupees
_____ Only) exclusive of GST.

IN WITNESS, WHEREOF, the Parties hereto have caused this Agreement to be signed in their respective names as of the day and year above written.

For and on behalf of Mumbai Metro Rail Corporation Limited (50:50 Joint Venture between Government of India and Government of Maharashtra)

R. Ramana
Executive Director (Planning), MMRC
Authorized Representative of the Client

Witness 1

Witness 2

For and on behalf of Consultant _____

Authorized Representative of the Consultant

Witness 1

Witness 2

5.1 GENERAL CONDITIONS OF CONTRACT (GCC)

5.1.1 Definitions:

Unless the context otherwise requires, the following terms whenever used in this contract have the following meanings:

- a. **“Applicable Law”** means the laws and any other instruments having the force of law in India.
- b. **“Contract”** means the Contract signed by the Parties, to which these General Conditions of Contract are attached, together with all the documents listed in agreement of such signed Contract:
- c. **“Effective Date”** means the date on which this Contract comes into force
- d. **“Employer/Client”** means MMRC represented by Managing Director/Executive Director (Planning)
- e. **“Engineer in charge”** means any officer designated by the Employer for the project.
- f. **“GC”** means these General Conditions of Contract
- g. **“Government”** means the Government of India / Government of Maharashtra.
- h. **“Local Currency”** means the Currency of the Government of India
- i. **“Party”** means the Client or the Consultants, as the case may be, & Parties means both of them
- j. **“Personnel”** means persons hired by the Consultants or by any Sub-consultant as employees and assigned to the performance of the Services or any part thereof
- k. **“SCC”** means the special Conditions of Contract by which these General Conditions of Contract may be amended or supplemented.
- l. **“Services”** means the work to be performed by the Consultants pursuant to this Contract may be amended or supplemented.
- m. **“Sub Consultant”** means any entity to which the Consultants, sub-contract any part of the Services in accordance with the Provisions of Clauses elsewhere in the contract and
- n. **“Third-Party”** means any person or entity other than the Government, the Client the Consultants or a Sub-consultant.

5.1.2 Relation between the Parties

Nothing contained herein shall be construed as establishing a relation of Master and servant or of principal and agent as between the Client and the Consultants. The Consultants, subject to this Contract, have complete charge of Personnel and sub – consultants, if any, performing the services and shall be fully responsible for the Services performed by them or on their behalf hereunder:

5.1.3 Law Governing Contract

This Contract, its meaning and interpretation and the relation between the Parties shall be governed by the Applicable Law.

5.1.4 A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SCC.

5.1.5 Authorized Representative

Any action required or permitted to be taken, and any document required or permitted to be executed, under the contract by the Client or the Consultants may be taken or executed by the officials specified in the SCC.

5.1.6 Taxes, Duties and Currency of Proposal & Payment

5.1.6.1 Taxes and Duties

The Financial proposal shall take into account all the tax liabilities. Further, all payments shall be subject to deduction of taxes at source as per Applicable Laws. Unless otherwise specified in the SCC, the Consultants, Sub-consultants and Personnel shall pay any such additional taxes, duties, fees and other impositions as may be levied Under the Applicable Law. Payment of GST shall also be responsibility of the consultant. Same shall be reimbursed by the client. Consultant shall ensure payment of applicable stamp duty charges as per Maharashtra Stamp Act.

5.1.6.2 Currency of Proposal and Payments

The consultant shall express the price for its Services in the Indian Rupees (INR) only. No foreign currency fluctuation will be paid. Payment under the Contract shall be made in the INR only.

5.1.7 Negotiations and Award

Negotiations will be held at the address indicated in the Data Sheet with regard to the weakness if any in the selected proposal. The invited Consultant will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional Staff. Failure in satisfying such requirements may result in MMRC proceeding to negotiate the next-ranked Consultant. Representatives conducting negotiations on behalf of the Consultant must have written authority to negotiate and conclude a contract.

5.1.7.1 Technical Negotiations

Negotiations will include a discussion of the Technical Proposal, the proposed technical approach and methodology, work plan, organisation and staffing, knowledge transfer and training and any suggestions made by the Consultant to improve the Terms of Reference. MMRC and the Consultant will finalise the Terms of Reference, staffing Schedule, Work Schedule, logistics and reporting. These documents will then be incorporated in the Contract as “Description of Services”. Special attention will be paid to clearly defining

the inputs and facilities required from MMRC to ensure satisfactory implementation of the assignment. MMRC shall prepare minutes of negotiations which will be signed by MMRC and the Consultant.

5.1.7.2 Availability of Key Personnel Staff/ Experts

Having selected the Consultant on the basis of, among other things, an evaluation of the proposed Key Personnel, MMRC expects to negotiate a Contract on the basis of the Professional staff named in the Proposal. Before contract negotiations MMRC will require assurances that the Professional staff will be actually available. MMRC will not consider substitutions during the contract negotiations. If this is not the case and if it is established that Professional staff were offered in the proposal without confirming their availability, this results in rejection of the Consultant's preproposal and the Client proceeding to negotiate the Contract with the next-ranked Consultant.

5.1.7.3 Financial Negotiations

The negotiations include the clarification of the Consultant's tax liability in the Client's country and how it should be reflected in the contract.

Staff month rate negotiation shall not take place, except when the offered Key Personnel and support staff's remuneration rates are much higher than the typically charged rates by consultants in similar contracts. In such cases, the Client may ask for clarifications and, if the fees are very high, ask to change the rates.

5.1.7.4 Conclusion of negotiations

Negotiations will conclude with a review of the draft contract. To complete negotiations, MMRC and the Consultant will initial the agreed Contract. If negotiations fail, MMRC will invite the Consultant whose proposal received the second highest score to negotiate a Contract.

5.1.8 Commencement, Completion, Modification and Termination of Contract

5.1.8.1 Effectives of Contract

This Contract shall come into force and effect on the date (the "Effective Date") of the Client's notice to the Consultants instructing the Consultants to begin carrying out the Services and shall confirm that the effectiveness conditions, if any listed in the SCC have been met.

5.1.8.2 Commencement of Services

The Consultants shall begin carrying out the Services at the end of such time period after the effective date as shall be specified in the SCC.

5.1.9.3 Expiration of Contract

Unless terminated earlier pursuant to Clause GC 5.1.9.11 hereof, this Contract shall expire when services have been completed and all payments have been made at the end of such time period, after the effective date as shall be specified in the SCC.

5.1.9.4 Entire Agreement

This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

5.1.9.5 Modification

Modification of the term and conditions of this Contract, including any modification of the scope of the Services, may only be made by written agreement between the Parties.

5.1.9.6 Force Majeure

- a) For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances and subject to those requirements, includes, but is not limited to, war, riots, terrorism, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action, confiscation or any other action by Government agencies.
- b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a party or such Party’s Experts, Sub-consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this Contract and avoid or overcome in the carrying out of its obligations hereunder.
- c) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

5.1.9.7 No Breach of Contract

The failure of a party to fulfil any of its obligations hereunder shall not be considered to be a breach of, or default under this Contract so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions due care and reasonable alternative measures, all with the objective of carrying out terms and conditions of this Contract.

5.1.9.8 Measures to be taken

- a. A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfil its obligations hereunder with a minimum of delay.
- b. A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible and in any event not later than fourteen (14) days following the occurrence of such event providing evidence of the nature and causes of such event and shall similarly give notice of the restoration of normal conditions as soon as possible.
- c. The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

5.1.9.9 Extension of Time

Any period, within which a party shall pursuant to this Contract complete any action or task shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

5.1.9.10 Suspension

The Client may, by written notice of suspension to the Consultants, suspend all payments to the Consultants hereunder if the Consultants fail to perform their obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension

- i. Shall specify the nature of the failure and
- ii. Shall request the Consultants to remedy such failure within a period not exceeding thirty (30) days after receipt by the Consultants of such notice of suspension.

5.1.9.11 Termination

The Client may by not less than thirty (30) days shall give the written notice of termination to the Consultants after the occurrence of any of the following events (except in the event listed in the paragraph (f) below, for which there shall be a written notice of not less than sixty days). Such notices to be given after the occurrences of any of the events specified in the paragraphs (a) through (g).

- a) If the Consultants fail to remedy a failure in the performance of their obligations hereunder, as specified in a notice of suspension pursuant to clause GC 5.1.9.10 herein above, within thirty (30) days of receipt of such notice of suspension or within such further period as the Client may have subsequently approved in writing;

- b) If the Consultants become (or, if the Consultants consist of more than one entity, if any of their Members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- c) If the Consultants fails to comply with any final decision reached as a result of arbitration proceedings.
- d) If the Consultants submit to the Client, a statement which has a material effect on the rights, obligations and interests of the Client and which the Consultants know to be false.
- e) If, as a result of Force Majeure, the Consultants are unable to perform a material portion of the Services for a period of not less than sixty (60) days;
- f) If the Consultant, in the judgment of the Client has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- g) If the Client in its sole discretion for any reason whatsoever, decides to terminate this contract.

5.1.9 Cessation of Rights and Obligations

Upon termination of this Contract pursuant to Clauses GC 5.1.9.11 hereof, or upon expiration of this contract, pursuant to Clause GC 5.1.9.3 all rights and obligations of the Parties hereunder shall cease, except:

- i) Such rights and obligations as may have accrued on the date of termination or expiration;
- ii) The obligation of confidentiality.
- iii) The Consultants obligation to permit inspection copying and auditing of their accounts and records set forth.
- iv) Any right which a Party may have under the applicable law.

5.1.10 Disputes about Events of Termination

- a. Except where otherwise specified in the contract and subject to the powers delegated to him by MMRC then in force the decision of the Executive Director (Planning) for the time being shall be final, conclusive and binding on all parties to the Contract upon all question relating to the meaning of the contract conditions or as to any other question, claim, right, matter or things, whatsoever if any way arising out of or relating to the contracts.

- b. If the consultants is not satisfied with the order passed by the Executive Director (Planning) as aforesaid, the consultant may within thirty days of receipt by him of any such order appeal against it to the Managing Director who, if convinced that prima – facie the consultants claim rejected by Executive Director (Planning) is not frivolous and that there is some substance in the claim of the consultant as would merit a detailed examination through a suitable committee appointed for the purpose by the Managing Director if necessary and in that case decision taken by the committee shall be finalized by the competent authority and same shall be binding to the Consultant

5.1.11 Obligations of the Consultants

5.1.12.1 General

a) Standards of Performance

The Consultants shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy in accordance with Generally accepted professional techniques and practices and shall observe sound management practices and employ appropriate advanced technology and safe and effective equipment, machinery, materials and methods. The Consultants shall always act, in respect of any matter relating to this Contract or to the services, as faithful advisor to the Client, and shall at all times support and safeguard the Client's Legitimate interests in any dealings with Sub- consultants or Third Parties.

b) Law Governing Services

The Consultants shall perform the services in accordance with the Applicable Law and shall take all practicable steps to ensure that any Sub- consultants, as well as the Personnel of the Consultants and any Sub – consultant, comply with the Applicable Law.

5.1.12.2 Conflict of Interest

- a) Consultants Not to Benefit from Commissions, Discounts, etc. The remuneration of the Consultants, shall constitute the Consultant's sole remuneration in connection with this Contract or the Services and, the Consultants shall not accept for their own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or to the services or in the discharge of their obligations hereunder, and or to the Consultants shall use their best efforts to ensure that any sub – consultants, as well as the Personnel and agents of them, similarly shall not receive any such additional remuneration.

b) Consultants and Affiliates Not to engage in Certain Activities

The Consultants agree that during the term of this Contract and after its termination, the Consultants and any entity affiliated with the Consultants as well as any Sub-Consultant and any entity affiliated with such Sub-Consultant, shall be disqualified from providing goods, works or services (other than the Services any continuation thereof) for any project resulting from or closely related to the Services.

c) Prohibition of Conflicting Activities

The Consultants shall not engage, and shall cause their Personnel not to engage, either directly or indirectly, in any of the following activities:

- i. During the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract; and
- ii. After the termination of this contract, such other activities as may be specified in the SCC.

5.1.12.3 Confidentiality

The Consultants, their sub consultants and the Personnel of either of them shall not, either during the term or within two (2) years after the expiration of this Contract, disclose any proprietary or confidential information relating to the Project, the Services, this Contract or the Client's business or operations without the prior written consent of the Client.

5.1.12.4 Liability of the Consultants

Subject to additional provisions, if any set forth in the SCC, the Consultants liability under this Contract shall be as provided by the Applicable Law.

5.1.12.5 Insurance to be Taken Out by the Consultants

The Consultants

- i) shall take out and maintain, and shall cause any Sub – consultants to take out and maintain, at their (or the Sub – Consultants, as the case may be) own cost but on terms and conditions approved by the Client, insurance against the risks , and for the coverage , as shall be specified in the SCC , and
- ii) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.

5.1.12.6 Consultants Actions Requiring Client's Prior Approval

The Consultant shall obtain the Client's prior approval in writing before taking any of the following actions:

- a) Appointing such members of the Personnel ("Consultants sub – consultants' Key Personnel") merely by title but not by name. The consultant shall not change the Key Personnel proposed for the work without any valid reasons acceptable to the Client. A penalty of Rs. 25,000/- will be levied if the consultant changes the Key Personnel proposed without valid reasons.
- b) Entering into subcontract for the performance of any part of the Services, and note
 - i) that the selection of the Sub – Contractor and the terms and conditions of the subcontract shall have been approved in writing by the Client prior to the execution of the sub-contract, and
 - ii) that the Consultants shall remain fully liable for the performance of the Services by the sub-consultant and its Personnel pursuant to this Contract;
- c) Any other action that may be specified in the SCC.

5.1.12.7 Reporting Obligations

The Consultants shall submit to the Client the reports and documents as may be specified hereto, in the form, in the numbers and within the time periods set forth.

5.1.12.8 Documents prepared by the Consultants to be the Property of the Client

All plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultants for the Client under this Contract shall become and remain the property of the Client, and the Consultants shall not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory thereof. The Consultants may retain a copy of such documents and software, Restrictions about the future use of these documents and software, if any shall be specified in the SCC.

5.1.12.9 Equipment and Material Furnished by the Client

All the required material, equipment required for the job shall be arranged by the Consultant.

5.1.12 Consultants Personnel

5.1.13.1 General

The Consultants shall employ and provide such qualified and experienced Personnel and Sub-consultants as are required to carry out the Services.

5.1.13.2 Description of Personnel

- a) Name of the key persons shall be given.
- b) If additional work is required beyond the scope of the Services specified, the estimated periods of engagement of Key Personnel may be increased by agreement in writing between the Client and the Consultants, if any such increase shall not, except as otherwise agreed, cause payments under this Contract to exceed the ceilings.

5.1.13 Approval of Personnel

The Key Personnel listed by title as well as by name are required to be approved by the Client. In respect of other Key Personnel which the Consultants propose to use in the carrying out of the Services, the Consultants shall submit to the client for review and approval a copy of their biographical data.

5.1.14 Removal and / or Replacement of Personnel

- a) Except as the Client may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultants, it becomes necessary to replace any of the Personnel, the Consultants shall forthwith provide as a replacement a person of equivalent or better qualifications.
- b) If the Client
 - (i) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action, or
 - (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultants shall, at the Client's written request specifying the grounds therefore, forthwith provide as a replacement a person with qualification and experience acceptable to the Client.
- c) Any of the Personnel provided as a replacement under Clauses (a) and (b) above, the rate of remuneration applicable to such person as well as any reimbursable expenditures (including expenditures due to the number of eligible dependents) the Consultants may wish to claim as a result of such replacement, shall be subject to the prior written approval by the Client. Except as the Client may otherwise agree,
 - (i) the Consultants shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and

- ii) the remuneration to be paid for any of the Personnel provided as a replacement shall not exceed the remuneration which would have been payable to the Personnel replaced. In case, the personnel of consultant remain absent from work for more than 15 days, proportionate payment will be deducted from consultant's payments.
- d) A penalty of Rs. 25,000/- will also be levied if the consultant changes the Key Personnel proposed without valid reasons or without prior information to the client.

5.1.15 Fairness and Good Faith

5.1.16.1 Good Faith

The Parties undertake to act in good faith with respect to each other's rights & to adopt all reasonable measures to ensure realization of the objective of this Contract.

5.1.16.2 Operation of the Contract

The Parties recognize that it is impractical in this Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract, shall operate fairly as between them, and without detriments to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but no failure to agree on any action pursuant to this Clause shall give rise to a dispute subject to arbitration.

5.1.16 Settlement of Disputes

5.1.17.1 Dispute Resolution:

If the dispute cannot be settled amicably within sixty (60) days after serving notice of dispute, the Parties may endeavour to settle the dispute by way of an arbitration under the provisions of the Arbitration & Conciliation Act, 1996 including its amendments thereof. The sole arbitrator shall be appointed by mutual consent of both the parties within 30 days from the date of first written intimation of the intent to resolve the dispute by arbitration. If the parties fail to appoint the sole arbitrator by mutual consent, as above, the same shall be appointed as per the provision of the Arbitration and Conciliation Act, 1996, including its amendments thereof. The Seat of arbitration shall be Mumbai and the language of arbitration shall be English. The decision of the arbitrator shall be final and binding upon the Parties. Both the parties shall bear the cost of the arbitration in equal proportion unless otherwise decided by the sole arbitrator. The parties agree that the existence & content of the arbitration and the terms of the order or award made in the arbitration shall, except as may be required by law, be kept confidential.

5.2 SPECIAL CONDITIONS OF CONTRACT (SCC)

Number of GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
5.1.4	<p>The addresses are:</p> <p>Employer:</p> <p>Mumbai Metro Rail Corporation Limited</p> <p>Attention: R. Ramana, Executive Director (Planning)</p> <p>Consultant: (Registered address of awardee tenderer)</p> <hr/> <hr/> <hr/>
5.1.6	<p>The authorized Representatives are:</p> <p>For the Employer: R. Ramana, Executive Director (Planning)</p> <p>For the Consultant: The Authorized Representative, mentioned in Authority letter.</p>
5.1.7	<p>The consultants, Sub- consultants and the Personnel shall pay the taxes, duties, fees, levies and other impositions levied under the existing, amended or enacted laws during life of this contract and the client shall perform such duties regarding the deduction of such tax as per prevalent laws inforce.</p>
5.1.9.1	<p>The effective date shall come into effect on the date contract is signed by both parties.</p>
5.1.9.2	<p>The date of commencement of services is 15 days from the effective date.</p>
5.1.9.3	<p>The time period shall be 08 months from the effective date of contract.</p> <p>After award of contract, price variation in agreed contract fees shall not be applicable as the period of consultancy is lesser than 1 year.</p>
5.1.12.4	<p>Limitation of the Consultants liability towards the Client</p> <p>a) Except in case of gross negligence or wilful misconduct on the part of the Consultants or on the part of any person or firm acting on behalf of the Consultants in carrying out the services, the Consultants, with respect to damage caused by the Consultants to the Client’s property, shall not be liable to the Client:</p>

	<p>i) For any indirect or consequential loss or damage, and</p> <p>ii) For any direct loss or damage that exceeds</p> <p>(A) the total payments for Professional Fees and Reimbursable Expenditures made or expected to be made to the Consultants</p> <p style="text-align: center;">Or</p> <p>(B) entitled to receive from any insurance maintained by the Consultants to cover such a liability,</p> <p>whichever of (A) or (B) is higher.</p> <p>b) This limitation of liability shall not affect the Consultants liability, if any, for damage to third Parties caused by the Consultants or any person or firm acting on behalf of the Consultants in carrying out the Services.</p>
<p>5.1.12.5</p>	<p>The risks and the coverages shall be as follows: The insurance shall be taken from: Directorate of Insurance Maharashtra State, Mumbai - 400051.</p> <p>a) Third Party motor vehicle liability insurance as required under Motor Vehicles Act, 1988 in respect of motor vehicles operated in India by Consultants or their Personnel or any Sub- consultants or their Personnel for the Period of consultancy.</p> <p>b) Third Party liability insurance with a minimum coverage of Rs. 5.0 Lakh for the period of consultancy.</p> <p>c) Professional liability insurance valid for a period of consultancy, with a minimum coverage equal to Estimated remuneration and reimbursable as per 5.1.12.4 (a) (ii) of SCC of the consultancy.</p> <p>d) Client's liability and worker's compensation insurance in respect of the Personnel of the Consultants and of any Sub- consultant, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health accident, travel or other insurance as may be appropriate; and</p> <p>e) Insurance against loss of or damage to i) equipment purchased in whole or in part with funds provided under this Contract, ii) the Consultants property used in the performance of the Services, and iii) any documents prepared by the Consultants in the Performance of the Services.</p>
<p>5.1.12.8</p>	<p>The Consultants shall not use these documents for purposes unrelated to this Contract without the Prior written approval of the Client.</p>
<p>5.1.12.9</p>	<p>The Special Conditions of Contract (SCC) shall prevail over General Conditions of Contract (GCC) in case of any contradiction between SCC and GCC.</p>