

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

Date: 28 April 2023

Ref: RFP for 'Licensing of Space for providing Shared Mobile (Cellular) Coverage at Mumbai Metro Line 3'
eTender No. MMRCL/Planning/PLN/49A/NFBR/RFP/01/2023 dated 13-Apr-2023 -
https://mmrcl.com/sites/default/files/MMRC_NFBR_Cellular_Coverage_RFP.pdf

Given below is a compilation of MMRCL's response to the pre-bid 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 18, 2023, 4 PM.

SN	RFP Pg. No.	Query Received	MMRCL Response
1	26	Kindly clarify as per DOT IP-1 providers are not eligible to provide IBS infrastructure. We can also provide the notification which was issued by DOT. As per our experience for IBS installations & integrations Catb Ul/vno license is needed. Kindly confirm	Refer Addendum SN 2
2	19	Peak Hour Estimated number of Users are required Each Station and Ancillary buildings.	Estimated daily metro ridership is provided in section 3.4 of the RFP, for peak hour loads refer DPR (https://mmrcl.com/sites/default/files/dpr-metro-line-III.pdf). Equipment placed on ancillary buildings and depot buildings are not expected to cater to metro commuters, rather they are expected to cater to the surrounding catchment.
3	20	Architectural Floor Plans Required for Each Stations, Tunnels, ancillary buildings and Depot buildings.	Indicative station & tunnel drawings are attached as 'Annexure' to this Response to Queries.
4	21	As per RFP documents there are two main Floor Platform and Concourse but from Elevations drawing in document we can see additional Service level and Mezzanine level do we need to Cover these levels also ?	Mobile network is to be provided in the entire underground station, including the service and retail areas which are on intermediate levels.
5	22	Tunnel between each stations is separate for Up and Down in all areas or in some area there common tunnel for Both track please confirm.	There are two independent tunnels
6	24	Kindly clarify meaning of provision for 5G Network as per our understanding only provision to be provided but actual deployment is not needed?	Yes, provision and deployment for 5G is to be done in line with industry best practices from ROD.
7	24	Also kindly clarify small cells & IBS both should be deployed or anyone technology?	Licensee may deploy Small Cells along with the IBS as to provide uninterrupted Cellular Coverage to passengers and other users.

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8	24	Kindly clarify Wi-Fi is not in the scope?	Refer Addendum SN 1
9	26	We are new in India and a subsidiary of International Neutral Host company with massive references. Therefore we hereby request to kindly consider our Parent Company credentials.	Refer Addendum SN 3
10	26	We are a fully own subsidiary of a large international company, however we are relatively new establishment in India. We hereby request you to allow us to submit parent company credentials.	Refer SN 9 above
11	32	Kindly share the rates to get understanding	Refer Addendum SN 11
12	32	Are Cable Clamps for Leaky feeder installed in Tunnels ? If installed at what height.	Yes, for 1 LCX cable in each tunnel, clamps are located at 2850 mm height from the track .
13	30	Space availability for DAS/Telcom Infra talks about a defined space of only 10sq mar. Need clarification if the Cable tray space is part of it; or it is over and above the allocated limited space of 10sqmtr per station and the subsequent tunnels between 2 stations.	Refer SN 32 below
14	31	Mandatory onboarding of TSP within specified time frame is challenging part and needs to be explained as its associated with considerable penalty every month and also about termination of Licence after the period of 6 months if failing to do so. Kindly provide more details.	Tender conditions prevail
15	31	Govt entities (MTNL for this matter) sometimes may defer to join the infra due to various obligations and this needs to be reconsidered or Omitted.	Refer Addendum SN 6
16	31	Asking such Lol from TSPs will help TSPs to reduce their commercials significantly, therefore we strongly recommend not to have any such requirement in bidding phase.	Refer Addendum SN 7
17	29	Metro are complex and it incurs relatively higher capex and OpEx. 9 years are not enough for project to be commercially feasible. we request to consider a minimum term of 15 years.	Refer the same clause which states "License Period shall be extendible by 3 years by mutual consent of both parties and on satisfactory performance of the Licensee during the course of the License Period as evaluated by the Authority at its discretion"
18	43	Cable tray Provision MMRCL will provide these cable trays or licensee need to build the cable trays throughout the station. Kindly let us know which will have huge impact on commercials.	Access to existing cable trays will be provided by MMRCL in lieu of the Additional License Fee payable by the Licensee for cable tray utilization
19	46	At the time to vacate space by the due date, We request for ownership to be vested in Authority as per the book value.	Tender conditions prevail

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20	-	We need to know apart from Annexures mentioned in tender, Is MMRC is looking for specific technical proposal like executive summary, PIP, PMP so that we will prepare it accordingly. As Technical proposal has more weightage during evaluation kindly let us know what is expected in Technical proposal so that we will prepare those documents accordingly	Only documents as defined in the bid submission checklist (page 10) are to be submitted.
21	-	Can we understand train operating frequency for each line up and down.	By 2025, the train frequency shall be 225 seconds and be 2031 frequency shall be 165 seconds
22	-	Remote units to be Installed in the Tunnels will be wall mounted on any specific location will be provided like shaft or any service room.	Following award of contract, the Licensee is to prepare detailed technical plans which shall be submitted to MMRC for approval.
23	-	We need to know the make of Rolling Stock trains in terms of built Material to determine penetration Loss.	<ol style="list-style-type: none"> 1. Carbody – Stainless Steel 2mm thick skin panel 2. Windows (Glass) – Double glazed unit with Laminated + Air Gap + Toughened glass 3. Gangway – Rubber bellows with aluminium frame 4. Passenger Doors – Aluminium frame with Stainless Steel outer and inner face material (32 mm thick)
24	-	Minimum Expected Antenna (DAS) configuration By MMRC In and 5g (2X2) MIMO or (4X4) MIMO. This will help the Bid to be considered for an apple to apple configuration and hence making way out for a fair bidding.	Appropriate telecom infrastructure to be deployed by the Licensee as per industry best practices to meet the objective, coverage and service levels specified in this tender
25	-	Kindly we need detailed Site survey and provide us with Site Visit date and Access Procedures.	You may contact the MMRC office for scheduling site visits.
26	-	Frequency bands to be considered from Each TSP as in some cases the TSP might not go with all available frequency bands in case of tunnels. This will impact the over all cost of the project and arrive at competitive bidding figures.	All prevailing frequency bands in Mumbai shall be deployed.
27	-	Its recommended to install the leaky feeder at the height of Rolling stock Window level. This ensures the best coverage inside the train and its only then we may have desired results.	Refer to SN 12
28	-	Please provide if there are any recommended locations inside tunnel to locate our RUs such as electrical room or a gress shaft / emergency exit. These location will be an option in addition to install RU on the tunnel wall based on the practical implication on the design part to meet the desired KPI's.	Refer to SN 22
29	-	Request for extension for 4 weeks from submission date as design and proposal needs more time and to come up with an effective technical & commercial proposal	Tender conditions prevail

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30	24	It is understood that MMRCL shall handover the stations & tunnels to licensee, considering the project execution time so that the In-building solution can be commissioned as per their expectation	Station construction completion works and system installation and testing works are ongoing. Stations and tunnel sections will be handed over at the earliest possible time to ensure there is adequate time for the licensee to install equipment. However, Licensee should note that station completion works will be ongoing even after the handover of the site.
31	24	MMRCL to confirm the detail scope of Wi-Fi network requirement. As IP1 holder we can install the Wi-Fi APs but MMRCL shall tie up with ISP / PM Wani for connecting Wi-Fi network and rendering these services.	Refer SN 8 above
32	29	From our experience on the other such projects, it is observed that the project execution time is around 6 month from the date of handover of station/tunnel/ over ground facilities. Hence we suggest to start the licensee period after 6 month of handover. It is also submitted that this 6 month will be applicable for all the tranches individually. Hence revenue start date should be taken from the 6 month after handover of last tranche.	Tender conditions prevail. Refer clauses on 'License Period' on Page No. 29 of the RFP.
33	30	MMRCL to confirm the scope of installation of clamp for leaky (LCX) cable. If Clamps of LCX (leaky cable) cable in the tunnel shall be provided by MMRCL. LCX cable clamp should be inform of train window (approx. 2.7 mtr from track). Incase of larger deviation in height of leak cable, their will be challenges to meet the coverage requirement inside the train.	Refer to SN 12
34	32	As per our experience the Room space of 10 sqm per station would not be sufficient for installation of the Shared Mobile (Cellular) Coverage (2G/3G/4G/5G). We suggest to increase the minimum space allocation to 25-30 sqm along with power tapping point inside the equipment room at each station with access to the existing MMRCL cable trays etc. The location of equipment room is critical for providing the good coverage levels. Hence, it is understood that MMRCL shall provide the equipment as per design requirement.	Refer Addendum SN 12 Additional space maybe leased as per the terms mentioned in the key commercial terms page 32 of RFP.
35	32	MMRCL to clarify the scope of electrical work. will MMRCL/DISCOM provide the UPS backup electrical power in Licensee equipment room and Licensee will install separate electrical meter and use the power for providing Shared Mobile (Cellular) Coverage.	Refer Addendum SN 10 MMRCL will facilitate wherever feasible but the responsibility of getting the electricity connection rests with the Licensee.

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36	32	Sometime due to ROW permission issue from MCD/PWD, there is not feasible for operator to arrange the fibre connectivity at all station locations. So it is understood that MMRCL shall also allow licensee to connect all the stations through fibre in ring form via tunnels as per their requirement.	Refer SN 11 above
37	32	Licensee would need earthing at various locations like equipment room at platform, at platform, inside the tunnel etc as per the design requirement. We understand MMRCL would provide earthing at all designated locations at stations and inside the tunnels as requested by Licensee.	Provision for earthing shall be provided by MMRCL as specified in the RFP
38	40	Telecom network, radiation limit compliance comes under the OPCOs scope and Licensee. Hence, licensee shall inform to the opcos on the Radiation compliance requirement in this RFP for compliance.	Tender conditions prevail
39	43	MMRCL is requested to nominate a SPOC from their side; who can interact with MMRC internal departments and stake holders for timely permission and execution of project. Also, it is requested that MMRCL shall get the PoP and core cutting done at critical locations by its own as per requirement from Licensee.	MMRCL shall assign a SPOC for the License for this facilitation. All costs associated with installation of the telecom infrastructure approved by MMRCL shall be borne by the Licensee
40	47	The Licensee shall comply to the availability / uptime requirement of DAS network as per tender conditions but it would be responsibility of the OPCOs to ensure the availability of their network. Licensee shall inform requirement as mentioned here in the tender with OPCOs for compliance at their end.	Refer Addendum SN 13
41	47	The actual spacing among the repeater at stations and inside the tunnels may vary depending on the network coverage requirement and frequency band to be deployed. Hence, it cannot be limited as 100-200mtrs. However, Licensee shall inform the MMRCL, regarding the location of antenna, repeater at stations & inside the tunnels. MMRCL shall not restrict the no. of locations for active and passive equipment. This shall depend on the DAS design and DAS frequency support / Equipment capability. Such conditions in the tender might result in monopoly of DAS equipment manufacturer (OEM).Request MMRCL to provide the SOD (schedule of Dimension) in advance for planning & finalization of the tunnel equipment.	Refer Addendum SN 14

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42	47	Meeting the SLA is depend on the work permission, power block, Engineer from MMRCL for putting the discharge rod etc., these are not in the control of Licensee hence we request to MMRCL to remove this Clause from this RFP.	Refer Addendum SN 15
43	-	If fire sealing and false ceiling have already closed at all the locations by MMRCL. We assume that opening and closing the fire sealing and false ceiling including wall/core cutting etc will be in the scope of MMRCL and MMRCL shall complete these activity at their cost and timelines to meet the IBS commencement timelines.	Refer SN 39 above
44	-	We request MMRCL to provide CAD drawing with marking of equipment room of each station and associated tunnels in advance for IBS-DAS planning.	Refer SN 3 above
45	-	If the Licensee is required to provide all the 3 services- IBS, Station Wi-Fi, Telecom Towers	Refer SN 8 above Telecom Towers to be installed based on technical feasibility and is not mandatory for the Licensee.
46	-	Is it mandatory for Licensee to onboard minimum 3 Mobile Operators. Is onboarding of MSPs is to be mandatorily done by Licensee from day 1?	Refer SN 14 above
47	-	Sub-contracting is not permitted. Does it mean that Licensee would not be allowed to contract out the deployment and maintenance activities to 3rd party vendors?	It is hereby clarified that sub-licensing of the rights under this License is not permitted; third party vendors can be contracted for installation and O&M
48	-	Is it mandatory to deploy infrastructure supporting 2G/3G/4G/5G technology from day 1?	Refer SN 6 above
49	-	Can the proposer put conditions to the bid i.e. if Licensee wants to bid only for DAS and Towers and not for Wi-Fi OR, Licensee may bring 3 MNOs within 1 year of time period OR 5G technologies to be deployed only after consent from mobile operators etc?	All bids should be unconditional and comply with all terms and conditions of the RFP
50	-	Is it mandatory to bring 3 Mobile Operators on day 1 at 26 overground ancillary buildings?	Refer SN 14 above
51	47	Can Licensee decide on the timing of deployment of technology solution such as 4G/5G in alignment with mobile operators? For clarity, Licensee may deploy technology solution up to 4G on day 1 and 5G within 1 year of handover date?	Refer SN 6 above
52	31	Further letter regarding agreement from 2 operators on the acceptability on design and technical details have been asked for where as design will be drawn after complete survey and CAD drawings of the tunnel and stations. Hence a simple interest letter from the 2 operators may kindly be asked for instead of design acceptability.	Refer SN 16 above

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53	31	In this connection it is submitted that MTNL is going through financial crisis and wont be able to pay to IP in terms of rent and infrastructure. It is therefore requested that the same requirement may kindly be waived off.	Refer SN 15 above
54	-	WIFI and in building solutions work on different technologies , WIFI services can not be provided on the infrastructure laid for enhancement of mobile coverage. For WIFI separate infrastructure has to be installed. Hence WIFI services may kindly be excluded from this tender.	Refer SN 8 above
55	-	As per the tender bidder has to bid for underground as well as for overground. In this connection it is submitted that the solution / technology to be given in underground stations and tunnels is different from the solution to be given for overground. Hence it is submitted that while evaluating the H1 bidder both the underground and overground may kindly be evaluated separately for award of the tender and not as a whole.	MMRCL intends to have a single Licensee for both underground and overground scope of the License Tender conditions prevail
56	24	We suggest to lay separate leaky cable for 4G and 5G in tunnels for better operations and management	Tender conditions prevail
57	24	a) For PM WANI services will dark fiber,Transmission Network inclusive of switches and internet bandwidth and Wi-Fi infrastructure with APs to be provided by MMRCL across all stations ? b) We also suggest that apart from PM WANI services, exclusive rights should be given to bidder for paid Wi-Fi, Wi-Fi Roaming for TSPs/ISPs, complementary Wi-Fi.	Refer SN 8 above
58	-	c) We suggest that bidder should have exclusive rights for content and advertising services	Tender conditions prevail
59	-	As for providing PM WANI services for all stations basis scope of work, PDOA registration from DOT is required. We suggest to include this as part of eligibility criteria apart from Access Service License/IP-1 registration.	Refer SN 8 above

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60	-	<p>In most RFPs floated by airports, metro rail authority, etc., the technical eligibility being asked for is “one year experience” in any public area that could include any transit segment including metro rail, airport, buildings, etc. We suggest including “experience criteria” in line with the same.</p> <p>For your ready reference, here is an extract from one of the IBS RFPs</p> <ul style="list-style-type: none"> - The bidder should have executed In-Building Solution (IBS) works for providing shared Mobile Coverage Solution for at least 1 no. of Metro Rail Network/ Airports/Multistorey Buildings/Malls or tunnels for GSM/CDMA/Wi-Fi/VoLTE operators. - The agency engaged in installation of IBS must have minimum experience of one year in managing In-Building Solutions (IBS) for providing shared Mobile coverage solutions for various types of telecom operators like GSM/CDMA/Wi-Fi/VoLTE in public areas after installation. <p>The above will bring consistency with similar deployments (more so as Mumbai Metro is looking at being comparable in experience with Airports) and increase the pool size of the participants. It also reflects a best practise adopted by many comparable tenders like Pune Metro, Gujrat Metro, DMRC, and various other Airports – both in India and abroad</p>	Tender conditions prevail
61	-	We also suggest that the average annual turnover in last 3 financial years be retained at ~ INR 5 Cr as per similar competitive tenders and precedence seen.	Refer Addendum SN 4
62	-	We suggest that consortium or joint venture should be permitted as seen in similar tenders. There are different scope of work with domain expertise in all 3 fields i.e. IBS, Wi-Fi, Towers, etc. so in a single window approach, consortium or joint venture should be allowed.	Tender conditions prevail
63	-	We suggest for the license period to be extendable from 3 years to 6 years as per similar competitive tenders and precedence seen	Tender conditions prevail
64	-	<p>Building on the lessons learnt from all similar tenders of the recent past, our suggestion is that the tender condition must mandate</p> <ol style="list-style-type: none"> a. Binding commercial closure with mobile service providers (and not a soft LOI which could not be invariably honoured) on the financial pass-through commitments being proposed through the tender bid <p>This will also address the burning concerns of DOT / TRAI with regards to indoor coverage and monopolisation.</p>	Refer SN 16 above

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65	-	we request for the extension of bid submission timeline by 1-2 weeks as we need some time to prepare the technical solution and commercials working.	Refer SN 29 above
66	24	Can Wi-Fi be provided through bidder's sister concern? No ISP one provider, provides Wi-Fi under same name due to regulatory norms.	Refer SN 8 above
67	26	The turnover requirement is huge and will jeopardise the very purpose of competitive pricing since very limited IPs will be able to participate in the tender due to huge turnover requirement In addition, the turnover requirement Chennai metro was Rs. 13Cr, Chennai Airport was Rs Rs. 8.88 Cr, Varanasi Airport Rs. 11 Lac MAHA Metro Pune was 2.43 Cr, Kolkata Airport was 1.55 Cr Gujrat Metro was NIL. For competitive bidding and for the benefit Mumbai metro this financial condition may be reduced in line with the above tenders	Refer SN 61 above
68	-	Does this mean that IP can participate through MSP	No
69	-	is the cost is for all antenna in one station or one antenna per station Cable tray cost is not defined - is it per station, or is it per mtr	This additional license fee is not per repeater, rather it is per station and adjacent tunnel as a single unit.
70	-	Telecos has informed that they will issue letter only to one IP and not to all IPs so that they don't have to pay high licence fee	Refer SN 16 above
71	-	Since one of the MSP is in financial crunch, it won't be possible to bring all 3 telecos from ROD	Refer SN 15 above
72	-	telecos have raised a query that if they can be enjoy a free ride after 6m , why should they come onboard early?	Refer Addendum SN 8
73	15	Permission and space will be provided for towers to be installed on top of underground stations and Pole on top of building at grade stations.	All installations shall be after due approval from MMRCL Refer clause 3.9.6(iii) of the RFP which states that "The Authority shall facilitate sourcing of such approvals where required and feasible."
74	15	Requested to provide the height of the station from the ground level and also the latitude and longitude of the same.	Refer SN 3 above For latitude & longitude coordinates, refer to the DPR (https://mmrcl.com/sites/default/files/dpr-metro-line-III.pdf)

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75	15	Kindly apprise whether small cell towers can be installed at the entry or exit of the metro stations to provide better connectivity to the commuters while entering or leaving the premises	Tender conditions prevail
76	15	kindly apprise on how many floors/area the shareable mobile coverage to be provided in the 2 levels of stations (concourse and platforms)	Refer SN 3 above
77	23	The telecom coverage of the overground structure in the Ancillary Building lists will be done through the outdoor (tower/pole) sites as per the permission provided by Mumbai Metro	Refer SN 73 above
78	23	Metro Aarey Depot building coverage will be provided by outdoor (tower/pole). Permission with respect to the same will be provided / arranged by Mumbai Metro.	Refer SN 73 above
79	24	<p>To get access to Wi-Fi, user needs to get a OTP first and then user can get the access of Wi-Fi but since Mumbai City is so fast moving and people here doesn't stop, so at Metro station people will not wait to get the OTP and then switch to Wi-Fi from their mobile data. It is also to be noted that to provide Wi-Fi services a significant amount of investment is required and monetization of the same is not possible. Therefore, it is requested to remove Wi-Fi solution as there is no use case for the same due to reduced mobile tariffs and operators provide huge data to their consumers.</p> <p>the proposed shared mobile indoor coverage system is 5G ready which will provide user hi-speed data experience. Majority of user of metro will be mobile and will not use Wi-Fi network with OTP authentication, so requested to remove Wi-Fi condition from this RFP.</p>	Refer SN 8 above
80	29	<p>Licence period should start from 6 month of handover or operationalise of last Metro station whichever is later. This is required to complete the construction in 6 month time.</p> <p>Licence period should start from 6 month of handover or operationalise of last Metro station whichever is later</p>	Tender conditions prevail
81	30	confirmation for utilization of Existing Cable tray/ J hanger for Cables routing without additional charges	Refer SN 32 above

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82	30	At station about 100 low power omni or panel antenna will be installed so in view of the same charges of Rs.25000/- per station and adjoining tunnel would be part of overall license fee and not as a separate charge.	Tender conditions prevail
83	30	Request if there is not be any additional license fee and all fee should be included in the license fee as there is no possibility of using the cable trays separately or avoiding the use of cable trays. Overall dues to Authority would be protected in form of increased license fees	Tender conditions prevail
84	31	It is requested that as a part of bid, LOI from one of the customers should suffice. Acceptability of design and technical details will required proper planning and designing on tools along with all relevant AutoCAD drawing of Metro Stations along with tunnel which is normally done post winning of bid. Moreover, the LOI from one customer is a sufficient indication that the solution / design would be acceptable to the others.	Refer SN 16 above
85	31	As a IP we invest in infrastructure and shared the passive infra with customer. Viability of business in particular area is part of MSP choice. And hence minimum MSP clause should not be part of the contract	Refer SN 15 above
86	31	As a IP we invest in infrastructure and shared the passive infra with customer. Viability of business in particular area is part of MSP choice. And hence MSP clause should not be part of the contract	Refer SN 72 above
87	31	Considering there are no other MSPs in the country, licensee is also allowed to sell infra to other service providers on non-discriminatory basis with an increase of 5% of License Fees (this is considering other service providers use less than 1/3rd of the services in comparison to the MSPs)	Refer Addendum SN 9
88	31	It is requested that the bidder / licensee should be bound to serve all MSPs / service providers on a non-discriminatory basis. There should be nothing which is prohibitive for any of the MSPs to be onboarded by ROD. Licensee to give a certification for the same.	Tender conditions prevail
89	31	Request if the penalty period of 6 months should not be treated as an automatic termination of the License. It is requested that since the Telecom Industry is going through various changes including financial and it will not be feasible to commit for all the MSP to be on-boarded.	Refer SN 15 above Tender conditions prevail

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90	31	It is requested that since the Telecom Industry is going through various changes including financial and it will not be feasible to commit for all the MSP to be on-boarded. Therefore, we request to waive off the clause of 10% of monthly license fee.	Refer SN 15 above Tender conditions prevail
91	32	only Floor space will be considered (Space on J hanger or Space on Cable should not be considered)	Refer Addendum SN 12 It is clarified that space on J-Hangar and Cable Trays shall not be counted within the space eligibility of the Licensee. Access to existing cable trays will be provided by MMRCL.
92	32	It is requested to provide all the required support to get a separate EB connection with Submeter.	Refer SN 35 above
93	32	Fiber network of the station has to be integrated with MSP optical fiber network for connectivity. Mumbai Metro to provide permission to lay fiber in the Mumbai metro premises to establish the same.	Refer SN 11 above
94	32	permission required from Metro for providing earthing point tapping from existing earthing of metro	Refer SN 37 above
95	33	confirmation for utilization of Existing Cable tray/ J hanger for Cables routing without additional charges	Refer SN 32 above
96	33	To provide the coverage as per the requirement of RFP of 95% of area MMRC has to provide permission as per bidder technical requirement. In case permission cannot be given due to whatever reason then on case to case basis relaxation has to be given to the bidder on coverage of 95% of area	It is clarified that the 95% coverage clause applies to underground stations and tunnels and not to the overground ancillary structures
97	33	Request if additional overground structures are not leading to pro-rata increase in the license fees as this would be an unnecessary burden and would result in lower bidding values upfront	Tender conditions prevail. Overground ancillary buildings are not expected to be covered by IBS as these are unmanned structures.
98	33	Request if the commercial feasibility is not there for a station, the same should also result in reduction in the license fee on pro-rata basis. The same would be communicated in the bid itself.	Refer SN 55 & 97 above
99	34	The telecom network is governed by Department of Telecommunication and TRAI. MMRC to mention the reports or any supporting document required for its information and do away with clearance certificate from its signal and telecom department	Reports shall be submitted to MMRC for record and information only.

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100	37	Since, the payment is in advance, we request you to kindly make 90 days in place of 60 days and since huge investment is made and cost is involved in that as well, therefore we require that clause of termination of agreement needs to be deleted and this should not include the disputed amounts.	Tender conditions prevail
101	38	if any theft, loss or damage caused to the Licensee's assets due to the factors which are not in control of Licensee, then cost of such damages needs to pay by metro to the licensee as metro is charging Rs.25,000/- per station (as per clause 3.8 mentioned on page 30)	Tender conditions prevail
102	39	The property tax pertaining to any space/establishment used by Licensee for providing services as per scope should only be recovered from the Licensee. Property tax which is payable to the authorities even if the services under this agreement are not be taken, shall be borne by the Licensor only.	Tender conditions prevail
103	39	MMRCL shall facilitate the licensee for necessary approvals.	Refer SN 73 above
104	41	EB connection with Submeter is requested from Metro	Refer SN 35 above
105	42	If the interference is caused to existing TETRA system because of Licensee deployment, Licensee to fix it at their own risk and cost, within a period of 2 weeks. However, if the Authority installs a new radio system after Licensee deployment and interference is caused, Authority/third-party to fix it at their own risk and cost.	Tender conditions prevail
106	46	Any delay caused from the end of the Licensor shall be granted as additional time for vacating the space and no penalty shall be levied.	Tender conditions prevail
107	47	IP is not specialised in wifi & Network and hence should be descope from their responsibility	Refer SN 8 above
108	47	confirmation for utilization of Existing Cable tray/ J hanger for Cables routing without additional charges	Refer SN 32 above
109	47	The placement of repeaters and other units will be as per the bidder design requirement and may vary	Refer SN 41 above
110	47	The placement of repeaters and other units will be as per the bidder design requirement and may vary	Refer SN 40 above

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111	47	MMRC to approve the installation of antenna / equipment as per the design requirement. If the location is changed due to permission of MMRC then relaxation has to be given in this clause	Tender conditions prevail
112	49	Licensee shall indemnify the Licensor to the extent of loss/damage caused to the licensor/authority for cases where the default or the damage/loss has been incurred to Licensor by any wrong/ any other action of Licensee not specified under this contract. Also, such loss/damage shall not exceed the net amount received by licensee under the contract.	Tender conditions prevail
113	-	MMRC will need to provide space for equipment room as per bidder technical requirement that is central location close to shaft location to minimize the length of backbone cables	The Telecom Carrier Room is already fixed in the station layout and its location cannot be changed
114	64	It is requested to allow to have a right to bid separately for Metro Stations and separately for Ancillary Building as the solution to be provided for Metro Station is totally different from the solution for providing solution on Ancillary Building. It is requested to de-link sharable mobile indoor coverage from that of Ancillary Buildings. It is also requested to arrange the permission on case to case basis from concerned authorities for installing the tower or pole on Ancillary Building	Refer SN 55 & 97 above
115	24	1) Who will bring the ISPs to provide bandwidth? ; 2) Who will pay for bandwidth? ; 3) What will be the revenue model?	Refer SN 8 above
116	25	Please elaborate on reason for not permitting.	Tender conditions prevail
117	26	Would request to provide the relaxation in Average annual turnover upto 25 Crore in the preceding three financial years	Refer SN 61 above
118	28	Are these buildings to be covered with IBS ? If yes then description of the building along with area to be covered	Overground ancillary buildings are not expected to be covered by IBS as these are largely unmanned structures.
119	28	When it can be done & for which stations.	Refer SN 25 above
120	30	Can this be waived off.	Tender conditions prevail
121	33	Industry standard is between 10-15% every 3 years. So request you to relook in this.	Tender conditions prevail
122	-	Please allow Consortium or JV for applicant, as MML-3 is very prestigious and biggest project in history of Indian Metro Rail, so we want to introduce latest and innovative technology for this project from our Partner from Europe.	Tender conditions prevail

SN	RFP Pg. No.	Query Received	MMRCL Response
123	-	Criterion for MSA signoff before this work will not possible for many of competitors. So please reconsider this criterion.	Refer SN 16 above
124	-	Please reconsider Financial Criterion of last three years Turnover. Turnover requirement mentioned in RFP is too high for IP companies.	Refer SN 61 above
125	-	we will provide telecom operators services orders to validate sqft area	Refer Page No. 26 of the RFP which states that "Certificate from client certifying operationalization of IBS for period of at least 1 year (should specify operationalization of basement / underground section)"
126	-	Minimum average annual turnover of Rs.25 crore in the preceding three financial years	Refer SN 61 above
127	-	Before Submission kindly allow the site survey also provide a detailed 3D render of the layout and network map prior to site visit for studying the network layout.	Refer SN 3 above
128	-	<p>If we refer PM-WANI enable Wi-Fi devices we will be facing lot of challenges to follow PM WANI guidelines, so we request to remove PM-WANI scheme for this tender</p> <ul style="list-style-type: none"> •We agree to provide free Wi-Fi service on all stations. •We can offer 4x4 MIMO Wi-Fi service at each station and up to 50Mbps Internet speed to each end user for first 30 minutes each day and beyond that additional up to 50Mbps unlimited pack for next 24Hrs for Rs.10/-. •Revenue collection through online payment mode will be collected by the bidder. •Similar Experience of Wi-Fi in any govt. project is necessary. •We are proposing minimum 10 access point at each station. Total 270 access point will be required for all stations. •For seamless Wi-Fi connectivity we require 2 Pairs from existing/new OFC. 	Refer SN 8 above

SN	RFP Pg. No.	Query Received	MMRCL Response
		We suggest that in addition to bidding for the IBS setup, the bidder can also quote for the Wi-Fi setup separately. This Wi-Fi facility will require the bidder to have an ISP Class B (Mumbai circle) or Class A licence from DoT, Gol. The Wi-Fi Facility will be given free to all commuters for first 30 minutes and after 30 minutes the internet service will be chargeable for 24 hours of usage. On revenue share basis. It will be then upto MMRC to decide whether or not to award the IBS and Wi-Fi setup to a single bidder or to 2 different bidders. At this point of time or at a later stage. It will prevent the need to call for a separate RFP for Wi-Fi services at a later date. The infrastructure required for a Wi-Fi service supplements that required for a IBS setup.	
129	-	Kindly reconsider the clause to allow a reasonable stable bidder by allowing- Minimum average annual turnover of Rs 50 Crore in the preceding three financial years AND Net Worth of minimum Rs 15 Crore as of 31 Mar 2022	Refer SN 61 above
130	-	For Wi-Fi service additional ISP Class B (Mumbai Circle) or Class A License is required.	Refer SN 8 above
131	-	Experience of IBS installations operations for at least (1 metro line with at least 4 underground stations OR (2 airports OR (5 government/ institutional commercial buildings with built up area of at least 1 lakh sq ft each involving basement coverage during the last 10 years (not older than FY 2013 14	Refer Addendum SN 5
132	-	Kindly Re-Consider this clause, this will allow the MSP to have upper hand in prices, which will affect our commercial viability. Past work order of at least 2 MSP's for minimum 10Cr. each to be considered for evaluation.	Refer SN 15 above
133	-	In case If any MSP closes down their service in such case 3 MSP's clause cannot be considered.	Refer SN 15 above
134	-	There is no provision mentioned for power back up e.g. UPS or power Generator. Due to it Up time of service will be affected.	Refer SN 35 above
135	-	Kindly amend it to 99% and no penalty if downtime starts during work time i.e.4:00 AM to 12:00 Midnight and if fixed prior to next work time. As any repairs are possible between 12:00 midnight	Refer SN 42 above

SN	RFP Pg. No.	Query Received	MMRCL Response
136	-	There is no clarity in the RFP document on the type of electrical cabling and Leaky Cabling to be used in the IBS setup. In a closed environment like the underground Metro, the cable should have a special type of cable insulation which is fire retardant and which does not give out poisonous fumes while burning.	Refer clause 3.91.16(xix) which clarifies this. Further, it is clarified that the cables should be fire retardant, low-smoke, zero halogen cables.
137	-	UPS power backup and/ or power generator: There is no mandatory requirement for a UPS power backup or for a generator. This needs to be clearly defined in the RFP. The type of power backup and the time for which the power backup should be operational.	Refer SN 35 above
138	-	Mentions that the bidding entity should not have been debarred from "Any Central or State Ministry or Department in India". (a) Does this include: i. Any statutory authority in India, or, ii. Any Public Sector Undertaking (PSU) of Government of India, or, iii. Any State Government READY AREA OF VALUE of the Government of Maharashtra Does this clause also debar any bidding entity which has failed to perform on any agreement, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the applicant, or has been expelled from any project or agreement or has had any agreement terminated for breach by such applicant.	Tender conditions prevail

Sd/-

Executive Director (Planning)
Mumbai Metro Rail Corporation Limited

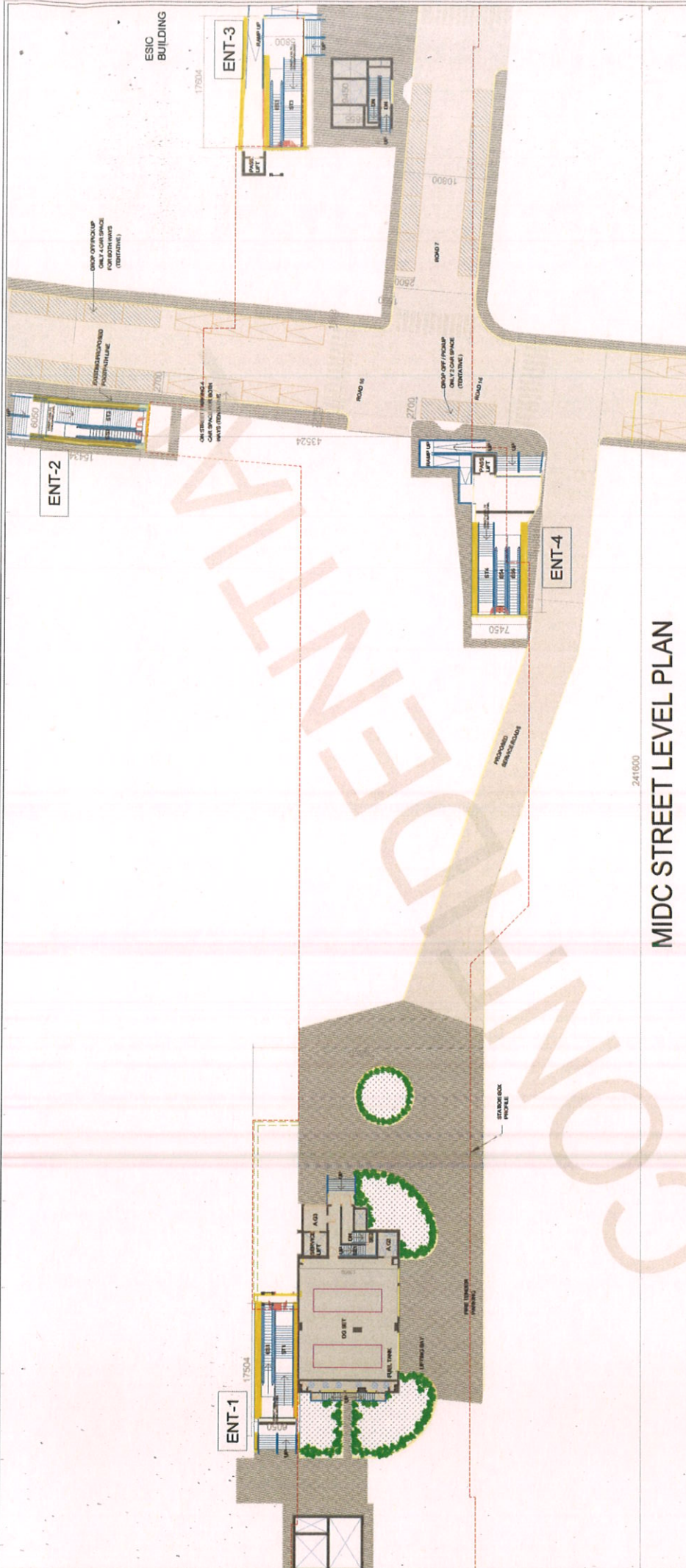
DISCLAIMER:

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The objective of this document is to provide information to the interested parties about requirement of MMRCL 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. MMRCL 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. MMRCL may, at their absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this document.

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ANNEXURE



241000

MIDC STREET LEVEL PLAN

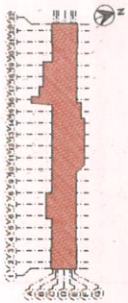
STAIR TAG	DESCRIPTION	WIDTH (M)
ST1	STAIRCASE AT ENTRANCE 1	2.45
ST2	STAIRCASE AT ENTRANCE 2	2.45
ST3	STAIRCASE AT ENTRANCE 3	2.45
ST4	STAIRCASE AT ENTRANCE 4	2.1
ST5	PUBLIC STAIRCASE	1.8
ST6	PUBLIC STAIRCASE	1.8
ST7	PUBLIC STAIRCASE	1.8
SE3	FIRE ESCAPE STAIRCASE	1.5
SE4	FIRE ESCAPE STAIRCASE	1.5
SE5	FIRE ESCAPE STAIRCASE	1.5
SE6	FIRE ESCAPE STAIRCASE	1.5
SE7	FIRE ESCAPE STAIRCASE	1.2
SE8	FIRE ESCAPE STAIRCASE	1.2
PM1-RTS	FIREMAN'S STAIRCASE	1.2

MARK	DESCRIPTION	WIDTH (M)	DEPTH (M)	TOTAL WIDTH (M)
E31	ESCALATOR AT ENTRANCE 1	1	1.73	1.73
E32	ESCALATOR AT ENTRANCE 2	1	1.73	1.73
E33	ESCALATOR AT ENTRANCE 3	1	1.73	1.73
E34	ESCALATOR AT ENTRANCE 4	1	1.73	1.73
E35	ESCALATOR AT ENTRANCE 1	1	1.73	1.73
E36	ESCALATOR	1	1.73	1.73
E37	ESCALATOR	1	1.73	1.73
E38	ESCALATOR	1	1.73	1.73
E39	ESCALATOR	1	1.73	1.73

MARK	DESCRIPTION	SIZE (M X M)
L2	PASS. LIFT AT ENTRANCE 3	2.5 x 2.0
L3	PASS. LIFT AT ENTRANCE 4	2.5 x 2.1
L4	PASS. LIFT	2.5 x 1.9
L5	PASS. LIFT	2.5 x 1.9

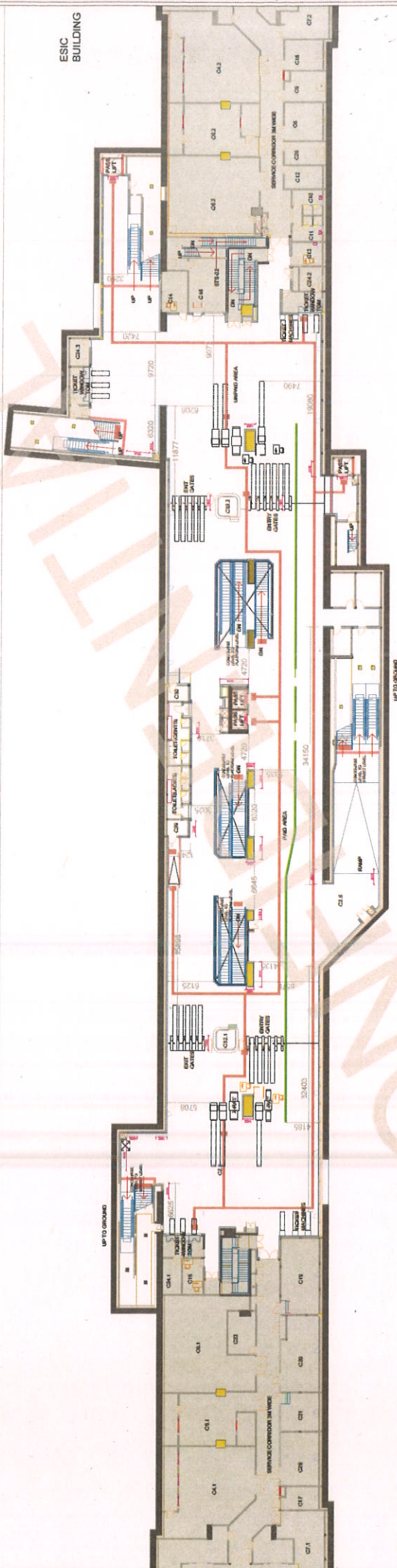
ROOM TAG	DESCRIPTION	AREA (M ²)
C1	CONCOURSE PAD AREA	574 m ²
C2.1	CONCOURSE UP/POD AREA	493 m ²
C2.2	CONCOURSE UP/POD AREA	300 m ²
C2.3	CONCOURSE UP/POD CORRIDOR	493 m ²
C2.4	CONCOURSE UP/POD CORRIDOR	154 m ²
C2.5	ENTRANCE SUBWAY	252 m ²
C2.6	ENTRANCE SUBWAY	186 m ²
C3.1	TV FAN ROOM	186 m ²
C3.2	TV FAN ROOM	111 m ²
C4.1	OTE FAN ROOM	111 m ²
C4.2	OTE FAN ROOM	56 m ²
C5.1	UPS FAN ROOM	56 m ²
C5.2	UPS FAN ROOM	127 m ²
C6	AHU ROOM	127 m ²
C7.1	AHU ROOM	44 m ²
C7.2	TVF SWITCH GEAR AREA	44 m ²
C8	TVF SWITCH GEAR AREA	25 m ²
C9	ELECTRICAL ROOM	19 m ²
C10	AIR COMPRESSOR ROOM	11 m ²
C11	LADIES LOCKER ROOM	11 m ²
C12	GENTS LOCKER ROOM	15 m ²
C13	STAFF REST ROOM	12 m ²
C14	FIRST AID ROOM	18 m ²
C15	STATION MANAGERS ROOM	13 m ²
C16	SECURITY ROOM	35 m ²

ROOM TAG	DESCRIPTION	AREA (M ²)
C17	SCADA 1	14 m ²
C18	SCADA 2	20 m ²
C19	TELECOM EQUIPMENT ROOM	47 m ²
C20	801 UPS ROOM	20 m ²
C21	801 UPS ROOM	20 m ²
C22	STFT MAINTENANCE PANEL ROOM	14 m ²
C23.1	TICKET OFFICE	14 m ²
C23.2	TICKET OFFICE	12 m ²
C24.1	TICKET OFFICE	9 m ²
C24.2	CASH ROOM	9 m ²
C25	ACO MAINTENANCE ROOM	15 m ²
C26	FILTER CLEANING ROOM	35 m ²
C27	ELECTRICAL ROOM	20 m ²
C28	PASSENGER TOILET (GENTS)	12 m ²
C29	PASSENGER TOILET (LADIES)	5 m ²
C30	PHYSICALLY CHALLENGED TOILET	5 m ²
C31	CLEANERS ROOM	8 m ²
C32.1	REFUSE STORE	8 m ²
C32.2	EFO	8 m ²
C33	EFO	14 m ²
C34	SECURITY CHANGE ROOM (LADIES)	1 m ²
C35.1	SECURITY CHANGE ROOM (GENTS)	1 m ²
C35.2	NAPPI CHANGE AREA	2 m ²
C36	CAS BANK	2 m ²



240030

ESIC BUILDING



MIDC CONCOURSE LEVEL PLAN

STAIR TAG	DESCRIPTION	WIDTH (M)
S11	STAIRCASE AT ENTRANCE 1	2.45
S12	STAIRCASE AT ENTRANCE 2	2.45
S13	STAIRCASE AT ENTRANCE 3	2.45
S14	STAIRCASE AT ENTRANCE 4	2.1
S15	PUBLIC STAIRCASE	1.8
S16	PUBLIC STAIRCASE	1.8
S17	PUBLIC STAIRCASE	1.8
SEA	FIRE ESCAPE STAIRCASE	1.5
SEB	FIRE ESCAPE STAIRCASE	1.5
SEC	FIRE ESCAPE STAIRCASE	1.5
SED	FIRE ESCAPE STAIRCASE	1.5
SEF	FIRE ESCAPE STAIRCASE	1.2
SEI	FIRE ESCAPE STAIRCASE	1.2

MARK	DESCRIPTION	SIZE (M X M)	TOTAL WIDTH (M)
E81	ESCALATOR AT ENTRANCE 1	1.73	1.73
E82	ESCALATOR AT ENTRANCE 2	1.73	1.73
E83	ESCALATOR AT ENTRANCE 3	1.73	1.73
E84	ESCALATOR AT ENTRANCE 4	1.73	1.73
E85	ESCALATOR	1.73	1.73
E86	ESCALATOR	1.73	1.73
E87	ESCALATOR	1.73	1.73
E88	ESCALATOR	1.73	1.73
E89	ESCALATOR	1.73	1.73

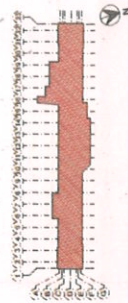
MARK	DESCRIPTION	SIZE (M X M)
L2	PASS. LIFT AT ENTRANCE 3	2.5 x 2.0
L3	PASS. LIFT AT ENTRANCE 4	2.5 x 2.1
L4	PASS. LIFT	2.5 x 1.9
L5	PASS. LIFT	2.5 x 1.9

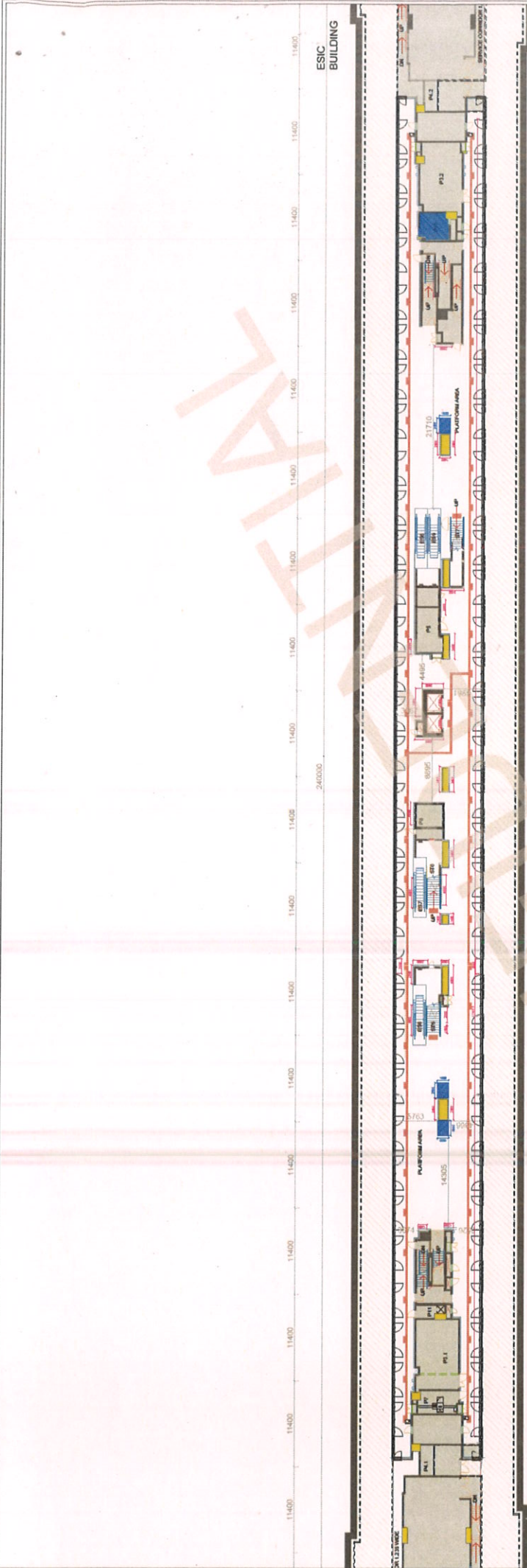
ROOM SCHEDULE CONCOURSE LEVEL

ROOM TAG	DESCRIPTION	AREA (M ²)
C01	CONCOURSE PAD AREA	54 m ²
C02	CONCOURSE PAD AREA	59 m ²
C03	CONCOURSE PAD AREA	40 m ²
C04	CONCOURSE PAD CORRIDOR	36 m ²
C05	ENTRANCE SUBWAY	154 m ²
C06	ENTRANCE SUBWAY	236 m ²
C07	TV FAN ROOM	185 m ²
C08	TV FAN ROOM	189 m ²
C09	OTE FAN ROOM	111 m ²
C10	OTE FAN ROOM	111 m ²
C11	UPS FAN ROOM	56 m ²
C12	UPS FAN ROOM	56 m ²
C13	AHU ROOM	127 m ²
C14	AHU ROOM	127 m ²
C15	TVF SWITCH GEAR AREA	44 m ²
C16	TVF SWITCH GEAR AREA	44 m ²
C17	ELECTRICAL ROOM	25 m ²
C18	AIR COMPRESSOR ROOM	19 m ²
C19	LADIES LOCKER ROOM	11 m ²
C20	GENT'S LOCKER ROOM	11 m ²
C21	STAFF REST ROOM	15 m ²
C22	FIRST AID ROOM	12 m ²
C23	STATION MANAGERS ROOM	18 m ²
C24	SECURITY ROOM	13 m ²
C25	SCR ROOM	35 m ²

ROOM SCHEDULE CONCOURSE LEVEL

ROOM TAG	DESCRIPTION	AREA (M ²)
C27	SCADA 1	14 m ²
C28	SCADA 2	20 m ²
C29	TELECOM EQUIPMENT ROOM	20 m ²
C30	SET UPS ROOM	20 m ²
C31	SIGNALING EQUIPMENT ROOM	20 m ²
C32	STPT MAINTENANCE PANEL ROOM	20 m ²
C33	TICKET OFFICE	14 m ²
C34	TICKET OFFICE	14 m ²
C35	TICKET OFFICE	12 m ²
C36	CASH ROOM	9 m ²
C37	AFC MAINTENANCE ROOM	9 m ²
C38	FILTER CLEANING ROOM	15 m ²
C39	ELECTRICAL ROOM	25 m ²
C40	PASSENGER TOILET (GENTS)	20 m ²
C41	PASSENGER TOILET (LADIES)	18 m ²
C42	PHYSICALLY CHALLENGED TOILET	5 m ²
C43	CLEANER'S ROOM	5 m ²
C44	REFUSE STORE	5 m ²
C45	EFO	5 m ²
C46	EFO	5 m ²
C47	SECURITY CHANGE ROOM (LADIES)	14 m ²
C48	SECURITY CHANGE ROOM (GENTS)	14 m ²
C49	NAPPY CHANGE AREA	1 m ²
C50	NAPPY CHANGE AREA	2 m ²
C51	CASH BANK	2 m ²





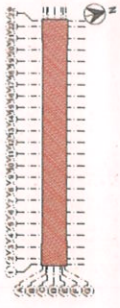
MIDC PLATFORM LEVEL PLAN

MARK	DESCRIPTION	STEP WIDTH (M)	TOTAL WIDTH (M)
ES6	ESCALATOR	1	1.73
ES7	ESCALATOR	1	1.73
ES8	ESCALATOR	1	1.73
ES9	ESCALATOR	1	1.73

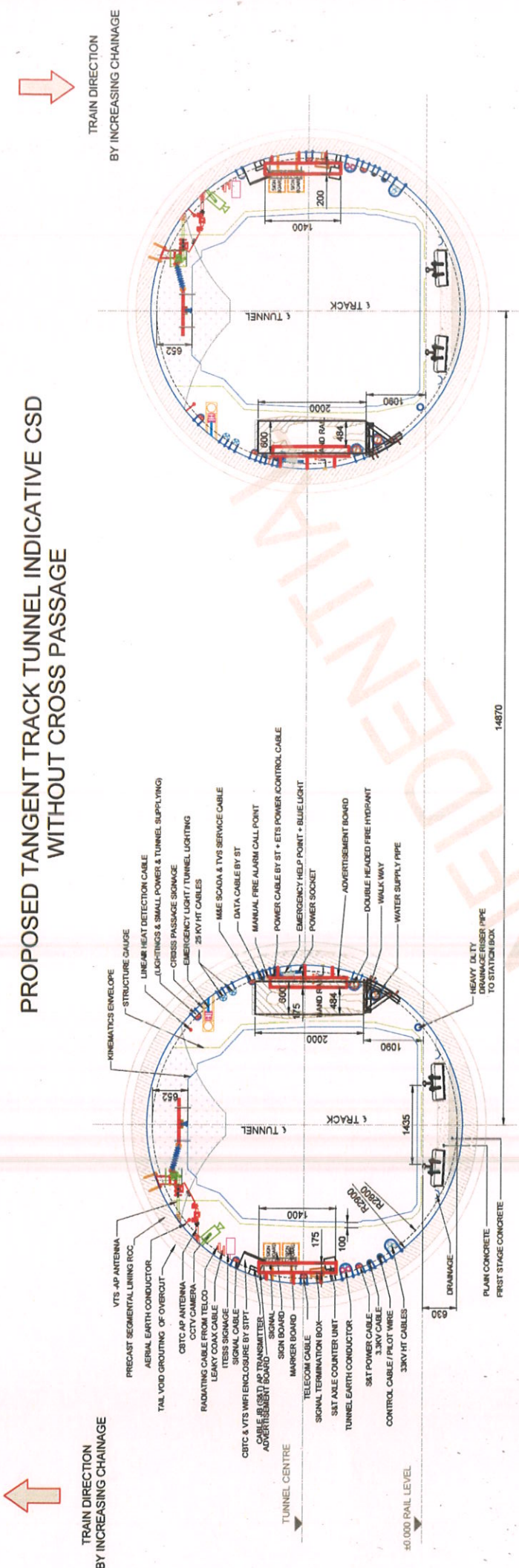
MARK	DESCRIPTION	SIZE (M X M)
L4	PASS. LIFT	2.5 X 1.9
L5	PASS. LIFT	2.5 X 1.9

ROOM TAG	DESCRIPTION	AREA (M ²)
P1.1	PLATFORM AREA-1	Not Enclosed
P1.2	PLATFORM AREA-2	Not Enclosed
P2.1	ASS ROOM	197 m ²
P2.2	ASS ROOM	200 m ²
P3.1	ELEC UPS ROOM	51 m ²
P3.2	ELEC UPS ROOM	50 m ²
P4.1	ELECTRICAL DB ROOM	21 m ²
P4.2	ELECTRICAL DB ROOM	22 m ²
P5	SEWAGE EJECTOR PANEL ROOM	18 m ²
P6.1	SUMP PANEL ROOM	17 m ²
P6.2	SUMP PANEL ROOM	15 m ²
P7	PSD POWER ROOM	15 m ²
P8	REFUSE ROOM	11 m ²
P9	DISABLE REFUGE ROOM	10 m ²
P9	UNASSIGNED AREA	5 m ²
P10	COMM CARRIER ROOM	13 m ²

STAIR TAG	DESCRIPTION	WIDTH (M)
ST5	PUBLIC STAIRCASE	1.8
ST6	PUBLIC STAIRCASE	1.8
ST7	PUBLIC STAIRCASE	1.8
SE3	FIRE ESCAPE STAIRCASE	1.5
SE4	FIRE ESCAPE STAIRCASE	1.5
SE5	FIRE ESCAPE STAIRCASE	1.5
SE6	FIRE ESCAPE STAIRCASE	1.5
SE7	FIRE ESCAPE STAIRCASE	1.2
SE8	FIRE ESCAPE STAIRCASE	1.2
FM1	FIREMAN'S STAIRCASE	1.2
ST8 & 9	STAIR TO TRACK BED	1.235
ST10A11	STAIR TO TRACK BED	1.235
ST12A13	STAIR TO TRACK BED	1.235
ST14B15	STAIR TO TRACK BED	1.235



PROPOSED TANGENT TRACK TUNNEL INDICATIVE CSD WITHOUT CROSS PASSAGE



PROPOSED TANGENT TRACK TUNNEL INDICATIVE CSD WITHOUT CROSS PASSAGE

