

Response to Additional Queries
for 'Licensing of Space for providing Shared Mobile (Cellular) Coverage at Mumbai Metro Line 3' RFP

Date: 19 May 2023

Ref: RFP for 'Licensing of Space for providing Shared Mobile (Cellular) Coverage at Mumbai Metro Line 3'

eTender No. MMRC/Planning/PLN/49A/NFBR/RFP/01/2023 dated 13-Apr-2023 - https://MMRC.com/sites/default/files/MMRC_NFBR_Cellular_Coverage_RFP.pdf

Given below is a compilation of MMRC's response to additional queries received from interested bidders regarding the above-mentioned tender. You may take this into consideration for your bid submission. The last date for bid submission is Monday, May 29, 2023, 4 PM.

SN	RFP Pg. No.	Query Received	MMRC Response
1	31	<p>The present clause puts the entire investment of licensee at stake since the operators, after having full knowledge of this clause, would try to arm twist the licensee and may chose to await the invitation of MMRC for onboarding the infrastructure at a rate which is not commensurate to allow the recovery of capex so deployed by the licensee along with appropriate ROIs over the tenure of the contract. It is suggested that only for the 4th operator which is Govt operator MTNL/BSNL the same clause may be retained.</p> <p>Since the licensee is already providing letter of Intents from minimum two MSPs and deploying a huge capex (in the tune of 80-100 crores), it is in licensee's own interest to ensure onboarding of all MSPs from day one. Moreover, failure to onboard the requisite number of MSP's may lead to a Breach of Contract and subsequent termination.</p> <p>Reference may be cited from 2 other metro tenders which given as below- "In case licensee fails to comply to the provision of tie ups with mobile operators as described above, the Authority reserves the right to ask individual/group of mobile operator to propagate their signals in licensed premises."</p> <p>This ensures that while the Authority reserves the right to ask MSPs to provide their coverage inside the licensed premises, but on their own infrastructure, so as not to bring the licensee's investment to risk.</p>	Tender conditions prevail
2	32	<p>The fiber of the MSPs is to be brought from their nearest POP which may not be available near all the metro stations. Moreover each MSP may have nearby POPs at different metro stations as such the fiber is to be brought from their POP to the TCR and then multiple stations are to be connected through fiber with this TCR. This will entail licensee to lay fibers inside the tunnel to connect different stations, without which it becomes extremely difficult for the licensee to create a media path.</p> <p>Using spare fibres of a 3rd party will add to additional opex burden on the licensee. Moreover, the SLAs signed up between the licensee and the operators are very stringent. Any breach of back to back SLAs between the licensee and the MMRC appointed party may lead to severe financial repercussions on the licensee. The licensee's payout to MMRC appoint party may be a fraction of his receivables from the operators and even a 100% penalty on the MMRC appointed party may not be enough to recover the penalties imposed by the operators on the licensee in case of breach of committed SLAs.</p> <p>Therefore, it is extremely critical that the licensee may be allowed to lay fiber through the tunnel and interconnect all the TCRs so as to only allow the operators mobile traffic to flow and interconnect the BTS equipment.</p> <p>Licensee may not be allowed to share this fiber infrastructure for any other purpose. Excerpt from another metro tender is cited for reference as below:</p> <p>" Licensee may lay fibre cable throughout the tunnel to connect stations. Licensee to ensure that fibre cables are used solely for carrying traffic for mobile coverage of DMRC. No other data of whatsoever type shall be permitted on this fibre cable. If required, DMRC may sample check the data being transfer through these fibre and Licensee shall submit the technical data etc. Required for this purpose. Deviation shall be treated as material breach of contract."</p>	Refer Addendum SN 2

Office Address : MMRC Transit Office Building, 'A' Wing, 'E' Block, North Side of City Park, Behind Income Tax Office, Bandra Kurla Complex, Bandra East, Mumbai - 400 051.

T +91 22 2638 4602 **F** +91 22 2659 2005 **E** mumbaimetro3@mmrcl.com **www.mmrcl.com**

CIN U60100MH2008SGC181770

Response to Additional Queries: RFP for Licensing of Space for providing Shared Mobile (Cellular) Coverage at Mumbai Metro Line 3

SN	RFP Pg. No.	Query Received	MMRC Response
3	47	<p>It is suggested that no restriction be placed on the spacing of the repeaters inside the tunnel as it is the matter of design criteria based upon SLAs and RF parameters requirements of various MSPs. Authority should focus on the SLAs that they envisage/recommend inside the tunnels and audit the same on specific intervals. Reference is cited from another Metro tender as below:</p> <p><i>"The service provider/integrator should confirm to smooth voice communication in the underground section. A joint checking of the coverage with representative of the licensee, PB, S&T and operations shall be conducted on bimonthly basis and in case of any shortfall, a token penalty of ₹ 5,000/- will be levied on the Licensee."</i></p> <p><i>"The Licensee shall ensure that passengers using metro train services will get uninterrupted mobile coverage without any interruption in underground section as described in Scope of this document. It requires that the Radio system shall have an overall availability of better than 99.95%. The signal level should be such that the uplink and down link audio quality level under such conditions should be good. The minimum signal level which is sufficient for successful radio calls must be available in all coverage areas including inside the moving (50 kmph) train compartment. It shall be available in 95% of total area and in worst case not more than 50 meter of continuous stretch in stations and in tunnel/train should be without coverage. The signal levels mentioned herewith are the worst case Down Link signal levels after taking into account all losses such as propagation losses, feeder losses, body loss, fading, train penetration losses, multiple floor / wall penetration losses, climatic losses, etc."</i></p>	Refer Addendum SN 4
4	33	<p>Since a single bid parameter comprising monthly license fee quoted for both underground stations and overground ancillary buildings shall be the evaluation criteria, it may so happen that a bidder may quote a low price for the stations and a higher amount for the overground ancillary buildings. If such bidder is awarded the license, he may submit such technical designs for the infrastructure to be deployed that may not be technically feasible for the authority to have the same deployed on the overground ancillary buildings. As such MMRC will have to decrease the license fee by the higher amount quoted for the overground ancillary buildings and will be left with only a lower amount that such licensee would have quoted for the underground stations at the time of bidding. In comparison, another bidder may have bid a higher amount for the underground stations and such a scenario may lead to monetary loss to MMRC.</p> <p>Hence it is suggested that the scope may be broken into two packages and each of the packages be evaluated separately.</p> <p>Moreover, no criteria has been given in the tender as to what has to be installed on the overground ancillary building and no restriction either on space or on the height/type of structures to be deployed has been specified which needs clarification.</p> <p>It is suggested that a 5 mtr space restriction for a Rooftop Pole structure may be specified with a maximum height restriction of 9 meter over and above the terrace of overground ancillary building.</p> <p>This will ensure a fair bid evaluation and also avoid any monetary loss to MMRC at a later stage.</p>	Refer Addendum SN 3. Further, Financial Bid structure remains unchanged.
5	-	We will provide telecom operators services orders to validate sqft area	Tender conditions prevail
6	-	Minimum average annual turnover of Rs. 30 crore in the preceding three financial years	Tender conditions prevail
7	4	<p>With reference to above eTender No. As the MML-3 underground Metro Line is VVIP route of MMRC. So planning of Licensing of Space for Providing Shared Mobile(Cellular) Coverage at Mumbai Metro Line 3 is very crucial and important also.</p> <p>We seek at least 3 to 4 weeks time for site visits and undertake due diligence regarding the feasibility of installing and operating telecom infrastructure at the stations, tunnels, depot, overground, underground structures, and arrive at final costing.</p> <p>So we are hereby requesting you to give at least 3-4 Weeks extension for BID submission of same.</p>	Refer issued Corrigendum-1 dt. 11 May 2023 - Last Date for Bid Submission is extended to 29 May 2023 till 4:00 pm.

SN	RFP Pg. No.	Query Received	MMRC Response
8	29	Kindly provide site handover date to start implementation	Refer RFP Clause 3.8 which states "After execution of the License Agreement; as the station and tunnel works are ongoing the handover of the sites will be done at the earliest as per the completion schedule in tranches which will be informed to the Licensee."
9	-	On the proof of experience can the Awarded contract with start date be enough as completion can be obtained only on complete handover.	Refer Addendum SN 1
10	-	Need confirmation for the Telecom room designated on each station to have Telecom Equipment only and all 4 walls of the Telecom room to be made available	Confirmed
11	15	Need to have the Specifications of Rolling stock Glass Window material to access the RF propagation and insertion losses	Windows (Glass) -- 1. Design - Double glazed laminated glass (DGU) 2. Glass Construction - 5mm clear (inner) Tempered + 12mm Airgap + Laminated (3mm clear + 0.38mm Gray PVB + 0.76 clear PVB + 4mm clear outer) 3. Thickness - 25.14mm 4. K factor - 2.5 W/m2-k 5. Light transmission - >50%
12	-	Need to know the cable tray availability inside the ER and also at the station's platform and Concourse and any other levels which need power to be available for our equipment	Cable trays are available inside ER and at platform & concourse level. Wherever STPT trays are not available in ER and platform & concourse level, a separate tray may be required to be laid.
13	-	Need to know if MMRC allows us to use the existing cable tray for GSM and power cables. If not, is it allowed to install the cables by using clamp or conduit required.	As far as possible existing cable trays can be used and wherever, not possible, cable clamps to be used.
14	-	Need confirmation for the Power source and its availability inside the EQ or outside the ER and if power source is outside, please provide distance from the breaker to the ER	Power source available inside ER room, however, details can be worked out after award of contract. Wherever UPS power supply is required in the EQ room, it can be availed by extending to the required location by the Licensee. For this, Licensee has to submit an installation and operations plan to MMRC for approval.
15	-	Need to know, do we have available power source between station to station (Tunnel area) to power up our Remote units	There is no separate power supply available inside the tunnel areas for remote units. It is to be provided by the Licensee. Cable can be laid from Tunnel DB & Tunnel brackets can be used.

SN	RFP Pg. No.	Query Received	MMRC Response
16		1. Need to know if the site/ER will be serving with a Backup generator 2. Need to know if the site/ER is served with the Existing UPS 3. Need to know in the ER, can we install backup Batteries - Yes or NO 4. Need to know in the site/ER if Air condition and Firefighting systems are available. 5. Need to know if the site is serving with the for Dual feeder (Power source) from grid or not	1. Yes. Back up generator available. 2. Yes. Existing UPS available. 3. Yes. 4. Yes. AC & Fire fighting systems are available in ER. 5. Yes. Dual feed available.
17	30	To please give us the benefit of being a PSU and waive off the condition of Sub-Licensing under Section 3.8 "Key Commercial Terms".	Tender conditions prevail
18	4	To please extend the last date by 15 days to enable us to prepare a responsive bid.	Refer SN 7 above

Sd/-
Executive Director (Planning)
Mumbai Metro Rail Corporation Limited

DISCLAIMER:

All information provided as a part of this document to the prospective applicants by the Mumbai Metro Rail Corporation Limited (MMRC) is subject to the terms and conditions set out by MMRC and as shall be laid down in the agreement of contract to be executed between Mumbai Metro Rail Corporation Limited and the Applicant. The objective of this document is to provide information to the interested parties about requirement of MMRC to facilitate their application for the project. This document does not claim to contain all the information as may be required at the time of execution of work. Each applicant is advised to conduct its own survey for commissioning the work and check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources as deemed necessary. MMRC makes no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this document. MMRC may, at their absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this document.

-----END OF DOCUMENT-----