



# **Rajasthan State Road Transport Corporation**

IT Cell, Head Office, Parivahan Marg, Jaipur-302001

No.: F3/HO/IT/27/2023/137

Date 28/02/2023

## **Corrigendum**

This is in reference of tender id 2023\_RSRTC\_316885\_1 dated 30th Jan 2023 for **implementation VTS and Panic Button in RSRTC Buses for five years**. The corrigendum no. 133 dated 28-Feb-2023 shall be read along with RFP no. 137 dated 28-Feb-2023.

**(Rohitashwa Kumar Meena)**  
**Dy. General Manager (IT)**

# Modified RFP after Pre-bid for implementation of Vehicle Tracking System & Panic buttons in RSRTC buses as on 21st Feb. 2023 v1.2

No.F3/HO/IT/27/2022/137

Date 28/02/2023

Rajasthan State Road Transport Corporation  
IT Cell Head Office, Jaipur

## Contents

1. ABOUT RSRTC:	5
2. PURPOSE OF THE BID:	5
3. RFP ISSUER:	5
4. PRICE OF RFP	5
5. NON-TRANSFERABLE RFP	6
6. BID SUBMISSION	6
7. CORRESPONDENCE AND SUBMISSION DETAILS:	6
8. KEY EVENTS:	7
9. ELIGIBILITY CRITERIA:	8
10. BID SECURITY DEPOSIT:	10
11. PERFORMANCE SECURITY DEPOSIT:	12
12. INSTRUCTION TO BIDDER:	13
12.1 Prevailing of Law:	13
12.2 Amendment of RFP Document:	13
12.3 Language of Bids	13
12.4 Bid Price	14
12.5 Firm Price	14
12.6 Authorized Signatory	14
12.7 Period of Validity of Bid	15
12.8 Local Conditions	15
12.9 Conflict of Interest	15
12.10 Right to vary quantity	15
12.11 Last date of Receipt of the Bid	16
12.12 Evaluation of Bid	16
a) Phase 1 – Technical Evaluation	16
b) Phase 2 – Financial Evaluation	16
12.13 Post Qualification and Award Criteria	17
12.14 RSRTC Right to accept any bid or Reject any or all bids	17
12.15 Confidentiality of RFP	17
13 SCOPE OF WORK:	18
13.2 Vehicle Location Tracking:	18
13.3 Panic buttons:	20
13.4 Passenger Information System (PIS):	21
13.5 Crew Management and Vehicle Roster Management System:	22
13.6 API System:	22
13.7 Transport Department Backend Server:	23
13.8 MIS/Admin Management System:	23

13.9	Map Display Requirements, at the minimum include: .....	24
14	Establishment of Control and Command Center at Head Office: .....	25
15	Data Center:.....	26
16	OBLIGATIONS OF RSRTC: .....	26
17	TRAINING OF RSRTC USERS .....	26
18	MAINTENANCE: .....	27
19	DOCUMENTTATION: .....	27
20	PROJECT IMPLEMENTATION PLAN: .....	28
21	PAYMENT TERMS: .....	29
22	SERVICE LEVEL AGREEMENT: .....	31
23	CONTRACT PERIOD: .....	32
24	THIRD PARTY AUDIT: .....	32
25	CHANGE MANAGEMENT: .....	33
26	EXIT MANAGEMENT: .....	35
26.1	EXIT MANAGEMET PURPOSE: .....	35
26.2	TRANSFER OF ASSETS: .....	35
26.3	COOPEARTION AND PROVISION OF INFORMATION: .....	36
26.4	CONFIDENTIAL INFORMATION AND DATA SECURITY: .....	36
26.5	TRANSFER OF CERTAIN AGREEMENT: .....	37
27	LIQUIDATED DAMAGE: .....	37
28	TERMINATION: .....	38
29.	FORCE MAJEURE: .....	39
30.	DISPUTE RESOLUTION: .....	40
31.	First Appellate Authority: .....	40
32.	INDEMNITY: .....	40
33.	LIMITATION OF LIABILITY: .....	41
34.	INTELLECTUAL PROPERTY RIGHTS: .....	41
35.	GOVERNING LAW AND JURISDICTION: .....	42
36.	WAIVER: .....	42
37.	OPERATIONS AND SERVICE STANDARDS: .....	42
38.	COUNTERPARTS: .....	42
39.	SEVERABILITY: .....	42
40.	ASSIGNMENT: .....	42
41.	RELATIONSHIP BETWEEN PARTIES: .....	42
42.	FINANCIAL BID: .....	43
43.	DRAFT AGREEMENT: .....	45
44.	DEPOTS LOCATIONS: .....	48
45.	ANNEXURES: .....	49

<b>Annexure-1</b> .....	49
<b>Covering Letter for Technical Bid</b> .....	49
<b>Annexure-2</b> .....	50
<b>Fairness of Document</b> .....	50
<b>Annexure-3</b> .....	51
<b>Black Listed/Debar Certificate</b> .....	51
<b>Annexure-4</b> .....	52
<b>Declaration by the Bidder</b> .....	52
<b>Annexure-5</b> .....	53
<b>Format for “Request Clarification”</b> .....	53
<b>Annexure-6</b> .....	54
<b>Compliance with the Code of Integrity and No Conflict of Interest:</b> .....	54
<b>Annexure-7</b> .....	56
<b>Grievance Redressal during Procurement Process:</b> .....	56
<b>Annexure-8</b> .....	59
<b>Certificate of Conformity / No Deviation</b> .....	59
<b>Annexure-9</b> .....	60
<b>Certificate of Conformity / No Deviation by OEM</b> .....	60
<b>Annexure-10</b> .....	61
<b>Manufacturer Authorization Form (MAF)</b> .....	61
<b>Annexure-11</b> .....	62
<b>Undertaking of Authenticity of Equipments</b> .....	62
<b>Annexure-12</b> .....	63
<b>Bank Guarantee Format – Bid Security</b> .....	63
<b>Annexure-13</b> .....	66
<b>Bank Guarantee Format – Performance Security Deposit (PSD)</b> .....	66
<b>Annexure-14</b> .....	69
<b>Format for Consortium Agreement</b> .....	69
<b>Annexure-15</b> .....	73
<b>Indicative Bill of Material</b> .....	73
<b>Annexure-15</b> .....	74
<b>Technical Specifications of BoM</b> .....	74

**1. ABOUT RSRTC:**

Rajasthan State Road Transport Corporation is the Rajasthan State Government establishment for providing interstate and intercity bus services. Currently, RSRTC is the largest intercity bus transport service provider in Rajasthan.

It was established on 1<sup>st</sup> October 1964 under Road Transport Act 1950, with headquarter in Jaipur. Initially it was started with 421 buses, running forty-five thousand kilometers among 8 Depots and carries twenty nine thousand passengers daily. Right now RSRTC have 3800 buses and 52 depots which runs thirteen lacs kilometer and carry 7 lacs passengers daily. Currently, RSRTC provide services in Rajasthan, Gujarat, Haryana, Uttar Pradesh, Delhi, Punjab, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Jammu & Kashmir, Chandigarh and Maharashtra.

At present RSRTC have ordinary, express, deluxe, semi deluxe, Air Condition, Luxury Services (Volvo, Scania) and Sleeper buses in his fleet.

**2. PURPOSE OF THE BID:**

RSRTC aims at up gradation of its bus operations to the level of an Integrated Public Transportation System. From being an efficient State Transport Corporation (STC) in the country, RSRTC has set its eyes on achieving milestone by universalizing the use of ITMS for Integrated GPS based Vehicle Tracking, PIS and electronic Display System covering the entire fleet of vehicles and operations to achieve total intelligence passenger transport systems to provide safe, reliable, affordable and commuter friendly services.

**3. RFP ISSUER:**

The RFP has been issued by Rajasthan State Road Transport Corporation (RSRTC), Head Office, ParivahanMarg, Chomu House, Jaipur - 302001, Rajasthan.

**4. PRICE OF RFP**

The price of this RFP document is Rs. 5,000/- (Rupee Five Thousand Only) inclusive of all taxes. This amount will be Non-Refundable. Bidders have to pay the cost of the RFP in the form of Cash/DD/Bankers Cheque which should be in favour of "Financial Advisor, Rajasthan State Road Transport Corporation" payable at Jaipur. RFP Document should be downloaded from RSRTC website i.e. <http://rsrtc.rajasthan.gov.in> or <https://www.eproc.rajasthan.gov.in> and <https://sppp.rajasthan.gov.in>

## 5. NON-TRANSFERABLE RFP

This RFP document is not transferable. The bidder, to whom the bid has been issued, only can participate in the bidding process.

## 6. BID SUBMISSION

The bidders are expected to submit their offers in two parts namely, "Technical Bid" and "Financial Bid" in the format has given in this document.

- i. **Technical Bid:** All the requested documents along with fee submitted by the entity will be scanned and uploaded on E-Procurement Portal as mentioned in the NIB/RFP. Conditional bid shall be out rightly rejected.
- ii. **Financial Bid:** Financial Bid forms must be submitted as prescribed format of BoQ (Bill of Quantity) in (.xls) only. If any bidder has filled the financial bid along with technical bid in a single document shall be out rightly rejected
- iii. **All desired fee such as Tender document, Bid Processing fee and Bid Security in terms of Cash/DD/Bank Guarantee should be reach physically at concerned office before time as mentioned in the key events otherwise the bid is liable to rejected due to non-compliance of RTPP Act 2012 Rules 2013 terms and conditions.**

## 7. CORRESPONDENCE AND SUBMISSION DETAILS:

### **Bid Inviting Authority:**

The Executive Director (Traffic)  
Rajasthan State Road Transport Corporation,  
Head Office, ParivahanMarg, Chomu House,  
Jaipur - 302001, Rajasthan

### **Contact for Technical Issues:**

The DGM (IT)  
Rajasthan State Road Transport Corporation  
Head Office, ParivahanMarg, Chomu House,  
Jaipur - 302001, Rajasthan  
Tel No — 0141-2360254/95492 34592  
Website: <http://rsrtc.rajasthan.gov.in>  
E-mail: [dgmit.rsrtc@rajasthan.gov.in](mailto:dgmit.rsrtc@rajasthan.gov.in)

**8. KEY EVENTS:**

S.No.	Event's Name	Date & Time
1	Issue of RFP for Sale	30 -01-2023; 16:00
2	Pre Bid Meeting	06-02-2023; 16:00
3	Issue of Corrigendum, if any	09-02-2023; 16:00
4	Submission of Response of RFP	20-02-2023; 15:00
5	Opening of Technical Proposal	20-02-2023; 17:00
6	Opening of Financial Proposal of the Technically Qualified Bidder	Will be intimate later
7	Bid Security Deposit (BSD Fee)	Rs.20,00,000/- in favor of "Financial Advisor, RSRTC" payable at Jaipur Rajasthan.
8	Bid document Fee	Rs. 5,000/- in favor of "Financial Advisor, RSRTC" payable at Jaipur Rajasthan.
9	Bid Processing Fee	Rs. 1000/- in favor of "MD, RISL" payable at Jaipur Rajasthan.
10.	Bid Validity Period	90 Days
11.	Project Cost	Approx INR 10 Crs.

**Note:-**

- All above events will be held at Head Office Rajasthan Road State Transport Corporation, Jaipur
- In the event of the date specified above being declared as a holiday for Corporation the due date will be the following working day.



**9. ELIGIBILITY CRITERIA:**

S.No.	Basic Criteria	Pre-qualification Requirement	Document to be submitted
1.	Legal Entity	<p>The Prime Bidder / Lead Bidder (All members in case of Consortium) shall be “A Company registered in India under the Companies Act 1956 or 2013 or The LLP Act 2008”, as on 31st March 2022.</p> <p style="text-align: center;">O R</p> <p>“A partnership firm registered under Partnership Act, 1932” as on 31st March 2022.</p>	<ul style="list-style-type: none"> <li>• Certificate of Incorporation or Registration</li> <li>• Copy of the list of properly constituted management or governing body of the Organization</li> <li>• Memorandum of Association</li> <li>• A partnership deed duly registered under the Partnership Act</li> <li>• In case of Consortium or Joint Venture, copy of the Joint venture or Consortium Agreement, clearly specifying the roles and responsibilities and stake percentage of each of the members in the venture, should be provided. All members of the consortium or Joint Venture will be jointly and severally responsible in the project.</li> </ul>
2.	Turn Over	<p>Average Annual Turnover from IT/ITeS/ITMS/ITS Services during the last three financial years, i.e., from 2019-20, 2020-21 and 2021-22 (as per the last published audited balance sheets) of the bidder, should be average Rs. 20 Crs. In case of consortium, the consortium partners should combine meets this requirement.</p>	<ul style="list-style-type: none"> <li>• Audited Balance sheet and Profit &amp; Loss account statement of the Sole Bidder for each of the last 3 audited financial years (FY 2019-20, 2020-21 and 2021-22).</li> <li>• Certificate duly signed by Statutory Auditor of the Sole Bidder or Certified Chartered Accountant for average annual Turnover for last 3 financial years (FY 2019-20, 2020-21 and 2021-22)</li> </ul>
3.	Net Worth	<p>The Prime Bidder / Lead bidder should have positive net worth for last 3 years (FY 2019-20, 2020-21</p>	<p>Certificate duly signed by Statutory Auditor or Certificate from Chartered Accountant of</p>

		and 2021-22)	the Bidder. Chartered Accountants Certificate / balance Sheet duly certified by chartered Accountant as of 31st March 2022
4.	Experience in Vehicle Tracking System	<p>The Prime Bidder OR Lead Bidder OR Any Member of the Consortium must have experience of at least one VLT Project involving Supply and Installation (S&amp;I) OR Operation and Maintenance(O&amp;M) of VLT Devices on BOOT/BOT/DBOT/BOO/BO/Turnkey basis in any Government Public Transport Organization or other Govt/Semi-Govt in India during the last 5 years as on the last date of submission of the bid.</p> <p>(A qualifying project shall be defined as " A project consisting of Supply and Installation (S&amp;I) OR Operation and Maintenance(O&amp;M) of at least 1000VLT Devices operated for 12 months or more in a single work order of INR 50lacs prior to the date of this bid submission)</p>	<p>Work Order + Completion Certificates from the client;</p> <p>OR</p> <p>Work Order + Self- Certificate of Completion (Certified by the Statutory Auditor);</p>
5.	Certifications	Bidder (Prime Bidder and/or Any Consortium Member) should be certified for ISO 9001-2008, ISO 27001 and CMMi 3 Certification or higher.	Copy of a Valid Certificate which is self-attested by the authorized Signatory.
6.	Black-listed	The Prime Bidder (including all consortium members) should not be declared as bankrupt or shall not have any proceeding for bankruptcy or insolvency/ debarred/ blacklisted / banned/ not being under declaration of ineligibility for corrupt or fraudulent practices or Non-delivered or non-performance by any Government /RSRTC/ PSU/ Autonomous Body under any Law in	Documentation Required: An Affidavit on Rs. 500/- stamp paper signed by the Authorized Signatory of the Prime Bidder and its consortium members.

		India as on date of submission of the Bid.	
7.	Operational Office in Rajasthan	The Bidder should have at least one operational/Maintenance office in Rajasthan	Electricity Bill, Water Bill or Lease Deed shall be submitted as an evidence of the operational office in Rajasthan. In case, not have office in Rajasthan than the bidder shall be declared on letter head to be open the office within a month after award of the contract.
8.	Key Resources	The Prime Bidder OR Lead Bidder OR Any member of the consortium must have at-least 25 technical staff on their payroll (more than 2 years' experience in IT Software / Hardware / Networking) at the time of bid submission.	Certificate from the HR of the Company.
9.	Fairness of the Documents	The Prime bidder should submit an undertaking on their letterheads to the fairness of these documents in support of their claim while submitting the proposal.	Declaration on company letterhead.
10.	e-Signed	All the documents required in compliance of the bid must be eSigned	All the documents required in compliance of the bid must be eSigned

#### 10. BID SECURITY DEPOSIT:

The Bidder shall furnish the BSD as part of this bid;

- The BSD is required to protect RSRTC against the risk of Bidder's conduct which would warrant the BSD's forfeiture.
- The BSD of Rs. 20,00,000/- (Rs.Twenty Lacs Only) shall be denominated in Indian Rupees, and shall be submitted in the form of a Banker's cheque/DD/bank guarantee issued by a Nationalized / Scheduled Bank from the state of Rajasthan before opening of the technical bid otherwise bid is liable to rejected.
- No interest amount payable on the Bid security and it shall be valid till 90 days of the publishing of the bid.
- Unsuccessful Bidder's BSD will be discharged/returned after signing of the contract with the successful Bidder.

- In case of Small Scale Industries of Rajasthan it shall be 0.5% and in case of sick industries, other than small scale industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be 1% of the value of bid. Concessional bid security may be taken from registered bidders as specified by the State Government.
- In lieu of bid security, a bid securing declaration shall be taken from Department of State Government and Undertakings, Corporation, Autonomous bodies, Registered societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.

**The BSD may be forfeited:**

- If a Bidder withdraws its bid during the period of bid validity specified in the RFP; or
- If the Bidder is found to have submitted false particulars / fake documents; or
- If the Bidder is found to have indulged in corrupt practices or manipulation of rates by cartelization; or
- In the case of a successful Bidder, if the Bidder fails;
  - To sign the Contract in accordance with draft mentioned in the annexure of this; or
  - RSRTC will reject a proposal for the award of Contract if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract.
  - RSRTC will declare a firm ineligible, either indefinitely or for a stated period of time, for awarding a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, this contract.
  - Any graft, commission, gift or advantage given, promised or offered by or on behalf of the contractor or his partner, agent, officers, director, employee or servant or any one on his or their behalf in relation to the obtaining or to the execution of this or any other contract with the owner, shall be, in addition to any criminal liability which it may incur, subject of any loss or damage to the owner resulting from any cancellation. The owner shall then be entitled to deduct the amount so payable from any moneys otherwise due to the contractor under the contract.

**11. PERFORMANCE SECURITY DEPOSIT:**

The Successful bidder will pay a performance security deposit equal to 5% of the total contract value in the form of a demand draft (DD)/Bank Guarantee/bankers Cheque drawn on a Nationalized/Scheduled Bank located in Rajasthan in favor of "Financial Adviser, Rajasthan State Road Transport Corporation" payable at Jaipur with RSRTC. The security shall remain with RSRTC for a period of sixty days beyond the date of completion of all contractual obligations. No interest shall be payable to the successful bidder for the amount deposited as security.

- 11.1** The Successful Bidder shall keep and maintain the Performance Security valid and in full force and effect at all times during the term of this Contract (through periodic renewals, if any required, at least one month prior to the expiry of the subsisting Performance Security). In the event the successful Bidder fails to provide the renewed/ extended. Performance Security at least 1 (one) month prior to the expiry of the subsisting bank guarantee, so as to maintain the Performance Security valid for the applicable periods, the RSRTC shall have the right to forfeit and appropriate the subsisting Performance Security. Failure of the successful Bidder to maintain the Performance Security in full force and effect throughout the term, in accordance with the provisions hereof, shall constitute Bidder's Event of default in terms hereof.
- 11.2** In the event of the successful Bidder being in default of the due, faithful and punctual performance of its obligations under the Contract, in the event of there being any claims or demands whatsoever whether liquidated or which may at any time be made or have been made on behalf of the RSRTC for or against the successful Bidder under this Contract or against the RSRTC in respect of this Contract which remain unpaid by the successful Bidder the RSRTC shall, without prejudice to its other rights and remedies hereunder or in law, be entitled to call in, encash and appropriate the relevant amounts from the Performance Security as damages for such default, or loss suffered on account of failure to perform its obligations or non-payment of dues, any demands or claims.
- 11.3** The decision of RSRTC as to any breach/ delay having been committed, liability accrued or loss or damage caused or suffered shall be conclusive, absolute and binding on the successful Bidder and successful Bidder specifically confirms and agrees that no proof of any amount of liability accrued or loss or damages caused or suffered by the RSRTC under this Contract is required to be provided in connection with any demand made by the RSRTC to recover such compensation through invoking and encashment of the Performance Security under this Contract.
- 11.4** In the event of encashment of the Performance Security by the RSRTC, in full or part, successful Bidder shall within 30 (thirty) days of receipt of the encashment notice from the RSRTC provide a fresh Performance Security or replenish (in case of partial appropriation) the existing Performance Security, as the case may be. The provisions of this Article shall apply mutatis mutandis to such fresh Performance Security.

Successful Bidder's failure to comply with this provision shall constitute successful Bidder's Event of Default which shall entitle the RSRTC to terminate this Contract in accordance with the provisions of the clauses of this Contract.

- 11.5 In lieu of performance security, a performance securing declaration shall be taken from Department of State Government and Undertakings, Corporation, Autonomous bodies, Registered societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.

## **12. INSTRUCTION TO BIDDER:**

### **12.1 Prevailing of Law:**

The Law relating to procurement "The Rajasthan Transparency in Public Procurement Act, 2012" [hereinafter called the Act] and the "Rajasthan Transparency in Public Procurement Rules, 2013" [hereinafter called the Rules] under the said Act have come into force with effect from 26 January, 2013 which are available on the website of State Public Procurement Portal <http://sppp.rajasthan.gov.in> Therefore, the Applicant / Bidders are advised to acquaint themselves with the provisions of the Act and the Rules before participating in the Bidding process. If there is any discrepancy between the provisions of the Act and the Rules and this Bidding Document, the provisions of the Act and the Rules shall prevail.

### **12.2 Amendment of RFP Document**

- 12.2.1 At any time prior to the last date for receipt of bids, RSRTC, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document by an amendment. It shall not be mandatory for RSRTC to disclose the reasons for this change.
- 12.2.1 The amendment will be notified through website of RSRTC and would be binding on all Bidders.
- 12.2.2 In order to provide prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, RSRTC may, at its discretion, extend the last date for the receipt of Bids.
- 12.2.3 RSRTC may at any time during the bidding process request the Bidder to submit revised Technical / Financial Bids and/or Supplementary Financial bids without thereby incurring any liability on RSRTC to the affected Bidder or Bidders before opening of financial bids.
- 12.2.4 Bidders should make note of any amendments and corrigendum issued at any time by RSRTC through the department website and the same must be submitted as enclosure of RFP document.

### **12.3 Language of Bids**

- The Bids prepared by the Bidder and all correspondence and documents relating to the bids exchanged by the Bidder and RSRTC, shall be written in English language, provided that any printed literature furnished by the Bidder may be

written in another language so long the same is accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall prevail.

#### **12.4 Bid Price**

The Bidder shall quote in the Performa prescribed in financial bid;

12.4.1 The Bidder shall prepare the bid based on details provided in the RFP documents. The Bidder shall carry out all the tasks in accordance with the requirement of the RFP documents and it shall be the responsibility of the Bidder to fully meet all the requirements of the RFP documents.

12.4.2 The Bidder as part of its Financial Bid should account for all out of pocket and other expenses that the Bidder shall incur during the contract period.

#### **12.5 Firm Price**

Prices quoted and negotiated must be final and shall remain constant throughout the period of the contract and shall not be subject to any upward modifications, on any account whatsoever. The Bid Prices shall be indicated in Indian Rupees (INR) only.

12.5.1 RSRTC reserves the right to validate the technical specifications supplied with respect to specifications as provided in RFP using competent technical committee/agency acting on behalf of RSRTC.

12.5.2 The Financial Bid should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes and other charges as may be applicable in relation to the activities proposed to be carried out.

12.5.3 In case the taxes are not including in bid prices, the amount so mentioned would be deemed as inclusive of taxes.

12.5.4 A proposal submitted with an adjustable price quotation or conditional proposal shall be treated as non-responsive and the bid shall be rejected summarily.

#### **12.6 Authorized Signatory**

12.6.1 For the purpose of submission of the bid, the Bidder may be represented by either the Principal Officer (MD/CEO/Company Secretary) or his duly Authorized Representative, in which case he/she shall submit a certificate of authority (Power of Attorney or Board Resolution). All certificates and documents (including any clarifications sought and any subsequent correspondences) received hereby, shall, as far as possible, be furnished and signed by the authorized representative or the Principal Officer.

### **12.7 Period of Validity of Bid**

Bids shall remain valid for period of 90 days from opening of the bid. A bid valid for a shorter period shall be rejected by RSRTC as non- responsive and shall not be taken up for evaluation purposes.

12.7.1 RSRTC may request the Bidder(s) for an extension of the period of validity of the bids.

12.7.2 The request and the responses thereto shall be made in writing (by letter or by e-mail). The validity of BSD shall also be duly extended in accordance to mutual consent of the bidders.

12.7.3 A bidder granting the request will not be permitted to modify its bid.

### **12.8 Local Conditions**

It will be incumbent upon each Bidder to fully acquaint himself with the local conditions and factors at the respective locations, sites and offices of RSRTC that would have any effect on the performance of the contract and / or the cost.

12.8.1 The Bidder is expected to obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into contract. Obtaining such information shall be at Bidder's own cost. RSRTC shall, however, provide him necessary permissions if the details of the visit schedule are made available in advance.

12.8.2 Failure to obtain the information necessary for preparing the bid and/or failure to perform activities that may be necessary for project will in no way relieve the successful Bidder from performing any work in accordance with the contract entered into.

12.8.3 It will be imperative for each Bidder to fully inform themselves of all local and legal conditions and factors which may have any effect on the execution of the contract as described in the RFP documents.

### **12.9 Conflict of Interest**

A Bidder may be considered to be in conflict of interest with one or more parties in a bidding process if, including but not limited to:-

- they have controlling partners in common;
- they receive or have received any direct or indirect subsidy from any of them;
- they have the same legal representative for purposes of the bid;
- they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another;

### **12.10 Right to vary quantity**

12.10.1 At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased, but such increase shall not exceed 20% of the quantity specified in the



bidding documents. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.

12.10.2 If the procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation.

#### **12.11 Last date of Receipt of the Bid**

12.11.1 Although, bids will be received by online but not later than the time and date specified in Key Events & Date.

12.11.2 RSRTC may, at its discretion, extend the last date for the submission of bids by issuing a corrigendum and amending the dates provided in Key Events & Date, in which case all rights and obligations of RSRTC and Bidders previously subject to the last date will thereafter be subject to the last date as extended.

#### **12.12 Evaluation of Bid**

##### **Evaluation Methodology**

RSRTC will examine the bids in two phases.

##### **a) Phase 1 – Technical Evaluation**

All bids will go through an evaluation against the Eligibility Criteria as mentioned in this bid. Only those bidders who meet the Eligibility Criteria would be considered for Phase 2 of the financial evaluation process.

##### **b) Phase 2 – Financial Evaluation**

The financial bids of the bidders qualifying Phase 1 of evaluation shall be opened. The selection of the L1 bidder is based on the Quality Cost Based Selection (QCBS) formula:

The Capex weightage is 60% of the quoted price

The Opex weightage is 40% of the quoted price

(4 digits after decimal point shall be taken for calculation of Final Quote)

Calculation for Capex Quote is as below:

**Capex Quote = (Bidder Quoted Price / Highest Capex Price) x 60%**

Calculation for Opex Quote is as below:

**Opex Quote = (Lowest Opex Price / Bidder Quoted Price) x 40%**

**Final Quote = Capex Quote + Opex Quote**

Lowest Final Quote is declared as **L1 bidder**.

**12.13 Post Qualification and Award Criteria**

- 12.13.1 This determination will take into account the Bidder's financial and technical strengths and capabilities. It will also include examination of the documentary evidence submitted by the Bidder as part of the bid as well as such other information as RSRTC deems necessary and appropriate.
- 12.13.2 A negative determination will result in rejection of the Bidder's bid, in which event; RSRTC will proceed to the next best evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
- 12.13.3 RSRTC is not bound to accept the best evaluated bid or any bid and reserves the right to reject any bid without assigning any reason thereof;

**12.14 RSRTC Right to accept any bid or Reject any or all bids**

- 12.14.1 RSRTC reserves the right to accept any bid, and to annul the Bid process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for RSRTC action.

**12.15 Confidentiality of RFP**

- 12.15.1 The terms of this RFP, the information provided by RSRTC herein and all other information provided by bidder in connection with the services offered to be provided by the bidder pursuant to this RFP, are to be treated by bidder as strictly confidential and proprietary. Such materials are to be used solely for the purpose of responding to this request. Access shall not be granted to third parties except upon prior consent of RSRTC and upon the written agreement of the intended recipient to treat the same as confidential.

**13 SCOPE OF WORK:**

The overall scope of work shall be defined for the successful bidder for VT&PIS project is Supply, Installation, Testing, Commissioning, Operate, Training, Support and Maintenance for a period of 5 years as below:

1. Installation of Vehicle Location Tracking Device (VLTD) as per AIS-140 and as required by Transport Department, GoR at firmware level.
2. Installation of Emergency Panic Button (12 per Bus) as per AIS-140 guidelines. Developed and share the location and emergency panic button status to the Abhay Command Center/ ERSS/State ERSS for quick response while panic button was pressed along with desired information as per the AIS-140 guidelines through API.
3. Web based Passenger Information System (PIS) along with ETA/ETD information.
4. Responsive MIS/Admin Portal for RSRTC officials for vehicle roster and crew management, mapping routes, check Vehicle status like online, repair, accident, cut off, offline, battery removed, tampering, bus off-road etc.
5. Android & iOS Mobile App for general passengers for tracking the real time location of the scheduled buses along with near me and raise complaint option.
6. Android & iOS Mobile App for RSRTC officials for route mapping, bus cancellation, tracking vehicles, checking MIS reports etc.
7. The successful bidder shall store all location and other live data at Transport department backend server as per pre-configured IP.
8. For sharing the live vehicle location to the passengers, the system shall be integrated with existing ticketing system through API.
9. Additionally, the successful bidder shall be host entire application at Cloud Bhamashah Data Center, Jaipur for quick generation MIS/Admin portal reports at own level.

**13.2 Vehicle Location Tracking:**

Vehicle Location Tracking (VLT) as per the specification of AIS-140 will broadly consist of the following (but not limited to):

1. The overall scope of Vehicle Tracking & Passenger Information System (VT & PIS) solution is Supply, Installation, Testing, Commissioning, Operation, Training, Support and Maintenance for a period of five years on Design, Build, operate and Transfer (DBOT) basis.
2. The VLT device manufacturer/OEMs/System Integrator must be empanelled to the Transport & Road Safety Department, Government of Rajasthan and their devices shall be able to configured IPs of Transport department backend server backend and ERS server IP.
3. 3<sup>rd</sup> IP of the VLT devices shall be dedicate for RSRTC backend server only. Devices shall not sent data to any other IP in any conditions.

4. VLT device shall be capable of obtaining position information using Indian Regional Satellite Navigation System(IRNS) or latest positioning system as per AIS-140 guidelines.
5. VLT - GPS receiver antenna to receive satellite signals, and transfer vehicle movement data to a central server through GSM and GPRS networks.
6. VLT device shall be capable of transmitting data to minimum 2 different IP addresses (1 IP address for regulatory purpose (PVT data) and 1 IP address for Emergency response system other than the IP's required for Operational purpose.
7. Device shall have an internal back-up battery to support 4 hours of normal operations (to be tested for positional record transmission at a frequency of 60 sec).
8. The VLT Device shall have a unique identifier for identifying the VLT device and data. The unique ID shall be stored in a read only memory area so that it cannot be altered or overwritten by any person. The unique identifier may be Vehicle Identification number or IMEI (International Mobile Station Equipment Identity) Number.
9. VLT Device shall store/write the registration number of the vehicle in the internal nonvolatile memory.
10. Device shall have an Embedded SIM (e-SIM) with minimum two years validity plan at the time of fitment of the devices.
11. Device shall be dust, temperature, vibration, water splash resistant, IP 65 rated or better, tamper proof as per AIS-140.
12. Device shall have 3 axis accelerometer and 3 axis gyroscope for getting the alerts on harsh breaking harsh acceleration, and rash turning.
13. VLT Device shall support over the air software and configuration update.
14. The wire harness used for the device installation shall be as per IS 2465.
15. Other hardware used for installation of the devices like screw/nut/pipes etc shall be as per bus body standards AIS-052.
16. Tracking Device Health Monitoring Parameters: The device shall send status of health parameters at configurable interval and this threshold value shall also be configurable over the air. It shall be possible for health parameters to be fetched on demand via command as per AIS-140 standard.
17. Allow for receiving alerts from buses regarding incidents/accidents between the vehicle crew and control room.

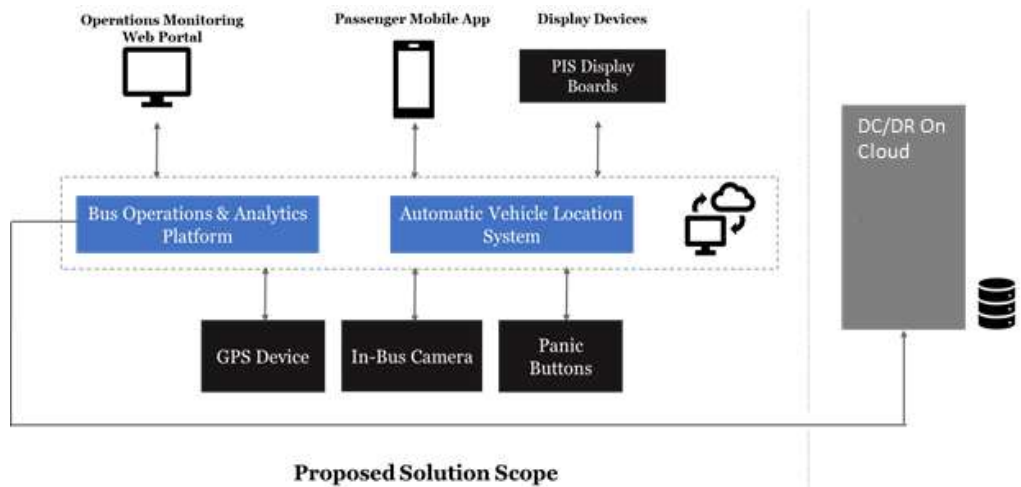
18. In case, the fitted VLT devices shall not be empanelled to the Transport department, GoR then the bidder shall replace with empanelled devices at no extra cost.
19. In case, the consortium OEMs failed to provide the empanelled VLT devices then the bidder shall change the OEMS at the time of empanelled to the Transport Department, GoR
20. E-Sim should be transfer to RSRTC. Regarding this, RSRTC will provide the required KYC documents. The bidder needs to submit the eSIM transfer letter on subscriber letter to RSRTC. However, the recharge amount shall be paid by the bidder only.
21. The digital and analog input and output of the device may be used for vehicle health and MIS reports as and when required.

### **13.3 Panic buttons:**

Panic button will be installed inside the bus which shall be easily accessible to the passengers. In emergency situation, passenger shall be able to push it and alerts will go to the Abhay Command Center/ERSS Team/Control Command Center immediately. The VTS system shall have the ability to raise alerts associated to some of the specific cases:

1. On pressing of Emergency button, the system implementing VLT function shall send emergency Alert to the configured IP address(s) as per the Communication Protocol. In the absence of GPRS network, the emergency alert shall be sent as SMS message along with vehicle location data to configured control center number(s). E-Sim should have sufficient internet plan. It should have at least 100SMS per month. In case of, SMS quantity exhausted then the actual SMS charges shall be submitted by the bidder separately.
2. Alerts shall be displayed on the monitoring console and an extract of the same shall be available on the user dashboard with their jurisdiction of operation.
3. The Control Room operator shall be able to drill down to the exact location of the event by clicking on the alert and see the position of event drawn over the map along with driver, vehicle and standard description of event details etc.
4. Alerts from moving / stranded buses en-route through the operation of a panic button provided along with the VLT device.
5. Alerts generated in case of non-adherence of schedule from the authorized route or bunching and recorded in all cases for reporting and review.

6. Alerts on exceptions for all other pre-configured parameters such as driver behavior, over-speeding, non-stoppage at designated points, not adhering to schedule etc. and login to journey details of the bus for each trip.



#### 13.4 Passenger Information System (PIS):

A Passenger Information System is an electronic information system which provides real time passenger information. It includes both predictions about arrival and departure times.

- 13.4.1 The successful bidder should display the entire RSRTC buses timetable along with expected time of arrival/departure on LED TV. LED TVs are installed in other project i.e. integrated central enquiry system (iCES), the bidder shall be integrated it through API system. The successful bidder is only responsible for API based integration with LED TV project.
- 13.4.2 The bidder also displaying live information of the buses on RSRTC ticketing portal through API and vise-versa.
- 13.4.3 The bidder should integrate exiting ticketing system through API for fetching route information (waybill) for mapping the bus number and routes automatically with deep link.
- 13.4.4 Against the route information(Waybill), the system is capable to allot the vehicle no., mapped the driver information and other route information through web portal/mobile app.
- 13.4.5 After mapping the correct route information through web portal/mobile app, the VLT system shall be pushed all the collected information to ticketing portal/Passenger Mobile app for displaying the current schedule ETA/ETD.

13.4.6 The passenger's mobile app shall also be displayed this real time vehicle location along with vehicle no. route information i.e. Route Name, via stoppage, each stoppage geo-code and its ETA/ETD and near me option.

13.4.7 A complaint-raise management system will be made available by the firm. So that the passenger will be able to upload a photo of the faulty panic button through the mobile app.

### **13.5 Crew Management and Vehicle Roster Management System:**

13.5.1 The successful bidder should be developed the complete vehicle roster and crew management system for assigning the right vehicle to the right crew.

13.5.2 The crew and Vehicle management system shall capable of the following task;

- a. Create Vehicle Master (Vehicle No., Model, Seating Capacity, Manufacturer year etc.)
- b. Create Crew Master (Driver Name, Mobile No., etc.)
- c. Create Schedule/Route master (all the route information along with departure time, stoppage information, service type etc.)
- d. Creating duty chart for mapping the right crew to the right vehicle on daily basis.
- e. Notify the non-availability of crew and assign the new crew from the extra or available staff in the depots.
- f. The system is capable of Duty hours logging: Check-ins and Check-outs.
- g. Provides manpower planning tools to ensure adequacy of crew availability.
- h. Any other report as and when required.

13.5.3 The vehicle is assigned or map to the VTS portal/mobile app based system.

13.5.4 All the parameters should be traceable after shade out of the vehicle.

### **13.6 API System:**

RSRTC have various API Channel Partners for ticketing on prepaid model and intends to spread the live location to its technical partners; thus need to develop the following API:

13.6.1 Location API (All the vehicle location with vehicle no., ETA/ETD, Time and Route Information).

13.6.2 Time Table API (Time table information with vehicle no, ETA/ETD, Detonation Boarding /Departure time.

13.6.3 Emergency Response System (ERS) and State ERS have also been integrated through developed API for quick response in case of panic button was pressed.

13.6.4 Any other API integration required by RSRTC will be provided at no extra cost.

### 13.7 Transport Department Backend Server:

1. The successful bidder shall configure the VLT devices and device shall be capable of transmitting data to Transport Department Backend Control Server via Wide Area (Mobile) Communications network (GSM/GPRS) as per Communication Protocol in Section 4 of AIS-140 guidelines.
2. Transport Department backend should provide the dashboard for real time monitoring of the vehicles(depot-wise/vehicle-wise).
3. VLT Device shall be capable of transmitting Position, Velocity and Time (PVT data) along with heading (direction of travel) to a Transport Department Backend Control Server at configurable frequency as per Communication Protocol.
4. The fixed frequency shall be user configurable, minimum frequency shall be 10 sec during vehicle operation, 5 sec in emergency packet and not less than 10 minutes in sleep/IGN OFF) after a hour of IGN off state as per the protocol defined in Communication Protocol.
5. Device shall be capable of transmitting data to minimum 2 different IP addresses (1 IP address for regulatory purpose (PVT data) and 1 IP address for Emergency response system other than the IP's required for Operational purpose.
6. The successful bidder shall store all the real time tracking data to the Transport Department Backend server.
7. The successful bidder shall transfer all the devices history data to the RSRTC or designated system integrator after the contract terms is over at no cost.

### 13.8 MIS/Admin Management System:

Management Information System or Admin portal will broadly consist of the following (but not limited to):

1. Vehicle movement data will, at the minimum, capture the following:
  - a) The MIS/Admin portal should be web based responsive portal.
  - b) Longitude and latitude of routes, bus stops/ stands route, depots etc. A survey shall be conducted by the firm for taking geo-fence & geo code
  - c) **Location of buses in movement** (displaying Route/ Trip/ Schedule number/ Crew ID/ Direction of travel/ date/ time/ travel / time estimation/ distance/ speed/ etc.) and **buses stationed** (Displayed at Bus Depots/ Stands/ Workshops/ Pickup Points/ Stops, etc.)
  - d) Adherence to schedule will include a set of preconfigured parameters, at the minimum, journey times/ distance/ trips/ stoppage at authorized bus stops/ over-speeding, harsh acceleration/braking etc. For example, capture missed / canceled / completed / deviated / delayed trips by origin/ en-route points/



Destination etc. supported by a color coded display of varying levels of schedule Adherence – On time, Delayed – and take corrective action accordingly.

**13.9 Map Display Requirements, at the minimum include:**

1. Successful Bidder shall provide a vector GIS map approved by Survey of India as per AIS-140 standard of required region of at least 1:2500 scales. GIS maps can be used if it fulfills the requirements of the project. Any other map that will fulfill the solution may also be used which should be updated every six months to show expansion of RSRTC operations. Bidder to procure all commercial license and necessary clearances for obtaining the maps. Maps should be refreshed at pre- configurable intervals.
2. The map shall contain the rich attributes for convenience of the users.
3. Planned vs. actual movement of vehicles with ETA displayed at each bus stop.
4. Real-time running - trip linear diagram of buses on a particular route with moving map.
5. Auto headway detection and notification on bunching.
6. Recorded details of the bus movement along the authorized route for a period of three months online and archived data for 5 years.
7. Flashing icon for breakdown, accident, and emergency, idle bus etc.
8. Enable RSRTC staff to query, and visualize graphically, schedule adherence (color coded display of levels of service adherence: On Time, Delayed etc.)
9. Support map based creation/ modification of routes and geo-coding/fencing
10. Role based access to monitor the vehicle movement.
11. Support multiple window views for an overview with capabilities to close up and enlarge a screen of interest with a pop up of all the information related to the vehicle/s.
12. The portal shall be accessed by Monitoring/Control Stations, staff authorized by RSRTC and shall be the single point entry for authentication and role based access and a color coded display of bus stop wise ETA/D of buses.
13. Successful Bidder will undertake a survey to geo-code and geo-fence RSRTC service related data required for the solution such as route, bus stops, bus stands, depots etc. Successful Bidder will populate masters and update the database as and when required on the movement of vehicles (work closely with schedule creating/ planning procedures through applications developed as a part of the scope of the project and associated crew details.
14. A dashboard on fleet performance shall be made available for each user role from VTS with critical information pertaining to adherence to parameters such as

distance, depot, divisions, shift, bus stop, route, schedule, trip (canceled/ missed/ completed/ deviated trips) etc.

15. Backend Intelligent for Planning is required through a decision support system using Artificial Intelligence.
16. The Successful Bidder is free to use the appropriate application that integrates workflow at the depot and Central Office level. Configuration Module will contain master data configuration settings at central level synchronized to automatically update routes (VTU) as and when schedules are modified. Support canceling a service (full/partial) dynamically for present/future/previous date of journey, for a day or period and record any operational information, re-introduce the cancelled service for a day or period. Support time mode and distance mode configurable intervals.
17. Central server will host the Fleet tracking application to manage and monitor fleet performance through backend intelligence (MIS analytical & reporting) tools supported by maps, text, reports and graph displays generating alerts for exception events.
18. Interface by providing feeds to mobile applications for commuters to receive service related information in real time on demand through web or SMS interface respectively. Response to query for service data shall be appropriate to the channel from which the enquiry was received.
19. Support Driver Appraisal Card for performance based incentives.
20. The successful bidder captured all the Geo-Fence code of the bus stops across state and outside of the state for displaying the ETA/ETD.
21. 100% error free system with auto generation of Online MIS for effective monitoring, decision-making, deciding new policies and implementation thereof.
22. Daily, Weekly, Fore-nightly and Monthly Reports as per RSRTC designated official and as & when required.
23. Require a comprehensive admin console for 3D Charts with analytical tool.

**14 Establishment of Control and Command Center at Head Office:**

The bidder should establish the Control and Command Center as per the below requirements;

1. The existing IT Cell (45x27 sq ft) shall be converted into the Control and Command Center at Head Office
2. The successful bidder must establish the 15 seats CCC at RSRTC Head Office
3. The complete revamping work including furniture, fall Ceiling, electricity work, wall mounting A/C, Internet ILL, switches, router, LAN cables and other passive material and work should be done by the successful bidder at own cost.
4. RSRTC shall provide the table space and electricity.

5. The complete IT infrastructure including workstations and other accessories (15 seats) should also provide by the successful bidder.
6. The 3x3 videowall with all required passive material should be installed for close monitoring the VLT, PIS and Panic alerts

**15 Data Center:**

1. All the real time tracking data stored at Transport Department Backend server as per AIS-140 guidelines.
2. The bidder shall also stored the real time tracking data on Cloud at Bhamashah State Data Center as per guidelines of DoIT&C, Government of Rajasthan
3. The standard uptime of the Applications shall also be maintained by the successful bidder under SLA conditions.
4. Cloud licensing and other cost needs to arrange by the bidder at no extra cost.
5. The current three months' data of buses shall be store at Cloud and after that the complete data should be migrated (and purged if directed by RSRTC) at Archive servers / Tape libraries for monitoring purpose of historical incidents. The URL based archival system shall be developed and maintained by the system integrator at own cost during project period.

**16 OBLIGATIONS OF RSRTC:**

1. RSRTC shall provide table space for control and command centre & all depots/bus stands for providing support in operation, regular maintenance of the all hardware devices deployed by the successful bidder.
2. RSRTC shall bear electricity bills/charges at the service centre situated at depots & bus stands.
3. Provide information regarding bus schedule & location information for installation of VTS/GPS devices.
4. Provide buses for installation and maintenance of VTS/PIS device inside the bus on time as per the decided schedule.

**17 TRAINING OF RSRTC USERS**

1. The successful bidder shall provide training to system users to efficiently use the system.
2. The successful bidder shall organize periodical training program for the entire solution on an as and when required basis during entire project duration @100 RSRTC staff per year. Training should be provided for complete scope of RFP to designated officials of RSRTC.

3. Training needs to be conducted based on a requisite mix of theory & practical operational sessions. The trainings should be conducted in Hindi.
4. The training shall be conducted at RSRTC head office or depots locations or both.

**18 MAINTENANCE:**

The successful bidder should define and indicate the preventive maintenance schedule and procedure. Any special tools/ instruments/ equipments required to carry out the preventive and break down maintenance of the system offered should be clearly indicated and offered to RSRTC by the successful bidder at no extra cost.

**19 DOCUMENTATION:**

The successful bidder shall prepare all necessary documentation for the project, and provide this to RSRTC or its designated Consultant for review, approval, record, reference etc as mentioned in this RFP. Some of the documents (but not limited to) to be provided include –

- 19.1 All the SRS/FRS documents as per requirement of this RFP.
- 19.2 During installation and post installation, the Systems Integrator shall provide documentation on As-Built components /customized components to RSRTC. The documentation should consist of all the configuration details, diagrams, Test plans, administration manuals, setup guides etc as minimum.
- 19.3 Detailed manuals for each appropriate unit of the supplied equipment and services including certifications from OEMs.
- 19.4 The training and operational manuals should be bilingual (English & Hindi).
- 19.5 Inspection and testing procedure manuals including QA policy and procedures for the software/hardware equipments.
- 19.6 Any other document(s) deemed necessary for implementation, operation and maintenance of the hardware and network equipments and the overall system.

## 20 PROJECT IMPLEMENTATION PLAN:

The milestones, deliverables and time schedule for the implementation of project shall be as follows:-

- 20.1 The time specified for delivery and other activities as mentioned in the table below shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies and provide the required services within the specified period.
- 20.2 It should be noted that any delay in the project timelines shall attract Liquidated Damages to the selected bidder.
- 20.3 T1 is the event marking date of signing of agreement with successful bidder and RSRTC.
- 20.4 The successful bidder must install VLT and Panic buttons in the newly purchased 550 buses within a month after issuing the work order and for rest buses the PIP is as below

SN	Activity	Timeline
	<b>Project Start Date (Agreement signed date)</b>	T1
1	<b>Phase-I</b>	
2	<ul style="list-style-type: none"> <li>a) Procurement of 800 VLT devices and related hardware with installation at deluxe depot.</li> <li>b) Submitted the SRS/FRS technical document and taking approval.</li> <li>c) Simultaneously develop the Web portal and Mobile App and Testing as per defined scope of work and standing instructions.</li> <li>d) Complete deployment of BSDC hosting for front/backend Web portal and Mobile applications.</li> </ul>	T1+10 weeks
3	Integration the VLT data to Transport department Back Server. <ul style="list-style-type: none"> <li>• Integration of VLT live data to existing ticketing system and vice-versa for mapping the live location on ticketing portal</li> </ul>	T1+12 weeks
4	<ul style="list-style-type: none"> <li>• User Acceptance Testing (UAT)</li> <li>• Bug fixing, if any</li> </ul>	T1+13 Weeks
5	<ul style="list-style-type: none"> <li>• Production Acceptance Testing (PAT) for Software Applications</li> </ul>	T1+14 Weeks
	<b>Phase-II</b>	
6	<ul style="list-style-type: none"> <li>• Simultaneously installation and commissioning of VTS and Panic button devices Computer Hardware or other mediator equipments for transmission of PIS information to the bus stands of the remaining Depots.</li> <li>• Establishment of Command and Control Center with 3x3 video-wall with all related equipments.</li> </ul>	T1+18 weeks
7	<ul style="list-style-type: none"> <li>• Deployment of complete Manpower in CCC.</li> </ul>	T1 + 20 weeks
8	<ul style="list-style-type: none"> <li>• Training to designated RSRTC officials</li> <li>• Preparation &amp; submission of technical document                             <ul style="list-style-type: none"> <li>- User Manual</li> <li>- Training Manual</li> <li>- Installation Manual</li> </ul> </li> <li>- Operational &amp; Maintenance Manual</li> </ul>	T1+25 weeks
9	Go-Live of the entire project including all the required integration and the performance of the applications on actual load.	T1+26 weeks

The time line to complete Phase I and Phase II is 26 week (6 months) from the award of the contract. However, the system integrator may complete the Phases before the above stated timeline and project may be given 'Go-Live' status.

## **21 PAYMENT TERMS:**

- 21.1 The successful bidder request for payment shall be made to the RSRTC in writing, accompanied by invoices describing, as appropriate, the services delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfillment of all the obligations stipulated in the Contract.
- 21.2 The bid is designed to install devices in approximate 4000 buses but payment will be made as per actual installation.
- 21.3 RSRTC consider the installation of 12 panic buttons in each bus but the payment shall be made on actual fitment basis according to AIS standard. The unit wise rate of panic button shall be calculated for payment purpose.
- 21.4 The successful bidder may request for payment of Operation and Maintenance (O&M) period to the Head Office on monthly basis after successful issuance of PAT certificate.
- 21.5 In case of PAT certificate delayed due to any reason, the O&M phase shall not started and no payment in this regards.
- 21.6 Due payments shall be made promptly by the RSRTC, generally within thirty (30) working days after submission of an invoice or request for payment by the successful bidder. No interest shall be payable in case payment is delayed for any reason.
- 21.7 Taxes, as applicable, will be deducted/ paid, as per the prevalent rules and regulations.
- 21.8 The currency or currencies in which payments shall be made to the successful bidder under this agreement shall be Indian Rupees (INR) only.
- 21.9 All remittance charges will be borne by the successful bidder.
- 21.10 In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute within 90 days.
- 21.11 Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective milestones.

21.12 The payment schedule of the successful bidder is as below:

SNo	Activity	Payment Terms
	<b>Project Start Date (Agreement signed date)</b>	
1	<b>Phase-I</b>	
2	<ul style="list-style-type: none"> <li>• Procurement of 800VLT devices and related hardware with installation at deluxe depot.</li> <li>• Submitted the SRS/FRS technical document and taking approval.</li> <li>• Simultaneously develop the Web portal and Mobile App and Testing as per defined scope of work and standing instructions.</li> <li>• Complete deployment of BSDC hosting for front/backend VTS, PIS Web portal and Mobile applications.</li> <li>• The bidder shall also conduct the load test for full scale of the devices, users and passengers.</li> </ul>	20% of Capex (related items)
3	<ul style="list-style-type: none"> <li>• Integration the VLT data to Transport department Backend Server.</li> <li>• Integration of VLT live data to existing ticketing system and vice-versa for mapping the live location on ticketing portal</li> </ul>	10% of Capex
4	<ul style="list-style-type: none"> <li>• User Acceptance Testing (UAT)</li> <li>• Bug fixing, if any</li> </ul>	10% of Capex
5	• Production Acceptance Testing (PAT) for Software Applications	10% of Capex
	<b>Phase-II</b>	
6	<ul style="list-style-type: none"> <li>• Simultaneously installation and commissioning of VTS and Panic button devices, Computer Hardware or other mediator equipments for transmission of PIS information to the buses/stands of the remaining Depots.</li> <li>• Establishment of Command and Control Center with 3x3 video-wall with all related equipments at Head Office, Jaipur</li> </ul>	10% of Capex
7	• Deployment of complete Manpower in CCC.	10% of Capex
8	<ul style="list-style-type: none"> <li>• Training to designated RSRTC officials</li> <li>• Preparation &amp; submission of technical document                             <ul style="list-style-type: none"> <li>- User Manual</li> <li>- Training Manual</li> <li>- Installation Manual</li> </ul> </li> <li>- Operational &amp; Maintenance Manual</li> </ul>	10% of Capex
9	Go-Live of the entire project including all the required integration and the performance of the applications on actual load.	10% of Capex
10	Amount hold against Performance Security Deposit	10% of Capex
11	Complete Operation and Maintenance (O&M) phase for entire project	Monthly payment as per quoted by the bidder

## 22 SERVICE LEVEL AGREEMENT:

SLA is the contract between RSRTC and the successful bidder. SLA defines the terms of the Successful bidder's responsibility in ensuring the timely delivery of the deliverables and the correctness of the same based on the agreed Performance Indicators as detailed in the Agreement. This section defines various Service Level Indicators which will be considered by RSRTC in the Service Level Agreement with Successful bidder.

The successful bidder has to comply with all Service Level Agreements (SLAs) defined below to ensure adherence to project timelines, quality and availability of services.

1. The successful bidder is supposed to maintain all hardware, software and connectivity at the level of depot/bus stand/data center fully functional modes for the entire project period.
2. To support the above, the VLT & PIS application shall have a dash board / report for non-working VTS devices and provision to mark vehicles availability and status of faulty unit / action required.
3. The VTS/GPS device uptime is 98% in a month. If the device measured less than the uptime, then the penalty of Rs. 200/- per device shall be imposed and can be deducted from the monthly invoices.
4. The faulty VTS/GPS device shall be repaired/replaced before the departure of the bus to the next trip from the depot.
5. In case, the fault is detected/reported after the departure of the bus from the depot, the bidder will repair/replace the device within 24 hours in the depot.
6. In case of delay in repairing/replacing the device beyond 24 hours, a penalty of Rs 200/- per day for the non-functioning of the device will be imposed.
7. The Panic Buttons inside the buses shall be repaired/replaced within 24 hours of fault detection/reported time. In case of delay in repairing/replacing the device after 24 hours, a penalty of Rs 20/- per day per button for a non-functioning device will be imposed.
8. The installed computer/printer/UPS etc. hardware items at Control and Command Center/Depots shall be repaired/replaced within 48 hours of fault detection/reported time. In case of delay in repairing/replacing the device after 48 hours, penalty of Rs 200/- per day per device for non-functioning of device will be imposed.
9. Any report asked by the RSRTC, the successful bidder shall provide the same within 24 hours after issuing the letter. If the successful bidder fails the same, the penalty of Rs. 5000/- per day shall be imposed until the report is available. However, the sufficient time shall be given by the authority for the same.



10. Penalty for delay in final Go-Live of the project at all locations will cover under liquidated damages provisions.
11. The successful bidder will ensure that the service at Cloud BSDC is up and functional 24 X 7 both in terms of hardware as well as application software. For the purpose of service level assurance, the downtime hours (Cloud and Application) shall be calculated on monthly basis. The overall uptime of Cloud and Application should maintain a minimum of 98% or more on monthly basis. The table below shows the calculation for the down time in hours and applicable penalty in term of percentage (%) on total monthly payable amount

Srl	Uptime of Cloud Service and Application	Penalty in % on total monthly payable amount
1.	98% or more	NIL
2.	>=97% to < 96%	3 %
3.	>=95% to <94%	5 %
4.	>=93% to <90%	8 %

**Note:** The consolidated maximum penalty amount should not exceed 10% of the total project cost at any time during complete project period of 5 years otherwise the contract may be terminated by RSRTC. The notice of termination shall specify that termination is due to the reason that the bidder is unable to meet the primary objective of the project.

### 23 CONTRACT PERIOD:

The contract period shall be implementation period plus five years(6 months of implementation and 60 months of operation period) after the signing of contract. Contract period can be extended further upto 2.5 years with mutual consent (bidder and RSRTC) and/or as per RTPP Act 2012 and Rules 2013.

### 24 THIRD PARTY AUDIT:

- a. A Third Party Quality Certifying Agency (STQC or any other agency empaneled with GOI/GoR in consultation with RSRTC) to be involved by the bidder from the very beginning of the project to ensure that proper application design and development standards are met and have to obtain required certification from STQC/empaneled agency of GOI/GoR for each stage at no extra cost. The cost of the audit will be borne by the successful bidder.
- b. Third Party Audit of the developed application should be done to ensure security loop holes and other vulnerability.

- c. Third Party Audit shall include monitoring the performance of the system with a view to ensuring desired Quality of Service (QoS) by the successful bidder as defined in the respective SLA's, signed between RSRTC and the successful bidder. The TPA will be required to verify compliance with pre-defined terms and conditions pertaining to software development, security audit (both application software, server side hardware and system software), load specifications, etc.
- d. **Performance Criteria and SLA:** The TPA would audit and certify whether the final IT System developed would be able to perform as per the criteria set in this RFP. It would thoroughly test and certify the robustness of the Application as against the Technology and Performance SLA criteria specified in this RFP. The TPA will conduct performance testing beyond the specified requirements until the system breaks down and thereby propose remedies to address the weaknesses existing in application software. Test cases required for performance testing has to be written by the audit agency, wherein similar load conditions have to be simulated. The TPA will also test the accounting systems and SLA monitoring system of this application with respect to design, security and completeness.
- e. **IT Infrastructure designed and set up by the system integrator for the project:** The TPA would test, audit and certify the IT infrastructure (Hardware and System Software) configuration (as per the agreed upon BoM) etc.
- f. **Security Implementation:** It is essential that the application is very secure and the security related policies, processes and procedures are envisioned and implemented properly. As an integral part of the process, the TPA will be required to audit the Security Architecture, implementation of security features in the hardware infrastructure and system software used for hosting the application and entire application after the system integrator notifies its readiness to 'Go-Live'.
- g. **The TPA review will focus on the following:**
  - i. Deliverable Audit – This audit will focus on reviewing the deliverables. The review will focus on the –
  - ii. Completeness of the deliverables
  - iii. Compliance of the deliverables to best practices and standards.
  - iv. Implementation Audit – The implementation audit will focus on reviewing the implemented system. It will verify the performance, functional compliance, security compliance and SLA monitoring.

## 25 CHANGE MANAGEMENT:

- a) RSRTC may at any time, by a written order given to the bidder, make changes within the general scope of the Agreement in any one or more of the following: -

1. Provided under the scope/agreement are to be specifically developed and rendered for RSRTC.
  2. The method of Deployment.
  3. Schedule for Installation Acceptance.
  4. Software of Application related business rules.
  5. The place of delivery and/or the services to be provided by the bidder.
- a) The change request/ management procedure will follow the following steps: -
1. Identification and documentation of the need for the change – The information related to initiator, initiation date and details of change required and priority of the change will be documented by RSRTC.
  2. Analysis and evaluation of the Change Request – Impact of the change in terms of the estimated effort, changed schedule, cost and the items impacted will be analyzed and documented by the bidder.
  3. Approval or disapproval of the change request – RSRTC will approve or disapprove the change requested including the additional payments for hardware, software development, quoted man-month rate shall be used for cost estimation, efforts of all resources- project manager, or other resources etc. shall be taken into account for total man-month estimation to carry out the s/w development resulting from the change request. For all technical resources irrespective of their experience and specialization, the quoted man-month rate shall be used. Efforts of support staff shall not be taken into consideration for this purpose.
  4. Implementation of the change – The change will be implemented in accordance to the agreed cost, effort, and schedule by the selected bidder.
  5. Verification of the change – The change will be verified by RSRTC on implementation of the change request.
- b) All changes outside the scope of supplies agreed to herein which may have likely financial implications in terms of the overall cost/ time of the project shall be undertaken by SI only after securing the express consent of RSRTC. In the event that the consent of RSRTC is not received then the change will not be carried out.
- c) While approving any change request, if required, RSRTC may ask the bidder to deploy the required resources on-site.
- d) If any such change outside the scope of supplies agreed to herein causes an increase or decrease in cost of, or the time required for, firm's performance of any provisions under the Agreement, mutually agreed adjustments shall be made in the Agreement Price or Delivery Schedule, or both, and the Agreement shall accordingly be amended. Any claims by firm for adjustment under this must be asserted within 30

(thirty) days from the date of SI receiving the RSRTC change order which shall not be unreasonably withheld or delayed.

**26 EXIT MANAGEMENT:**

**26.1 EXIT MANAGEMET PURPOSE:**

- 26.1.1 This clause sets out the provisions, which will apply on expiry and termination of the Contract, the Project implementation and operations so as to ensure continuity of operations and no disruption of services to the public.
- 26.1.2 Upon termination of the Contract due to default or otherwise, the Parties shall agree at that time whether, and if so during what period, the provisions of this clause shall apply.
- 26.1.3 The Parties shall ensure that they continue to co-operate with each other and carry out their respective obligations during the exit management period as set out in the Exit Management Plan formulated and updated from time to time by the Parties in consultation with each other, to facilitate and implement the seamless transition of Services from the bidder to either RSRTC or its nominated agency or new bidder selected and appointed by RSRTC.

**26.2 TRANSFER OF ASSETS:**

- 26.2.1 The RSRTC shall be entitled to serve notice in writing to the Bidder at any time during the exit management period, requiring the Bidder to provide the RSRTC with a complete and up to date list of the Project Assets within 30 (Thirty) days of such notice which are to be transferred/ handed over to the RSRTC.
- 26.2.2 In the event, if the Project Assets to be transferred are mortgaged to any financial institutions by the Bidder, the Bidder shall ensure that all such liens and liabilities have been cleared beyond doubt, prior to such transfer. All documents regarding the discharge of such lien and liabilities shall be furnished to the RSRTC.
- 26.2.3 Bidder shall transfer all the Project Assets to the RSRTC on INR 1 cost claims pursuant to this article on the last day of the exit management period in good working condition to the satisfaction of RSRTC.
- 26.2.4 Bidder shall transfer the application/software, software code, databases, business data, architecture schematics, designs, storage media and other information/ documents within 30 (Thirty) days of notice period.

**26.3 COOPEARTION AND PROVISION OF INFORMATION:**

- 26.3.1 The Bidder will allow the RSRTC or its nominated agency to access the information reasonably required to define the current mode of operation associated with the provision of the Services to enable the RSRTC to assess the existing Services being delivered.
- 26.3.2 Promptly on reasonable request by the RSRTC, the Bidder shall provide access to and copies of all information held or controlled by them which they have prepared or maintained in accordance with this agreement relating to any material aspect of the services. The RSRTC shall be entitled to copy of all such information. Such information shall also include details pertaining to the services rendered and other performance data.

**26.4 CONFIDENTIAL INFORMATION AND DATA SECURITY:**

- 26.4.1 The Bidder will promptly on the commencement of the exit management period supply to the RSRTC or its nominated agency or any replacement Bidder selected by it, the following:
- 26.4.1.1 Information relating to the current services rendered and customer and performance data relating to the performance of Consortium partners in relation to the services;
- 26.4.1.2 Documentation relating to Project's Intellectual Property Rights;
- 26.4.1.3 Documentation relating to vendors and original equipment manufacturer (OEM's);
- 26.4.1.4 All current and updated data as is reasonably required for purposes of the RSRTC or its nominated agencies transitioning the services to its Replacement Bidder in a readily available format nominated by the RSRTC, its nominated or replacement Bidder;
- 26.4.1.5 All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable the RSRTC or its nominated agency, or its replacement agency to carry out due diligence in order to transition the provision of the Services to RSRTC or its nominated agency, or its replacement agency (as the case may be).
- 26.4.1.6 Before the expiry of the exit management period, the Bidder shall deliver to the RSRTC or its nominated bidder or replacement bidder, as the case maybe, all new or up-dated materials from the categories set out in the above point and shall not retain any copies thereof, except that the Bidder shall be permitted to retain one copy of such materials for archival purposes only.

26.4.1.7 Before the expiry of the exit management period, unless otherwise provided under the contract, the RSRTC or its nominated bidder or replacement bidder shall deliver to the Bidder all forms of Bidder's confidential information, which is in the possession or control of RSRTC or its users.

**26.5 TRANSFER OF CERTAIN AGREEMENT:**

26.5.1 On request by the RSRTC or its nominated agency, the Bidder shall effect such assignments, transfers, licenses and sub-licenses as the RSRTC may require in favour of the RSRTC or its nominated agency or replacement bidder, in relation to any equipment lease, maintenance or service provision agreement between Bidder and third party lessors, vendors, and which are related to the services and reasonably necessary for the carrying out of replacement services by the RSRTC or its nominated agency or replacement bidder.

**27 LIQUIDATED DAMAGE:**

- 27.1 If the Bidder fails to complete the entire works before the scheduled completion date or the extended date, the RSRTC may without prejudice to any other right or remedy available to the RSRTC as under the Contract;
- 27.2 Recover from the Bidder, as liquidated damages and not by way of penalty for a delay of Rs. 5000/-per day beyond the Scheduled completion date or extended date. For the purpose of liquidated damages, the scheduled completion date will be taken as the date of completion and acceptance of all the activities till Certifications of successful operations of the integrated solution completion given to Bidder by RSRTC and/or
- 27.3 Terminate the contract or a portion or part of the work thereof. The RSRTC shall give 30 days' notice to the Bidder of its intention to terminate the Contract and shall so terminate the Contract unless during the 30 days' notice period, the Bidder initiates remedial action acceptable to the RSRTC.
- 27.4 However, the Dispute Resolution Committee may relax the whole or part of the LD in which the successful bidder must submit valid delay reasons or other remedial actions.

## **28 TERMINATION:**

**28.1** The RSRTC may, terminate this Contract in whole or in part by giving the Bidder a prior and written notice indicating its intention to terminate the Contract under the following circumstances:

**28.1.1** Where the RSRTC is of the opinion that there has been such Event of Default on the part of the Bidder / Bidder's Team which would make it proper and necessary to terminate this Contract and may include failure on the part of the Bidder to respect any of its commitments with regard to any part of its obligations under its Bid or under this Contract.

**28.1.2** Where it comes to the RSRTC's attention that the Bidder (or the Bidder's Team) is in a position of actual conflict of interest with the interests of the RSRTC, in relation to any of terms of the Bidder's Bid or this Contract.

**28.1.3** Where the Bidder's ability to survive as an independent corporate entity is threatened or is lost owing to any reason whatsoever, including inter-alia the filing of any bankruptcy proceedings against the Bidder or its consortium partner(s), any failure by the Bidder or its consortium partner(s) to pay any of its dues to its creditors, the institution of any winding up proceedings against the Bidder or the happening of any such events that are adverse to the commercial viability of the Bidder In the event of the happening of any events of the above nature, the RSRTC shall reserve the right to take any steps as are necessary, to ensure the effective transition of the project to a successor agency, and to ensure business continuity.

**28.1.4** Termination for Insolvency: The RSRTC may at any time terminate the Contract by giving written notice to the Bidder, without compensation to the Bidder, if the Bidder becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the RSRTC.

**28.1.5** Termination for convenience: The RSRTC may at any time terminate the Contract in whole or in part for convenience by giving written notice of thirty (30) days to the bidder. In the event of termination under this Para, the financial payments, if any, to be paid to the bidder shall be decided only through Standing committee as mentioned in the Dispute Resolution Clause

**28.1.6** In the event of termination of this Contract by the RSRTC before the expiry of the term, the Bidder shall be given a period of 30 days to demobilize itself,

**28.1.7** If the Successful bidder fails to deliver any or all services as per service standards specified in the agreement.

**28.1.8** Performance Security deposit shall be forfeited in the case of termination as a whole or part thereof; without prejudice.

**29. FORCE MAJEURE:**

The bidder shall not be liable for penalty, liquidated damages or termination for default, if and to the extent that, his delay in performance or other failure to perform his obligations under the contract is the result of an event of Force Majeure. For purposes of this clause, "Force Majeure" means an event beyond the control of the bidder and not involving the bidder and not involving the bidder's fault or negligence and not foreseeable. Such events may include, but are not restricted to, instances of, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes which would have an impact on RSRTC. If a Force Majeure situation arises, the bidder shall promptly notify RSRTC in writing of such conditions and the cause thereof. Unless otherwise directed by RSRTC, the bidder shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

The Force Majeure circumstances and events shall include the following events to the extent that such events or their consequences (it being understood that if a causing event is within the reasonable control of the affected party, the direct consequences shall also be deemed to be within such party's reasonable control) satisfy the appropriate definition as per this agreement. Without limitation to the generality of the foregoing, Force Majeure Event shall include the following classes of events and circumstances and their effects:

Natural events ("Natural Events") to the extent they satisfy the foregoing requirements including:

- Any material effect on the natural elements, including lightning, fire, earthquake, cyclone, flood, storm, tornado, or typhoon;
- Explosion or chemical contamination (other than resulting from an act of war);
- Epidemic such as plague;
- Any event or circumstance of a nature analogous to any of the foregoing.
- Other Events ("Political Events") to the extent that they satisfy the foregoing requirements including:
  - Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, civil commotion, act of terrorism or sabotage, lockdown;
  - Strikes, work to rules, go-slows which are widespread, nation-wide, or State-wide and are of political nature;
  - Any event or circumstance of a nature analogous to any of the foregoing.



### 30. DISPUTE RESOLUTION:

1. **Dispute Resolution:** Any dispute or differences whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof, shall, in the first instance, be resolved by referring such dispute or differences to the Standing Committee constituted vide Rajasthan State Road Transport office order No HO/Law/Gen/17/781 dated 3rd Oct 2017. The Standing Committee so constituted shall ensure full compliance with the office order referred above.
2. **Arbitration:** If the second party (lessee/contractor etc.) does not wish to take recourse to the dispute resolution mechanism outlined vide Rajasthan State Road Transport office order No HO/Law/Gen/17/781 dated 3rd Oct 2017 referred to above, or if the second party is not satisfied with the decision of the Standing Committee constituted thereunder, then such dispute or difference relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by a Sole Arbitrator to be appointed by the first party (Rajasthan State Road Transport Corporation) following the qualifications and disqualifications laid down under Section 12 of the Arbitration & Conciliation, Act 1996 as amended.

### 31. First Appellate Authority:

Any dispute related to this bidding process arises between the bidder and RSRTC, shall first be settled by the concerned HoD, Procurement Entity.

### 32. INDEMNITY:

1. Either Party ("Indemnifying Party") hereby agrees to indemnify and holds harmless the other Party "Indemnified Party"), its affiliates, directors, officers, employees and personnel from and against any and all losses, claims, damages and liabilities (including, without limitation, legal fees and other expenses incurred in connection with any suit, action or proceeding or any claim asserted by any person including third parties, as such fees and expenses are incurred), joint or several, that arise out of, or based upon
2. Any untrue statement or misrepresentation of a material fact contained in the documents / other material provided by the Indemnifying Party or an omission to state a material fact therein;
3. any non-performance or breach of the roles, responsibilities, representations, warranties, undertakings and declarations contained herein by the Indemnifying Party or its directors, employees, personnel or representatives.
4. The remedies provided for in this clause are not exclusive and may not limit any rights or remedies that may otherwise be available to either Party, its directors, employees, personnel or representatives in law or in equity.

### **33. LIMITATION OF LIABILITY:**

Under no circumstances shall either Party be liable to the other Party for indirect incidental, consequential, special or exemplary damages arising from this Agreement, even if Bidder / RSRTC has been advised of the possibility of such damages, such as, but not limited to, loss of revenue or anticipated profits or lost business.

### **34. INTELLECTUAL PROPERTY RIGHTS:**

“Intellectual Property Rights (‘IPR’)” means any patent, copyright, trademark, trade name, service marks, brands, propriety information, Application Software whether arising before or after the execution of this Contract and the right to ownership and registration of these rights.

1. The bidder has to give perpetual license to the RSRTC against the COTS product supplied and the same has to be transferred to the RSRTC at the end of the project period. The customization done over and above the COTS product is the ownership of the RSRTC and the source code for this customization has to be handed over to the RSRTC at the end of the project period, whereas the COTS product software should be handed over to the RSRTC as a perpetual license. Finally the RSRTC will get to use the software along with customization for unlimited period without any additional cost.
2. The IPR of the COTS product remains with the OEM/Bidder whereas the IPR for customization will be held jointly by RSRTC& OEM/Bidder.
3. If RSRTC desires, Further, the bidder shall be obliged to ensure that all approvals, registrations, licenses, permits and rights etc. which are inter-alia necessary for use of the goods supplied / installed by the bidder, the same shall be acquired in the name of the RSRTC, prior to termination of this Contract and which may be assigned by the RSRTC to the bidder for the purpose of execution of any of its obligations under the terms of the Bid, Tender or this Contract. However, subsequent to the term of this Contract, such approvals, registrations, licenses, permits and rights etc. shall endure to the exclusive benefit of the RSRTC.
4. The bidder’s Team shall ensure that while it uses any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person and the bidder shall keep the RSRTC indemnified against all costs, expenses and liabilities howsoever, arising out any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or violation of any permission/license terms or infringement of any Intellectual Property Rights by the SI or the bidder's Team during the course of performance of the Services. In case of any infringement by the bidder’s Team, bidder shall have sole control of the defense and all related settlement negotiations.
5. All the assets will be transferred to RSRTC at the end of the Contract period.

**35. GOVERNING LAW AND JURISDICTION:**

1. The provisions of this Agreement shall be governed by, and constructed in accordance with laws of India.
2. All legal proceedings, if necessary, arise to institute by any of the Parties shall have to be lodged in courts situated in Jaipur not elsewhere.

**36. WAIVER:**

No failure or delay on the part of either Party in the exercise of any power, right or privilege hereunder shall operate as a waiver thereof, nor shall any failure or delay in exercise of such power, right or privilege preclude the other from further exercise thereof. The rights and remedies provided in this Agreement are cumulative and not exclusive of any rights or remedies provided by law.

**37. OPERATIONS AND SERVICE STANDARDS:**

All operating and servicing standards and procedures will be as mutually agreed upon between the Parties to this Agreement in compliance with the direction of AIS-140/MoRTH from time to time. Amendments to the operating and service level standards will not require any amendment to this Agreement, but will be confirmed by prior exchange of letters in writing.

**38. COUNTERPARTS:**

This Agreement may be executed in two counterparts, each of which when so executed and delivered, shall be an original, but all the counterparts shall together constitute one and the same instrument.

**39. SEVERABILITY:**

If any portion of this Agreement shall be declared invalid by order, decree or judgment of a court of competent jurisdiction, this Agreement shall be construed as if such portion had not been inserted herein except when such construction would constitute a substantial deviation from the general intent and purpose of the Parties as reflected in this Agreement.

**40. ASSIGNMENT:**

Neither Party shall assign or transfer all or any of its rights, benefits or obligations under this Agreement without obtaining other Party's prior written approval.

**41. RELATIONSHIP BETWEEN PARTIES:**

The relationship between RSRTC and the bidder shall be governed exclusively by this Agreement and notwithstanding any nomenclature used in this Agreement. No presumption of any relation in the nature of agency, joint venture, partnership or functionality shall be presumed or shall exist. Nothing contained herein shall be deemed to create any relationship of principal and agent or, master and servant or, employer

and employee between the Parties hereto or affiliates thereof or, to provide either Party with the right, power or authority, whether expressed or implied to create any such duty or obligation on behalf of the other Party.

#### 42. FINANCIAL BID:

##### Financial Evaluation

The financial bids of the bidders qualifying Phase 1 shall be opened. The lowest Final Quote price based on the QCBS should be declared as (L1) bidder. The L1 shall be declared as per formula defined at point 12.12;

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##### Item Rate BoQ

Tender Inviting Authority: Executive Director (Traffic)

Name of Work: RFP for implementation of VTS & Panic Button in RSRTC buses

Contract No: F3/HO/IT/27/2023/55 date 30/01/2023

Name of the Bidder/ Bidding Firm / Company :	
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##### PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected the Bidder Name and Values only )

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	NUMBER #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE In Figures To be entered by the Bidder inclusive all taxes for (1 year) Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT With Taxes
1	2	4	5	12	13	53	54
1.1	VTS and Panic Button (Capex Cost for 1 Year)						
2.1	AIS 140 certified VTS device as per ITEM-1	4000.00	Nos	INR		0.00	0.00
3.1	AIS 140 certified Panic Button (12 per Bus) as per ITEM-7	48000.00	Nos	INR		0.00	0.00
4.1	E-Sim charges with 2 years validity	4000.00	Nos	INR		0.00	0.00
5.1	Installation charges including metal conduit per bus (12 per Bus) as per ITEM-7	12.00	Nos	INR		0.00	0.00
6.1	Project advertisement/Awareness campaign	1.00	Nos	INR		0.00	0.00
7.1	Manpower cost for operation of CCC as per ITEM-8	10.00	Yearly	INR		0.00	0.00
8.1	Computers (i7/500/4GB) as per ITEM-2	66.00	Nos	INR		0.00	0.00
9.1	Laser Printers Duplex as per ITEM-4	66.00	Nos	INR		0.00	0.00
10.1	UPS 600 VA as per ITEM-3	56.00	Nos	INR		0.00	0.00
11.1	Internet bandwidth (4 mbps) at depot location as per ITEM-5	56.00	Yearly	INR		0.00	0.00
12.1	10 mbps ILL for control and Command Center as per ITEM-5	1.00	Yearly	INR		0.00	0.00
13.1	Server, SAN Storage, Networking Device, Load Balancers, Operating System, Database Application, Centralized VTS/PIS Application, work stations, Internet Connectivity, Network Management Tool, Service Management Tool etc. at Data Center on cloud	1.00	Yearly	INR		0.00	0.00
14.1	Development of Control and Command Center along with 3x3 video wall and other required accessories at CCC Jaipur	1.00	Nos	INR		0.00	0.00
14.2	Centralised VTS/PIS and MIS Web and Mobile Application development cost as per scope of work	1.00	Nos	INR		0.00	0.00
Total in Figures						0.00	0.00
Quoted Rate in Words						INR Zero Only	

**Item Rate BoQ**

Tender Inviting Authority: Executive Director (Traffic)

Name of Work: RFP for implementation of VTS & Panic Button in RSRTC buses

Contract No: F3/HO/IT/27/2023/55 date 30/01/2023

Name of the Bidder/ Bidding Firm / Company :	
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**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected the Bidder Name and Values only )

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	NUMBER #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE In Figures To be entered by the Bidder inclusive all taxes (4yrs) Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT With Taxes
1	2	4	5	12	13	53	54
1.1	VTS and Panic Button (Opex Cost for 4 Years)						
2.1	AIS 140 certified VTS device as per ITEM-1	4000.00	Nos	INR		0.00	0.00
3.1	AIS 140 certified Panic Button (12 per Bus) as per ITEM-7	48000.00	Nos	INR		0.00	0.00
4.1	E-Sim charges with 2 years validity	4000.00	Nos	INR		0.00	0.00
5.1	Installation charges including metal conduit per bus (12 per Bus) as per ITEM-7	12.00	Nos	INR		0.00	0.00
6.1	Project advertisement/Awareness campaign	1.00	Nos	INR		0.00	0.00
7.1	Manpower cost for operation of CCC as per ITEM-8	10.00	Yearly	INR		0.00	0.00
8.1	Computers (i7/500/4GB) as per ITEM-2	66.00	Nos	INR		0.00	0.00
9.1	Laser Printers Duplex as per ITEM-4	66.00	Nos	INR		0.00	0.00
10.1	UPS 600 VA as per ITEM-3	56.00	Nos	INR		0.00	0.00
11.1	Internet bandwidth (4 mbps) at depot location as per ITEM-5	56.00	Yearly	INR		0.00	0.00
12.1	10 mbps ILL for control and Command Center as per ITEM-5	1.00	Yearly	INR		0.00	0.00
13.1	Server, SAN Storage, Networking Device, Load Balancers, Operating System, Database Application, Centralized VTS, PIS Application, work stations, Internet Connectivity, Network Management Tool, Service Management Tool etc. at Data Center on cloud	1.00	Yearly	INR		0.00	0.00
14.1	Development of Control and Command Center along with 3x3 video wall and other required accessories at CCC Jaipur	1.00	Yearly	INR		0.00	0.00
14.2	Centralised VTS/PIS and MIS Web and Mobile Application development cost as per scope of work	1.00	Nos	INR		0.00	0.00
Total in Figures						0.00	0.00
Quoted Rate in Words				INR Zero Only			

#### 43. DRAFT AGREEMENT:

This agreement is made and executed on this \_\_\_\_\_ day of \_\_\_\_\_, 2023

#### BETWEEN

Executive Director (Traffic), Rajasthan State Road Transport Corporation (RSRTC), Head Office, Parivahan Marg, Chomu House, Jaipur – 302 001 (hereinafter referred to as “RSRTC”, which expression shall, unless repugnant to the context hereof or excluded specifically, mean and include its successors, assigns and administrators) of the FIRST PART  
AND

M/s <Name>.,<Address>, Phone :<Phone Number>, Fax :<Fax No> (hereinafter referred to as <‘NAME’>), which expression shall, unless repugnant to the context hereof or excluded specifically, mean and include its successors, assigns and administrators) of the SECOND PART

Both the RSRTC and <‘NAME’>), shall hereinafter be referred to individually as ‘Party’ and collectively as ‘Parties’ in this Contract.

#### WHEREAS

- a) The RSRTC, party to the FIRST PART invited RFP vide no. .... Dated .....2023 and subsequent corrigendum (hereinafter called as “RFP”).
- b) The <NAME OF BIDDER>, party to the SECOND PART has submitted its offer for such services in accordance with all the terms and conditions stipulated in the RFP.
- c) The FIRST PART has placed work order to SECOND PART vide order no. .... dated ..... for the aforesaid works for a period of five years as per terms and conditions mentioned in the RFP and this Agreement and whereas the SECOND PART has deposited a sum of Rs. ..../- as a Performance Security Deposit as per Rajasthan Transparency in Public Procurement Act, 2012 and Rules, 2013.
- d) The SECOND PART has agreed to provide services as per terms and condition of the RFP, including the terms of this Agreement, and subsequent corrigendum would be treated as a part of this Agreement.
- e) The terms and conditions laid down in the NIT/RFP documents, work order of contract; Bid Submission Sheet and the Price Schedule submitted by the bidder; and all other relevant documents attached with NIT/RFP shall be deemed to form and be read and constructed as part of this Agreement.

f) In consideration of the foregoing and the mutual covenants and promises contained herein and other good and valuable consideration the receipt and adequacy of which is hereby acknowledged, the parties intending to be bound legally, agree as follows:

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

In this Agreement unless the context otherwise requires:

- “Agreement” means this Agreement, the Schedules attached hereto and the agreed terms as set out in the RFP including any amendments and modifications to the above from time to time.
- “Confidential Information” means any information disclosed to or by any Party to this Agreement and includes any information in relation to the Parties, including any such information that may come to the knowledge of the Parties hereto by virtue of this Agreement that is :
  - by its nature confidential or by the circumstances in which it is disclosed confidential; or
  - designated by the disclosing Party as confidential or identified in terms connoting its confidentiality;
  - But does not include information which is or becomes public knowledge other than by a breach of this Agreement;
- “Document” means any embodiment in any text or image however recorded and includes any data, text, images, sound, voice, codes or/and databases or microfilm or computer generated micro fiche’
- “Contract period” shall refer as per clause 23.
- “Services” means all such services that are set out in the Scope of work as per RFP and includes any amendment, modification, clarification and addition to such Scope of work, as the RSRTC may deem fit and mutually decide upon by both the parties during the Term of this Agreement in order to enable the performance of the System, as set out in this Agreement;
- Bidding Authority refers to Executive Director (Traffic), RSRTC, Jaipur.

INTERPRETATION:

- In this Agreement unless a contrary intention is evident
- The clause headings are for purposes of convenience of reference only and do not form part of this Agreement

- unless otherwise specified a reference to a clause number is a reference to all of its sub-clauses
- Unless otherwise specified a reference to a clause, sub-clause or Schedule is a reference to a clause, sub-clause or Schedule of this Agreement including any amendments or modifications to the same from time to time.
- A word in the singular includes the plural and a word in the plural includes the singular.
- A word importing a gender includes any other gender,
- A reference to a person includes a partnership and a body corporate;
- A reference to legislation includes legislation repealing, replacing or amending that legislation;
- Where a word or phrase is given a particular meaning it includes the appropriate grammatical forms of that word or phrase which have corresponding meanings.
- In the event of an inconsistency between the terms of this Agreement and the RFP, the terms hereof shall prevail.

IN WITNESS WHERE of the Parties here to have hereinto set their hands and seal the day and year first above written.

<p>_____</p> <p>Executive Director (Traffic), Rajasthan State Road Transport Corporation, Head Office, Jaipur</p> <p>Witnesses :</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>Authorized Signatory, SECOND PART</p> <p>NAME: DESIGNATION: ADDRESS:</p> <p>Witnesses :</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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**44. DEPOTS LOCATIONS:**

S.No.	Location	S.No.	Location
1.	Jaipur	29.	Anoopgarh
2.	Vaishali Nagar	30.	Bikaner
3.	Vidhydhar Nagar	31.	GangaNagar
4.	Deluxe	32.	Hanumangarh
5.	CBS Jaipur	33.	SardarShahar
6.	Dausa	34.	Churu
7.	Kotputali	35.	Sikar
8.	Bharatpur	36.	Jhujhunu
9.	Lohagarh	37.	Falna
10.	Hindaun	38.	Phalodi
11.	Karoli	39.	Jodhpur
12.	Alwar	40.	Jaisalmer
13.	Matsya Nagar	41.	Jalore
14.	Dholpur	42.	Pali
15.	Tijara	43.	Sirohi
16.	Kota	44.	Aburoad
17.	Bundi	45.	Udaipur
18.	Tonk	46.	Banswara
19.	Jhalawar	47.	Rajasamnd
20.	SawaiMadhopur	48.	Khetri
21.	Baran	49.	Chittorgarh
22.	Ajmer	50.	Dungarpur
23.	CBS Ajmer	51.	Barmer
24.	Beawar	52.	Shahpura
25.	Deedwana	53.	Srimadhopur
26.	Nagaur	54.	Pratapgarh
27.	Ajaymeru	55.	CBS Ahmedabad
28.	Bhilwara	56.	CBS Delhi

No. of Depots	56
No. of Buses	4000 (Maximum)
No. of Schedule	Approx 4000
No. of Bus Stoppage, Workshops, bus Stands	Approx 12K (Need to be geo-fenced)

**45. ANNEXURES:**

**Annexure-1**

**Covering Letter for Technical Bid**

{To be submitted on letter head}

Executive Director (traffic)  
RSRTC Head Office,  
ParivahanMarg, C-Scheme  
Jaipur- 302001

Sir,

Having examined the RFP documents the receipt of which is hereby duly acknowledged, I/we, the undersigned, offer the "Project Name" in RSRTC as required and outlined in the RFP.

I/ We undertake, if our bid is accepted, to develop the "Project Name" in accordance with the requirements.

I/ We agree to abide by this bid for a period of three months after the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before the expiry of that period. Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

We agree to the terms & conditions mentioned in the RFP document.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

Signature (in the capacity of)

Duly authorized to sign Bid for and on behalf of

Seal of the Company

**Annexure-2**

**Fairness of Document**

{To be submitted on letter head}

Executive Director (traffic)  
RSRTC Head Office,  
ParivahanMarg, C-Scheme  
Jaipur- 302001

Sir,

Having examined the RFP Document the receipt of which is hereby duly acknowledged, I/we, the undersigned, offer the "Project Name" in RSRTC as required and outlined in the RFP.

- I/ We undertake, all the documents submitted along with technical/financial bid are true, fair and valid in accordance with the RFP document.
- I/ We agree to reject out rightly my bid if anything found bogus, misleading or incorrect information.
- We agree to all the terms & conditions mentioned in the RFP document.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

Signature (in the capacity of)  
Duly authorized to sign Bid for and on behalf of

Seal of the Company

**Annexure-3**

**Black Listed/Debar Certificate**

{To be submitted on Rs. 500/- Non-judicial stamp paper}

Executive Director (Traffic)  
RSRTC Head Office,  
ParivahanMarg, C-Scheme  
Jaipur- 302001

Sir,

Having examined the RFP Document the receipt of which is hereby duly acknowledged, I/we, the undersigned, offer the "Project Name" in RSRTC as required and outlined in the RFP.

- I/ We undertake, we (with all consortium partners) should not be declared as bankrupt or shall not have any proceeding for bankruptcy or insolvency/ debarred/ blacklisted / banned/ not being under declaration of ineligibility for corrupt or fraudulent practices or Non-delivered or non-performance by any Government/RSRTC/PSU/Autonomous Body under any Law in India as on date of submission of this Bid.
- I/ We agree to reject out rightly my bid if anything found bogus, misleading or incorrect information.
- We agree to all the terms & conditions mentioned in the RFP document.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

Signature (in the capacity of)  
Duly authorized to sign Bid for and on behalf of

Seal of the Company

**Annexure-4**

**Declaration by the Bidder**

In relation to my/our Bid submitted to .....for  
procurement of .....in response to their Notice Inviting Bids  
No.....Dated.....I/we hereby declare under Section  
7 of Rajasthan Transparency in Public Procurement Act, 2012 & Rules 2013 that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of a criminal offense related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the RTPP-Act, Rules and the Bidding Document, which materially affects fair competition;
6. I/We hereby declare that the in the preparation and submission of proposal, I/We have not acted in collusion with any other bidder and not done any act, deed or thing which is or could be regarded as anti-competitive.
7. I/We hereby further declare that I/we have not offered nor will offer any illegal gratification in cash or any other kind to any person or agency in connection with the instant proposal.
8. If any information is found to be wrong in any way, then the corporation shall have the right to cancel my bid without prejudice.

Date:

Signature of the Bidder

Place:

Name:

Designation:

Address:Seal of the Company

**Annexure-5**

**Format for “Request Clarification”**

All queries for the pre-bid meeting needs to be submitted in the following format (both soft copy and hard copy) as mentioned in “Key Events and Dates” clause

Rajasthan State Road Transport Corporation		
	Bidders request for clarification	
Name of Organization submitting the request.		
Name and Designation of person submitting the request.		
Full address of the Organization including Phone/ Fax & e-mail point of contact.		
Telephone		
FAX		
E Mail Address		
Bidding document reference (s) (page no. & section no.)	Content of RFP requiring clarification	Points of clarification required

Pre-bid queries will be entertained only for those bidders who have purchased the RFP.

Place:

Date:

Name & Signature:

Company Seal:

**Annexure-6**

**Compliance with the Code of Integrity and No Conflict of Interest:**

Any person participating in a procurement process shall-

- (a) not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (e) not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) not obstruct any investigation or audit of a procurement process;
- (g) disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

**Conflict of Interest:-**

The bidder participating in a bidding process must not have a Conflict of Interest.

- A Conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.
- B Bidder may be considered to be in Conflict of Interest with one or more parties in a bidding process if, including but not limited to:
  - a. Have controlling partners/ shareholders in common; or
  - b. receive or have received any direct or indirect subsidy from any of them; or
  - c. have the same legal representative for purposes of the Bid; or
  - d. have a relationship with each other, directly or through common third parties, that puts them in position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Entity regarding the bidding process; or
  - e. the Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or

- f. the Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.



**Annexure-7**

**Grievance Redressal during Procurement Process:**

The designation and address of the First Appellate Authority is as per Clause-28

The designation and address of the Second Appellate Authority is Chairman, RSRTC

**(1) Filing an appeal**

If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued thereunder, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings:

Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(2) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of appeal.

(3) If the Officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (3), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

**(4) Appeal not to lie in certain cases**

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) determination of need of procurement;
- (b) provisions limiting participation of Bidders in the Bid Process;
- (c) the decision of whether or not to enter into negotiations;
- (d) cancellation of a procurement process;
- (e) applicability of the provisions of confidentiality.

**(5) Form of Appeal**

(a) An appeal under para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.

- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.
- (6) Fee for filling appeal
  - (a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
  - (b) The fee shall be paid in the form of bank demand draft or banker's cheque of Scheduled Bank in India payable in the name of Appellate Authority concerned.
- (7) Procedure for disposal of appeal
  - (a) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
  - (b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-
    - (i) hear all the parties to appeal present before him; and
    - (j) peruse or inspect documents, relevant records or copies thereof relating to the matter.
  - (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
  - (d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

**[See Rule 83]**

Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012

Appeal No. .... of .....

Before the ..... (First/Second Appellate Authority)

1. Particulars of appellant:

(i) Name of the appellant:

(ii) Official address, if any:

(iii) Residential address:

2. Name and address of the respondent(s):

(i) \*

(ii)

(iii)

3. Number and date of the order appealed against And name and designation of the officer/authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4.If the Appellant proposes to be represented By a representative, the name and postal address

of the representative:

5.Number of affidavits and documents enclosed with the appeal:

6.Grounds of appeal: .....

.....

.....

..... (Supported by an affidavit)

7.Prayer:

.....

.....

.....

Place .....

Date .....

Appellant's Signature

**Annexure-8**

**Certificate of Conformity / No Deviation**

{To be filled by Letter Head of the Bidder}

The Executive Director (Traffic),  
Rajasthan State Road Transport Corporation,  
Head Office, Parivahan Marg, Chomu House,  
Jaipur - 302001, Rajasthan

**CERTIFICATE**

This is to certify that, the specifications of Hardware & Software which I/ We have mentioned in the Technical bid, and which I/ We shall supply if I/ We am/ are awarded with the work, are in conformity with the minimum technical specifications of the bidding document and that there are no deviations of any kind from the requirement specifications.

Also, I/ we have thoroughly read the bidding document and by signing this certificate, we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding document without any deviations and assumptions.

I/ We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the bidding Document.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:

Annexure-9

**Certificate of Conformity / No Deviation by OEM**

{To be filled by each OEM Letter Head in separate}

The Executive Director (Traffic),  
Rajasthan State Road Transport Corporation,  
Head Office, Parivahan Marg, Chomu House,  
Jaipur - 302001, Rajasthan  
NIB Ref No. \_\_\_\_\_

**CERTIFICATE**

I/We \_\_\_\_\_, (name and address of the manufacturer) are established and reputed manufacturers of \_\_\_\_\_ having factories at \_\_\_\_\_ (addresses of manufacturing locations) do hereby certify that, the specifications of Items (Hardware & Software) as mentioned below:

Are in conformity with the minimum specifications of the bidding document and that there are no deviations of any kind from the required specification. These items are being quoted by M/s. \_\_\_\_\_, in compliance to the Technical Specifications mentioned under item no. \_\_\_\_\_, of RFP.

I/We assure that our equipment/ software will be supported and freely upgraded during the entire Contract/ Project period.

Further, to certify that these items comply with Period of end of sale, Period of end of service and Period of back to back support, updates and patches as specified in RFP.

Also, I/ we have thoroughly read the bidding document and by signing this certificate, I/we hereby submit our token of compliance of above mentioned items and clauses of RFP without any deviations.

Thanking you,

Name of the OEM: -

Authorised Signatory: -

Seal & Sign of the Organization: -

Date:

Place:

Annexure-10

**Manufacturer Authorization Form (MAF)**

{To be filled by each OEM Letter Head in separate}

The Executive Director (Traffic),  
Rajasthan State Road Transport Corporation,  
Head Office, Parivahan Marg, Chomu House,  
Jaipur - 302001, Rajasthan

Subject: Issue of the Manufacturer's Authorization Form (MAF)

Reference: NIB/ RFP Ref. No. \_\_\_\_\_ dated \_\_\_\_\_

We {name and address of the OEM} who are established and reputed original equipment manufacturers (OEMs) having factories at {addresses of manufacturing location} do hereby authorize {M/s \_\_\_\_\_} who is our {Distributor/ Channel Partner/ Retailer/ Others <please specify>} to bid, negotiate and conclude the contract with you against the aforementioned reference for the following Equipment/ Hardware/ Software manufactured by us: -

{OEM will mention the details of all the proposed product(s) with their make/ model.}

- We undertake to provide OEM Warranty for the offered Equipment/ Hardware/ Software, as mentioned above, for 5 Years.
- We hereby confirm that the offered Hardware/ Software is not likely to be declared as End-of-Sale within next twelve months from the date of bid submission.
- We hereby confirm that the offered Equipment/ Hardware/ Software is not likely to be declared as End-of-Service/ Support within next 5 years from the date of bid submission.
- We hereby confirm that we have direct back-to-back service support agreement with the bidder for the project duration of 5 years as per RFP. RSRTC will be able to log a support ticket directly to our helpdesk to get telephonic/ remote support directly from us, as required.

Yours faithfully,

For and on behalf of M/s (Name of the manufacturer)

(Authorized Signatory)

Name, Designation & Contact No.:

Address: \_\_\_\_\_ Seal: -----

**Annexure-11**

**Undertaking of Authenticity of Equipments**

{To be filled by the bidder (On Rs. 100/- Non-judicial stamp paper)}

The Executive Director (Traffic),  
Rajasthan State Road Transport Corporation,  
Head Office, Parivahan Marg, Chomu House,  
Jaipur - 302001, Rajasthan

Reference: NIB/RFP No. : \_\_\_\_\_ Dated: \_\_\_\_\_

This has reference to the items being supplied/ quoted to you vide bid ref. no. \_\_\_\_\_  
dated \_\_\_\_\_.

We hereby undertake that all the components/ parts/ assembly/ software used in the equipment shall be genuine, original and new components /parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our Bid Security/ Security Deposit/ Performance Security Deposit for this bid or debar/ black list us or take suitable action against us.

All the information furnished in this bid is genuine and correct as per our best knowledge. If any information is found incorrect or forge, we will be responsible and liable for rejection of bid.

Authorized Signatory

Name:

Designation:

Annexure-12

**Bank Guarantee Format – Bid Security**

(To be stamped in accordance with Stamp Act and to be issued by a Nationalized/ Scheduled bank  
having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

The Executive Director (Traffic),  
Rajasthan State Road Transport Corporation,  
Head Office, Parivahan Marg, Chomu House,  
Jaipur - 302001, Rajasthan

Sir,

1. In accordance with your Notice Inviting Bid for <please specify the project title> vide NIB reference no. <Please specify> M/s. .... (Name & full address of the firm) (Hereinafter called the “Bidder”) hereby submits the Bank Guarantee to participate in the said procurement/ bidding process as mentioned in the bidding document.

It is a condition in the bidding documents that the Bidder has to deposit Bid Security amounting to <Rs. .... (Rupees <in words>)> in respect to the NIB Ref. No. .... dated .... issued by Rajasthan State Road Transport Corporation, Parivahan Marg, Chomu House, Jaipur - 302001, Rajasthan (hereinafter referred to as “RSRTC”) by a Bank Guarantee from a Nationalized Bank/ Scheduled Commercial Bank having its branch at Jaipur irrevocable and operative till the bid validity date (i.e. <please specify> days from the date of submission of bid). It may be extended if required in concurrence with the bid validity.

and whereas the Bidder desires to furnish a Bank Guarantee for a sum of <Rs. .... (Rupees <in words>)> to the RSRTC as bid security deposit.

2. Now, therefore, we the ..... (Bank), a body corporate constituted under the Banking Companies (Acquisition and Transfer of Undertaking) Act. 1969 (delete, if not applicable) and branch Office at..... (hereinafter referred to as the Guarantor) do hereby undertake and agree to pay forthwith on demand in writing by the RSRTC of the said guaranteed amount without any demur, reservation or recourse.



3. We, the aforesaid bank, further agree that the RSRTC shall be the sole judge of and as to whether the Bidder has committed any breach or breaches of any of the terms costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the RSRTC on account thereof to the extent of the Bid security required to be deposited by the Bidder in respect of the said bidding document and the decision of the RSRTC that the Bidder has committed such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the RSRTC shall be final and binding on us.
4. We, the said Bank further agree that the Guarantee herein contained shall remain in full force and effect until it is released by the RSRTC and it is further declared that it shall not be necessary for the RSRTC to proceed against the Bidder before proceeding against the Bank and the Guarantee herein contained shall be invoked against the Bank, notwithstanding any security which the RSRTC may have obtained or shall be obtained from the Bidder at any time when proceedings are taken against the Bank for whatever amount that may be outstanding or unrealized under the Guarantee.
5. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax, registered post or other electronic media like email to our address, as aforesaid and if sent by post, it shall be deemed to have been given to us after the expiry of 48 hours when the same has been posted.
6. If it is necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this guarantee on the request of our constituent under intimation to you.
7. The right of the RSRTC to recover the said amount of <Rs. \_\_\_\_\_ (Rupees <in words>)> from us in manner aforesaid will not be precluded/ affected, even if, disputes have been raised by the said M/s. ....(Bidder) and/ or dispute or disputes are pending before any court, authority, officer, tribunal, arbitrator(s) etc..
8. Notwithstanding anything stated above, our liability under this guarantee shall be restricted to <Rs. \_\_\_\_\_ (Rupees <in words>)> and our guarantee shall remain in force till bid validity period i.e. <please specify> days from the last date of bid submission and unless a demand or claim under the guarantee is made on us in writing within three months after the Bid validity date, all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liability thereunder.

9. This guarantee shall be governed by and construed in accordance with the Indian Laws and we hereby submit to the exclusive jurisdiction of courts of Justice in India for the purpose of any suit or action or other proceedings arising out of this guarantee or the subject matter hereof brought by you may not be enforced in or by such court.
10. We hereby confirm that we have the power/s to issue this Guarantee in your favour under the Memorandum and Articles of Association/ Constitution of our bank and the undersigned is/are the recipient of authority by express delegation of power/s and has/have full power/s to execute this guarantee under the Power of Attorney issued by the bank in your favour.
11. Bank Guarantee valid from .....to .....date.
12. In case the bank guarantee has been invoked by RSRTC in any condition then the issuer bank has to transfer the forfeited amount to the below account without any conditions:

Account Name: Rajasthan State Road Transport Corporation (RSRTC), Jaipur  
Account Type: Current  
Account No. 677405000011  
Branch Add.: Parivahan Marg, Jaipur  
IFSC Code: ICIC006674

Date ..... (Signature) .....  
Place ..... (Printed Name) .....  
(Designation) .....  
(Bank's common seal) .....

In presence of:

WTTNESS (with full name, designation, address & official seal, if any)

(1) .....

.....

(2) .....

.....

Bank Details

Name & address of Bank:

Name of contact person of Bank:

Contact telephone number:

**Annexure-13**

**Bank Guarantee Format – Performance Security Deposit (PSD)**

(To be stamped in accordance with Stamp Act and on a Stamp Paper purchased from Rajasthan State only  
and to be issued by a Nationalized/ Scheduled bank having its branch at Jaipur and payable at par at  
Jaipur, Rajasthan)

To,  
The Executive Director (Traffic),  
Rajasthan State Road Transport Corporation,  
Head Office, Parivahan Marg, Chomu House,  
Jaipur - 302001, Rajasthan

1. In consideration of the Rajasthan State Road Transport Corporation (hereinafter called "RSRTC") having agreed to exempt M/s .....(hereinafter called "the said Second Part" from the demand, under the terms and conditions of an Work Order / Letter of Intent (LoI) No.....dated .....made between the RSRTC and .....(Second Part) for the work ..... of Performance security deposit for the due fulfillment by the said Second Part (s) of the terms and conditions contained in the said work order, on production of a Bank Guarantee for Rs.....(Rupees .....only), we .....(indicate the name of the Bank), (hereinafter referred to as "Bank") at the request of ..... Second Part (s) do hereby undertake to pay to the RSRTC an amount not exceeding Rs.....(Rupees.....only) on demand.
2. We..... (Indicate the name of Bank), do hereby undertake to pay Rs..... (Rupees.....only), the amounts due and payable under this guarantee without any demur or delay, merely on a demand from the RSRTC. Any such demand made on the bank by the RSRTC shall be conclusive as regards the amount due and payable by the Bank under this guarantee. The Bank Guarantee shall be completely at the disposal of the RSRTC and us..... (Indicate the name of Bank), bound ourselves with all directions given by RSRTC regarding this Bank Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....only).
3. We.....(indicate the name of Bank), undertake to pay to the RSRTC any money so demanded notwithstanding any dispute or disputes raised by the Second Part (s) in any suit or proceeding pending before any Court or Tribunal or Arbitrator

etc. relating thereto, our liability under these presents being absolute, unequivocal and unconditional.

4. We.....(indicate the name of Bank) further agree that the performance guarantee herein contained shall remain in full force and effective up to <DATE> and that it shall continue to be enforceable for above specified period till all the dues of RSRTC under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the RSRTC certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Second Part (s) and accordingly discharges this guarantee.
5. We .....(indicate the name of Bank) further agree with the RSRTC that the RSRTC shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said work order or to extend time of performance by the said Second Part (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the RSRTC against the said Second Part (s) and to forbear or enforce any of the terms and conditions relating to the said work order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Second Part (s) or for any forbearance, act or omission on the part of the RSRTC or any indulgence by the RSRTC to the said Second Part (s) or by any such matter or thing whatsoever which would but for this provision, have effect of so relieving us.
6. The liability of..... (Indicate the name of Bank), under this guarantee will not be discharged due to the change in the constitution of the Bank or the Second Part (s).
7. We..... (Indicate the name of Bank), lastly undertake not to revoke this guarantee except with the previous consent of the RSRTC in writing.
8. This performance Guarantee shall remain valid and in full effect, until it is decided to be discharged by the RSRTC. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees.....only).
9. It shall not be necessary for the RSRTC to proceed against the contractor before proceeding against the Bank and the guarantee herein contained shall be enforceable

against the Bank notwithstanding any security which the RSRTC may have obtained or obtain from the contractor.

10. We..... (Indicate the name of Bank) verify that we have a branch at Jaipur, Rajasthan. We undertake that this Bank Guarantee shall be payable at any of its branch at Jaipur, Rajasthan. If the last day of expiry of Bank Guarantee happens to be a holiday of the Bank, the Bank Guarantee shall expire on the close of the next working day.
11. We hereby confirm that we have the power(s) to issue this guarantee in your favour under the memorandum and articles of Association/ constitution of our bank and the undersigned is/ are the recipient of authority by express delegation of power(s) and has/have full power(s) to execute this guarantee for the power of attorney issued by the bank.
13. Bank Guarantee valid from .....to .....date.
14. In case the bank guarantee has been invoked by RSRTC in any condition then the issuer bank has to transfer the forfeited amount to the below account without any conditions:

Account Name: Rajasthan State Road Transport Corporation (RSRTC), Jaipur  
Account Type: Current  
Account No. 677405000011  
Branch Add.: Parivahan Marg, Jaipur  
IFSC Code: ICIC006674

Dated.....day of.....For and on behalf of the <Bank> (indicate the Bank)

Signature

(Name & Designation)

Bank's Seal

The above performance Guarantee is accepted by the RSRTC

For and on behalf of the RSRTC

Signature

(Name & Designation)

Annexure-14

**Format for Consortium Agreement**

(On non-judicial stamp paper of appropriate value to be purchased in the name of executants companies or as required by the jurisdiction in which executed)

This Consortium Agreement executed on this ..... day of..... 20..... By:  
M/s. .... a Company incorporated under the laws  
of..... and having its registered office at.....  
(Hereinafter called the “PrimeBidder/First Member” which expression shall include its  
successors); and

M/s. .... a Company incorporated under the laws of  
..... and having its registered office at.....  
(Hereinafter called the “Second Member” which expression shall include its successors)

The Prime Bidder/First Member and the Second Member shall collectively hereinafter be called  
as the “Consortium Members” for the purpose of submitting a proposal (hereinafter called as  
“Bid”) for the work of .....(Name of work).....for ..... (Name of project)  
of M/s..... to Rajasthan State Road Transport Corporation, Parivahan Marg,  
Chomu House, Jaipur - 302001, Rajasthan (herein after called the ‘Owner’ or ‘RSRTC’), RSRTC  
being a Company incorporated under the Companies Act, 1956 having its registered office at  
Parivahan Marg, Chomu House, Jaipur - 302001, Rajasthan, India (hereinafter called the  
“RSRTC”) in response to RSRTC Request for Proposal Document (hereinafter called as “RFP”  
Document) Dated..... for the purposes of submitting the RFP/Bid no. ....  
..... and entering into a contract in case of award for the work of .....  
(Name of work).....For ..... (Name of project) of RSRTC.

WHEREAS, the RSRTC invited bids vide its RFP document no. .... for the work of  
..... AND WHEREAS as per document, Consortium bids will also  
be considered by the RSRTC provided they meet the specific requirements in that regard.

AND WHEREAS the PQ bid is being submitted to the RSRTC vide proposal dated ..... based  
on the Consortium Agreement being these presents and the PQ bid with its PQ bid forms and  
submission documents, in accordance with the requirement of PQ document conditions and  
requirements have been signed by all the partners and submitted to the RSRTC.

AND WHEREAS Clause \_\_\_\_\_ of RFP document stipulates that a Consortium of maximum two companies, meeting the requirements stipulated in the RFP document may submit a Proposal signed by Prime Bidder of the Consortium Members so as to legally bind all the Members of the Consortium who will be jointly and severally liable for the performance and all obligations thereunder to RSRTC and duly signed Consortium Agreement shall be attached to the Proposal.

NOW THEREFORE, in consideration of the mutual covenants of the members of the Consortium, the sufficiency whereof is hereby acknowledged and other good valuable consideration, we agree as follows:

1. We the members in the Consortium hereby confirm that the name and style of the Consortium shall be..... Consortium.
2. M/s. .... shall act as Prime Bidder for self, and for and on behalf of M/s ..... (Second Member) and further declare and confirm that we shall jointly and severally be bound unto the Owner for the successful performance of the obligations under the Request for Proposal (RFP) and resulting Contact Agreement(s) submitted / executed by the Lead Member in the event of the selection of Consortium. Further, the Lead Partner is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the CONSORTIUM.
3. That M/s \_\_\_\_\_ which is the Prime Bidder of the Consortium shall invest and continue to invest .... % (at least 51% to be invested by Prime Bidder) interest in the Consortium for the Lock in Period as specified in the RFP document.
4. That M/s \_\_\_\_\_, (Second Member) shall invest and continue to invest .... % interest of the Consortium for the Lock in Period as specified in the RFP document.
5. The composition or the constitution of the consortium shall not be altered without the prior consent of RSRTC.
6. The roles and responsibilities of the lead bidder and the second member of the consortium for execution of various components/activities as defined in the RFP document shall be as under :

S.No.	Project Component/Activity	Roles & Responsibility of Prime Bidder	Roles & Responsibility of Second Member of Consortium
1			
2			
3			

7. It is expressly agreed by the members that all members of the consortium shall be held equally responsible for the obligations under the RFP Document, Contract and this Agreement, irrespective of the specific roles/responsibilities undertaken by them. In case of any issue, the lead member would be responsible for all the roles and responsible and for all the damages and penalties.
8. For the purpose of this Agreement, the RFP Document and the Contract, the Prime Bidder shall be the single point of contact for the RSRTC, shall have the overall responsibility of the management of the Project and shall have single point responsibility for ensuring that all members of the consortium are complying with the terms and conditions set out in the Contract and the RFP Document.
9. All instructions/communications from RSRTC to the Prime Bidder shall be deemed to have been duly provided to all the members of the consortium.
10. If RSRTC suffers any loss or damage on account of any breach in the stipulation of the Agreements to be entered into by the Consortium Members, upon its selection pursuant to RFP (the "Agreements") or any shortfall in the performance of the Transaction or in meeting the performances guaranteed as per the RFP and the Agreements, the Consortium Members hereby jointly and severally undertake to promptly make good such loss or damages caused to RSRTC on its demand without any demur or contest. The RSRTC shall have the right to proceed against anyone of the partners and it shall neither be necessary nor obligatory on the part of the RSRTC to proceed against the Prime Bidder before proceeding against or dealing with the other Member.
11. The financial liability of the Consortium Members to the RSRTC, with respect to any of the claims arising out of the performance or non-performance of obligations under the RFP and the resulting Agreement(s) shall not be limited so as to restrict or limit the liabilities of any of the Members and the Members shall be jointly and severally liable to RSRTC.
12. It is expressly agreed by the Members that all the due payments shall be made by the RSRTC to Prime Bidder only.
13. This Consortium agreement shall be construed and interpreted in accordance with the laws of India and the Courts of Jaipur (Rajasthan) shall have the exclusive jurisdiction in all matters arising there under.



14. It is also hereby agreed that Prime Bidder shall, on behalf of the Consortium shall submit the Bid and performance Security as specified by owner in the RFP document.
15. It is further agreed that this Consortium Agreement shall be irrevocable and shall continue to be enforceable till the same is discharged by RSRTC.
16. This Agreement shall come into force as of the date of signing and shall continue in full force and effect until the complete discharge of all obligations, concerning the carrying out of the Project, which have been taken on by the Parties under the Contract, RFP Document and under this Agreement.
17. Any other terms and conditions not in contradiction to the RFP and above mentioned terms and conditions.

IN WITNESS WHEREOF, the Members to the Consortium agreement have through their authorised representatives executed these presents and affixed common seal of their companies, on the day, month and year first mentioned above.

<p>Common Seal of ..... has been affixed in my/our Prime Bidder presence pursuant to Board of Director's resolution dated .....</p> <p>1) Witness</p> <p>2) Witness</p>	<p>For and on behalf of M/s..... (Lead Bidder)</p> <p>(Signature of authorized representative) Name : Designation:</p>
<p>Common Seal of ..... has been affixed in my/our Second Member presence pursuant to Board of Director's resolution dated .....</p> <p>1) Witness</p> <p>2) Witness</p>	<p>For and on behalf of M/s..... (Second member)</p> <p>(Signature of authorized representative) Name : Designation:</p>

**Annexure-15**

**Indicative Bill of Material**

(Indicative List of the minimum infrastructure Items to be installed under VT & PIS in Buses, Depots/Major Bus Stands/Workshop)

S. No.	Item's Description	Quantity
1	VLT/GPS device as per the specifications of AIS-140	4000
2	Panic Buttons as per the guidelines of AIS-140	48000
3	3x3 video wall with all accessories at Control& Command Center, HO Jaipur	As required bidder has to be established complete CCC with requisite H/w & S/w
4	Desktop System with Windows 10 or higher	66
5	Laser Printer with Duplex Printing	66
6	600 VA UPS with 30 minutes backup	56
7	Cloud DC setup at BSDC Jaipur	01
8	Manpower for Operation & Management	10
9	eSIM for VTS devices	4000
10	Internet Connectivity at depots (upto 4 Mbps)	56
11	Internet Connectivity at Control and Command Center (10 mbps ILL)	01
12	Centralized VTS/PIS Admin portal and Mobile Application	as actual
13	Any other equipments as per the requirement & successful implementation of the project	as actual

**Note:**

1. The successful bidder should maintain appropriate stock of spares and sufficient manpower to be deployed at field level to meet SLA criteria.
2. The maximum number of VTS and panic buttons has been mentioned in the bill of material, but as buses become available with the corporation, the VTS/Panic buttons will also be installed and payment will be made according to the actual installed equipment.

Annexure-15

**Technical Specifications of BoM**

**Note:**All the specifications below are minimum specifications and higher specifications shall be used wherever necessary/ required. Also, the bidder is required to submit the technical compliance statement for all items and required to submit the same on respective OEM's letter-head with specified Make & Model of the devices where MAF is required.

**ITEM -1 (VEHICLE LOCATION TRACKING)**

SNo	Specification as per AIS-140 Specifications		Compliance (Yes/No)	Pg No. where the functionality / specification mentioned
1	<b>Physical Parameters</b>			
2	<b>Name of the VLTD Manufacture</b>			
3	<b>Make and Model of the VLTD</b>			
4	Protection Class	IP 65 Device shall be dust, temperature, vibration, water splash resistant, IP 65rated or better, tamper proof		
5	Operating Temperature	-10 to +55°C		
6	<b>GPS Parameters</b>			
7	GPS Receiver	In-built, (optional -2 LED indicators for GSM & GPS connectivity)		
8	Hot Start	<5s		
9	Cold Start	<40s		
10	Warm Start	<30s		
11	Navigation accuracy	minimum 2.5 meter CEP or 6 m 2DRMS		
22	<b>Battery</b>			
23	Battery type	Li-Ion Internal		
24	Digital Outputs	4 or more		
25	Analog Inputs	2 or more		
26	Serial Communication	1 or more		
27	<b>Certification</b>			
	ARAI Certification	ARAI or equivalent certification from government recognized/notified/approved certification agencies like		
		1. International Centre for Automotive Technology (iCAT)		
28		2. Central Institute of Road Transport (CIRT)		

SNo	Specification as per AIS-140 Specifications		Compliance (Yes/No)	Pg No. where the functionality / specification mentioned
29		3. Vehicle Research & Development Establishment (VRDE)		
30	<b>Weight and Dimensions</b>			
31	Device Weight	Less than 500 grams		

**Note: If any parameter mismatched, the AIS-140 specifications shall be final.**

**ITEM - 2 (DESKTOP)**

SNo.	Specification		Compliance (Yes/No)	Pg No. where the functionality / specification mentioned
1	Make & Model			
2	Processor	i7 or higher with 11 <sup>th</sup> Gen.		
3	Chipset	Compatible to supplied CPU		
4	Memory	Min. 4 GB DDR4 RAM - Upgradable up to 8 GB DDR4		
5	HDD	Min. 500 GB SATA 7200 RPM HDD		
6	Monitor	Minimum 18.5" Color TFT / WTFT / LCD / LED Monitor		
7	Keyboard	Min. 104 Keys OEM Mechanical Key Board or TVSE Gold or Equivalent		
8	Mouse	Two Button Optical Scroll Mouse		
9	Optical Drive	Internal DVD-RW Drive		
10	Cabinet	Micro-ATX/ Desktop		
11	Ports	Min. 6 USB (2 In front) with 2 number of USB 3.0, 1 Serial, 1 Parallel		
12	Slots	2 PCI Slots, 1 x PCI Exp 16x Slot, 1 x PCI Exp 1x Slot, HDMI		
13	Network Features	Integrated 10/100/1000 LAN Card		
14	Recommended Operating System	Microsoft windows 10 or above with MS office		

**ITEM - 3 (600 VA UPS)**

Sr.	Specification		Compliance (Yes/No)	Pg No. where the functionality / specification mentioned
1	STANDARDS	CE Rated		
2	Type of UPS	Line interactive with AVR		
3	Back Up For 1 Desktop & 1 Thermal Printer	30 Minutes		
4	OUTPUT PARAMETERS			
5	Capacity	600 VA / 600 W		
6	Nominal Voltage	220/230/240 Vac		
7	Voltage Regulation	+/- 5% (line mode);		
8		+/- 10% (battery mode);		
9	Frequency	50 / 60 HZ		
10	Frequency Regulation - Free Run (Unsynchronized with bypass)	+/- 1.0Hz		
11	Frequency Regulation (synchronized with bypass)	50/60Hz±1.0		
12	Over load capacity	110% - 5min to fault		
13		120% - to fault immediately		
14	AC-AC Efficiency	>95% line mode;		
15		>88% battery mode;		
16	Transfer time - Mains to battery	4-6ms typical, 10 ms max		
17	INPUT PARAMETERS			
18	Nominal Voltage	220/230/240 Vac		
19	Voltage range	160-300VAC		
20	Frequency	50 / 60 HZ		
21	Frequency range- Hz	46~54Hz or 56~64Hz		
22	ONSITE WARRANTY	5 Years		

**ITEM - 4 (LASER PRINTER)**

Sr.	Specification	Compliance (Yes/No)	Pg No. where the functionality / specification mentioned
1	Up to 30 PPM 600 x 600 dpi		
2	A4, Letter, Legal, Duplex		
3	8 MB		
4	A4, A5, Letter, Legal, Executive		
5	Windows 7/8/8.1/10 & Linux - Open Source Compatible		
6	Inter face : IEEE 1284, Complete Parallel Port, 1 high speed USB Port 2.0 Port		

**ITEM - 5 (INTERNET CONNECTIVITY)**

Sr.	Location Name	No. of Location	Required Connectivity Details	Compliance (Yes/No)
1	At Data Center (DC) Site	1	Minimum 10 Mbps Internet Lease Line (ILL) through Primary ISP	
2			Minimum 10 Mbps Internet Lease Line (ILL) through Secondary ISP	
3	At Disaster Recovery (DR) Site	1	Minimum 10 Mbps Internet Lease Line (ILL) through Primary ISP	
4			Minimum 10 Mbps Internet Lease Line (ILL) through Secondary ISP	
5	Connectivity Between DC to DR Site	1	Minimum 10 Mbps MPLS - VPN through Primary / Secondary ISP	
6	At Command Control Center (CCC) Site	1	Minimum 10 Mbps Internet Lease Line (ILL) through ISP	
7	At Depot Site	56	Minimum 4 Mbps Internet Connectivity from Lease Line / Broadband with Unlimited Data	
8	e-SIM for VLT Devices	4000	3G / 4G /LTE Connectivity from ISP	

**ITEM -6 (3x3 VIDEO WALL)**

S.No	Parameter	Specifications	Compliance (Yes/No)	Pg No.
1.00	<b>Specifications of LED display Panel:</b>			
1.01	Product details-			
1.02	Please mention Make Model No. or Part Code			
1.03	Size	55" (55 Inches diagonally) with complete configuration of (3x3) with covered base. All cubes have to be of the exactly same size, configuration		
1.04	Resolution	Full high definition (1920x1080); aspect ratio of 16:9 Widescreen with LED/laser light source in redundancy		
1.05	Contrast Ratio	Dynamic contrast should be min 1,00,000:1 or better		
1.06	Colour & Brightness	Minimum 250 units and should be adjustable for lower or even higher brightness requirements Uniformity: >=95% or better Uniform brightness and colour. The colour calibration should be automatic and continuous operations for 24x7 operation or minimum brightness 500nits		
1.07	LED Life	The light source lifetime of the LED in eco mode shall be 80,000 hours. This should be certified by the OEM.		
1.08	Placement	The inter screen gap (bezel gap) should be <4 mm to not <0.4 mm or better and viewing angle Should be 178° /178° (H/V)		
1.09	Dust Prevention	Should be designed to avoid dust / Dust tight and resistant / Follow standards as prescribed by Government		
1.10	Input & Control	Analog D-sub/Ethernet/Digital DVI/Digital HDMI with On Screen Display (OSD) and control by IP.		

1.11	Display	shall provide image uniformity across the whole display area, real-time clear luminous view to share information between operators and decision makers, flicker free image on the Large Screen for seamless display. Remote viewing, the video wall content will be able to show live on any remote display. Mobile with IE or apps.		
1.12	Capability	Ability to displaying high definition (HD) and standard definition (SD) content., Low maintenance		
2.00	<b>Specifications of Display Wall Controllers</b>			
2.01	Product details-			
2.02	Please mention Make Model No. or Part Code			
2.03	Display controller	Controller to be able to control min 20 and Controller to control Video wall in a matrix arrangement as per design and redundant for high availability and support Minimum 1920 x 1080 or higher		
2.04	Platform	Pre-loaded 64-bit Operating System Windows / Linux / Equivalent, with recovery		
2.05	CPU	Min 16 GB RAM with Quad/Octa Core processor (3.4 GHz) or higher and Redundant Hot Swappable HDD in RAID 1 Configuration		
2.06	Chassis Type	19" Rack mount industrial chassis with adequate cooling fans and power supply on higher availability in hot swappable		
2.07	Network	Min 2 Network Ports and more		
2.08	Scalability	The system should be able to add additional inputs as required in the future		
2.09	Keyboard & Mouse Extension	Keyboard and Mouse along with extend- able mechanism up to display.		
2.10	24 x 7 operation	The controller shall be designed for 24 x 7 operation and high availability		
2.11	Others	The Video Wall and the Controller should be of the same make to ensure better performance and compatibility		
3.00	<b>Specifications of Video Wall Management Software</b>			
3.01	Product details-			



3.02	Please mention Make Model No. or Part Code			
3.03	Display & Scaling	Display multiple sources anywhere on display up to any size		
3.04	Input Management	All input sources can be displayed on the video wall in freely resizable and movable windows Ability to input, manage, and distribute visual content, including digital CCTV video, web pages, CATV, workstation applications, and active screens from any networked/remote workstation.		
3.05	Multi View Option	Multiple view of portions or regions of Desktop, Multiple Application Can view from single desktop.		
		Ability to display multiple sources anywhere on video wall in any size.		
		Ability to stretch, re-position, and resize any video source on any display device.		
		Ability to treat the VDW as a single display. It shall act as a single canvas with no pixel separation.		
3.06	Other features	<ul style="list-style-type: none"> <li>SMTP support, Remote Control over LAN or VPN</li> </ul>		

S.No	Parameter	Specifications	Compliance (Yes/No)	PgNo.
		<ul style="list-style-type: none"> <li>Ability include an administrator role that shall be able to manage system configuration, sources, user groups, and user authentication.</li> </ul>		
		<ul style="list-style-type: none"> <li>Alarm, Remote and Multiple concurrent client</li> </ul>		
		<ul style="list-style-type: none"> <li>Ability to commands on wall level or cube level or a selection of cubes:</li> </ul>		
		<ul style="list-style-type: none"> <li>Switching the entire display wall on or off.</li> </ul>		
		<ul style="list-style-type: none"> <li>Setting all projection modules to a common brightness target, which can be either static (fixed) or dynamic to always achieve maximum (or minimum) common brightness between projection modules.</li> </ul>		
		<ul style="list-style-type: none"> <li>Fine-tune colour of each cube</li> </ul>		
		<ul style="list-style-type: none"> <li>KVM Support and GUI</li> </ul>		

**ITEM -7 (PANIC BUTTON)**

S.No	Parameter	Description	Compliance (Yes/No)	Pg No.
1.	Product details-			
2.	Please mention Make Model No. or Part Code			
3.	<b>Push Button</b>			
3.01	The panic buttons will be 'Normally Closed' (NC) type. The form factor of emergency buttons will be such that the button is easy to press in the case of an emergency, and simultaneously also minimizes the possibility of accidental or unintended press thereby causing a false alert.			
3.02	Emergency button shall be one-time press type. Separate release action from authorized server/Person shall be required to bring back the emergency button to normal mode or clear emergency flag.			
3.03	Standard conformity	IS 13947 (Part 5/ SEC-1) 1993& IEC 947-5-(1)1990		
3.04	Rated Thermal Circuit:	10 A		
3.05	Rated Insulation voltage for all Push Buttons and Selector Switches excluding Luminous Switches & Lamp Holders.	AC 500V, 50HZ. DC 250V.		
3.06	Rated operational voltage for contact blocks	AC 500V, 50HZ. DC 220V.		
3.07	Electrical Ratings IEC: 947-5-(1)-1990	AC 15=4A, 415VAC DC 13=0.5A, 110V DC With a time constant of 300 millisecond		
3.08	IS: 13947 (Part 5 Sec-1) 1993	AC 15-4A, e, 110V DC With a time constant of 300 milli-second		
3.09	Mechanical life	Over 1million operations.		
3.10	Electrical life	Depends on load current.		
3.11	Switching frequency Minimum	1200 cycles per hour.		
3.12	Degree of Protection according to IS: 2147 (1962) & IEC: 529	All Operating heads IP-65 2.5KV for 1Min.		
3.13	Dielectric test voltage	2.5KV for 1Min.		

3.14	Operating temperature Limit (except shrouds)	-25° C to 70° C.		
3.15	Operating Position	All positions.		
3.16	Backup fuse rating HRC type	10A Cartridge fuse		
3.17	Terminal capacities	maximum 2 x 1.5 sq.mm or 1 x 2.5sq.mm minimum 1 x 0.5sq.mm.		
3.18	Altitude	<3000 M.		

**Note: if any parameter mismatched, then the AIS-140 specification shall be final.**

#### ITEM - 8 (MAN POWER)

**Indicative Manpower for maintain & operation of the project for five years:**

S.No.	Type	Qty.	Qualification	Experience
1.	NoC Team for operation of CCC	10	PGDCA/BCA or Any Computer Proficiency Degree/Diploma	1 year or more in relevant projects.
	<b>Total</b>	<b>10</b>		

#### ITEM - 9 (CONTROL & COMMAND CENTER)

S.No	Work Description
1	Complete Civil & Interior Work of IT Cell (45x27) sq.ft.
2	Complete Furniture work of Control Room, Conference Room, officers Cabin (upto 30 seating capacity with furniture & chair)
3	5 Wall Mount 2Ton Air Conditioner with 5 Star Energy Rating
4	Complete Electrical Work includes Electric Points, FAN, LED Lights, Fall Ceiling, provision of DG Set Connectivity, provision of UPS connectivity, Earthing
5	IT Scope : Supply and Installation of Work Stations along with Monitor, LAN Cabling for Data and Voice, Wall Mount rack with 32 Port Managed Switch etc.
6	Fire & Security: Industry standard Fire Alarm System, 4 number Class C clean agent Fire Extinguishers
7	8 Channel NVR along with 8Dome Camera, 30 days cyclic recording
8	10 mbps Internet Leased Line Setup
9	Any passive material need to be established a Control and Command Center as actual