

NAVI MUMBAI MUNICIPAL TRANSPORT UNDERTAKING

Ref.No. NMMT/TM/ENGG/ /14

Date:- 30/09/2014

Minutes of Meeting

Subject:- "DESIGN, DEVELOPMENT, IMPLEMENTATION AND OPERATION & MAINTENANCE OF INTELLEAGENT TRANSPORTATION SYSTEM (ITS) FOR NMMT, NAVI MUMBAI

Ref:- Re-Tender No. NMMT/TM/ENGG/26/2014-15

With reference to above, the pre-bid meeting held on 24th September 2014, in the presence of following representatives at the office of Joint City Engineer, New Head Office of Navi Mumbai Municipal Corporation, Navi Mumbai.

Sr. No.	Name	Representative
1	Shri. G. V. Rao	Joint City Engineer, NMMC
2	Shri. Vivek Achalkar	Dy. Engineer, NMMT
3	Shri. Brijnandan Kumar	UMTCL, Consultant NMMT
4	Shri. Aman Dalmiya	Vodafone
5	Shri. Nabajir Nath	Altruist Technologies Pvt. Ltd.
6	Komal Diaaiwal	Aeon Software
7	Shri. Ashish Tailor	Aeon Software
8	Supriya A	Trimax IT Infrastructure & Services Ltd.
9	Shri. Akshat Jain	Trimax IT Infrastructure & Services Ltd.
10	Shri. Asif Saiyed	KPIT Technologies
11	Shri. Anjali Randive	Atos
12	Shri. Bharat Randive	Atos
13	Shri. Rinso Paul	ARS Traffic & Transport Technologies
14	Shri. Dayand Naik	ARS Traffic & Transport Technologies
15	Sidhi Tyagi	Vodafone
16	Shri. Sarvottam Basutkar	Techno Sat Comm

The detail minutes of meeting are enclosed herewith for information & necessary amendments in the tender.

Sd/-
Transport Manager
NMMT

To,
All Tenderer's

Minutes of Meeting

Subject:- DESIGN, DEVELOPMENT, IMPLEMENTATION AND OPERATION & MAINTENANCE OF INTELLEAGENT TRANSPORTATION SYSTEM (ITS) FOR NMMT, NAVI MUMBAI

Ref:- Re-Tender No. NMMT/TM/ENGG/26/2014-15

Sr. No.	Page No.	Clause No.	Clause Mentioned in the tender	Tenderer's Suggestion	NMMT's Decision
1	35	Clause No.3.4.7.1	Bus Vehicle tracking device	Please clarify about the number of expected GPS unit required for this System.	It is inbuilt in the Bus
2	14	Clause No.3.1	The ITS Project is to be implemented for entire fleet of NMMT and the details of vehicles operating under City bus service areas under: City Buses: 500	Pls share AC and Non AC Bus details As we understand existing 500 buses are already having inbuilt GPS unit and Bus Driver console devices. Pls clarify. does not have objection with tender clause.	AC Bus -80 No. Non AC Bus - 420
3	General	-	Project Estimate	Kindly share the estimate cost of the Project.	It is item rate tender based on lowest quote, tender will be finalized.
4	29	Clause 3.4.5.4,	Card Issuance Points in City for concession & normal smartcard can be issued from any Location within Navi Mumbai.	Please Clarify,whether it is managed by Service Provider or NMMT?	It will be Managed by NMMT and service provider should support
5	12	Shedule A, Point No.10,	Due Date of Bid Submission	We request 3-4 weeks extension from 1st Oct 2014,This is require to study site more accurately.	Extended upto 8 th October 2014
6	178	Technical Specification	Architecture & Reliability:-Database should provide High availability & Disaster recovery using cost effective option of automatically synchronizing the transaction logs todisaster site, which in case of failover the other node provides the Availability of all data.	Please clarify about the Disater Recovery Center, estimate of the same is provided by Service provider or Not.	Disaster recovery center is not in scope
7	11	Shedule A,3(c), sl.No 7,8 and 9 under score of pg no.125	Experience in development and implementation of E-Ticketing machine having single project, Experience in development and implementation of Business Intelligent tools, Experience in development and implementation of Financial Accounting System	Please consider Subcontracting credentials under implementation of electronic ticketing machine ,financial account system and Business Intelligence tools.	1) Not allowed subcontracting. 2) Consortium allowed.
8	105	Clause No.3.5, Penalty for nonachieve ment of SLA Requiremen	The Penalty per Week is Rs. 500/-	Please consider the penalty per week is Rs.100	No Deviation

		t			
9	146	Clause No.5.68, Deployment of Manpower at CCC	Probable no. of personnel along with designation Project Manager, AVLS, PIS operator, Network Engineer, AFC/MIS resource, etc. This could be change according to project need as per direction of Authority.	Please confirm the no. of manpower required for control centre and bus station level during installation & O&M period.	
10	147	clause no.5.68	Facilitate the Protocol/files etc required for integrating the bus mounted GPS/PIS equipment to communicate with the ITS	Please clarify, NMMT will facilitate protocols + files integration from its' existing (ongoing) system integrator.	Yes, We will provide.
11	2. Schedule 'A'	c Experience	<p>Single Bidder or consortium partner should be able to demonstrate experience of having successfully implemented projects comprising below mentioned modules in the last five years and should have been operating the same for at least six months prior to the bid submission date</p> <ul style="list-style-type: none"> o Design, development and implementation of Web based IT solution o Web based application with open source framework o Data center setup o Automatic vehicle locating systems including hardware o LED based display o Financial Accounting System o Business Intelligent tools o Hand held device o Stores and Inventory application <p>Certified list of the different orders executed and the Work completion Report payments received for last 3 financial years along with the Certificate from the Chartered Accountant</p> <ul style="list-style-type: none"> • Copy of client citations / purchase order / Work Orders showing all the details sought. Reference for each of the projects has to be given and should contain the following information - Name of organization, individual/s to contact, phone number and address. <p>In case Foreign Company, documents other than English language should be accompanied by a notarized translation to English language only.</p>	<p>Kindly define "Financial Accounting System"</p> <p>Request you to consider project involving "MIS, Analytics and Decision Support System" as a replacement for Business Intelligence Tools as BI Tools is product and not a experience criteria.</p> <p>Request you to remove "Financial Accounting System" and "Stores and Inventory application"</p> <p>The project involves implementation of ETIMs, RFID smart cards and AFCS. Hence, request you to incorporate experience of AFCS and RFID smart cards project in eligibility criteria.</p> <p>Request you to consider Work Orders/ Purchase Orders/ Letter of Acceptance/ Letter of intent and Client Certificate as adequate proof against the same. Since, most of the govt. projects of similar nature are on BOOT/ BOT/ DBOT basis, it is not possible to procure "Work completion Report payments received for last 3 financial years along with the Certificate from the Chartered Accountant"</p>	<p>No deviation. pl read Business Intelligence Tools as Business Intelligence Software</p> <p>No deviation</p> <p>Experience in BOOT/BOT/DBOT system will be considered.</p>
12	5. Detailed Tender Notice	5.11. Relationship with Corporator(s)	1) The Tenderer shall not be associated presently or in the past with any of the office bearers of Corporators of Navi Mumbai Municipal Corporation, either directly or indirectly as specified in the section 10(f), (g) of BPMC Act. 1949. The Tenderer shall furnish an affidavit on a Non-Judicial stamp paperawarded to it shall be liable to be terminated	Kindly elaborate and request you to remove this clause.	No Deviation

			with its consequences.		
13	4. Eligibility Criteria	4. Eligibility Criteria	The bidder must meet the pre-qualification requirements as mentioned in Schedule A.	NMMT is asking for supply of components for marking system, Marking system should be based on projects.	No Deviation.
14	5. Detailed Tender Notice	5.16. Contents	Turnover statement certified by statutory auditors, audited annual report with profit and loss statement and balance sheet for the last three financial years(starting from 2010-11). All Consortium Members are required to submit following: Certificate from Statutory Auditors specifying the annual audited Turnover for last two years (Starting from 2010-11) from Information Technology related Business only.	Request you to change clause as: Copy of Turnover statement certified by Chartered Accountant, audited annual report with profit and loss statement and balance sheet for the last three financial years(starting from 2010-11). All Consortium Members are required to submit following: Copy of Certificate from Chartered Accountant, specifying the annual audited Turnover for last two years (Starting from 2010-11) from Information Technology related Business only.	Copy of Turnover statement certified by Chartered Accountant of last three years will be accepted.
15	5. Detailed Tender Notice	5.16. Contents	Up-to-date valid Clearance Certificates for Income Tax, Sales Tax, VAT, LBT registration/NOC, Service Tax with NMMC.	Kindly elaborate	Copy of statement certified by Chartered Accountant will be accepted.
16	5. Detailed Tender Notice	5.16. Contents	List of machinery and plant immediately available with the Tenderer for use on this Work and list of machinery proposed to be utilised on this Work but not immediately available and the manner in which it is proposed to be procured in Annexure 7.	Request you to remove this clause and associated forms etc, since plants and machineries are OEM specific and this project involves integrated services. These details are not relevant to the scope of this project.	This will not invite any eligibility issues. One can exempt this.
17	5.42. Bid Evaluation	d)	Each proposal would be evaluated against the 50-50 criteria. This means 50% weightage will be given to Technical proposal and 50% to financial proposal.	Request you to change clause as: Each proposal would be evaluated against the 75-25 criteria. This means 75% weightage will be given to Technical proposal and 25% to financial proposal.	No Deviation.
18	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in Project to provide Cloud Computing Solution or established or established Data Centre having single project of worth 1) Till 20 Lakhs - 2 Marks 2) 20 to 30 Lakhs - 3 Marks 3) 30 Lakhs and above – 5 marks		No Deviation
19	5.41. Evaluation Framework	Technical evaluation matrix:	Experience of development of web based application in Open source framework having single project of worth 1) upto 3 Crore - 2 Marks 2) 3-7 Crore - 3 Marks 3) 7 crores and above – 5 marks	Request to change clause as: Experience of development of web based application in Open source framework having single project of worth 1) upto 3 Crore - 2 Marks 2) 3-7 Crore - 3 Marks 3) 7 crores and above – 5 marks	No Deviation.

20	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in development and implementation of Financial Accounting System having single project of worth 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	Kindly define "Financial Accounting System" Request to change clause as: Experience in development and implementation of project involving Financial and data transaction in single project of worth 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	No Deviation
21	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in development and implementation of Business Intelligent tools having single project of worth 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	Request you to change clause as: Experience in development and implementation of "MIS, Analytics and Decision Support System" having single project of worth 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	No Deviation
22	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in development and implementation of E-Ticketing machine having single project of worth 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	Request you to change clause as: Experience in development and implementation of E-Ticketing machine having single Public transport project of worth 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	No Deviation
23	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in Development and deployment of Depot management solution for Public transport 1) till 20 lakhs - 2 Marks 2) 20 to 30 lakhs - 3 Marks 3) 30 lakhs and above – 5 marks	NMMT is asking for supply of components for marking system, Marking system should be based on projects.	No Deviation
24	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in providing Automatic Vehicle Locating System, Scheduling and Dispatch System, Passenger Information System for Public Transit System for in india / Abroad in single project Upto 100 Buses- 2 For 101 to 200 Buses- 3 More than 300 Buses – 5	Request you to change clause as: Experience in providing Automatic Fare Collection System (AFCS), Automatic Vehicle Locating System, Passenger Information System for Public Transit System for in india / Abroad in single project Upto 100 Buses- 2 For 101 to 200 Buses- 3 More than 300 Buses – 5	No Deviation
25	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in providing electronic smart card solution 1) 1000 card – 2 marks 2) 1000 to 5000 cards – 3 marks 3) 5000 and above cards- 5 marks	Request you to change clause as: Experience in providing electronic smart card solution 1) 10000 card – 2 marks 2) 10000 to 20000 cards – 3 marks 3) 50000 and above cards- 5 marks	No Deviation
26	Annexure E –4 -	Annexure E –4 -	-	Owing to company policies, certain OEMs cannot provide MAF in any format other than their standard format.	Accepted

				Hence we would recommend that MAF in formats other than the format provided in RFP be allowed to be submitted.	
27	5.41. Evaluation Framework	Technical evaluation matrix:	Experience in Project to provide Cloud computing Solution or established Data Centre having single project of worth	Please clarify NMMT wants cloud based solution or hosted solution.	Both option are part of schedule B.
28	3.4.24	3.4.24 (1)	Senior Technical Staff Member The STSM shall be available to the Project within seven days after LOI issuance.	Recommended to consider 45 days for deployment of STMS to the project location	No Deviation
28	4.a & b	Schedule A	a. Initial Security Deposit - 3 % of the Contract Sum. B, Further Security Deposit, to be deducted from Bills - 2 % of the Contract Sum	As per our understanding total performance security shall be 5% of contract value. (3 % in form of BG and 2 % shall be deducted from the running bill) . Recommended to accept a single BG of 5% vlaue of contract	Accepted
29		Schedule A	Contract Period : Work Execution period from Date of work order issued - 6 months Defect Liability period after successful implementation and Go live of project – One Year. (After final Bill). During Defect liability period, operation and running charges need to be born by vendor. Annual Support Period - 5 year after defect liability period 3.7. Project Duration and Operational Model The overall duration of the project is five years post go-live of the entire system, i.e. the system integrator shall operate and maintain the system for contract duration of five years from the date of go-live and defect liability period of one year. Further extension may be possible.	As per this clause total project duration is 6 month for implememetation + one year defect liability after implementation + 5 Year Annual support after defecr liability . As per this schedule total contract period shall be 6 year 6 month . However as per clause No.3.7 overl all duration of project is five year post go live . As per our understanding total project duration is 6 year and 6 month . Please confirm	Yes
30		5.5	The Tenders will be valid for a period of 120 days from the date of its opening	Recommend to keep rate validity period 60 days from the last date of bid submission, As per SI No. 7 of Schedule A Page No. 12 mentioned as Bid Validity Period (i.e 425 days from Bid Due Date). Which is contradictory against clause No. 5.5. Recommended to amendment accordingly	Validity of bid will be 120 days.
31		5.17	b) The financial bid shall be inclusive of all taxes, Octroi, Local taxes, etc. to be paid by the Tenderer for the Work/Service and any claim for extra payment on any such account shall not be entertained.	Since project duration shall be for 6 Year and 6 month and rates of taxes could be increased / decreased during the contracxt period. Recommended to consider tax revision if any changes will be happen during the contract period.	No Deviation
32		5.25	1) Acceptance of Tender on behalf of the Corporation shall be done by an officer(s) to whom the powers are delegated by the Municipal Commissioner. The Corporation is not bound to accept the lowest or any Tender. The right to split up the Work/Service in two or more parts is reserved by the Corporation and also the right to award the Work/Service to more than one agency is reserved. The Corporation reserves the right to reject any or all Tenders received without assigning any reason whatsoever	Among how many bidders PO could be awarded , recommended to consider L1 bidder only to award for contract	PO/Contract will be awarded to L1 bidder only.

33		5.27	1) Successful Tenderer shall pay a Security Deposit equal to the Amount indicated in the Schedule A of the Detailed Tender Notice as security for due fulfillment of the contract, within seven (7) days after receipt of intimation in writing of acceptance of Tender.	Recommended to consider 15 days for acceptance of performance security acceptance of PO	No Deviation.
34		5.49	Within 15 days of the communication by NMMC (by Letter / Fax / E-mail) successful bidder will have to sign an Agreement Contract with NMMC & submit Security Deposit Signature of Tenderer No. of Corrections Signature of City Engineer equal to 5% of the Order value in the form of a Bank Guarantee from any Nationalized or Scheduled Bank, valid for the period till the completion of project (including defect liability period). This Bid Security will be forfeited if the project milestones are not adhered to as per the deadlines given. NMMC will release Security Deposit only after successful completion of project and submission of the Performance Bank Guarantee.	As per this clause 5% of contract value PBG required for entire contract period. However as per Schedule A SI No. 4 and page no 12 specified as a. Initial Security Deposit - 3 % of the Contract Sum. B, Further Security Deposit, to be deducted from Bills - 2 % of the Contract Sum . Please clarify what is correct percentage of performance security . Recommended total 5% of contract value as performance security	5% Security Deposit against project cost will be return after completion of One year defect liability period. A separate performance guarantee of 5% will be taken against annual maintenance charges
35		5.51	Master Services Agreement NMMC will enter into a Master Services Agreement with the vendor to detail all aspects of project planning, methodology, communication plan, deliverables, milestones, reporting and project mechanisms. This agreement will detail and finalize all details of project execution, only after which work order will be issued.	Requested to provide Draft copy of Master Service agreement.	It Will be provided to successful bidder.
36		5.5	5.50. Performance Bank Guarantee The performance bank guarantee will be taken @ 5% of annual support cost from the Naturalized Bank during support period. The proceeds of the performance bank guarantee shall be payable to NMMC as compensation for any loss / penalties / liquidated damages resulting from the vendors failure to complete its obligations under the contract for post implementation support. The performance guarantee shall be discharged by NMMC to the vendor within 60 days of the expiry of the warranty period	As per Clause No. 5.49 and SI No 4 of Schedule A already covered security amount 5% of contract value , hence it is recommended to remove this additional clause of PBG. It is recommended to keep total performance security upto 5% of contract value	5% Security Deposit against project cost will be return after completion of One year defect liability period. A separate performance guarantee of 5% will be taken against annual maintenance charges
37		5,62	Payment Terms Development of ITS Solution 1) Completion of SRS - 10% of Job Value 2) Completion of SDD - 10% of Job Value 3) Development and Deployment of ITS Application - 60% of Job Value Procurement, Installation and Testing of Hardware : 1) Procurement of Hardware - 70% of Job Value	Recommended Following payment Terms Advance 10% of Job value 1) Completion of SRS - 15% of Job Value 2) Completion of SDD - 15% of Job Value 3) Development and Deployment of ITS Application - 50% of Job Value Procurement, Installation and Testing of Hardware :	No Deviation.

			<p>2) Installation and Testing of all application -10% of Job Value Project Completion and Successfully Running of ITS solution: Testing , Training , GoLive & User Acceptance - 20% of Job value Note:-O & M charges will be paid in 30 days from the date of submission of Invoice</p>	<p>1)Procurement of Hardware -70% of Job Value 2) Installation and Testing of all application -10% of Job Value Testing , Training , GoLive & User Acceptance - 10% of Job value for Hardware and Software Recommended payment against O&M Charges within 15 days on submission of Invoice</p>	
38		5.63	<p>The Service Provider shall, at its cost and expense, purchase and maintain during the Contract Period, such insurances as are necessary including but not limited to the following: (a) Equipment's, Hardware and Software delivered and installed to the extent possible at the replacement value with NMMT as beneficiary. (b) Fire, theft and allied natural calamities for the Central Control Centre at replacement value with the NMMT as beneficiary; (c) Service provider 's all risk insurance with the NMMT as co-beneficiary; (d) Comprehensive third party liability insurance with the NMMT as co-beneficiary; (e) Workmen's compensation insurance with the NMMT as co-beneficiary; (f) Any other insurance that may be necessary to protect the Service Provider, its employees and the ITS System against loss, damage or destruction at replacement value including all Force Majeure Events that are insurable and not otherwise covered in items (a) to (e) with the NMMT as beneficiary/co-beneficiary;</p>	<p>"As per clause no. 5.4 The ownership of the hardware, software, equipment's and any other infrastructure created by ITS Service Provider for the ITS Project shall be with NMMT with effect from the date of the implementation". In view of this, assets is not be;ponging with bidder 's owner ship in such condition how to procees for insurance by the bidder. Requested to clarify on the same.</p>	<p>Bidder shall insured all equipments supplied against this RFP in the favour of NMMT and for which Insurance cost will be borne by the contractor on behalf of NMMT</p>
39			Bank Guarantee format for EMD	Requested to provide format of Bank Guarantee for EMD submission	Attaching with this minutes of meeting.
40			Liquidated Damages for Delay	LD clause is not clear that what is maximum LD charges shall be applicable. Required clarity on this. Recommended maximum LD charges up to 5% of value of Supply and Installation	No Deviation.

41		3.5	<p>1 IMPLEMENTATION SLA (a) TIMELY DELIVERY</p> <p>Timely Delivery of Deliverable Items would comprise of all type of Hardware, Connectivity & Networking Equipments, ITS Application Software after UAT and Documents that are to be submitted as part of the project deliverables or submission of documents as per the defined time frame.- Service Level Requirement -All the deliverables defined in the contract has to be submitted on time on the date as mentioned in the contract with no delay.- Measurement of Service Level Parameter To be measured in number of weeks of delay from the date of submission as defined in the project contract. Penalty for nonachievement of SLA Requirement - Delay of every week would attract a penalty per week as per the following -- For Each Hardware, Connectivity & Networking Equipments = 2 X Per Week Penalty For ITS Application Software = 2 X Per Week Penalty For Each Document = 1 X Per Week Penalty The total penalty would be generated by the product of the above and the number of weeks delay. The Penalty per Week is Rs. 500/-</p>	Recommended Rs 150 per week	No Deviation.
42			<p>B) Correctness of Delivery Requirement - All the deliverables defined in the contract has to be submitted "First-Time-Right" with minimum errors/defects/bugs (as defined below) Documents - The documents submitted to NMMT for final approval should have no errors Hardware – The hardware and network equipment installed for NMMT should have no defects Application Software - The required service level for the Application software correctness must be : Free of Level 1 errors/defects/bugs in the completed application software; Level 1 errors/defects/bugs would be defined as the ones which have the greatest impact wherein the user is notable to perform his/her regular work or the output from the system is not as per the requirement Free of Level 2 errors/defects/bugs in the completed Level 2 errors/defects/bugs would be defined as the ones which have medium impact wherein the user is partially able to perform</p>	Recommended Rs 150 per week	No Deviation. But penalty will be levied after 24 hrs of intimation.

		<p>his/her regular work. Measurement of Service Level Parameter- To be measured in Number of errors/defects/ bugs for each of the deliverables as defined in the project contract .- Penalty for non- Achievement of SLA Requirement - Occurrence of Bug/Error/Defect would attract a Penalty per Day as per the following: For Software Application = 2 X Per Bug/Error/Defect Penalty For Documents =1 X Per Bug/Error/Defect Penalty For Hardware/Network Equipments = 2 X Per Bug/Error/Defect Penalty The total penalty would be generated by the product of the above and the number of Bug/Error/Defect found in the deliverables The Penalty per Bug/Error/Defect is Rs. 500/- per day.</p>		
43		<p>B) Correctness of Delivery Requirement - All the deliverables defined in the contract has to be submitted "First-Time-Right" with minimum errors/defects/bugs (as defined below) Documents - The documents submitted to NMMT for final approval should have no errors Hardware – The hardware and network equipment installed for NMMT should have no defects Application Software - The required service level for the Applicationm software correctness must be : Free of Level 1 errors/defects/bugs in the completed application software; Level 1 errors/defects/bugs would be defined as the ones which have the greatest impact wherein the user is notable to perform his/her regular work or the output from the system is not as per the requirement Free of Level 2 errors/defects/bugs in the completed Level 2 errors/defects/bugs would be defined as the ones which have medium impact wherein the user is partially able to perform his/her regular work. Measurement of Service Level Parameter- To be measured in Number of errors/defects/ bugs for each of the deliverables as defined in the project contract .- Penalty for non- Achievement of SLA Requirement - Occurrence of Bug/Error/Defect would attract a Penalty per Day as per the following: For Software Application = 2 X Per Bug/Error/Defect Penalty For Documents =1 X Per Bug/Error/Defect Penalty For Hardware/Network Equipments = 2 X Per Bug/Error/Defect Penalty The total penalty would be generated by the product of</p>	Recommended Rs 150 per week	No Deviation. But penalty will be levied after 24 hrs of intimation.

			the above and the number of Bug/Error/Defect found in the deliverables The Penalty per Bug/Error/Defect is Rs. 500/- per day.		
44			Service Level requirement - Delay of every week in Installation of Hardware and Network Equipment would attract a penalty per week as per the following :- 2 X per week Penalty The total penalty would be generated by the product of the above and the number of weeks delay. The Penalty per week is Rs. 2000/-	Service Level requirement - Delay of every week in Installation of Hardware and Network Equipment would attract a penalty per week as per the following :- 2 X per week Penalty The total penalty would be generated by the product of the above and the number of weeks delay. The Penalty per week is Rs. 500/	No Deviation.
45			4.1.2 POST IMPLEMENTATION SLA - a) Resolution time Penalty for nonachievement of SLA Requirement- Delay of every day would attract a penalty per day as per the following- For R2 = 2 X Per day Penalty For R3 = 1 X Per day Penalty The total penalty would be generated by the product of the above and the number of Business days Delay. The Penalty per day is Rs. 2000/-	Recommended Rs 500 per day	Accepted
46			B) Network availability (uptime) Service Level Requirement Measurement of Service Level Parameter Penalty for non-achievement of SLA Requirement - WAN availability should be maintained at a level of 96%. The bandwidth availability should be maintained at a level of 96%. $\{(Total\ time\ in\ a\ month\ in\ minutes - Total\ Down\ time\ in\ a\ month\ in\ minutes)/Total\ Time\ in\ a\ month\ in\ minutes\} * 100$. The above time would be calculated per location only for Working Hours during Business Days in a month. If the Contractor is not able to meet the above defined service level requirement, then any deviation from the same would attract a penalty as per the following .	Rates of penalty not specified against this SLA parameter . Please provide the same	Explained & mentioned in SLA Penalty In case the Uptime for the month is in the range of 93% - 96% then the penalty would be 5000/- per month In case the Uptime for the month is in the range of 90% - 93% then the penalty would be 10000/- per month
47			C) Application response /availability time Service level Requirement- The average application response time for users (time taken for loading of a web page) should not exceed 15 seconds. The 95th percentile point of application response time for users should not exceed 20 seconds in a month Application response time will be measured on the basis of automated reports. The data should be captured through automated tools every 30 minutes during the business hours. Data during business hours can only be used for calculations of average response time and percentile point. If the Contractor is not able to meet the above defined service level requirement, then any deviation from the same would attract	Response Time (Monthly) - ≥ 20 secs - 500 /INR per month. Availability of application - $< 90\%$ - 1000 /INR per month	Explained in Pre bid meeting dated 24/09/2014. No Deviation.

			a penalty as per the following – Response Time (Monthly) - >= 20 secs - 1500 /INR per month. Availability of application - < 90% - 6000 /INR per month												
48			<p>D Security and incident management - Penalty for nonachieving of the SLA</p> <table border="1"> <tr> <td>Incidents in a Quarter</td> </tr> <tr> <td>0< Incidents < 10 - Rs.5000/-</td> </tr> <tr> <td>10<incidents <15 - Rs 10000/-</td> </tr> <tr> <td>15<incidents<20 - Rs. 20000</td> </tr> <tr> <td>Maximum Penalty</td> </tr> </table>	Incidents in a Quarter	0< Incidents < 10 - Rs.5000/-	10<incidents <15 - Rs 10000/-	15<incidents<20 - Rs. 20000	Maximum Penalty	<p>D Security and incident management - Penalty for nonachieving of the SLA</p> <table border="1"> <tr> <td>Incidents in a Quarter</td> </tr> <tr> <td>0< Incidents < 10 - Rs.1000/-</td> </tr> <tr> <td>10<incidents <15 - Rs 30000/-</td> </tr> <tr> <td>15<incidents<20 - Rs. 50000</td> </tr> <tr> <td>What is maximum amount of penlaty. Recommended maximum penalty 5% of contract value</td> </tr> </table>	Incidents in a Quarter	0< Incidents < 10 - Rs.1000/-	10<incidents <15 - Rs 30000/-	15<incidents<20 - Rs. 50000	What is maximum amount of penlaty. Recommended maximum penalty 5% of contract value	No Deviation.
Incidents in a Quarter															
0< Incidents < 10 - Rs.5000/-															
10<incidents <15 - Rs 10000/-															
15<incidents<20 - Rs. 20000															
Maximum Penalty															
Incidents in a Quarter															
0< Incidents < 10 - Rs.1000/-															
10<incidents <15 - Rs 30000/-															
15<incidents<20 - Rs. 50000															
What is maximum amount of penlaty. Recommended maximum penalty 5% of contract value															
49			Yearly Operation and Maintenance Charges for respective Hardware and Software items as specified in price bid and quoted on yearly basis shall be divided by Twelve (12) months for that particular year to arrive at monthly payable amount.	As per Price format (Annual Based Amount for O&M of hardware Part B There is 6 column provided for Year 1 to Year 6. 1st year all hardware will be under warranty and 2nd year onwards AMC will be start. For what services will be quoted in Year 1. Required clarification	1 st year is a defect liability period										
50			Price bid format of ITS application	for the Software Item VAT & Service tax both will be applicable but as per format single column for taxes provided in format. Please advise how to show VAT & Service Tax with bifurcation	Quote should be based on second sale price. Quote per unit will inclusive of all applicable taxes. Revised Schedule B is attached with this MoM										
51			The Service Provider shall be responsible for integration, initialization and startup of the equipment supplied by it. He would also be responsible for integration of any other devices and equipment supplied by or any other vendor that is part of the ITS. Thereafter, the complete responsibility of operations and maintenance of the ITS system, including spares and insurance shall lie with the ITS Service Provider for the Contract Period.	Bidder should be responsible for the equipment supplied by the Bidder only. Recommended to amend in clause accordingly.	It is turn key project and project includes all the responsibility of running of ITS project										
52			The Corporation reserves the right to suitably increase/reduce the scope of work put to this Tender. In case of a Rate Contract, the Corporation does not in any way guarantee the quantity for which an order may be placed and the Tender quantity may only be treated as indicative.	Recommended to keep cap of +/- 5% of any increase/decrease of quantity against base quantity.	No Deviation.										
53			On the occurrence of any of the following events, NMMT shall by a written notice of suspension, suspend any Service which may have been granted to the Service Provider hereunder: (i) In the event and to the extent NMMT is required to do so by any applicable law(s), rule(s), guideline(s), or court order(s). Any such notice of suspension shall specify the applicable	Recommended to issue 90 days notice prior to suspension of contract	No Deviation.										

			law(s), rule(s), guideline(s), or court order(s).		
54			There shall not be any Termination Payment on occurrence of Termination owing to Force Majeure Event.	In such termination recommended to release payment of the cost incurred till the date of termination of contract	Not accepted.
55	3.3. Project Coverage b) Logical Coverage	Project Vision & Mission	Installation, Commissioning, Configure, Test, and Integrate and Implement all required Hardware, Software, Internet Connectivity, Networking Security & Power Backup etc items in Central Control Room (CCR) to be established at NMMT Head Office/State Data Centre for hosting ITS Application Software.	Request you to clarify where the ITS Application is to be Hosted and where the Central control room and Data Center is to be Setup.	Data Center is proposed at NMMC Head office, Sec-15, Belapur. Control Room will be NMMT Bus Depot, Turbhe
56	3.3. Project Coverage b) Logical Coverage	Project Coverage	Project Site/ Work Site: Bus Stops, Bus Terminals, Buses, Bus Depots and Central Control Center at NMMT area of Operation, Navi Mumbai, India, whereas Data Centre at Service Provider's premises or at NMMC Data Centre	Request you to Clarify where the Central control room and Data Center is to be Setup. Who is responsible for that. (NMMT/ Service Provider) Request to share layout of DC & control centre.	As mentioned above. Setup of Data center and Maintenance of Data Center is responsibility of vendor.
57	3.3. Project Coverage b) Logical Coverage	Project Coverage b) Logical Coverage	Communication System: GSM/GPRS with 2.1 Mbps speed (Vodafone/Airtel/Reliance)	Request you to clarify - NMMT asking GSM/GPRS with 2.1 Mbps speed (Vodafone/Airtel/Reliance) is 3G Datacard ?	Bidder shall submit best design so that all things should operated as required in scope of work.
58		3.4.5. Electronic Ticketing /Automated Fare Collection System	In case of long term validity fares NMMT is looking to introduce smart cards (prepaid) which would be issued to the passenger at the depot ticketing terminal /office against cash/credit card payment. This would have appropriate validity as per the NMMT fare structures. When the passenger travels on the journey, this smart card would be treated as a valid "ticket" and according to the fare applicable the amount would be debited to the smart card account.	Request you to Clarify the Time line for RFID Smart Card (Prepaid) implementation.	No changes
59		3.4.5.1. Electronic Ticketing Machine	The Electronic Ticketing Machine shall be programmable to include audit functions as desired by NMMT audit process.	Request you to clarify and elaborate the Audit Function requirement through ETM. What type of Audit Function is required?	As mentioned in RFP
60		3.4.5.1. Electronic Ticketing Machine,;	b) Functional Requirements The ETM should have capability of GPRS interface. The ETM shall have an 802.11b/g compatible Wi- Fi module connected to an external antenna for data transfer and communication of high volume of data and application down loads to the depot system.	Request you to Remove this requirement because this activity can do via USB connection with zero data lose at depot system.	No Deviation.
61		3.4.7.1.	Bus Vehicle tracking device - Features of SCU UNIT: For detailed specification refer Annexure 1 : Urban Bus Specification II at the end of this document.	Can Bidder offer similar components for meeting functionality of project requirement.	No Deviation.

62		3.4.8.1.	PIS at Bus Stops/ Terminals : All displays for PIS will have a configurable refresh rate with minimum of 5 seconds.	Request you change the requirement of refresh rate with minimum of 5 seconds, because it is technically not possible. Make refresh rate up to 45-60 Sec.	Explained in Pre bid meeting dated 24/09/2014.
63		3.4.8.1. PIS at Bus Stops/ Terminals	9 Display System Technical Requirement (PIS): Fitment provision will have to be provided in the Bus Stop/Terminal. The power supply would be provided by NMMT, where as operational and maintenance including monthly electricity bill should be taken care by Service provider.	Request to confirm that NMMT will take responsibility of electricity bill with provision of electricity infra.	No changes
64		3.4.9.2.	Mobile Application for IOS, Android and Windows mobile devices:- Smart card recharge facility	Request you to Clarify and elaborate the Requirement for Smart card recharge via Mobile app.	As mentioned in RFP
65		3.4.10. Financial Management System	The financial management system shall comprise of enterprise reporting management which shall take care of all accounting functions of NMMT including fare accounting, disbursement to operations, profit and loss calculations, asset management etc.	Request to clarify the Financial Managements include Reporting Management and Accounting functions requirement of NMMT includes only ITS related accounting or MIS Reporting is asking.	As mentioned in RFP
66		3.4.10.	The Financial Management system shall be standard corporate financial management system including P/L and Balance sheet management.	Request you to clarify the P/L and Balance sheet Management related requirement.	As mentioned in RFP
67		3.4.11. Depot Management System	Re writing of existing software into J2EE having postgre SQL as database is the scope of this RFP. At the end this should be part of integrated ITS system.	Request you to allow re writing the software in suitable technology as per the solution require and proper integration prospect.	As mentioned in RFP
68		3.4.12.3. System Description	The service provider shall make provision for Data Recovery System.	Request you clarify the location for Data Recovery System and Scope of work related to DR.	Not in Scope
69		3.4.13.	Incident Management System (IMS): Debris in the roadway	Request you to share the Business rules. Logic for the requirement.	As mentioned in RFP
		3.4.13. Incident Management System (IMS)	Data storage capacity shall be sufficient to maintain six months transaction data available on line for ad hoc report generation and other investigations. The volume of data to be calculated for this requirement shall assume 1,000,000 transactions per day. The database shall be easily expandable to handle another 1 million transactions a day minimum.	Request to clarify the 1,000,000 Transaction rate basis, so that we can size accordingly. Due to this it impact the project cost.	As mentioned in RFP
70		3.4.16. LED Videowall	Separation in control room and display room	Request to explain the requirement.	As mentioned in RFP
71		3.4.23. Computerized Call Management System	The service provider shall be required to implement service call management system capable of logging service request call within the enterprise of NMMT ITS. The system shall uniquely identify all calls by way of assigning ticket numbers and resolution procedure. This system shall provide NMMT a	Request you clarify the scope for Call Management system like who is responsible for Infa , Space, and tools. No. of Help desk executive, Operation time etc.	Facility Management Software will be provided by Vendor.

			computerised log of all incidents logged as part of the ITS operations. The system should further provide analytical reports to evaluate problem areas and escalation system to ensure problems are reported properly and resolved.		
72		3.4.27.	Technical and Architecture Requirement : The application will be an open-source (j2EE and Postgre SQL, Android), interoperable, highly scalable and capable of delivering high-performance in varied field conditions.	Request you to allow the application technology stack will be any open source to meet the requirement.	As mentioned in RFP
73		3.4.27.	Technical and Architecture Requirement Light-weight RESTful Web services will be used for communication between the various modules in the solution. SOAP based Web services will be used for communicating with external systems/applications.	Please allow bidder for their own technology.	As mentioned in RFP
74		3.4.27.	Technical and Architecture Requirement: Client Interface - Mozilla compatible browsers like Internet Explorer 7+, Firefox 3.5+, Google chrome etc. Technologies- JSP, DHTML, JQuery, Javascript, Ajax etc	Kindly allow Bidder's solution based on their Technology.	As mentioned in RFP
75			J2EE Compliant Application Server. Technologies : Java, Spring framework, Hibernate, Quartz scheduler, Jasper reports, Velocity Templates etc	Kindly allow Bidder's solution based on their Technology.	As mentioned in RFP
76			Operating System – Red Hat linux / Fedora. Database Server – PostgreSQL Enterprise	Kindly allow Bidder's solution based on their Technology.	As mentioned in RFP
77		5.68. Responsibility Matrix	Cloud Computing Services or NMMC Data Center setup in India with secure infrastructure to meet NMMT ITS requirements	Cloud Computing Services or NMMC Data Center setup in India with secure infrastructure to meet NMMT ITS requirements	As mentioned in RFP
78		5.69. Obligation of Service Provider	3) Key Obligation of ITS Service Provider during Operation and Maintenance:- Error! Reference source not found. of this RFP.	Pl. clarify the Error or Typo Mistake	As mentioned in RFP
79		15. Technical Specification	MSR (Magnetic Swipe reader), Windows starter Edition O/S	Request you to Clarify the use of MSR (Magnetic Swipe reader)	As mentioned in RFP
80		15. Technical Specification	3) Minimum specifications for LED Display units	Which type of technology.	Vendor has to suggest the best option
81		15. Technical Specification	Application, Database & backup Server: Warranty: 3 year 24x7 4Hour response comprehensive warranty	Request you to Clarify after 3 Years who will be manage the Warranty ,Is NMMT responsible for entire project Duration	As mentioned in RFP
82		15. Technical Specification	Page 183 - Specification of PC / Desktop:- (i) (i5 processor, 5GB RAM, 500 GB HD, Twin 17.5" LCD monitor with Window 8 & Microsoft office 2007	Kindly, Request you change the clause as below: Operation System with latest Windows operating system/ Linux Operation. Microsoft Office/ Open Office	As mentioned in RFP

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			(ii) (i5 processor, 5GB RAM, 500 GB HD, 17.5" LCD monitor with Window 8 & Microsoft office 2007		
83		15. Technical Specification	Minimum specifications for Tablet :- Memory Card slot: microSD, up to 64 GB Internal: 64 GB, 3 GB RAM	NMMT asked for 64 GB Internal memory for tablet. But it too difficult to find any OEM for the same. And its cost is too high. Request you to make it Minimum 4GB Internal Memory.	As mentioned in RFP
84	Page 188 - Wireless Access Point	15. Technical Specification	i) Outdoor Single Radio Access Point conforming to IEEE 802.11n with backward compatible with IEEE 802.11b/g. 802.11n upto 300 mbps	Request to share scope of this component with QTY.	Will be rate only item and will be operated only when required. Maximum quantity will be 50.
85		3.4.8. Passenger Information System	Integration of Web NMMT Portal for Bus Schedule & ETA	Request you to clarify, who is the responsible for Integearation part or NMMT web Portal Vender.	Successful bidder
86		3.4.9.1. Web Portal for Bus Schedule & ETA	Web Portal for Bus Schedule & ETA :- Service provider / bidder shall have to develop web pages which shall be linked to the existing NMMT Portal to download route information, route schedule . This information must be accessible using WAP enabled mobile phones also. The web pages shall have facilities for pass application, card top-up using credit/debit cards. Etc. Google map Integration required for AVLS, PIS, ITS	Request you to Clarify who is responsible for Payment Gateway Charges, Google Map, SMS gateway. Or who is going to Provide	This is part of scope.
87		Depot Management System	Integrated Depot Management System	Request you to clarify the integration of Depot Management System, we have to use existing System or develop the new one or integrate existing system with ITS	As mentioned in RFP
88		3.4.14. Business Intelligence Platform.	Dashboard and Reporting Requirement for ITS, NMMT City Bus The list of reports given below is partial list and is being provided for the sake of understanding from the perspective of providing you insight into the type of solution required to meet NMMT's business process requirement.	Request you clarify .No of Users for BI	No restriction of no. of user. It is web based application.
89		5.68. Responsibility Matrix - Bus Stop	Service Provider: Electricity bill Electricity connection at Bus Stop and Terminal shall be in the name of NMMT, where as operation and maintenance including monthly bill will be taken care by Bidder One line advertisement on LED Display	Request you to Keep electricity bills with NMMT because it already with the Name to NMMT.	It will be reimbursed
90		5.68.	Responsibility Matrix - Bus Terminal : One line advertisement on LED Display	Request you to Keep Onle line advertisement with NMMT.	Advertisement is not in scope of work.
91		5.72.	DELIVERABLES: ETM – E-ticketing handheld machine(with paper rolls) for ticket printing on the vehicle	Request you to Clarify the clause. We assum SI has to Give only ETM and NMMT is responsible for Thermal Paper roll.	Accepted

92	124	Clause 5.41;	Evaluation Framework	The heart of any Intelligent Transport System globally is the Automatic Real-time Vehicle Location (AVL) and real-time Passenger Information System (PIS). However, it is observed that in this RFP, the maximum weightage given to experience in these two parameters is only 10 (5+5), while other relatively peripheral modules like Financial Accounting, Depot Management, Web-app development, BI, is higher at 20 marks. Typically, companies having skills in application development like Depot Mgt System, FA system, etc., will be different from companies specialising in critical ITS components like AVL&PIS. The current evaluation criteria skews the parameters in favour of companies which have Application Development experience, so you may have a situation wherein companies with modules like Depot Mgt, Financial Accounting, BI, may score higher even without having any worthwhile experience in the core AVL & PIS domain. NMMT may like to review the weightages to each parameter to reflect the reality of a ITS solution.	As mentioned in RFP
93	137	Clause 5.63;	Insurance	How will the Service Provider be protected against risks like riots, Force majeure, etc.. Which insurance companies might not cover? Who will bear such losses that insurance companies will even cover? A service provider does not have the ability to take unlimited risk exposure for reasons like civil disturbance, riots, etc., which he has no control over. This may please be clarified.	In case of riots, Force Majeure, NMMT will be responsible.
94	8	Tender Notice	EMD	The Basis of arriving at EMD value of INR 8,50,000 may kindly be shared	No Deviation.
95	174		Operating System	Since the objective of NMMT is to go in for open-source framework, it should not be restricted to Red Hat or SUSE Linux. Service Providers should be permitted to use other equally well-entrenched variants like ubuntu, etc.	No Deviation. Explained in Pre bid meeting dated 24/09/2014.
96		Section 3.4.4	Existing Scenario in NMMT	NMMT has not mentioned about the integration of existing buses with command center. Does vendor need to integrate old buses with GPS system with command center? If yes, how many such buses are there and if NMMT will get help from the vendor who supplied existing GPS system to integrate.	Yes, Explained in Pre bid meeting dated 24/09/2014.
		Section 3.4.4	Existing Scenario in NMMT	NMMT has requested to rewriting of existing softwares which are in .NET in J2EE. We suggest to buy integrated software along with ITS, so that to save the rewriting time and effort. It might be possible that rewriting may not be possible as the software is provided by some other vendor and there can be infringement of IP right.	No Deviation.

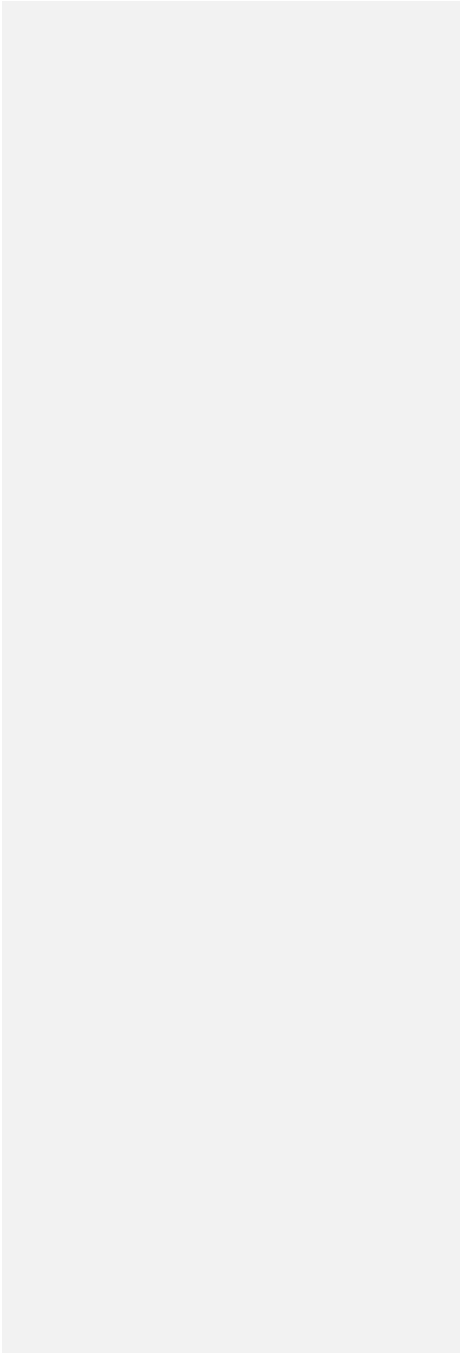
97			Card Payment	We suggest to re-consider the card based payment system in this tender. NMMT can use the method same as BMTC where they have ties up with AXIS Bank to take care of all the card based payment system and even AXIS Bank provides them royalty for each transaction. This can be done free of cost instead of spending additional on this module. In addition it can become good source of revenue for NMMT.	Yes, Explained in Pre bid meeting dated 24/09/2014.
98		Section 3.4.7.1	Bus Vehicle tracking device	NMMT has requested UBS-2 compliant on bus components. Is it required for old buses? How many such buses are there? All new UBS-2 compliant buses will have this component factory fitted.	Yes, Explained in Pre bid meeting dated 24/09/2014.
99		Section 3.4.8.2	PIS	PIS on bus NMMT has requested UBS-compliant on bus PIS. Is it required for old buses? How many such buses are there? All new UBS-2 compliant buses will have this component factory fitted.	No Deviation.
100		Section 3.4.9.2	Mobile Application of IOS, Android and Window mobile devices	We suggest to go with only android application as there are very few bus uses use IOS and Windows mobile are not many. NMMT can save the cost of additional application.	No Deviation.
101		Section 3.4.17	Surveillance System in Bus	NMMT has requested UBS-2 compliant on bus surveillance camera. Is it required for old buses? How many such buses are there? All new UBS-2 compliant buses will have this component factory fitted.	No Deviation.
102		-	Price Bid format	The monthly 3G data plan charges of on bus SIM Card has not been mentioned in Price Bid format. Separate monthly cost should be considered. Kindly add this.	Revised schedule b is attached with this MoM.
103	25	section 3.4.5.1	b) The mode for Data transfer can be either online or batch updates through either GPRS/ WI FI/ USB/RS 232 communication ports.	-Kindly clarify whether tickets to be generated by ETM is through GPRS Mode?	As mentioned in RFP
104	24	section 3.4.5	Web Portal: To recharge the smart cards over the internet through a secured payment gateway using debit/credit cards/net banking option.	Please let us know how can it happen over the portal. This does not seem feasible over the net.	As mentioned in RFP
105	35	section 3.4.7.1	a) Bus Driver unit (BDU) shall be in front of the bus driver for two way communication, messages to be sent by driver and messages to be sent to the driver from the control centre. BDU also provide driver to view passengers through camera and record the same in case of emergency with high resolution.	Please elaborate.	As mentioned in RFP
106	39	section 3.4.8.1	under display system technical requirement (PIS) 3rd point mentions operational and maintenance cost including monthly electricity bill should be taken care by service	We request Electricity charges of the bus stops to be borne by NMMT.	As mentioned in RFP

			provider.		
107	145	section 5.68	Responsibility matrix, location bus stop & responsibility service provider operational & maintenance cost of monthly bill will be taken care by bidder...	Request you to provide time line schedule for raising the invoice.	Monthly.
108	152	point 4 e)	he electricity expenses at bus stop, bus terminal should be provided by NMMT whereas operational & maintenance along with bill should be provided by service provider.	Request you to provide detailed expenses.	As mentioned in RFP

The meeting ended with vote of thanks to the all participants.

Section Engineer

Transport Manager



Navi Mumbai Municipal Transport

Name of Work : **DESIGN, DEVELOPMENT, IMPLEMENTATION AND OPERATION & MAINTENANCE OF INTELLIGENT TRANSPORTATION SYSTEM (ITS) FOR NMMT, NAVI MUMBAI**

Tender Notice No. NMMT/ TM/ENGG/26/2014-2015

1. Schedule 'B'

PART-A - Hardware

Sr. No.	Items	No. of Units	Rate per Unit (INR) (inclusive all applicable taxes)	Amount (INR)
1	2	3	4	5
1	LED with metal frame at Bus Stop (as per technical specifications of this RFP)	100		
2	LED with metal frame at Bus Terminal (as per technical specifications of this RFP)	10		
3	LED with metal frame at Bus Depot (as per technical specifications of this RFP)	3		
4	Electronic Ticketing Machine (ETM) (as specified in RFP)	1000		
5	Battery for Electronic Ticketing Machine (as per technical specifications of RFP)	50		
6	10 - Bus Terminal and 1- NMMT Depo Ticket Counter - (2 at each bus terminal) 15" Touch Screen 1024 x 768 Resolution, 1.6 Ghz CPU and DDR3 Memory 4GB. Resistive touch screen, Built in 1Gb Lan port , Fan-free design boasting quiet and anti dust features , Electronic Cash Drawer , Customer display (PD 310R for KS Series) To be mounted on the Back of LCD, Thermal Printer MSR (Magnetic Swipe reader) Windows starter Edition O/S (as per technical specifications of RFP)	22		
7	Card Personalization Device/Printer (as per technical specifications of RFP)	11		

8	Bus Terminal UPS 2 KVA, UPS with 4 hours of backup at Bus Terminal to operate POS	11		
9	Depot Desktops as per specification (i5 processor, 4GB RAM, 500 GB HD, 17.5" LCD monitor with Window 8 & Microsoft office 2010 as per RFP	8		
10	Control Centre Hardware including 3X3 video wall, Networking equipments, etc. (as per technical specifications of RFP	1		
11	Data Centre- Procurement , installation, Testing and configuration of hardware on cloud site or NMMC data center as per technical specification in RFP	1		
	a) Application server -2 No	2		
	b) database server-2 No	2		
	c) webserver-1 No.	1		
	d) Backup server-1	1		
	e) L2 Switches	5		
	f) L3 Switches	2		
	g)Antivirus	1		
	h) SAN Storage	1		
	i) Rack	1		
12	10 KVA UPS with 2 hrs backup for Central Control Centre			
13	Contactless Smart Card	70000		
14	Electronic Tablet or equivalent(as per technical specifications of RFP document) as per	5		
	Total for Hardware			

PART-B
(Annual Based Bid Amount for O&M of Hardware)

Sr. No.	Items	Quoted Annual Cost of O&M which the Bidder expects to receive from NMMT during the Contract Period of the Project (Amount in INR) (Per Month for providing the entire services as per terms & conditions of RFP X 12 Months for respective Years during Contract Period)						Total (Amount in INR)
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	Comprehensive annual operation and maintenance of all Hardware (as per scope of this RFP)	Defect Liability Period						
1	LED with metal frame at Bus Stop, Bus terminal, Bus Depot (as per technical specifications of this RFP)							
2	Electronic Ticketing Machine (ETM) (as per technical specifications of this RFP)							
3	O & M of POS at Bus Terminal and NMMT Depot as per technical specifications of RFP							
4	Card Personalization Device /Printer (as per technical specifications of RFP)							
5	Desktops PC as per RFP							
6	Control Centre Hardware including 4x4video wall, Networking equipments, etc. (as per technical specifications of RFP							
7	AMC charges at Data Centre- hardware on cloud site or NMMC data center as per technical specification in RFP							
	a) Application server -2 No							

	b) database server-2 No							
	c) webserver-1 No.							
	d) Backup server-1							
	e) L2/L3 Switches							
	f)Antivirus							
	g) SAN Storage							
9	Bus Terminal - UPS 2 KVA and 10 KVA UPS of Central Control Centre							
10	Contactless Smart Card as per RFP							
11	Electronic Tablet or equivalent (as per technical specifications of RFP document)							
12	Data Centre i.e Cloud Computing Service Cost to meet requirement of ITS							
	Total O & M cost for Hardware							

PART- C - ITS Applications/Softwares

Sr. No.	Items (as per scope and technical specifications of RFP document)	No. of Units	Rate per Unit	Total Value in INR
1	2	3	4	
1	System Software – License Fee	1		
	a) GIS			
	b) Operating System			
	c) Database System			
	d) Antivirus			
	e) Application Server Platform			
	f)Third party Softwares / plug In/development Tools and others			

2	AFCS Software as per scope and technical specification mentioned in this RFP	1		
3	AVLS Software as per scope and technical specification mentioned in this RFP	1		
4	Financial Management System as per scope and technical specification mentioned in this RFP	1		
5	Depot Management System as per scope and technical specification mentioned in this RFP	1		
6	PIS Management System as per scope and technical specification mentioned in this RFP	1		
7	Vehicle Scheduling & Dispatch System as per scope and technical specification mentioned in this RFP	1		
8	Software for Control Centre Hardware including video wall, Networking equipments	1		
9	Card Personalization Device / Printer- Software Component	5		
10	Incident Management System as per scope and technical specification mentioned in this RFP	1		
11	Business Intelligence Software as per scope and technical specification mentioned in this RFP	1		
	Total for software			

PART-D
(Annuity Based Bid Amount for O&M of Software)

Sr. No.	Items	Quoted Annual Cost of O&M of Software (Amount in INR) (Per Month for providing the entire services as per terms & conditions of RFP X 12 Months for respective Years during Contract Period)						Total (Amount in INR)
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
1	Annual comprehensive technical support, Operation & Maintenance of all System Softwares components.	(Defect Liability period)						
2	AFCS Software							

3	AVLS Software							
4	Financial Management System							
5	Depot Management System							
6	PIS Management System							
7	Vehicle Scheduling & Dispatch System							
8	Software for Control Centre Hardware including video wall, Networking equipments							
9	Card Personalization Device / Printer-Software Component							
10	Incident Management System							
11	Business Intelligence Software with ten user licenses							
	Total O & M cost for Software							

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**PART-E
(Communication charges)**

Sr. No.	Items	Quoted Annual Cost of O&M except Hardware & Software which the Bidder expects to receive from NMMT during the Contract Period of the Project (Amount in INR) (Per Month for providing the entire services as per terms & conditions of RFP X 12 Months for respective Years during Contract Period)						Total (Amount in INR)
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
(a)	Annuity based Manpower cost for Central Control Center Operation	(Defect Liability period)						
(b)	Communication Cost							
i	ETM (1000) GSM/GPRS charges							
ii	Bus (500) GSM/GPRS charges							
iii	Bus Stop (100) GSM/GPRS							

	charges							
iv	Bus Terminal PIS for (10) GSM/GPRS charges							
v	Bus Terminal POS – 1 mbps broadband connection							
vi	Bus Depot (2) 1mbps broadband connection							
vii	Central Control Centre (1) 2 mbps 1:1 lease line							
(e)	Power supply cost							
i	Bus Stop							
ii	Bus Terminal							
	Total (a+b+c) during Contract Period.							

	Grand Total (A+B+C+D+E)	
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Quoted Amount Rs. -

(In Word : _____)

Note : NMMT reserve right to operate any or all of item in the Schedule B

Signature of Contractor

**Transport Manager
Navi Mumbai Municipal Corporation**

Appendix : PROFORMA OF BANK GUARANTEE FOR BID SECURITY¹

(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

To
Transport Manager
NMMT
Turbhe Depot, Turbhe,
Navi Mumbai – 400705

This Deed of Guarantee is made on this _____ day of _____, 2014 at _____ by _____ Bank within the meaning of the Reserve Bank of India Act and constituted under the Banking Companies Acquisition and Transfer of Undertakings Act, 1970/1980 and having its Head Office/Registered Office at _____ and a Branch Office at _____, (hereinafter referred to as "the Bank" or "the Guarantor", which expression shall unless it be repugnant to the subject or context hereof be deemed to include its successors and assigns) in favour of NMMT having its Office at _____ (hereinafter referred to as "NMMT" which expression shall unless it be repugnant to the subject or context hereof be deemed to include its successors and assigns).

WHEREAS, the NMMT undertook the process of competitive bidding in order to select the most desirable firm/company for the development of Intelligent Transit Management System (ITS) in NMMT, for which purpose NMMT issued a Request for Proposal ("RFP") document inviting Bids from the Bidders;

WHEREAS, [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated [date] for the execution of the Works (hereinafter called "the Bid").

In the event of any breach or non-performance of the following terms and conditions contained in the RFP document:

- (1) if the Bidder withdraws or modifies his Bid during the period of Bid validity specified in the RFP; or
- (2) if the Bidder refuses to accept the correction of errors in his Bid; or
- (3) If the Bidder submits a conditional Bid which would affect unfairly the competitive provision of other Bidders who submitted substantially responsive Bids and/or is not accepted by NMMT, or
- (4) if the Bidder, having been notified of the acceptance of his Bid by the NMMT during the period of Bid validity and the bidder fails or refuses to execute the Agreement in accordance with the RFP documents;

The Guarantor agrees absolutely, irrevocably and unconditionally guarantees and undertakes to pay to NMMT a sum of Indian Rupees _____ (Rupees _____ only). without any protest or demur and upon receipt of first written demand from NMMT, without having to substantiate his demand, provided that in his demand NMMT will note that the amount claimed by him is due to him owing to the occurrence of any one or more of the conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 60 days after the date of expiration of the Bid Validity (i.e 465 days from Bid Due Date) or as it may be extended by the bidder on a written request by NMMT, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

The jurisdiction in relation to this Guarantee shall be the Courts at Navi Mumbai and Indian Law shall be applicable.

The claim in respect of this Bank Guarantee shall be admissible at any of our Branches in Navi Mumbai area.

IN WITNESS WHEREOF the Guarantor has executed this Guarantee on this _____ day of _____ and year first herein above written.

Signed and delivered by the
above named _____ Bank by
its Authorized Signatory as authorized by
Board Resolution passed on _____/
Power of Attorney dated [.....]

Authorized Signatory

Name :

Designation:

In the presence of:

- 1.
- 2.

¹ Issued by approved Banks only . For list of approved banks, see Appendix 6.