



**Rate Contract of 2 years for Supply, Installation and commissioning of Equipments under ITMS
Project in the State of Rajasthan (Before Pre-Bid)**

Reference No.:

dated ____/03/2024

Unique Bid No.:

Mode of Bid Submission	Online through eProcurement/ eTendering system at http://eproc.rajasthan.gov.in
Procuring Authority	Managing Director, RISL, First Floor, C-Block, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005 (Rajasthan)
Date & Time of Pre-bid meeting	__/03/2024 at XX:XX PM
Last Date & Time of Submission of Bid	__/03/2024 up to XX:XX PM
Date & Time of Opening of Technical Bid	__/03/2024 at XX:XX PM

Bidding Document Fee: Rs. 1000/- (Rupees One Thousand only)

Name of the Bidding Company/ Firm:			
Contact Person(Authorised Bid Signatory):			
Correspondence Address:			
Mobile No.		Telephone & Fax Nos.:	
Website & E-Mail:			

RajCOMP Info Services Limited (RISL)

First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj.)

Phone: 0141-5103902 Fax: 0141-2228701

Web: <http://risl.rajasthan.gov.in>, Email: amit.risl@rajasthan.gov.in

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ABBREVIATIONS & DEFINITIONS

Act	The Rajasthan Transparency in Public Procurement Act, 2012 (Act No. 21 of 2012) and Rules thereto
Authorised Signatory	The bidder's representative/ officer vested (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/ authority having the Power of Attorney (PoA) from the competent authority of the respective Bidding firm.
BG	Bank Guarantee
Bid/ eBid	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation in electronic format
Bid Security	A security provided to the procuring entity by a bidder for securing the fulfilment of any obligation in terms of the provisions of the bidding documents. Also called as EMD.
Bidder	Any person/ firm/ agency/ company/ contractor/ supplier/ vendor participating in the procurement/ bidding process with the procurement entity
Bidding Document	Documents issued by the procuring entity, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the invitation to bid
BoM	Bill of Material
CMC	Contract Monitoring Committee
Competent Authority	An authority or officer to whom the relevant administrative or financial powers have been delegated for taking decision in a matter relating to procurement. MD, RISL in this bidding document.
Contract/ Procurement Contract	A contract entered into between the procuring entity and a successful bidder concerning the subject matter of procurement
Contract/ Project Period	Rate Contract period will 2 years commence from the date of signing of Agreement. Warrenty & Maintnace support services period will 5 years from successful installation of Item(s).
COTS	Commercial Off The Shelf Software
Day	A calendar day as per GoR/ Gol.
DeitY, Gol	Department of Electronics and Information Technology, Government of India
DoIT&C	Department of Information Technology and Communications, Government of Rajasthan.
ETDC	Electronic Testing & Development Center
FOR/ FOB	Free on Board or Freight on Board
Gol/ GoR	Govt. of India/ Govt. of Rajasthan
Goods	All articles, material, commodities, electricity, livestock, furniture, fixtures, raw material, spares, instruments, software, machinery, equipment, industrial plant, vehicles, aircraft, ships, railway rolling stock and any other

	category of goods, whether in solid, liquid or gaseous form, purchased or otherwise acquired for the use of a procuring entity as well as services or works incidental to the supply of the goods if the value of services or works or both does not exceed that of the goods themselves
GST	Goods and Services Tax
ICT	Information and Communication Technology.
IFB	Invitation for Bids (A document published by the procuring entity inviting Bids relating to the subject matter of procurement and any amendment thereto and includes notice inviting Bid and request for proposal)
INR	Indian Rupee
ISI	Indian Standards Institution
ISO	International Organisation for Standardisation
IT	Information Technology
ITB	Instruction to Bidders
LD	Liquidated Damages
LoI	Letter of Intent
NCB	A bidding process in which qualified bidders only from within India are allowed to participate
NeGP	National e-Governance Plan of Government of India, Department of Information Technology (DIT), Ministry of Communications and Information Technology (MCIT), New Delhi.
NIB	Notice Inviting Bid
Notification	A notification published in the Official Gazette
OEM	Original Equipment Manufacturer
PAN	Permanent Account Number
PBG	Performance Bank Guarantee
PC	Procurement/ Purchase Committee
PQ	Pre-Qualification
Procurement Process	The process of procurement extending from the issue of invitation to Bid till the award of the procurement contract or cancellation of the procurement process, as the case may be
Procurement/ Public Procurement	The acquisition by purchase, lease, license or otherwise of works, goods or services, including award of Public Private Partnership projects, by a procuring entity whether directly or through an agency with which a contract for procurement services is entered into, but does not include any acquisition without consideration, and "procure" or "procured" shall be construed accordingly
Project Site	Wherever applicable, means the designated place or places.
PSD	Performance Security Deposit shall be deposited by the successful bidder

	after receiving the work order
Purchaser/ Tendering Authority/ Procuring Entity	Person or entity that is a recipient of a good or service provided by a seller (bidder) under a purchase order or contract of sale. Also called buyer. RISL in this RFP document.
RajSWAN/ RSWAN	Rajasthan State Wide Area Network
RISL	RajCOMP Info Services Limited
RSDC	Rajasthan State Data Centre, New IT Building, Jaipur
RVAT	Rajasthan Value Added Tax
Security Deposit	Amount deposited by the successful bidder prior to execution of agreement for rate contract
Services	Any subject matter of procurement other than goods or works and includes physical, maintenance, professional, intellectual, consultancy and advisory services or any service classified or declared as such by a procuring entity and does not include appointment of any person made by any procuring entity
SLA	Service Level Agreement is a negotiated agreement between two parties wherein one is the customer and the other is the service provider. It is a service contract where the level of service is formally defined. In practice, the term SLA is sometimes used to refer to the contracted delivery time (of the service) or performance.
SSDG	State Services Delivery Gateway
State Government	Government of Rajasthan (GoR)
State Public Procurement Portal	http://sppp.raj.nic.in
STQC	Standardisation Testing and Quality Certification, Govt. of India
Subject Matter of Procurement	Any item of procurement whether in the form of goods, services or works
TIN	Tax Identification Number
TPA	Third Party Auditors
Unbalanced Bid	Any bid below more than fifteen percent of Estimated Bid Value
Unbalanced Bid Amount	Positive difference of eighty five percent of Estimated Bid Value minus Bid amount Quoted by the bidder
VAT/ CenVAT	Value Added Tax/ Central VAT
WO/ PO	Work Order/ Purchase Order



RajCOMP Info Services Ltd.
(A Government of Rajasthan undertaking)

email: info.risl@rajasthan.gov.in
website: www.risl.rajasthan.gov.in
CIN : U72200RJ20105GC033185

INVITATION FOR BID (IFB) & NOTICE INVITING BID (NIB)

Ref. No.: F 3.3 (461)/RISL/PUR/23/8824

Date: 12/3/2024

Unique Bid No.: RIS2324SL0B00110

Name & Address of the Procuring Entity	<ul style="list-style-type: none"> • Name: RajCOMP Info Services Limited (RISL) • Address: First Floor, Yojana Bhawan, C-Block, C-Scheme, Jaipur-302005 (Rajasthan)
Name & Address of the Project Officer In-charge (POIC)	<ul style="list-style-type: none"> • Name: Sh. Amit Sharma • Designation: General Manager (Technical) • Address: First Floor, Yojana Bhawan, C-Block, C-Scheme, Jaipur-302005 (Rajasthan) • Email: amit.risl@rajasthan.gov.in
Subject Matter of Procurement	Request for Proposal (RFP) for Rate Contract of 2 years for Supply, Installation & Commissioning of Equipments under ITMS Project in the State of Rajasthan
Bid Procedure	Single-stage: two part (envelop) open competitive e-Bid procedure at http://eproc.rajasthan.gov.in
Bid Evaluation Criteria (Selection Method)	Least Cost Based Selection (LCBS)-L1
Websites for downloading Bidding Document, Corrigendum's, Addendums etc.	<ul style="list-style-type: none"> • Websites: http://sppp.rajasthan.gov.in, http://eproc.rajasthan.gov.in, http://www.doitc.rajasthan.gov.in, http://risl.rajasthan.gov.in • Bidding document fee: Rs. 1000/- (Rupees one Thousand Only) in Cash/ Demand Draft in favor of "Managing Director, RISL" payable at "Jaipur". • RISL Processing Fee: Rs. 2500 (Rupees Two Thousand Five Only) in Demand Draft in favor of "Managing Director, RISL" payable at "Jaipur".
Estimated Procurement Cost	Rs. 100,00,00,000/- (Rupees One Hundred Crore Only)
Bid Security and Mode of Payment	<ul style="list-style-type: none"> • Amount (INR): 2,00,00,000/- (Rupees Two Crore Only). (2% of the estimated procurement cost) • Mode of Payment: Banker's Cheque or Demand Draft or Bank Guarantee of a Scheduled Bank in favor of "Managing Director, RISL" payable at "Jaipur" as per RFP
Period of Sale/Download of Bidding Document (Start/ End Date)	<ul style="list-style-type: none"> • Start Date: 12-03-2024 from 06:00 PM • End Date: 25-04-2024 till 3:00 PM
Date/Time for Pre-bid Queries	<ul style="list-style-type: none"> • Pre-bid Meeting at 12:30 PM on 20.03.2024 in RISL Board Room • Last Date of submitting pre bid queries (through email only) by the bidder 20.03.2024 on amit.risl@rajasthan.gov.in
Manner, Start/ End Date for the submission of Bids	<ul style="list-style-type: none"> • Manner: Online at eProc website (http://eproc.rajasthan.gov.in) • Start Date: 22-04-2024 from 11:00 AM onwards • End Date: 25-04-2024 till 3:00 PM

1.



RajCOMP Info Services Ltd.

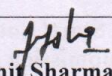
(A Government of Rajasthan undertaking)

email: info.risl@rajasthan.gov.in
website: www.risl.rajasthan.gov.in
CIN :U72200RJ20105GC033185

Submission of Banker's Cheque / Demand Draft for Tender Fee, Bid Security, and Processing Fee*	<ul style="list-style-type: none"> Till 25-04-2024 up to 3:00 PM
Date/ Time/ Place of Technical Bid Opening	<ul style="list-style-type: none"> Date: 25-04-2024 at Time 04:00 PM Place: Board Room, 1st Floor, RISL, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur 302005 (Rajasthan)
Date/ Time/ Place of Financial Bid Opening	Will be intimated later to the Technically qualified bidders
Bid Validity	120 days from the last date of bid submission

Note:

- Bidder (authorized signatory) shall submit their offer on-line in Electronic formats both for technical and financial proposal. However, DD for Tender Fees, RISL Processing Fees and Bid Security should be submitted physically at the office of Tendering Authority as prescribed in NIB and scanned copy of same should also be uploaded along with the technical Bid/ cover.
- * In case, any of the bidders fails to physically submit the Banker's Cheque/ Demand Draft/ Bank Guarantee for Tender Fee, Bid Security, and RISL Processing Fee up to prescribed time period, its Bid shall not be accepted. The Banker's Cheque/ Demand Draft/ Bank Guarantee for Bidding document fee, RISL Processing Fee and Bid Security should be drawn in favour of "Managing Director, RajCOMP Info Services Ltd." payable at "Jaipur" from any Scheduled Commercial Bank.
- To participate in online bidding process, Bidders must procure a Digital Signature Certificate (Type III) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e. TCS, Safecrypt, Ncode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidders must register on <http://eproc.rajasthan.gov.in> (bidders already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).
- RISL will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
- Bidders are also advised to refer "Bidders Manual Kit" available at e-Procurement website for further details about the e-Tendering process.
- Training for the bidders on the usage of e-Tendering System (e-Procurement) is also being arranged by DoIT&C, GoR on a regular basis. Bidders interested for training may contact e-Procurement Cell, DoIT&C for booking the training slot.
Contact No: 0141-4022688 (Help desk 10 am to 6 pm on all working days)
e-mail: eproc@rajasthan.gov.in
Address : e-Procurement Cell, RISL, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur
- Pre-bid Queries can be submitted through email only on email ids amit.risl@rajasthan.gov.in and last Date of submitting clarification request (through email only) by the bidder will be 04.11.2022.
- The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
- No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
- Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
- The provisions of RTPPA Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPPA Act 2012 and Rules thereto, the later shall prevail.


Amit Sharma
General Manager (Technical)

C-Block, 1st Floor, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005 ■ Tel.: 141-5103902, 2229394, 2220097 Fax: 141-2228701

1. PROJECT PROFILE & BACKGROUND INFORMATION

1) Project Overview

Due to rapid urbanization and increase in vehicles volume, RajComp Info Services Ltd., on behalf of Transport Department of Government of Rajasthan envisaged to implement Intelligent Traffic Management System (ITMS), which provide greater information to the authorities to proactively manage the ongoing traffic situation and allow citizens to make informed travel choices. With ITMS, the overall burden of traffic on the roads will reduce and it will result in greater journey time reliability for the citizens and local businesses improving overall productivity levels. RISL invites proposal for selection of implementing agency i.e. System Integration (SI) for implementation of Intelligent Traffic Management System (ITMS) solutions. The ITMS Project coverage will include supply of Traffic Signal equipment, IT and non - IT infrastructure, Traffic Junction improvement, Traffic Command and Control System, Installation, integration, training and Operations & Maintenance of the solutions during contract period i.e. up to 5 years to support maintain traffic infrastructure.

The objective of Integrated Traffic Management System (ITMS) is to adopt an approach that includes technology based rash driving prevention, regulation, intervention, information and enforcement system to improve the mobility, discipline and safety on national highways. The Integrated Traffic Management System (ITMS) comprises of the continuous process of monitoring and analyzing the road network leveraging latest technology to improve Traffic Quality. Implementation Agency i.e. System Integrator (SI) shall be responsible for Design, Supply, Installation, Commissioning and Testing of the following ITMS components to meet the requirements focusing on the outcome, future scalability, security, reliability and adherence to specified SLA under this RFP, in line with applicable standards & best practices adopted in the industry considering better in terms of functionality and is cost effective.

The main outcomes objectives of ITMS would be:

- a) Developing Accident Free Road as a Pilot Project.
- b) Enhance Road Safety
- c) Increase in transportation system efficiency
- d) Developing Accident Free Roads
- e) Smooth and Uninterrupted Traffic flow
- f) Alerts/Analytics for abnormal driving behaviors, road conditions
- g) Promoting Electronic Enforcement
- h) Generate Challans Automatically

2) Main Components proposed for ITMS

S. No.	Component	Category	Main Function	Traffic Management Centre
1	Speed Violation Detection System (SVDS)	Traffic management	Detection of over speeding vehicles, automatic reading of number plates of the vehicles, count the traffic, classify the vehicles, record data and time with location details, average speed estimation time between any two	Disseminate information of defaulters and errant drivers to the concerned authorities for

			defined locations over the entire stretch functionalities Further it should be integrate with existing challan portal or any other department provided application to integrate with.	enforcement and e-challan
2	Red Light Violation Detection System (RLVD)		Automatically capture the infractions of Red light and stop line violations at junctions, it should consist of automatic reading of number plates also, count the traffic, classify the vehicles, record data and time with location details,. Further it should be integrate with existing challan portal or any other department provided application to integrate with.	
3	AI features		Automatic monitoring of traffic with the help of smart AI based via Camera/LPU/Application should be able to detect helmetless driving, triple riding, seat belt violation, wrong direction, Stopped/Parked vehicle, Reverse traffic, Fallen object, Accidents (flipped vehicle/collide vehicles), Vehicle running in opposite direction. Further it should be integrate with centralized violation system and with relevant approval can be process to the NIC Challan Portal.	
4	Mobile Speed Violation Detection System		The system shall be capable to place the system in the Vehicle without need of any vehicle modification and can be used for Detection of over speeding vehicles (from parked as well as moving police patrol) , The system shall be capable to place the system in the Vehicle and can be used for Detection of over speeding vehicles, automatic reading of number plates of the vehicles. Further it should be integrate and provide the data through 3G/4G/5G with Centralized violation management system Portal and Further it should be integrate with existing challan portal or any other department provided application to integrate with.	
5	Incident management		CCTV Surveillance System for capturing of regular 24 x 7 continuous video of the sites/junctions.	

6	Emergency Call Box		The emergency box (or panic button) will enable citizens to establish a two way audio (microphone and speaker) & camera (video camera and a video screen) communication link with Police (or / and with Authority's Disaster Management Cell or Command and Communications Center) through a press of a button.	
7	PA (Public Address System)		Public Address system to be used at intersections, blind spots on highway or those critical locations as identified to make important announcements for the public.	
8	Variable Message Sign	Information Dissemination	LED display that provides road and traffic condition information to the commuters to help users travel smoothly without much stress. In case of incidents like congestion, the displayed information helps drivers in judging whether to take detour or not, or make other decisions based on the information provided through VMS. For speed based message also display on the VMS.	Dissemination of the information on the display
9	Data Centre System	Backend Infrastructure	For Hosting of application as well to keep record of the data at central location.	For data storage/processing related to ITMS
10	Centralized Violation System	Information Management, Advance Analytics/Field Report Analysis & Processing	Application (Customized) to be hosted on servers and storage at the state data center which can be able to collect all data such as violation data, all vehicle data, health check reporting of all the equipment's including SLA management, creation of blacklist of the vehicles and other important information management etc. It should also capable to processing of challan through NIC Challan Portal including integration with E-VAHAN Portal and other necessary portal of MoRTH. Also there should be highway traffic monitoring based integration facility whenever required.	
11	Traffic Monitoring using Central command centre	Monitoring	Central command centre with large display through which monitoring of traffic and process such data to provide relevant information and alerts to the commuters, police and rescue teams.	

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- a. Integrated Traffic Control System comprising following features
 - ITMS Surveillance Camera
 - Automatic Number Plate Recognition (ANPR) System
 - Red Light Violation Detection (RLVD) System
 - Speed Violation Detection (SVD) System
 - Emergency Call Box (ECB) System
 - e-Challan System
- b. Public/Vehicle Transport Priority System
- c. ITMS Command and Control Centre
- d. Help System for emergency life saving and public safety
- e. Automatic Violation Detection capabilities in the system like
 - Over speeding
 - Over speeding calculation based on average speed instead of instant speed
 - Wrong Direction
 - Wrong Lane Driving
 - Red Light Violation
 - Seat Belt Violation
 - Helmet violation
 - More than 2 passengers on 2 Wheeler
 - Others

2. PRE-QUALIFICATION/ ELIGIBILITY CRITERIA

- 1) A bidder participating in the procurement process shall possess the following minimum pre-qualification/ eligibility criteria.

S. No.	Basic Requirement	Specific Requirements	Documents Required
1	Legal Entity	<p>The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement (Note: A self-certified declaration regarding the non-applicability of registration to any Act should be submitted by the bidder).</p> <p>OR</p> <p>A company registered under Indian Companies Act, 1956.</p> <p>OR</p> <p>A partnership firm registered under Indian Partnership Act, 1932.</p> <p>Consortium is also allowed. The consortium shall not consist of more than two companies/ corporations and shall be formed under a duly stamped consortium agreement. (Attach Proof). In a consortium, one of the partners shall be designated as a "Lead Partner". Both member of the consortium shall be equally responsible and jointly and severally liable for the successful completion of the entire project. In case of any issues, Lead Partner shall be responsible for all the penalties. A bidder cannot be partner in more than one consortium.</p>	<p>Copy of valid Registration Certificates</p> <p>In case of company, Copy of Certificates of incorporation</p> <p>In case of a consortium, a Consortium Agreement must be submitted, duly signed by the consortium members. The Consortium Agreement must clearly specify the stake of each member and outline their roles and responsibilities as per Annexure -20</p>
2	Financial Turnover	Average Annual Turnover of the Lead bidder from IT/ ITeS during the financial years, i.e., 2020-2021, 2021-2022 and 2022-2023 (as per the last published audited balance sheets), should be at least Rs. 100 Crores.	CA Certificate with CA's Registration Number/ Seal
3	Financial: Net Worth	The net worth of the bidder, as on 31 st March 2023 should be Positive. (In case of consortium, net worth of both consortium partner should be positive)	CA Certificate with CA's Registration Number/ Seal

S. No.	Basic Requirement	Specific Requirements	Documents Required
4	Technical Capability	<p>The bidder must have successfully supply and installation of at least 100 nos. of RLVD/SVD (radar/laser) /ANPR/Mobile SVD cameras of ITMS in 3 projects during the financial years from 2017-18 till last date of bid submission in India. (Work order(s)/Agreement date shall be as on or after 1st April 2017)</p> <p>a. Work order (s)/Agreement should be from PSU/Central Government/State Government. b. Work Order/Agreement should be within India</p> <ul style="list-style-type: none"> Note: In the above submitted work order all items must be procured by the firm itself. 	<p>Annexure-14 per project reference And Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion (Certified by the CA); OR Work Order + Phase Completion Certificate from the client</p>
5	Tax registration and clearance	<p>The bidder should have a registered number of</p> <p>i. GSTN where his business is located ii. Income Tax / PAN number.</p>	Copies of relevant certificates of registration
6	Mandatory Undertaking	<p>Bidder & OEM should be :-</p> <p>a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons;</p> <p>b) not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;</p> <p>c) not have a conflict of interest in the procurement in question as specified in the bidding document;</p> <p>d) comply with the code of integrity as specified in the bidding document;</p> <p>e) not have been blacklisted;</p> <p>f) Compliance regarding order no. F.NO. 6/18/2019-PPD dated 23/07/2020 issued by Ministry of Finance, Department of Expenditure public Procurement division regarding the restriction</p>	A Self Certified letter as per Annexure-5: Self-Declaration

S. No.	Basic Requirement	Specific Requirements	Documents Required
		under rule 144(xi) of GFR 2017. g) OEM should have warehouse/office/service centre in Rajasthan and if not available during bid then need to submit undertaking that selected bidder (L1) quoted OEM would open warehouse/office/service centre in Rajasthan within 3 months after work order given to the selected bidder.	
7	ITMS OEM Capability	The Proposed ITMS OEM successfully supplied and commissioned their respective manufactured systems to Indian Government/State Government/PSU's directly or through its System Integrator. Should have experience in delivering/implementation in last 5 year during the financial years from 2017-18 till last date of bid submission in India (Work order(s)/Agreement date shall be as on or after 1 st April 2017): a. Minimum 1000 nos. of ITMS solution based cameras (RLVD/ANPR/SVD(Laser or Radar)/Mobile SVD. b. Two projects running successfully at least for two years where minimum 50 nos. of RLVD/SVD/ANPR (Cumulative) were installed including both project.	1. Purchase order of the work orders received from SI/direct from client with Client Project details via RFP. 2. Relevant document seek by department. 3. UAT/Completion Certificate/Go-Live for submitted project.

- 2) In addition to the provisions regarding the qualifications of the bidders as set out in (1) above: -
- the procuring entity shall disqualify a bidder as per the provisions under "Clause:Exclusion/Disqualification of bids in Chapter-5: ITB"; and
 - the procuring entity may require a bidder, who was pre-qualified, to demonstrate its qualifications again in accordance with the same criteria used to pre-qualify such bidder. The procuring entity shall disqualify any bidder that fails to demonstrate its qualifications again, if requested to do so. The procuring entity shall promptly notify each bidder requested to demonstrate its qualifications again as to whether or not the bidder has done so to the satisfaction of the procuring entity.

3. SCOPE OF WORK, DELIVERABLES & TIMELINES

4.1 Project Scope

The successful commissioning of the project requires the System Integrator (SI) to provide quality & timely services. The bidders are strongly advised to carefully read the Scope of Work.

The broad scope of work for the SI is to supply, installation and commissioning of items as per Bill of Material mentioned in **Annexure-1 (BOM)** and technical specifications mentioned in **Annexure-2 (Technical Specification)** with five years Warranty & maintenance support services . The rate quoted by the bidder for each item mentioned in the tender shall remain valid for purchase by RISL for a period of two years and may be extended as per RTPP Act on mutual acceptance on same terms and conditions subject to price fall clause.

The work will include the Design, Supply, Installation, Testing, Commissioning, Configuration, System Integration, Operations and Maintenance of Integrated Traffic Management System (ITMS) on the Roads & Highways, initially covering below mentioned stretches of NHs during 2 years rate contract period:

- a) Shahjahanpur-Ajmer (NH-48 & NH-448)
- b) Barr Bilara-Jodhpur (NH-25)
- c) Sikar-Bikaner (NH-11 & NH-52)
- d) And Other Roads & Highways Stretches of State of Rajasthan

Broad Scope for the Bidder :

- a) The selected bidder shall be required to support, maintain and operate the Command and Control Centre for ITMS.
- b) Provide Comprehensive warranty/maintenance of equipment asked in **Annexure-1**.
- c) SI may need to provide support for Integration of Cameras /application with
 - a) Integration with Road Safety War Room
 - b) Integration with Complaint Management System
 - c) Integration with iRAD/e-DAR
 - d) Integration with Fitness Center Module
 - e) Integration with Social Media for challan generation
 - f) Integration with RAJDHARA or Google maps as per the requirement
 - g) Integration with No Parking Modules
 - h) Integration with Citizen module for reporting violations of traffic rules
 - i) Any other Integration required by department from time to time
- d) For FAT point of view challan generation integration with challan portal/NIC portal for challan would be applicable, however for any further integration could take place as per project requirement from time to time.
- e) Bidder need to ensure all cameras installed should able to monitor in CCC via VMS or any other software asked to integrated with.
- f) Facility Management Services for five years. FMS team would be first incident responder of any issue during day to day monitoring. Based on those monitoring FMS team would take necessary analysis on the issue and would forward to concern team or resource for resolution of the issue as per the SLA mentioned.
- g) Bidder need to manage data centre equipment like servers, storages, desktops, work

station.

- h) To upgrade, update and provide patches for the products even applications come for bidder support in the project asked in Annexure-1.
- i) To liaison with RISL/ISP/TSP for connectivity requirement 3G/4G/5G/OFC etc will coordinate with RSWAN/SECLAN Project Team for integration of RSWAN Network with Command and Control centre (Wherever feasible and possible)
- j) To store 24 hours x 7 days of video from all cameras installed in the system for at least 30 days. Important incidents would be required to be stored for longer duration as per requirement which would be communicated by End user or bidder need to identify on daily monitoring keeping current and future added cameras recording count and sizing in view.
- k) The bidder should provide latest upgradation (all kind patch, dependencies of software or any additional hardware without extra cost to department) of ITMS application with state level centralized dashboard facility should available to showcase to higher management.
- l) The selected bidder has to maintain/update telephone numbers of hospitals, fire stations, police stations, PHED, Electric sub-station, Ambulances etc. as part of the system to be used by the operators working in the command and control room.
- m) The bidder need to integrate application with RAJDHARA or Google maps as per the requirement so that vehicle routing could be visible or marked.
- n) The bidder also need to provide required patch/software upgrade/update keeping resources like Computation, memory, I/O, compression with latest technique available for optimization.
- o) Bidder also ensure to plan tape cartridge of secondary storage which include data as well as cleaning cartridge in sufficient quantity to support backup/restore during 5 years of support.
- p) The bidder is expected to perform following activities:
 - a. Customization of all the application software supplied under this project as per project requirement
 - b. Integration between the supplied application software as per project requirement
 - c. Integration of new devices have to be undertaken as and when required. New devices may include sensors/cameras.
- q) Bidder need to provide support/warranty to upgrade, update and provide required patches of the products item as per bill of material in Annexure-1 of these products for next 5 years from the date of work order.
- r) Bidder need to interact with other stake holders which could be Transport and Road Safety Department, DOITC/RISL, Traffic Police, Concerned Road Owning Agencies Vehicle Owners, Citizen.
- s) SI will be responsible for supplying the application and licenses of related software product sand installing the same so as to meet project requirements.
- t) SI shall also develop a centralized Dashboard for live monitoring of the feeds, which shall be operated by the procuring agency/officials.

The detailed scope of work for the SI during the period of contract/ engagement would include the following: -

A. Supply of ordered Items/equipments

- a) Items/equipments for the orderd quantity are to be supplied as per specifications defined in

Annexure-2.

- b) Items/equipments for the orderd quantity mentioned in Work Order must be procured by only the selected bidder for all items.
- c) All item/hardware should be supplied with all the required installation material/ accessories/software (wherever required) for proper installation at respective site.
- d) In case of any equipments/items supplied under this contract as mentioned in Annexure-1 (Bill of Material)become non-functional, SI shall be responsible for onsite replacement/repair of the equipment as per SLA at no additional cost to tendering authority during complete maintenance period of five years.
- e) Bidder must purpose compatible OEM for SVDS, RLVD in such way that Centralized application have single dashboard which can reflect each kind of MIS as and when required from single dashbaord.

B. Installation & commissioning of Items /equipments

The selected bidder / SI shall be required to:

B.1 Installation and Commissioning of items/equipment's

- a) Install all items procured under this contract.
- b) Ensure all mentioned cameras in Annexure-1 should integrated with existing VMS/other applications (wherever required) as pe the direction from RISL/DOIT&C.
- c) Supply & Installation of any other item required for successful commissioning to be done by bidder without any extra cost to RISL.
- d) Bidder need to submit survey report for identification of the sites for GANTRY and Cantilever poles considering NHAI guidelines and vulnerable merger points of service road, blind spots also need to consider during survey.
- e) Have required resources like vehicle, ladder, labour etc. for execution of installtion and required maintenance services during project tenure.
- f) For Gantry bidder need to share design layout with required SBC (soil bearing capacity) report before excavation process.
- g) Bidder need to ensure all items should work collaboratively and should have compatible to each other's (items/devices) at the time of biding/installation. Bidder need to arrange any type of hardware/SDK to make function/work collaboratively
- h) The SI shall configure all the equipment for end-to-end user access to applications/services or remotely accessible (whatever best possible for accessibility).
- i) Upon successful installation of all the Hardware/ Software, the SI shall submit installation reports (in original) duly verified by the respective nodal officer.
- j) RISL upon receipt of all installation reports (wherever applicable) from the SI, shall validate the same as per work order/ bidding document for its compliance.
- k) Bidder need to deploy sufficient manpower to complete installation as per the timeline defined and to maintain the SLA till the project period.
- l) Bidder need to provide dashboard which should provide facility like Movement counts for vehicles at major junctions, Travel times, delays between different points on the network, Pedestrian volumes at major junctions, Physical and visual characteristics of the area , MIS reporting needs as per the requirements.
- m) Bidder need to interact with other stake holders which could be Transport and Road Safety Department, DOITC/RISL, Traffic Police, Concerned Road Owing Agencies Vehicle

Owners / Citizen

- n) SI will be responsible for supplying the application and licenses of related software products and installing the same so as to meet project requirements.
- o) SI should integrate sensors provided by department with applications wherever required.
- p) SI shall also develop a centralized Dashboard for live monitoring of the feeds, which shall be operated by the procuring agency/officials.
- q) The OEM is expected to study the requirement with RISL and customize the software product to suit their requirements and integrate the same with existing software and infrastructure.
- r) Bidder need to ensure to engage manpower to verify configuration of new devices installed mentioned in **Annexure-1** whenever seek by department or resource/TPA deployed by department for the same.
- s) Bidder Shall designate and deploy, a project manager as mentioned in Manpower availability table for handling day-to-day monitoring during and after installation, O&M phase to co-ordinate with the stakeholders and nodal officers of designated ITMS.

C. Warranty & Maintenance Support services for equipments

The successful bidder shall

- a) Provide comprehensive onsite warranty for all items for the period mentioned in technical specification(s).
- b) Provide comprehensive Maintenance Support Services (MSS) for all supplied Hardware/Software with allied items. This involves comprehensive maintenance of all component covered under the contract including repairing, replacement of parts, modules, sub-modules, assemblies, sub-assemblies, spares part, Network cables etc. to make the system operational.
- c) Provide troubleshooting of problems which arise during execution of the project and resolve the same.
- d) Provide a standby equipment of similar or higher configuration when the fault is not rectifiable until the faulty equipment is repaired and replaced.
- e) In case faulty equipment is not repairable, the SI need to replace the same with similar or higher configuration
- f) Provide details of helpdesk (Name, Phone No, Email-ID etc) where Nodal officer/End user or any project based vendor/SI can lodge a complaint. SI shall provide a complaint number for each complaint for which a proper record would be maintained., also SI need to maintain SLA as mentioned.
- g) Maintain complaint register with tracking of all intermediate status upto the closure. RISL could seek all these reports whenever required or as directed by RISL.
- h) SI has to resolve the problem reported within the stipulated period as per SLA mentioned in this tender document.
- i) Bidder need to provide software pre-requisite licenses with the solution with 5 years warranty/support.

D. Permission/ Approvals for work to be undertaken as per scope of work

The successful bidder have to co-ordinate with respective authorities to obtain permission from NHAI, PWD, JDA/UIT, Municipal Corporation and other local authorities. Any Cost (on

actuals) towards obtaining such permissions like Permission Charges, Road-Cutting and restoration charges shall be borne by RISL/DoIT&C and shall be paid along with payment for installation as mentioned in payment terms. Bidder need to submit those bills along with installation bills which bidder claim re-imbursement on producing all required document seek by department to process claim/payment. Selected Bidder also need to arrange electricity connection on their own level (borne initial charges in applying power meter connection) to get power connectivity with meter for which bidder claim re-imbursement on producing all required document seek by department to process claim/payment for these power meter connection time to time.

E. Safety Precautions

- a) The Bidder(s) shall ensure that all the required precautions during installation and maintenance project period are taken to avoid any accident, damage, harm to man, machine and material.
- b) The Bidder(s) should ensure to abide by all safety regulations and practices,
- c) The Bidder(s) shall ensure that no damage to customer premises and property and to restore the property, wherever required, at no cost to purchaser, if any damage occurs.
- d) Necessary barricades, nightlamps, warning board and required watch man shall be provided by the Bidder(s) to prevent any accident to pedestrians or vehicles during any excavation or any maintenance work considering NHAI. The Bidder(s) shall employ sufficient man-power for this with cautionboards, flags,sign writings etc. before work and should be removed immediately after the work completion.
- e) The Bidder(s) should provide sufficient width at the trenchant all such places, where it is likely to cave-in due to soil conditions with out any extra payment.
- f) No lane closure shall be permitted on any road during peak hours except with prior approval of the Transport department. During non peak hours one or several traffic lanes may be closed provided that at least one lane in each direction is open for traffic at all times. On two way, two lane roads, any lane closure shall be first approved by the Transport department.
- g) All work area warning sign shall conform to the requirements in the relevant regulation in India.

F. Helpdesk Support

- a) The SI provide 24 x 7 help desk support to ITMS/CCC.
- b) SI log all calls received through any medium viz. telephone/email/in writing/in person, Shall generate a ticket mentioning type of problem, Severity level etc. using helpdesk tool, assign concerned FMS team/person, Project OIC(s) and user.
- c) The request would be made on help desk by the user through dedicated help line number/specific email account .The resolution time for such services would be as per SLA.
- d) Helpdesk would be provide by RISL/DOIT&C where ticket would log.

G. Edge/Field Equipment (Camera, Pole, Switch etc.) Management Support

- 1) Bidder has to maintain the installed poles, switches, camera, etc. as per SLA.
- 2) Bidder able to configure edge equipment, as and when required and provide services, such as relocation of edge equipment, or adding or removing accessories attachment or other devices/peripherals.
- 3) Bidder maintain record of all edge equipment installed, movement of edge equipment within site, changes and configuration of edge equipment.
- 4) Bidder need to make arrangement required resource like safety equipment's etc to attend any incidents or service request under the project.
- 5) Bidder arrange/download from OEM/authenticated provider to load drivers of peripherals, as & when need arise.
- 6) Bidder configure/reconfigure edge equipment to ensure optimum network connectivity and applications/service availability to all users.
- 7) Bidder re-establish network connectivity and application availability after any hardware/software failure.
- 8) Bidder need to ensure to equipped workforce with sufficient equipment's like multi-meter, safety gloves, foldable extendable ladder (with sufficient length up to pole length) to carry out their day to day activities related to incident or preventive maintenance
- 9) Bidder has to maintain proper earthing at location of poles.

H. Preventive Maintenance Services

The SI provide preventive maintenance services for all the equipment's (IT as well as non-IT) supplied at least once in every quarter. The preventive maintenance Shall include -

- a) Cleaning and removal of dust and dirt from exterior of the equipment.
- b) Conduct inspection (check for loose contacts in the cable and connections etc.), testing, satisfactory execution of diagnostics and necessary repairing of equipment.
- c) SI intimate and take approval from purchaser before carrying out preventive maintenance activity.
- d) SI maintain a register of item wise preventive maintenance done.

I. Network Management Services

The scope of work under network management services would include -

- a) To ensure continues operation and upkeep of the LAN Infrastructure in the command and control centre including all active and passive components so that the network is available 24 x7 as per the prescribed SLA.
- b) Configuration/Reconfiguration/deployment and Management of various policies like Security policies, Access policy, IP Policy, routing policy etc. including but not limited to opening/closing of specific ports on network devices.
- c) Performance tuning to ensure resilient performance, reliability and high availability of the network services.
- d) The SI coordinate with RSWAN Team for integration of RSWAN network with ITMS/CCC Network.
- e) The SI also be responsible for integration, management, maintenance

configuration/reconfiguration and network parameter tuning on the devices which are part of project as per the available Bandwidth/networks which needs to be integrated with Data Centre network during entire contract period.

- f) The SI responsible to monitor the availability of various links and their packet drop, latency and utilization at Data Centre network. The SI also maintain logs on the basis of time, interface, IP address, application wise etc. for traffic analysis for the requisite period defined in respective policies.
- g) Bidder need to coordinate with TSPs in case 3G/4G/5G connectivity based solution defined so that optimum bandwidth could be use and integrate with RAJSWAN wherever/Whenever possible in secure manner.

J. Server Management Services

- a) SI manage the servers on end-to-end basis including server administration, performance tuning, hardware and software support and upkeep of the server. The SI also undertake installation/re-installation of all the servers in terms of operating system, databases, clusters, virtualization, Application Server software, latest Software updates, patches etc.
- b) SI provide device/peripherals management, user management, file system management, files management services for the servers.
- c) SI implement operating system security/hardening and application server software level security for the servers.
- d) SI need to manage and use HA (High Availability)-HA (High Availability)- mode-based cluster for ITMS application which should include necessary licenses.
- e) SI would also maintain record for server utilization with respect to hardware and application usage. SI need to take necessary approval from RISL/DOIT&C for any server utilization for any usage whether production, application or staging for better visibility of resources utilization.
- f) SI deploy and upload/configure/host and manage web sites, application software and databases on the servers as per requirement. The SI also coordinate and provide all assistance/services to the purchaser and the users of respective websites/applications for smooth operations and resolution of day-to-day problems.
- g) SI assign rights on servers to different user's w.r.t. FTP, Remote Access etc. as per defined policies.
- h) SI need to use any backup software to backup server OS, database etc for manging any emergency situation where restore of OS/database would be require, SI need to provide this without any additional cost to client.

K. Desktop Management Support

- a) SI maintain and install OS, desktop/client software etc., as and when required and provide services, such as relocation of PCs, or adding or removing accessories attachment or other devices/peripherals.
- b) SI maintain record of all new machines installed, movement of machines within site, changes and configuration of machines.
- c) SI perform any install, move, add or change (IMAC) in ITMS/CCC.
- d) SI configure print server and resolve all printing problems of users.
- e) SI arrange/download from internet and load drivers of peripherals, as & when need arise.
- f) SI configure/reconfigure client machines to ensure optimum network connectivity and applications/service availability to all users.

- g) SI install, reload, reconfigure any desktop/office automation software, browsers, applications, clients of any application etc., as and when required as per the policy defined for GOR/GOI under usage limitation.
- h) SI re-establish network connectivity and application availability after any hardware/software failure.
- i) In case of hard disk failure, the bidder make all attempts possible to retrieve the data & transfer to the new disk. The new disk should be of same make and have capacity, specification equal to or higher than the original hard disk.
- j) SI make own arrangement to get all software bug fixes, patches, upgrades from internet or the concerned software principals.
- k) SI educate the user about the do's and don'ts in a desktop operation.
- l) SI prevent any user from using the unauthorized and/or unlicensed software.

L. Storage Administration and Management Services

The SI responsible for the configuration/reconfiguration and management of the storage solution and Shall provide the following services:

- a) SI manage key resources in the Storage solution
- b) SI manage interconnects between key resources in the Storage solution
- c) SI receive asynchronous notification that the configuration of the Storage solution has changed
- d) SI manage the health of key resources in the Storage solution
- e) SI manage the available performance of interconnects in the Storage solution
- f) SI receive asynchronous notification that the performance of the Storage interconnect solution has changed
- g) SI manage the zones being enforced in the Storage solution
- h) SI manage the storage volumes in the Storage solution
- i) SI manage the connectivity and access rights to Storage Volumes in the Storage solution
- j) SI facilitate the purchaser in connecting to the Storage later and provide access rights as required.

M. Security Administration and Management Services

The objective of this service is to provide a secure environment in ITMS. This service includes:

- a) Addressing the ongoing needs of security management including, but not limited to, monitoring, troubleshooting of various devices/ tools such as virus protection, and vulnerability protection through implementation of proper patches, procedures and rules.
- b) Maintaining an updated knowledge base of all the published security vulnerabilities and virus threats for related software and microcode etc.
- c) Application should have CERT-In defined cyber security feature to avoid any data leakage like encryption/TLS etc.
- d) Ensuring that latest patches/ workarounds for identified vulnerabilities are applied immediately.
- e) Respond to security breaches or other security incidents by taking corrective measures, providing guidelines to users and coordinate with respective OEM in case a new threat is observed to ensure that workaround /patch is made available for the same.

- f) All communications between client-server, web access, mobile application communication should be secure manner like TLS, HTTPS.
- g) All cameras should be accessible via secure protocol like HTTPS so that no middle-man attack could take place.
- h) Bidder need to ensure safe-to-host certificate validity check for any installed or to be installed applications vulnerabilities, or risk identification for all the application hosted under the project. Also execute remedy to remove those threats based on risk analysis.
- i) Bidder need to ensure if any API gets consumed or developed for application integration then those API should be of best security practice and need to review time to time to avoid any threat and vulnerability exploitation.
- j) Maintenance and management of applications/procured hardware, including, but not limited to to restrict network protocols and traffic, detecting intrusions or unauthorized access to services, applications or data.
- k) Ensuring that the security policy is maintained and updates to the same are made regularly as per ISO 27001, BS 7799 and BS 15000 guidelines.
- l) Compliance of security regulations defined by Govt or any other Govt. Authorized agency such as CERT-IN etc.

4.2 Project Activity, Deliverables, Timelines and payment

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

- a) 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 SI shall arrange supplies and provide the required services within the specified period.
- b) "T" is the event marking RISL issuing the work order for supply, installation and commissioning of various items under Rate Contract to the selected bidder(s) i.e. SI. Payments to the selected bidder, after successful completion of the target milestones (including specified project deliverables), would be made as under:

S. No.	Milestone/ Phase	Deliverables	Timelines	Payment
1	Signing Agreement and submission of Security Deposit	Agreement and Security Deposit	Within 15 days from date of issue of Lol	NIL
2	Submission of Design and Survey	Survey report of Gantry and Cantilever poles. SBC reports before excavation for Gantry.	Within 30 days from date of Work Order (T)	NIL
3	Supply	Delivery challan OEM Warranty Certificates for Hardware/Software items (wherever applicable)	T+ 60 days	30% of total supplied items
4	Installation and Commissioning of Item	Installation Report signed by Nodal officer	T + 120 days	50% of total installed items
5	Maintenance	Quarterly SLA report	After end of	Remaining 20% will be

S. No.	Milestone/ Phase	Deliverables	Timelines	Payment
	support services		each Quarter (Starting from the Date of Commissioning)	equally spread over 5 years payable in 20 Quarters after making adjustments for penalties as per SLA/Performance

Note: The quantities mentioned in the Bid are indicative/ approx. and shall only be used for the purpose of financial bid evaluation and the Payments shall be made as per actual quantities supplied, installed and commissioned as per scope of work. No minimum quantity is guaranteed in rate contract.

- c) The supplier/ selected bidder request for payment shall be made to the purchaser in writing, accompanied by invoices describing, as appropriate, the goods delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- d) The supplier/ selected bidder may request for payment to the purchaser on completion of work in each city.
- e) Due payments may be made promptly by the purchaser.
- f) The currency or currencies in which payments shall be made to the supplier/ selected bidder under this Contract shall be Indian Rupees (INR) only.
- g) All remittance charges will be borne by the supplier/ selected bidder.
- h) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- i) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- j) 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.
- k) Taxes, as applicable, will be deducted/ paid as per the prevalent rules and regulations.

4.2.1 Exit Management

- a) This sets out the provisions, which will apply on expiry or termination of the Agreement, the Project Implementation, Operation and Maintenance.
- b) In the case of termination of the Project Implementation and/or Operation and Maintenance, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.
- c) The Parties shall ensure that their respective associated entities carry out their respective obligations set out in Exit Management Schedule.
- d) All the hardware, networking equipment, any other project related accessories installed/implemented/integrated, operational rights, etc. will be solely owned by the Transport Department/GoR.
- e) Post implementation Support and Maintenance for 5 years Project Duration.

4. INSTRUCTION TO BIDDERS (ITB)

1) Sale of Bidding/ Tender Documents

- a) The sale of bidding documents shall be commenced from the date of publication of Notice Inviting Bids (NIB) and shall be stopped one day prior to the date of opening of Bid. The complete bidding document shall also be placed on the State Public Procurement Portal and e-Procurement portal. The prospective bidders shall be permitted to download the bidding document from the websites and pay its price while submitting the Bid to the procuring entity.
- b) The bidding documents shall be made available to any prospective bidder who pays the price for it in cash or by bank demand draft, banker's cheque.
- c) Bidding documents purchased by Principal of any concern may be used by its authorised sole selling agents/ marketing agents/ distributors/ sub-distributors and authorised dealers or vice versa.

2) Pre-bid Meeting/ Clarifications

- a) Any prospective bidder may, in writing, seek clarifications from the procuring entity in respect of the bidding documents.
- b) A pre-bid conference is also scheduled by the procuring entity as per the details mentioned in the NIB and to clarify doubts of potential bidders in respect of the procurement and the records of such conference shall be intimated to all bidders and where applicable, shall be published on the respective websites.
- c) The period within which the bidders may seek clarifications under (a) above and the period within which the procuring entity shall respond to such requests for clarifications shall be as under: -
 - a. Last date of submitting clarifications requests by the bidder: as per NIB
 - b. Response to clarifications by procuring entity: as per NIB
- d) The minutes and response, if any, shall be provided promptly to all bidders to which the procuring entity provided the bidding documents, so as to enable those bidders to take minutes into account in preparing their bids, and shall be published on the respective websites.

3) Changes in the Bidding Document

- a) At any time, prior to the deadline for submission of Bids, the procuring entity may for any reason, whether on its own initiative or as a result of a request for clarification by a bidder, modify the bidding documents by issuing an addendum in accordance with the provisions below.
- b) In case, any modification is made to the bidding document or any clarification is issued which materially affects the terms contained in the bidding document, the procuring entity shall publish such modification or clarification in the same manner as the publication of the initial bidding document.
- c) In case, a clarification or modification is issued to the bidding document, the procuring entity may, prior to the last date for submission of Bids, extend such time limit in order to allow the bidders sufficient time to take into account the clarification or modification, as the case may be, while submitting their Bids.
- d) Any bidder, who has submitted his Bid in response to the original invitation, shall have the opportunity to modify or re-submit it, as the case may be, within the period of time originally allotted or such extended time as may be allowed for submission of Bids, when changes are made to the bidding document by the procuring entity:

Provided that the Bid last submitted or the Bid as modified by the bidder shall be considered for evaluation.

4) Period of Validity of Bids

- a) Bids submitted by the bidders shall remain valid during the period specified in the NIB/ bidding document. A Bid valid for a shorter period shall be rejected by the procuring entity as non-responsive Bid.
- b) Prior to the expiry of the period of validity of Bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.
- c) Bidders that agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

5) Format and Signing of Bids

- a) Bidders must submit their bids online at e-Procurement portal i.e. <http://eproc.rajasthan.gov.in>.
- b) All the documents uploaded should be digitally signed with the DSC of authorized signatory.
- c) A Single stage Two part/ cover system shall be followed for the Bid: -
 - a. Technical Bid, including fee details, eligibility & technical documents
 - b. Financial Bid
- d) The technical bid shall consist of the following documents: -

S. No.	Documents Type	Document Format
Fee Details		
1.	Bidding document Fee (Tender Fee)	Proof of submission (PDF)
2.	RISL Processing Fee (e-Procurement)	Instrument/ Proof of submission (PDF)
3.	Bid Security	Instrument/ Proof of submission (PDF)
Eligibility Documents		
4.	Bidder's Authorisation Certificate along with copy of PoA/ Board resolution stating that Auth. Signatory can sign the bid/ contract on behalf of the firm.	As per Annexure-4 (PDF)
5.	All the documents mentioned in the "Eligibility Criteria", in support of the eligibility	As per the format mentioned against the respective eligibility criteria clause (PDF)
Technical Documents		
6.	Certificate of Conformity/ No Deviation	As per Annexure-6 (PDF)
7.	Declaration by Bidders	As per Annexure-7 (PDF)
8.	Manufacturer's Authorisation Form (MAF)	As per Annexure-8 (Indicative Format) (PDF)
9.	Undertaking on Authenticity of Comp. Equip.	As per Annexure-9 (PDF)
10.	Components Offered + Technical specifications compliance sheet for all items only on Bidder's Letter Head	As per Annexure-10 (PDF)

e) Financial bid shall include the following documents: -

S. No.	Documents Type	Document Format
1.	Financial Bid – Cover Letter	On bidder's letter head duly signed by authorized signatory as per Annexure-11 (PDF)
2.	Financial Bid - Format	As per BoQ (.XLS) format available on e-Procurement portal

f) The bidder should ensure that all the required documents, as mentioned in this bidding document, are submitted along with the Bid and in the prescribed format only. Non-submission of the required documents or submission of the documents in a different format/ contents may lead to the rejections of the Bid submitted by the bidder.

6) Cost & Language of Bidding

- The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the procuring entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the procuring entity, shall be written only in English Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

7) Alternative/ Multiple (Bids/OEM)

Alternative/ Multiple Bids from same bidder shall not be considered at all. Also, the bidder shall not quote for multiple brands/ make/ models and should also mention the details of the quoted make/ model in the "Annexure-10: Components Offered".

8) Bid Security (EMD)

Every bidder, if not exempted, participating in the procurement process will be required to furnish the bid security as specified in the NIB.

- In lieu of bid security, a bid securing declaration shall be taken from Departments of the State Government, Undertakings, Corporations, Autonomous bodies, Registered Societies and Cooperative Societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.
- Bid security instrument or cash receipt of bid security or a bid securing declaration shall necessarily accompany the technical bid.
- Bid security of a bidder lying with the procuring entity in respect of other bids awaiting decision shall not be adjusted towards bid security for the fresh bids. The bid security originally deposited may, however, be taken into consideration in case bids are re-invited.
- The bid security may be given in the form of a banker's cheque or demand draft or bank guarantee, in specified format, of a scheduled bank. The bid security must remain valid thirty days beyond the original or extended validity period of the bid.
- The issuer of the bid security and the confirmer, if any, of the bid security, as well as the form and terms of the bid security, must be acceptable to the procuring entity.

- f) Prior to presenting a submission, a bidder may request the procuring entity to confirm the acceptability of proposed issuer of a bid security or of a proposed confirmer, if required. The procuring entity shall respond promptly to such a request.
- g) The bank guarantee presented as bid security shall be got confirmed from the concerned issuing bank. However, the confirmation of the acceptability of a proposed issuer or of any proposed confirmer does not preclude the procuring entity from rejecting the bid security on the ground that the issuer or the confirmer, as the case may be, has become insolvent or has otherwise ceased to be creditworthy.
- h) The bid security of unsuccessful bidders shall be refunded soon after final acceptance of successful bid and signing of Agreement and submitting security deposit.
- i) The Bid security taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
 - a. when the bidder withdraws or modifies its bid after opening of bids;
 - b. when the bidder does not execute the agreement, if any, after placement of letter of intent;
 - c. when the bidder does not deposit the security deposit within specified period after the LOI is placed; and
 - d. if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- j) Notice will be given to the bidder with reasonable time before bid security deposited is forfeited.
- k) No interest shall be payable on the bid security.
- l) In case of the successful bidder, the amount of bid security may be adjusted in arriving at the amount of the Security Deposit, or refunded if the successful bidder furnishes the full amount of Security Deposit.
- m) The procuring entity shall promptly return the bid security after the earliest of the following events, namely: -
 - a. the expiry of validity of bid security;
 - b. the execution of agreement for rate contract and security deposit is furnished by the successful bidder;
 - c. the cancellation of the procurement process; or
 - d. the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

9) Deadline for the submission of Bids

- a) Bids shall be received online at e-Procurement portal and up to the time and date specified in the NIB.
- b) Normally, the date of submission and opening of Bids would not be extended. In exceptional circumstances or when the bidding document are required to be substantially modified as a result of discussions in pre-bid meeting/ conference or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original NIB and shall also be placed on the State Public Procurement Portal, if applicable. It would be ensured that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. The procuring entity shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If, in the office of the Bids receiving and opening authority, the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

10) Withdrawal, Substitution, and Modification of Bids

- a) If permitted on e-Procurementportal, a Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial cover) as per the instructions/ procedure mentioned at e-Procurementwebsite under the section "Bidder's Manual Kit".
- b) Bids withdrawn shall not be opened and processes further.

11) Opening of Bids

- a) The Bids shall be opened by the bid opening & evaluation committee on the date and time mentioned in the NIB in the presence of the bidders or their authorised representatives who choose to be present.
- b) The committee may co-opt experienced persons in the committee to conduct the process of Bid opening.
- c) The committee shall prepare a list of the bidders r their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name and telephone number and corresponding bidders' names and addresses. The authority letters, if any, brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bid opening committee with date and time of opening of the Bids.
- d) All the documents comprising of technical Bid/ cover shall be opened & downloaded from the e-Procurement website (only for the bidders who have submitted the prescribed fee(s) to RISL).
- e) The committee shall conduct a preliminary scrutiny of the opened technical Bids to assess the prima-facie responsiveness and ensure that the: -
 - a. bid is accompanied by bidding document fee, bid security or bid securing declaration, and processing fee (if applicable);
 - b. bid is valid for the period, specified in the bidding document;
 - c. bid is unconditional and the bidder has agreed to give the required performance security; and
 - d. other conditions, as specified in the bidding document are fulfilled.
 - e. any other information which the committee may consider appropriate.
- f) No Bid shall be rejected at the time of Bid opening except the Bids not accompanied with the proof of payment or instrument of the required price of bidding document, processing feeand bid security.
- g) The Financial Bid cover shall be kept unopened and shall be opened later on the date and time intimated to the bidders who qualify in the evaluation of technical Bids.

12) Selection Method:

The selection method is Least Cost Based Selection (LCBS or L1). Bidder has to quote compulsorily in all items mentioned in bill of material/BoQ, otherwise complete bid will be rejected. One Lowest evaluated technically responsive bidder shall be selected for award of rate contract on cumulative total (Lowest) amount of BOQ (All Items) as per his financial bid.

13) Clarification of Bids

- a) To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through the e-Procurement portal.
- b) Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.

- c) No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
- d) No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

14) Evaluation & Tabulation of Technical Bids

a) Determination of Responsiveness

- a. The bid evaluation committee shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.
- b. A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -
 - i. "deviation" is a departure from the requirements specified in the bidding document;
 - ii. "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
 - iii. "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- c. A material deviation, reservation, or omission is one that,
 - i. if accepted, shall:-
 - 1. affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or
 - 2. limits in any substantial way, inconsistent with the bidding documents, the procuring entity's rights or the bidder's obligations under the proposed contract; or
 - ii. if rectified, shall unfairly affect the competitive position of other bidders presenting responsive Bids.
- d. The bid evaluation committee shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
- e. The procuring entity shall regard a Bid as responsive if it conforms to all requirements set out in the bidding document, or it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the bidding document, or if it contains errors or oversights that can be corrected without touching on the substance of the Bid.

b) Non-material Non-conformities in Bids

- a. The bid evaluation committee may waive any non-conformities in the Bid that do not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
- b. The bid evaluation committee may request the bidder to submit the necessary information or document like audited statement of accounts/ CA Certificate, Registration Certificate, ISO/ CMMi Certificates, etc. within a reasonable period of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.
- c. The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.

c) Technical Evaluation Criteria

- a. Bids shall be evaluated based on the documents submitted as part of technical bid. Technical bid shall contain all the documents as asked in the clause "Format and signing of Bids".
- b. Any item asked in tender document and if not found technically qualified during technical evaluation of bid, Whole bid will be considered as technically non complied bid. The tendering authority will only consider the financial bid of technically complied bid.

d) Tabulation of Technical Bids

- a. If Technical Bids have been invited, they shall be tabulated by the bid evaluation committee in the form of a comparative statement to evaluate the qualification of the bidders against the criteria for qualification set out in the bidding document.
- b. The members of bid evaluation committee shall give their recommendations below the table as to which of the bidders have been found to be qualified in evaluation of Technical Bids and sign it.
- e) The number of firms qualified in technical evaluation, if less than three and it is considered necessary by the procuring entity to continue with the procurement process, reasons shall be recorded in writing and included in the record of the procurement proceedings.
- f) The bidders who qualified in the technical evaluation shall be informed in writing about the date, time and place of opening of their financial Bids.

15) Evaluation & Tabulation of Financial Bids

Subject to the provisions of "Acceptance of Successful Bid and Award of Contract" below, the procuring entity shall take following actions for evaluation of financial Bids: -

- a) For two part/ coverBid system, the financial Bids of the bidders who qualified in technical evaluation shall be opened online at the notified time, date and place by the bid evaluation committee in the presence of the bidders or their representatives who choose to be present>;
- b) the process of opening of the financial Bids shall be similar to that of technical Bids.
- c) the names of the bidders, the rates given by them and conditions put, if any, shall be read out and recorded;
- d) conditional Bids are liable to be rejected;
- e) the evaluation shall include all costs and all taxes and duties applicable to the bidder as per law of the Central/ State Government/ Local Authorities, and the evaluation criteria specified in the bidding documents shall only be applied.
- f) the offers shall be evaluated and marked L1, L2, L3 etc. L1 being the lowest offer and then others in ascending order in case price is the only criteria, or evaluated and marked H1, H2,H3 etc. in descending order;
- g) the bid evaluation committee shall prepare a comparative statement in tabular form in accordance with rulesalong with its report on evaluation of financial Bids and recommend the lowest offer for acceptance to the procuring entity, if price is the only criterion, or most advantageous Bid in other case;
- h) The members of bids evaluation committee shall give their recommendations below the table regarding lowest Bid or most advantageous Bid and sign it.
- i) it shall be ensured that the offer recommended for sanction is justifiable looking to the prevailing market rates of the goods, works or service required to be procured.

16) Correction of Arithmetic Errors in Financial Bids

The bid evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely: -

- a) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the bid evaluation committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

17) Price/ purchase preference in evaluation

Price and/ or purchase preference notified by the State Government (GoR) and as mentioned in the bidding document shall be considered in the evaluation of Bids and award of contract.

18) Negotiations

- a) Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-bid stage. All clarifications needed to be sought shall be sought in the pre-bid stage itself.
- b) Negotiations may, however, be undertaken only with the lowest or most advantageous bidder when the rates are considered to be much higher than the prevailing market rates.
- c) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
- d) The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.
- e) Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.
- f) In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.
- g) In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

19) Exclusion of Bids/ Disqualification

- a) A procuring entity shall exclude/ disqualify a Bid, if: -
 - a. the information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or
 - b. the information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and
 - c. the bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;

- d. the Bid materially departs from the requirements specified in the bidding document or it contains false information;
 - e. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
 - f. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
- b) A Bid shall be excluded/ disqualified as soon as the cause for its exclusion/ disqualification is discovered.
- c) Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be: -
- a. communicated to the concerned bidder in writing;
 - b. published on the State Public Procurement Portal, if applicable.

20) Lack of competition

- a) A situation may arise where, if after evaluation of Bids, the bid evaluation committee may end-up with one responsive Bid only. In such situation, the bid evaluation committee would check as to whether while floating the NIB all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, sufficient time for formulation of Bids, etc were fulfilled. If not, the NIB would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that: -
- a. the Bid is technically qualified;
 - b. the price quoted by the bidder is assessed to be reasonable;
 - c. the Bid is unconditional and complete in all respects;
 - d. there are no obvious indicators of cartelization amongst bidders; and
 - e. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document
- b) The bid evaluation committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.
- c) In case of dissent by any member of bid evaluation committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.
- d) If a decision to re-invite the Bids is taken, market assessment shall be carried out for estimation of market depth, eligibility criteria and cost estimate.

21) Acceptance of the successful Bid and award of rate contract

- a) The procuring entity after considering the recommendations of the bid evaluation committee and the conditions of Bid, if any, financial implications, trials, sample testing and test reports, etc., shall accept or reject the successful Bid. If any member of the bid evaluation committee, has disagreed or given its note of dissent, the matter shall be referred to the next higher authority, as per delegation of financial powers, for decision.
- b) Decision on Bids shall be taken within original validity period of Bids and time period allowed to procuring entity for taking decision. If the decision is not taken within the original validity period or time limit allowed for taking decision, the matter shall be referred to the next higher authority in delegation of financial powers for decision.
- c) Before award of the rate contract, the procuring entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.

- d) A Bid shall be treated as successful only after the competent authority has approved the procurement in terms of that Bid.
- e) The procuring entity shall award the rate contract to the bidder(s) whose offer has been determined to be the lowest or most advantageous in accordance with the evaluation criteria set out in the bidding document and if the bidder(s) has been determined to be qualified to perform the contract satisfactorily on the basis of qualification criteria fixed for the bidders in the bidding document for the subject matter of procurement.
- f) Prior to the expiration of the period of bid validity, the procuring entity shall inform the successful bidder, in writing, that its Bid has been accepted.
- g) As soon as a Bid is accepted by the competent authority, its written intimation shall be sent to the concerned bidder by registered post or email and asked to execute an agreement in the format given in the bidding documents on a non-judicial stamp of requisite value and deposit the amount of security deposit , if applicable, within a period specified in the bidding documents or where the period is not specified in the bidding documents then within fifteen days from the date on which the letter of intent is dispatched to the bidder.
- h) If the issuance of formal letter of acceptance is likely to take time, in the meanwhile a letter of intent may be sent to the bidder. The acceptance of an offer is complete as soon as the letter of intent is posted and/ or sent by email (if available) to the address of the bidder given in the bidding document. Until a formal contract is executed, the letter of intent shall constitute a binding contract.
- i) The bid security of the bidders whose Bids could not be accepted shall be refunded soon after the contract with the successful bidder is signed and its security deposit is obtained.

22) Information and publication of award

Information of award of contract shall be communicated to all participating bidders and published on the respective website(s) as specified in NIB.

23) Procuring entity's right to accept or reject any or all Bids

The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.

24) Right to vary quantity

- a) 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.
- b) Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding documents, on the rates and conditions given in the contract if the original order was given after inviting open competitive Bids. Delivery or completion period may also be proportionately increased. The limits of repeat order shall be as per RTTP Act.

25) Security Deposit

- a) Bidder shall submit the Security Deposit within fifteen days of issue of letter of intent as per the terms and conditions of this bidding document equal to the value of Bid Security (EMD) mentioned in NIB.
- b) Refund of SD: The SD shall be refunded after three (03) months of the expiry of the rate contract period.

- c) Forfeiture of SD: The SD taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
 - a. When any terms and condition of the rate contract is breached or cancelled
 - b. when the bidder does not accept any work order issued anytime during the period of rate contract
 - c. when the bidder fails to commence the supply of the goods or service or execute work issued under this rate contract
 - d. when the bidder does not deposit the requisite performance security within the period specified in the work order, issued under this rate contract
- d) Notice will be given to the bidder with reasonable time before Security Deposit (SD) deposited with RISL is forfeited.
- e) No interest shall be payable on the deposited SD.

26) Execution of agreement for Rate Contract

- a) A procurement contract shall come into force from the date on which the letter of intent is despatched to the bidder.
- b) The successful bidder shall sign the agreement for rate contract within 15 days from the date on which the letter of intent is despatched to the successful bidder.
- c) If the bidder, who has been selected for rate contract, fails to sign a written agreement for rate contract or fails to furnish the required security deposit within specified period, the procuring entity shall take action against the successful bidder as per the provisions of the bidding document and Act. The procuring entity may, in such case, cancel the rate contract with the bidder and may debar the bidder to participate in any future bid.
- d) The bidder will be required to execute the agreement on a non-judicial stamp of specified value at its cost and to be purchase from anywhere in Rajasthan only.

27) Work Order Issued to Bidders under Rate Contract

- a) As per the project requirements, from time to time, the Purchaser shall issue work order to the successful bidder(s) for supply and installation of various items as applicable , however the rate contract does not guarantee the bidder to receive any minimum / committed number of work order (/s) from RISL
- b) The work order shall specify the quantity of various items to be supplied along with location details and delivery schedule for supply and installation.
- c) After receiving the work order, the bidder shall be responsible to deposit the requisite Performance Security Deposit (PSD) within the prescribed time period as specified in each work order.

28) Performance Security

- a) Prior to execution of agreement, Security Deposit shall be solicited from all successful bidders except the departments of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a security deposit declaration shall be taken from them. The State Government may relax the provision of security deposit in particular procurement or any class of procurement.
- b) The amount of performance security shall be 5%, or as may be specified in the bidding document, of the amount of supply order in case of procurement of goods and services. In case of Small Scale Industries (SSI) of Rajasthan, it shall be 1% of the amount of quantity ordered for supply of goods and in case of sick industries, other than SSI, whose cases are

pending before the Board of Industrial and Financial Reconstruction (BIFR), it shall be 1% of the amount of supply order.

- c) However, the successful bidder will be required to deposit the amount of performance security which is 5% of the value of the work order which is actually placed upon him.
- d) An Additional Performance Security shall also be taken from the successful bidder in case of unbalanced bid. The Additional Performance Security shall be equal to fifty percent of Unbalanced Bid Amount. The Additional Performance Security shall be deposited in lump sum by the successful bidder before execution of Agreement. The Additional Performance Security shall be deposited through e-Grass, Demand Draft, Banker's Cheque, Government Securities or Bank Guarantee.
- e) The Additional Performance Security shall be refunded to the bidder after satisfactory completion of the entire work. The Additional Performance Security shall be forfeited by the Procuring Entity when work is not completed within stipulated period by the bidder.
- f) Performance security shall be furnished in any one of the following forms: -
 - a. deposit through eGRAS;
 - b. Bank Draft or Banker's Cheque of a scheduled bank;
 - c. National Savings Certificates and any other script/ instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master;
 - d. Bank guarantee/s of a scheduled bank. It shall be got verified from the issuing bank. Other conditions regarding bank guarantee shall be same as mentioned in the bidding document for bid security;
 - e. Fixed Deposit Receipt (FDR) of a scheduled bank. It shall be in the name of procuring entity on account of bidder and discharged by the bidder in advance. The procuring entity shall ensure before accepting the FDR that the bidder furnishes an undertaking from the bank to make payment/premature payment of the FDR on demand to the procuring entity without requirement of consent of the bidder concerned. In the event of forfeiture of the performance security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.
- g) Performance security furnished in the form specified in clause [a.] to [d.] of (c) above shall remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder, including warranty obligations and maintenance and defect liability period.
- h) Forfeiture of Performance Security Deposit: Security amount in full or part may be forfeited, including interest, if any, in the following cases:-
 - a. When terms and condition of the contract is breached.
 - b. When the bidder fails to make complete supply satisfactorily.
 - c. if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- i) Notice will be given to the bidder with reasonable time before PSD deposited is forfeited.
- j) No interest shall be payable on the PSD.

29) Confidentiality

- a) Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to: -
 - a. impede enforcement of any law;

- b. affect the security or strategic interests of India;
- c. affect the intellectual property rights or legitimate commercial interests of bidders;
- d. affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
- b) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorised to have access to such information.
- c) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
- d) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

30) Cancellation of procurement process

- a) If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
- b) A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it -
 - a. at any time prior to the acceptance of the successful Bid; or
 - b. after the successful Bid is accepted in accordance with (d) and (e) below.
- c) The procuring entity shall not open any bids or proposals after taking a decision to cancel the procurement and shall return such unopened bids or proposals.
- d) The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all bidders that participated in the procurement process.
- e) If the bidder who's Bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- f) If a bidder is convicted of any offence under the Act, the procuring entity may: -
 - a. cancel the relevant procurement process if the Bid of the convicted bidder has been declared as successful but no procurement contract has been entered into;
 - b. rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted bidder.

31) Code of Integrity for Bidders

- a) No person participating in a procurement process shall act in contravention of the code of integrity prescribed by the State Government.
- b) The code of integrity include provisions for: -
 - a. Prohibiting
 - i. any offer, solicitation or acceptance of any bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
 - ii. any omission, including a misrepresentation that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;

- iii. any collusion, bid rigging or anti-competitive behaviour to impair the transparency, fairness and progress of the procurement process;
- iv. improper use of information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process or for personal gain;
- v. any financial or business transactions between the bidder and any officer or employee of the procuring entity;
- vi. 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;
- vii. any obstruction of any investigation or audit of a procurement process;
- b. disclosure of conflict of interest;
- c. disclosure by the bidder of any previous transgressions with any entity in India or any other country during the last three years or of any debarment by any other procuring entity.
- c) Without prejudice to the provisions below, in case of any breach of the code of integrity by a bidder or prospective bidder, as the case may be, the procuring entity may take appropriate measures including: -
 - a. exclusion of the bidder from the procurement process;
 - b. calling-off of pre-contract negotiations and forfeiture or encashment of bid security;
 - c. forfeiture or encashment of any other security or bond relating to the procurement;
 - d. recovery of payments made by the procuring entity along with interest thereon at bank rate;
 - e. cancellation of the relevant contract and recovery of compensation for loss incurred by the procuring entity;
 - f. debarment of the bidder from participation in future procurements of the procuring entity for a period not exceeding three years.

32) Interference with Procurement Process

A bidder, who: -

- a) withdraws from the procurement process after opening of financial bids;
- b) withdraws from the procurement process after being declared the successful bidder;
- c) fails to enter into procurement contract after being declared the successful bidder;
- d) fails to provide performance security or any other document or security required in terms of the bidding documents after being declared the successful bidder, without valid grounds, shall, in addition to the recourse available in the bidding document or the contract, be punished with fine which may extend to fifty lakh rupees or ten per cent of the assessed value of procurement, whichever is less.

33) Appeals

- a) Subject to "Appeal not to lie in certain cases" below, 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 guidelines issued thereunder, he may file an appeal to such officer of the procuring entity, as may be designated by it for the purpose, within a period of 10 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:
 - a. Provided that after the declaration of a bidder as successful in terms of "Award of Contract", the appeal may be filed only by a bidder who has participated in procurement proceedings;
 - b. Provided further that in case a procuring entity evaluates the technical Bid before the opening of the financial Bid, an appeal related to the matter of financial Bid may be filed only by a bidder whose technical Bid is found to be acceptable.

- b) The officer to whom an appeal is filed under (a) above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal.
- c) If the officer designated under (a) above fails to dispose of the appeal filed under that sub-section within the period specified in (c) above, or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to an officer or authority designated by the State Government in this behalf within 15 days from the expiry of the period specified in (c) above or of the date of receipt of the order passed under (b) above, as the case may be.
- d) The officer or authority to which an appeal is filed under (c) above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal:
- e) The officer or authority to which an appeal may be filed under (a) or (d) above shall be :
 - a. First Appellate Authority: Comissioner IT&C, GoR
 - b. Second Appellate Authority: Secretary (Budget), Finance Department, GoR
- f) Form of Appeal:
 - a. Every appeal under (a) and (c) above shall be as per Annexure-15 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.
- g) Fee for Appeal: Fee for filing 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 a Scheduled Bank payable in the name of Appellate Authority concerned.
- h) 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
 - ii. 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 (c) shall also be placed on the State Public Procurement Portal.
- i) No information which would impair the protection of essential security interests of India, or impede the enforcement of law or fair competition, or prejudice the legitimate commercial interests of the bidder or the procuring entity, shall be disclosed in a proceeding under an appeal.

34) Stay of procurement proceedings

While hearing of an appeal, the officer or authority hearing the appeal may, on an application made in this behalf and after affording a reasonable opportunity of hearing to the parties

concerned, stay the procurement proceedings pending disposal of the appeal, if he, or it, is satisfied that failure to do so is likely to lead to miscarriage of justice.

35) Vexatious Appeals & Complaints

Whoever intentionally files any vexatious, frivolous or malicious appeal or complaint under the "The Rajasthan Transparency Public Procurement Act 2012", with the intention of delaying or defeating any procurement or causing loss to any procuring entity or any other bidder, shall be punished with fine which may extend to twenty lakh rupees or five per cent of the value of procurement, whichever is less.

36) Offences by Firms/ Companies

- a) Where an offence under "The Rajasthan Transparency Public Procurement Act 2012" has been committed by a company, every person who at the time the offence was committed was in charge of and was responsible to the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of having committed the offence and shall be liable to be proceeded against and punished accordingly:
Provided that nothing contained in this sub-section shall render any such person liable for any punishment if he proves that the offence was committed without his knowledge or that he had exercised all due diligence to prevent the commission of such offence.
- b) Notwithstanding anything contained in (a) above, where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of or is attributable to any neglect on the part of any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of having committed such offence and shall be liable to be proceeded against and punished accordingly.
- c) For the purpose of this section-
 - a. "company" means a body corporate and includes a limited liability partnership, firm, registered society or co- operative society, trust or other association of individuals; and
 - b. "director" in relation to a limited liability partnership or firm, means a partner in the firm.
- d) Abetment of certain offenses: Whoever abets an offence punishable under this Act, whether or not that offence is committed in consequence of that abetment, shall be punished with the punishment provided for the offence.

37) Debarment from Bidding

- a) A bidder shall be debarred by the State Government if he has been convicted of an offence
 - a. under the Prevention of Corruption Act, 1988 (Central Act No. 49 of 1988); or
 - b. under the Indian Penal Code, 1860 (Central Act No. 45 of 1860) or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- b) A bidder debarred under (a) above shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date on which he was debarred.
- c) If a procuring entity finds that a bidder has breached the code of integrity prescribed in terms of "Code of Integrity for bidders" above, it may debar the bidder for a period not exceeding three years.
- d) Where the entire bid security or the entire performance security or any substitute thereof, as the case may be, of a bidder has been forfeited by a procuring entity in respect of any procurement process or procurement contract, the bidder may be debarred from participating in

any procurement process undertaken by the procuring entity for a period not exceeding three years.

- e) The State Government or a procuring entity, as the case may be, shall not debar a bidder under this section unless such bidder has been given a reasonable opportunity of being heard.

38) Monitoring of Contract

- a) An officer or a committee of officers named Contract Monitoring Committee (CMC) may be nominated by procuring entity to monitor the progress of the contract during its delivery period.
- b) During the delivery period the CMC shall keep a watch on the progress of the contract and shall ensure that quantity of goods and service delivery is in proportion to the total delivery period given, if it is a severable contract, in which the delivery of the goods and service is to be obtained continuously or is batched. If the entire quantity of goods and service is to be delivered in the form of completed work or entire contract like fabrication work, the process of completion of work may be watched and inspections of the selected bidder's premises where the work is being completed may be inspected.
- c) If delay in delivery of goods and service is observed a performance notice would be given to the selected bidder to speed up the delivery.
- d) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the procuring entity and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- e) No new partner/ partners shall be accepted in the firm by the selected bidder in respect of the contract unless he/ they agree to abide by all its terms, conditions and deposits with the procuring entity through a written agreement to this effect. The bidder's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- f) The selected bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of procuring entity.

39) Stamp Duty

Stamp duty applicable as per the provision of Rajasthan Stamp Act, 1998 and the latest Notification of Finance Department, Government of Rajasthan.

5. GENERAL TERMS AND CONDITIONS OF TENDER & CONTRACT

Bidders should read these conditions carefully and comply strictly while sending their bids.

Definitions

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them: -

- a) "Contract" means the Agreement entered into between the Purchaser and the successful/ selected bidder, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- b) "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- c) "Contract Price" means the price payable to the successful/ selected bidder as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- d) "Day" means a calendar day.
- e) "Delivery" means the transfer of the Goods from the successful/ selected bidder to the Purchaser in accordance with the terms and conditions set forth in the Contract.

- f) "Completion" means the fulfilment of the related services by the successful/ selected bidder in accordance with the terms and conditions set forth in the Contract.
- g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the successful/ selected bidder is required to supply to the Purchaser under the Contract.
- h) "Purchaser" means the entity purchasing the Goods and related services, as specified in the bidding document.
- i) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the successful/ selected bidder under the Contract.
- j) "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the related services is subcontracted by the successful/ selected bidder.
- k) "Supplier/ Successful or Selected bidder" means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the successful/ selected bidder.
- l) "The Site," where applicable, means the designated project place(s) named in the bidding document.

Note: The bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied and related services to be rendered. If the bidder has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before submitting the Bid and signing the contract refer the same to the procuring entity and get clarifications.

1) Contract Documents

Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

2) Interpretation

- a) If the context so requires it, singular means plural and vice versa.
- b) Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier/ Selected bidder and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- c) Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.
- d) Non-waiver: Subject to the condition (f) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- e) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

- f) Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

3) Language

- a) The Contract as well as all correspondence and documents relating to the Contract exchanged by the successful/ selected bidder and the Purchaser, shall be written in English language only. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- b) The successful/ selected bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

4) Joint Venture, Consortium or Association

- a) Unless otherwise specified in the special conditions of the contract, if the Supplier/ Bidder is a joint venture, consortium, or association, all of the parties Shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the contract and Shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association.
- b) The composition or the constitution of the joint venture, consortium, or association Shall not be altered without the prior consent of the purchaser.
- c) Any change in the constitution of the firm, etc. Shall be notified forth with by the contractor in writing to the purchase officer and such change Shall not relieve any former member of the firm, etc., from any liability under the contract.
- d) No new partner/ partners Shall be accepted in the firm by the contractor in respect of the contract unless he/they agree to abide by all its terms, conditions and deposits with the purchase officer a written agreement to this effect. The contractor's receipt for acknowledgement or that of any partners subsequently accepted as above Shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- e) No new consortium agreement Shall be allowed during the project period.
- f) In Consortium, all the members Shall be equally responsible to complete the project as per their roles & responsibilities; however, Lead partner Shall give an undertaking for the successful completion of the overall project. In case of any issues, Lead partner is the responsible person for all the penalties.
- g) The lead bidder and consortium partner is jointly and severely liable for the entire scope of work and risks involved thereof.
- h) The non-lead bidder (consortium partner) is liable for the scope of work for which they are responsible along with the lead bidder.
- i) Any change in the consortium at a later date will not be allowed without prior permission from the tendering authority/ purchaser.

5) Eligible Goods and Related Services

- a) For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.
- b) All articles/ goods being bid, other than those marked in the Bill of Material (BoM) should be the ones which are produced in volume and are used by a large number of users in India/ abroad. All

products quoted by the successful/ selected bidder must be associated with specific make and model number, item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the bidder/ supplier. Also, the bidder is to quote/ propose only one make/ model against the respective item.

- c) Bidder must quote products in accordance with above clause "Eligible goods and related services".

6) Notices

- a) Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the contract. The term "in writing" means communicated in written form with proof of dispatch and receipt.
- b) A Notice shall be effective when delivered or on the Notice's effective date, whichever is later.

7) Governing Law

The Contract shall be governed by and interpreted in accordance with the laws of the Rajasthan State/ the Country (India), unless otherwise specified in the contract.

8) Scope of Supply

- a) Subject to the provisions in the bidding document and contract, the goods and related services to be supplied shall be as specified in the work order.
- b) Unless otherwise stipulated in the Contract, the scope of supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of the goods and related services as if such items were expressly mentioned in the Contract.
- c) The bidder shall not quote and supply hardware/ software that is likely to be declared as End of Sale in next 6 months and End of Service/ Support for a period of 5 Years from the last date of bid submission. OEMs are required to mention this in the MAF for all the quoted hardware/ software. If any of the hardware/ software is found to be declared as End of Sale/ Service/ Support, then the bidder shall replace all such hardware/ software with the latest ones having equivalent or higher specifications without any financial obligation to the purchaser.

9) Delivery & Installation

- a) Subject to the conditions of the contract, the delivery of the goods and completion of the related services shall be in accordance with the delivery and completion schedule specified in the work order. Bidder(s) shall be asked to supply the items across the State of Rajasthan and the details of supply/ shipping and exact locations where the items needs to be supplied shall be specified in the work order.
- b) The contract for the supply can be repudiated at any time by the purchase officer, if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and recording the reasons for repudiation.
- c) The Selected Bidder shall arrange to supply, install and commission the ordered materials/ system as per specifications within the specified delivery/ completion period at various departments and/ or their offices/ locations mentioned in the PO/ WO.
- d) Shifting the place of Installation: The user will be free to shift the place of installation within the same city /town/ district/ division except pole/tower. The successful/ selected bidder shall provide all assistance, except transportation, in shifting of the equipment. However, if the city/town is changed, additional charges of assistance in shifting and providing maintenance services for remaining period would be decided mutually.

10) Supplier's/ Selected Bidder's Responsibilities

The Supplier/ Selected Bidder shall supply all the goods and related services included in the scope of supply in accordance with the provisions of work order and/ or contract for execution of work order.

11) Purchaser's Responsibilities

- a) Whenever the supply of goods and related services requires that the Supplier/ Selected Bidder obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier/ Selected Bidder, make its best effort to assist the Supplier/ Selected Bidder in complying with such requirements in a timely and expeditious manner.
- b) The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the general and special conditions of the contract.

12) Rate Contract Price

- a) The rate Contract Price shall be paid as specified in the contract subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract.
- b) Prices charged by the Supplier/ Selected Bidder for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier/ Selected Bidder in its bid, with the exception of any price adjustments authorized in the special conditions of the contract.
- c) The rate quoted by the bidder for each item mentioned in the tender shall remain valid for Two years and may be extended by 3 months on mutual acceptance on same terms and conditions subject to price fall clause.

13) Recoveries from Supplier/ Selected Bidder

- a) Recovery of liquidated damages, short supply, breakage, rejected articles shall be made ordinarily from bills.
- b) The Purchase Officer shall withhold amount to the extent of short supply, broken/ damaged or for rejected articles unless these are replaced satisfactorily. In case of failure to withhold the amount, it shall be recovered from his dues and performance security deposit available with RISL.
- c) The balance, if any, shall be demanded from the Supplier/ Selected Bidder and when recovery is not possible, the Purchase Officer shall take recourse to law in force.

14) Taxes & Duties

- a) The TDS, GST etc., if applicable, shall be deducted at source/ paid by RISL as per prevailing rates.
- b) For goods supplied from outside India, the successful/ selected bidder shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- c) For goods supplied from within India, the successful/ selected bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- d) If any tax exemptions, reductions, allowances or privileges may be available to the successful/ selected bidder in India, the Purchaser shall use its best efforts to enable the successful/ selected bidder to benefit from any such tax savings to the maximum allowable extent.

15) Copyright

The copyright in all drawings, design documents, source code and other materials containing data and information furnished to the Purchaser by the Supplier/ Selected Bidder herein shall remain vested in the Supplier/ Selected Bidder, or, if they are furnished to the Purchaser directly or through the

Supplier/ Selected Bidder by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

16) Confidential Information

- a) The Purchaser and the Supplier/ Selected Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any drawings, documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.
- b) The Supplier/ Selected Bidder may furnish to its Subcontractor, if permitted, such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier/ Selected Bidder shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier/ Selected Bidder.
- c) The Purchaser shall not use such documents, data, and other information received from the Supplier/ Selected Bidder for any purposes unrelated to the Contract. Similarly, the Supplier/ Selected Bidder shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- d) The obligation of a party under sub-clauses above, however, shall not apply to information that: -
 - i. the Purchaser or Supplier/ Selected Bidder need to share with user department or RISL or other institutions participating in the Contract;
 - ii. now or hereafter enters the public domain through no fault of that party;
 - iii. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - iv. otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- e) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the supply or any part thereof.
- f) The provisions of this clause shall survive completion or termination, for whatever reason, of the Contract.

17) Sub-contracting

- a) The bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of Purchaser/ Tendering Authority.
- b) If permitted, the selected bidder shall notify the Purchaser, in writing, of all subcontracts awarded under the Contract, if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier/ Selected Bidder from any of its obligations, duties, responsibilities, or liability under the Contract.
- c) Subcontractors, if permitted, shall comply with the provisions of bidding document and/ or contract.

18) Specifications and Standards

- a) All articles supplied shall strictly conform to the specifications, trademark laid down in the bidding document and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conforms to the specifications shall be final and binding on the supplier/ selected bidder.

- b) Technical Specifications and Drawings
 - i. The Supplier/ Selected Bidder shall ensure that the goods and related services comply with the technical specifications and other provisions of the Contract.
 - ii. The Supplier/ Selected Bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
 - iii. The goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.
- c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the bidding document. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with the general conditions of the contract.
- d) The supplier/ selected bidder must certify that all the goods are new, unused, and of the agreed make and models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- e) The supplier/ selected bidder should further warrant that the Goods shall be free from defects arising from any act or omission of the supplier/ selected bidder or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the place of final destination.

19) Packing and Documents

- a) The Supplier/ Selected Bidder shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- b) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the contract, and in any other instructions ordered by the Purchaser.

20) Insurance

- a) The Goods supplied under the Contract shall be fully insured against loss by theft, destruction or damage incidental to manufacture or acquisition, transportation, storage, fire, flood, under exposure to weather and delivery at the designated project locations, in accordance with the applicable terms. The insurance charges will be borne by the supplier and Purchaser will not be required to pay such charges if incurred.
- b) The goods will be delivered at the FOR destination in perfect condition.
- c) Successful bidder shall be responsible during entire contract period to take care of any loss or injury due to accident caused by any equipment installed on pole/tower by the successful bidder and shall be solely responsible for paying all kinds of compensation and damages due to loss of life or property and would be responsible for any civil or criminal case arising there from.

21) Transportation

- a) The supplier/ selected bidder shall be responsible for transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.
- b) All goods must be sent freight paid through Railways or goods transport. If goods are sent freight to pay, the freight together with departmental charge @5% of the freight will be recovered from the supplier's/ selected bidder's bill.

22) Inspection

- a) The supplier/selected bidder shall furnish details like make, model, drawings etc. of all items purchased in this tender to the tendering authority before supply and may only supply items after taking approval for the same.
- b) The Purchase Officer or his duly authorized representative shall at all reasonable time have access to the supplier's/ selected bidder's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided.
- c) The supplier/ selected bidder shall furnish complete address of the premises of his factory, office, go-down and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose.
- d) After successful inspection, it will be supplier's/ selected bidder's responsibility to dispatch and install the equipment at respective locations without any financial liability to the Purchaser. However, supplies when received at respective locations shall be subject to inspection to ensure whether they conform to the specification.

23) Samples

- a) When notified by the Purchaser to the supplier/ bidder/ selected bidder, Bids for articles/ goods marked in the BoM shall be accompanied by four sets of samples of the articles quoted properly packed. Such samples if submitted personally will be received in the office. A receipt will be given for each sample by the officer receiving the samples. Samples if sent by train, etc., should be despatched freight paid and the R/R or G.R. should be sent under a separate registered cover. Samples for catering/ food items should be given in a plastic box or in polythene bags at the cost of the bidder.
- b) Each sample shall be marked suitably either by written on the sample or on a slip of durable paper securely fastened to the sample, the name of the bidder and serial number of the item, of which it is a sample in the schedule.
- c) Approved samples would be retained free of cost upto the period of six months after the expiry of the contract. RISL shall not be responsible for any damage, wear and tear or loss during testing, examination, etc., during the period these samples are retained. The Samples shall be collected by the supplier/ bidder/ selected bidder on the expiry of stipulated period. RISL shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by RISL and no claim for their cost, etc., shall be entertained.
- d) Samples not approved shall be collected by the unsuccessful bidder. RISL will not be responsible for any damage, wear and tear, or loss during testing, examination, etc., during the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost, etc., shall be entertained.
- e) Supplies when received may be subject to inspection to ensure whether they conform to the specifications or with the approved samples. Where necessary or prescribed or practical, tests

shall be carried out in Government laboratories, reputed testing house like STQC (ETDC) and the like and the supplies will be accepted only when the articles conform to the standard of prescribed specifications as a result of such tests.

- f) The supplier/ selected bidder shall at its own expense and at no cost to the Purchaser carry out all such tests and/ or inspections of the Goods and Related Services as are specified in the bidding document.

24) Drawl of Samples

In case of tests, wherever feasible, samples shall be drawn in four sets in the presence of supplier/ bidder/ selected bidder or his authorised representative and properly sealed in their presence. Once such set shall be given to them, one or two will be sent to the laboratories and/ or testing house and the third or fourth will be retained in the office for reference and record.

25) Rejection

- a) Articles not approved during inspection or testing shall be rejected and will have to be replaced by the selected bidder at his own cost within the time fixed by the Purchase Officer.
- b) If, however, due to exigencies of user department work, such replacement either in whole or in part, is not considered feasible, the Purchase Officer after giving an opportunity to the selected bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
- c) The rejected articles shall be removed by the supplier/ bidder/ selected bidder within 15 days of intimation of rejection, after which Purchase Officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the selected bidder's risk and on his account.

26) Extension in Delivery Period and Liquidated Damages (LD)

- a) Except as provided under clause "Force Majeure", if the supplier/ selected bidder fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in (d) below for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the bidding document and/ or contract. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to clause "Termination".
- b) The time specified for delivery in the bidding document shall be deemed to be the essence of the contract and the supplier/ selected bidder shall arrange goods supply and related services within the specified period.
- c) Delivery and installation/ completion period may be extended with or without liquidated damages, if the delay in the supply of goods or service is on account of hindrances beyond the control of the supplier/ selected bidder.
 - i. The supplier/ selected bidder shall request in writing to the Purchaser giving reasons for extending the delivery period of service, if he finds himself unable to complete the supply of goods or service within the stipulated delivery period or is unable to maintain prorate progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and service after which such request shall not be entertained.
 - ii. The Purchaser shall examine the justification of causes of hindrance in the delivery of goods and service and the period of delay occurred due to that and recommend the competent

- authority on the period of extension which should be granted with or without liquidated damages.
- iii. Normally, extension in delivery period of goods and service in following circumstances may be considered without liquidated damages:
 - a. When delay has occurred due to delay in supply of drawings, designs, plans etc. if the user department or RISL was required to supply them to the supplier of goods or service provider as per terms of the contract.
 - b. When delay has occurred in supply of materials etc. if these were required to be supplied to the supplier or service provider by the RISL as per terms of the contract.
 - iv. If the competent authority agrees to extend the delivery period/ schedule, an amendment to the contract with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.
 - v. It shall be at the discretion of the concerned authority to accept or not to accept the supply of goods and/ or services rendered by the contractor after the expiry of the stipulated delivery period, if no formal extension in delivery period has been applied and granted. The competent authority shall have right to cancel the contract with respect to undelivered goods and/ or service.
 - vi. If user department or RISL is in need of the good and/ or service rendered after expiry of the stipulated delivery period, it may accept the services and issue a letter of extension in delivery period with usual liquidated damages and denial clauses to regularize the transaction.
- d) In case of extension in the delivery and/ or installation/ completion/ commissioning period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of goods and/ or service which the supplier/ selected bidder has failed to supply/ install/ complete :-

No.	Condition	LD %*
a.	Delay up to one fourth period of the prescribed period as per scope of work and deliverable	2.5 %
b.	Delay exceeding one fourth but not exceeding half as per scope of work and deliverable	5.0 %
c.	Delay exceeding half but not exceeding three fourth as per scope of work and deliverable	7.5 %
d.	Delay exceeding three fourth of the prescribed period as per scope of work and deliverable	10.0 %

- i. Fraction of a day in reckoning period of delay in supplies, successful installation and completion of work shall be eliminated, if it is less than half a day.
- ii. The maximum amount of liquidated damages shall be 10% of the work order value.
- iii. *The percentage refers to the payment due for the associated works/ goods/ service.

27) Authenticity of Equipment

- a) The selected bidder shall certify (as per Annexure-9) that the supplied goods are brand new, genuine/ authentic, not refurbished, conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- b) If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Officer in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to

reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods will be at the selected bidder's risk and all the provisions relating to rejection of goods etc., shall apply. The selected bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Purchase Officer, otherwise the selected bidder shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Purchase Officer in that behalf under this contract or otherwise.

- c) Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of the this clause of the contract.

28) Warranty

- a) The bidder must supply all items with warranty as mentioned in respective technical specifications of Annexure-2 after the goods, or any portion thereof as the case may be, have been delivered to, installed and accepted at the final destination(s) indicated in the work order/bidding document. However, if delay of installation is more than a month's time due to the reasons ascribed to the bidder, the warranty shall start from the date of last successful installation of the items covered under the PO.
- b) At the time of goods delivery, the selected bidder shall submit a certificate/ undertaking from all the respective OEMs mentioning the fact that the goods supplied are covered under comprehensive warranty & support for the prescribed period.
- c) The purchaser shall give a written notice to the selected bidder stating the nature of any defect together with all available evidence thereof, promptly following the discovery thereof. The purchaser shall afford all reasonable opportunity for the selected bidder to inspect such defects. Upon receipt of such notice, the selected bidder shall expeditiously cause to repair the defective goods or parts thereof or replace the defective goods or parts thereof with brand new genuine/ authentic ones having similar or higher specifications from the respective OEM, at no cost to the Purchaser. Any goods repaired or replaced by the selected bidder shall be delivered at the respective location without any additional costs to the purchaser.
- d) If having been notified, the selected bidder fails to remedy the defect within the period specified, the purchaser may proceed to take within a reasonable period such remedial action as may be necessary, in addition to other recourses available in terms and conditions of the contract and bidding document.
- e) During the warranty period, the bidder shall also be responsible to ensure adequate and timely availability of spare parts needed for repairing/replacement of the supplied goods.
- f) The warranty on supplied software media, if any, should be at least 90 days.

29) Patent Indemnity

- a) The supplier/ selected bidder shall, subject to the Purchaser's compliance with sub-clause (b) below, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: -
 - i. the installation of the Goods by the supplier/ selected bidder or the use of the Goods in the country where the Site is located; and
 - ii. the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in

association or combination with any other equipment, plant, or materials not supplied by the supplier/ selected bidder, pursuant to the Contract.

- b) If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to above, the Purchaser shall promptly give the supplier/ selected bidder a notice thereof, and the supplier/ selected bidder may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- c) If the supplier/ selected bidder fails to notify the Purchaser within thirty (30) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- d) The Purchaser shall, at the supplier's/ selected bidder's request, afford all available assistance to the supplier/ selected bidder in conducting such proceedings or claim, and shall be reimbursed by the supplier/ selected bidder for all reasonable expenses incurred in so doing.
- e) The Purchaser shall indemnify and hold harmless the supplier/ selected bidder and its employees, officers, and Subcontractors (if any) from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the supplier/ selected bidder may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

30) Limitation of Liability

- a) Neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier/ selected bidder to pay liquidated damages to the Purchaser; and
- b) The aggregate liability of the supplier/ selected bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the total contract value/amount/charges paid to the Supplier/ selected bidder until the time such claim was brought about, provided that this limitation shall not apply; i) to any obligation of the supplier/ selected bidder to indemnify the Purchaser with respect to patent infringement, and ii) any damages payable due to the Gross Negligence or Wilful Misconduct of the Supplier/selected bidder. For the purpose of this clause, Gross Negligence or Wilful Misconduct shall mean;

"Gross Negligence" means any act or failure to act by a Party which was in reckless disregard of or gross indifference to the obligations of the Party under the Contract and which causes harmful consequences to life, personal safety or real property of the other Party which such Party knew, or would have known if it was acting as a reasonable person, would result from such act or failure to act. Notwithstanding the foregoing, Gross Negligence shall not include any action taken in good faith for the safeguard of life or property or a mistake made in good faith.

"Wilful Misconduct" means an intentional disregard of any provision of this Contract which a Party knew or should have known if it was acting as a reasonable person, would result in harmful consequences to life, personal safety or real property of the other Party but shall not include any error of judgment or mistake made in good faith.

The above provision does not limit either Parties rights provided under applicable laws of Govt. of India.

31) Force Majeure

- a) The supplier/ selected bidder shall not be liable for forfeiture of its PSD, LD, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- b) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the supplier/ selected bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the supplier/ selected bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c) If a Force Majeure situation arises, the supplier/ selected bidder shall promptly notify the RISL in writing of such conditions and cause thereof within 15 days of occurrence of such event. Unless otherwise directed by RISL, the supplier/ selected bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- d) If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party at its option may terminate the contract without any financial repercussion on either side.
- e) In case a Force Majeure situation occurs with the user department or RISL, the user department or RISL may take the case with the supplier/ selected bidder on similar lines.

32) Change Orders and Contract Amendments

- a) The Purchaser may at any time order the supplier/ selected bidder through Notice in accordance with clause "Notices" above, to make changes within the general scope of the Contract in any one or more of the following: -
 - i. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
 - ii. the method of shipment or packing;
 - iii. the place of delivery; and
 - iv. the related services to be provided by the supplier/ selected bidder.
- b) If any such change causes an increase or decrease in the cost of, or the time required for, the supplier's/ selected bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly should be amended. Any claims by the supplier/ selected bidder for adjustment under this clause must be asserted within thirty (30) days from the date of the supplier's/ selected bidder's receipt of the Purchaser's change order.
- c) Prices to be charged by the supplier/ selected bidder for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier/ selected bidder for similar services.

33) Termination

a) Termination for Default

- i. The tender sanctioning authority of RISL may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier/ selected bidder, terminate the contract in whole or in part: -
 - a. If the supplier/ selected bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by RISL; or
 - b. If the supplier/ selected bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or

- c. If the supplier/ selected bidder, in the judgement of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
- d. If the supplier/ selected bidder commits breach of any condition of the contract.
- ii. If RISL terminates the contract in whole or in part, amount of PSD may be forfeited.
- iii. Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.

b) Termination for Insolvency

RISL may at any time terminate the Contract by giving a written notice of at least 30 days to the supplier/ selected bidder, if the supplier/ selected bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier/ selected bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to RISL.

c) Termination for Convenience

- i. RISL, by a written notice of at least 30 days sent to the supplier/ selected bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the supplier/ selected bidder under the Contract is terminated, and the date upon which such termination becomes effective.
- ii. Depending on merits of the case the supplier/ selected bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
- iii. The Goods that are complete and ready for shipment within twenty-eight (28) days after the supplier's/ selected bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - a. To have any portion completed and delivered at the Contract terms and prices; and/or
 - b. To cancel the remainder and pay to the supplier/ selected bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier/ selected bidder.

34) Exit Management

a) Preamble

- i. The word 'parties' include the procuring entity and the selected bidder.
- ii. This Schedule sets out the provisions, which will apply on expiry or termination of the Project Implementation and Operations and Management of SLA.
- iii. In the case of termination of the Project Implementation and/ or Operation and Management SLA due to illegality, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.
- iv. The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule.

b) Transfer of Assets

- i. The selected bidder may continue work on the assets for the duration of the exit management period which may be a six months period from the date of expiry or termination of the agreement, if required by RISL to do so. During this period, the selected bidder will transfer all the assets in good working condition and as per the

specifications of the bidding document including the ones being upgraded to the department/ designated agency. The security deposit/ performance security submitted by selected bidder will only be returned after the successful transfer of the entire project including its infrastructure.

- ii. The selected bidder, if not already done, will transfer all the Software Licenses under the name of the department as desired by the procuring entity during the exit management period.
- iii. RISL during the project implementation phase and the operation and management phase shall be entitled to serve notice in writing to the selected bidder at any time during the exit management period requiring the selected bidder to provide DoIT&C or its nominated agencies with a complete and up-to-date list of the assets within 30 days of such notice.
- iv. Upon service of a notice, as mentioned above, the following provisions shall apply: -
 - a. In the event, if the assets which to be transferred to RISL mortgaged to any financial institutions by the selected bidder, the selected bidder shall ensure that all such liens and liabilities have been cleared beyond any doubt, prior to such transfer. All documents regarding the discharge of such lien and liabilities shall be furnished to RISL or its nominated agencies.
 - b. All title of the assets to be transferred to RISL or its nominated agencies pursuant to clause(s) above shall be transferred on the last day of the exit management period. All expenses occurred during transfer of assets shall be borne by the selected bidder.
 - c. That on the expiry of this clause, the selected bidder and any individual assigned for the performance of the services under this clause shall handover or cause to be handed over all confidential information and all other related material in its possession, including the entire established infrastructure supplied by selected bidder to RISL.
 - d. That the products and technology delivered to RISL during the contract term or on expiry of the contract duration should not be sold or re-used or copied or transferred by selected bidder to other locations apart from the locations mentioned in the this bidding document without prior written notice and approval of RISL. Supplied hardware, software & documents etc., used by selected bidder for RISL shall be the legal properties of RISL.
- c) Cooperation and Provision of Information during the exit management period
 - i. The selected bidder will allow RISL or its nominated agencies access to the information reasonably required to define the current mode of operation associated with the provision of the services to enable RISL or its nominated agencies to assess the existing services being delivered.
 - ii. The selected bidder shall provide access to copies of all information held or controlled by them which they have prepared or maintained in accordance with the Project Implementation, the Operation and Management SLA and SOWs relating to any material aspect of the services provided by the selected bidder. RISL or its nominated agencies shall be entitled to copy all such information comprising of details pertaining to the services rendered and other performance data. The selected bidder shall permit RISL or its nominated agencies and/ or any replacement operator to have reasonable access to its employees and facilities as reasonably required by RISL or its nominated agencies to understand the methods of delivery of the services employed by the selected bidder and to assist appropriate knowledge transfer.
- d) Confidential Information, Security and Data

The selected bidder will promptly on the commencement of the exit management period supply to RISL or its nominated agencies the following:

 - i. Documentation relating to Intellectual Property Rights;
 - ii. Project related data and confidential information;

- iii. All current and updated data as is reasonably required for purposes of RISL or its nominated agencies transitioning the services to its replacement selected bidder in a readily available format nominated by RISL or its nominated agencies; and
- iv. All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable RISL or its nominated agencies, or its replacement operator to carry out due diligence in order to transition the provision of the services to RISL or its nominated agencies, or its replacement operator (as the case may be).
- v. Before the expiry of the exit management period, the selected bidder shall deliver to RISL or its nominated agencies all new or up-dated materials from the categories set out above and shall not retain any copies thereof, except that the selected bidder shall be permitted to retain one copy of such materials for archival purposes only.
- e) Transfer of certain agreements
 - i. On request by Procuring entity or its nominated agencies, the selected bidder shall effect such assignments, transfers, innovations, licenses and sub-licenses as Procuring entity or its nominated agencies may require in favour of procuring entity or its nominated agencies, or its replacement operator in relation to any equipment lease, maintenance or service provision agreement between selected bidder and third party leasers, operators, or operator, and which are related to the services and reasonably necessary for carrying out of the replacement services by RISL or its nominated agencies, or its replacement operator.
 - ii. Right of Access to Premises: At any time during the exit management period and for such period of time following termination or expiry of the SLA, where assets are located at the selected bidder's premises, the selected bidder will be obliged to give reasonable rights of access to (or, in the case of assets located on a third party's premises, procure reasonable rights of access to RISL or its nominated agencies, and/ or any replacement operator in order to inventory the assets.
- f) General Obligations of the selected bidder
 - i. The selected bidder shall provide all such information as may reasonably be necessary to effect as seamless during handover as practicable in the circumstances to RISL or its nominated agencies or its replacement operator and which the operator has in its possession or control at any time during the exit management period.
 - ii. The selected bidder shall commit adequate resources to comply with its obligations under this Exit Management Clause.
- g) Exit Management Plan
 - i. The selected bidder shall provide RISL or its nominated agencies with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the SLA as a whole and in relation to the Project Implementation, the Operation and Management SLA and SOWs.
 - ii. A detailed program of the transfer process that could be used in conjunction with a replacement operator including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer; and
 - iii. Plans for the communication with such of the selected bidder's, staff, suppliers, customers and any related third party as are necessary to avoid any material detrimental impact on RISL operations as a result of undertaking the transfer; and
 - iv. If applicable, proposed arrangements and Plans for provision of contingent support in terms of business continuance and hand holding during the transition period, to RISL or its nominated agencies, and Replacement Operator for a reasonable period, so that the services provided continue and do not come to a halt.

- v. The Bidder shall re-draft the Exit Management Plan annually after signing of contract to ensure that it is kept relevant and up to date.
- vi. Each Exit Management Plan shall be presented by the selected bidder to and approved by RISL or its nominated agencies.
- vii. In the event of termination or expiry of SLA, Project Implementation, Operation and Management SLA or SOWs each party shall comply with the Exit Management Plan.
- viii. During the exit management period, the selected bidder shall use its best efforts to deliver the services.
- ix. Payments during the Exit Management period shall be made in accordance with the Terms of Payment Clause.
- x. It would be the responsibility of the selected bidder to support new operator during the transition period.

35) Settlement of Disputes

All legal proceedings arising out of any dispute between both the parties regarding a contract shall be settled by a competent court having jurisdiction over the place, where agreement has been executed and by no other court.

36) Verification of Eligibility Documents by RISL

RISL reserves the right to verify all statements, information and documents submitted by the bidder in response to tender document. The bidder shall, when so required by RISL, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of verification by RISL shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of RISL thereunder. If any statement, information and document submitted by the bidder is found to be false, manipulated or forged during verification process, strict action shall be taken as per RTTP Act 2012.

6. SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT

1) Payment Terms and Schedule

As mentioned in Chapter 4, Clause 2, Project Activity, Deliverables, Timelines and payment terms.

2) Service Level Standards/ Requirements/ Agreement

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by the selected bidder to the tendering authority for the duration of this contract.

The tendering authority will regularly review the performance of the services being provided by the selected bidder and impose penalties if any deficiency is found in the services.

The SLA has been logically segregated in the following categories:

1. Central Control Room / Data centre Components Infrastructure service levels
2. Security Management service levels
3. Field Infrastructure Service Levels
4. Manpower availability service levels
5. Helpdesk Service Level

2.1 Service Level (Central Control Room / Data centre Components):

This service level will be applicable on following IT equipment's and non-IT equipment's which are part of list mentioned at Annexure-1 and additional hardware which may be deployed during the project period in command & control centre:

S. No	Service description	Measurement parameter	Target	Penalty
1.	CCC Uptime calculated for each IT and Non-IT equipment supplied by SI	Uptime of an equipment = $\{1 - [(Equipment\ downtime) * (Severity\ factor) / (Total\ Time)]\} * 100$	$\geq 99.0\%$	NA
			< 99.0 and $\geq 97.0\%$	For every 0.5% degradation in the uptime there will be a penalty of 1% of Agreed Quarterly Payment
			$< 97.0\%$	For every 0.5% degradation in the uptime there will be a penalty of 2% of the Agreed Quarterly payment
2.	Preventive Maintenance	No. of days	In last 15 days of the quarter	Rs. 1,000/- per day per equipment subject to maximum of Rs.3,000/- per equipment per quarter
3.	Application	In hrs.	≤ 4 hrs	NA
			> 4 hrs	Each 30 min. 0.5% Agreed Quarterly Payment

Note:

- For SLA calculation equipment wise downtime will be calculated and thereafter average of all equipment downtime should be less than (total time in quarter in minutes - 99.0% uptime based minute) in a quarter for non-applicability of penalty.
- Equipment/Services Downtime is the time in hours that the equipment/ Services is not available and excludes planned downtime, which are approved by the tendering authority and the link failures that are taken from third party. The downtime shall be calculated from the NMS/EMS or BMS, as may be applicable. In case, downtime of any equipment/ Services is not available on NMS/EMS/BMS, it shall be calculated from the helpdesk.
- Severity factors of each equipment's mentioned in RFP would be use for calculation.
- Total time is equal to total number of hours in the given quarter
- Planned Downtime means any time when the equipment's is unavailable because of maintenance, configuration/reconfiguration or other services with the prior approval of tendering authority/Police Department.
- Total time is equal to total number of hours in the given quarter
- No penalty would be applicable on bidder if outage or downtime occurred which are not in their scope.
- Planned Downtime means any time when the equipment's is unavailable because of maintenance, configuration/reconfiguration or other services with the prior approval of tendering authority/Police Department. Such services may include but are not limited to restarting applications, rebooting servers, applying patches or fixes, reconfiguring storage allocation, reloading data and making DNS to close security holes.

2.2 Service Level (Security Management):

This service level will be applicable for security related incidents as follows:

S. No	Service description	Measurement parameter	Target	Penalty
1.	Hardware of ITMS (Annexure-1) shall be kept free from virus attack	Resolution time for each virus attack	12 – 36 hours, as may be decided by tendering authority, depending upon the severity of the attack	Rs. 5000 for delay of every 24 hours or it's part
2.	Hardware of ITMS (Annexure-1) shall be kept free from denial of service (DoS) attack	Number of DoS attacks	Zero	Rs. 100000 per DoS attack
3	There shall be no Data theft or loss or compromise of any data hosted at ITMS (Annexure-1) hardware or application.	Number of such incident	Zero	Rs. 100000 per such incident
4	There shall be no intrusion	Number of such incidents	Zero	Rs. 50000 such incident
5	Any security incident raised in application due to installation/configuration at application level or any mis-Configuration while data sharing (APIs) developed by SI.	Severity issue 1 (where application not accessible)	4 hours, as may be decided by tendering authority, depending upon the severity of the attack	Rs. 5000 for delay of Every One Hour

- Virus Attack refers to any virus infection and passing of malicious code and shall be monitored at the gateway level or logged at the help desk system on complaint of virus infection by user.
- Denial of Service Attack refers to non-availability of any services. An incident shall be analysed and forensic evidence examined to check if the incident is due to external DoS attack.
- No Penalty would be applicable on bidder if security incident resolution doesn't come in their scope however timely reporting to respective stakeholders would be bidder's scope
- Security best practices in handling hardware mentioned in Annexure-1 would be bidder's scope and raised incident in mishandling would count bidder's scope which would attract penalty as per above.
- Intrusion refers to unauthorized access to networks, systems, services, applications or data, protecting email gateways, servers, desktops

2.3 Service Level (Field):

For all items mentioned in Bill of Material

Sr. No.	Time to resolve complaint after lodging the complaint	Penalty (In Rs.) (Per quantity of item(s) for every 24 hours passed
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		after expiry of 24 hours of lodging the complaint)
Equipment's (Mobile SVDS System, 4K Camera, ECB, Variable Message Sign, Speed/RLVD cameras, DCPS, NVR, Access switch & LAN)		
1.	Within 24 hours of lodging the complaint	No penalty
2.	> 24 hours of lodging the complaint	1000/-
A. Pole, Gantry, Electric Cabling		
3.	Within 48 hours of lodging the complaint	No penalty
4.	> 48 hours of lodging the complaint	500/-

2.4 Service Level (Manpower availability):

SI appoint as many team members, as deemed fit by them, subject to the minimum manpower specified below to meet the SLA requirements. The tendering authority would not be liable to pay any additional cost for this. SI provides detailed CV of each of the resource being provided to tendering authority before deployment of the resource.

Annexure-A: Minimum Manpower Resource Table

S. No	Profile	General Shift (9:30 am to 6:00 pm)	Morning Shift (6:00 am to 2:00 pm)	Afternoon Shift (2:00 pm to 10:00 pm)	Night Shift (10:00 pm to 6:00 am)	Min. Qualification, Relevant Experience & Certifications	Penalty on non-availability of resource (Per resource perShift)
1	2	3	4	5	6	7	8
1	Project Manager	1				B.E. / B.Tech / M.Sc(IT)/MCA, 8 Years of Post Qualification Experience, at least 5 years' experience in surveillance/ Emergency project management/ Same kind of project experience/ ITMS project delivery. PMP/Prince 2 Certified	3000
2	Operation Coordinator	1				B.E./B.Tech/M.Sc(IT)/ MCA, 5 Years of Post Qualification Experience in NOC/Same kind of project experience/ITMS project at least 2 years experience in surveillance/ITMS or emergency project.	2000

3	Server cum storage Administrator	1			1	B.E. / BCA / B.Tech / M.Sc(IT)/ MCA, 5 years' experience post qualification in server administration, Should have at least 1 year in storage administration. One OEM Certification in Server/Storage.	2000
4	ITMS Software Expert		1	1		B.E. / B.C.A /B.Tech / M.Sc(IT)/MCA, 3 Years Surveillance/ITMS Application support experience. At least 1 year experience in database.	2000
5	Help Desk cum support engineer		2	2	2	B.E. / BCA / B.Tech / M.Sc (IT)/MCA, 3 Years total experience. 2 years experience in end user support role. One year experience in any ticketing tool.	1000
6	Support Engineer (at 16 Districts)	1				B.E. / BCA / B.Tech / M.Sc (IT)/MCA, 2 Years total experience. 1 years experience in end user support role.	1000

Note:

- SI always maintain above minimum manpower on-site throughout the period of the contract.
- Every resource has to hand over his shift to other resource if there is availability of resource in next shift.
- SI need to maintain mentioned SLA for each category mentioned by all kind of means.
- The team deployment plan shall be prepared by SI periodically and shall obtain approval from OIC-SDC /tendering authority prior to its implementation.
- No resource shall be absent without prior permission of the designated authority.
- Except Project Manager and operation coordinator all roles are 24*7 as per shifts. Project Manager would work (Mon-Fri) and would be available as per client requirement. Operation coordinator would work (Mon-Sat) and would be available as per client requirement
- Except Support engineer (districts) which be deployed in respective RTO office in district remaining roles based resources would be deployed in Transport HQ in jaipur or as per instruction received from client.

Penalty on non- availability of any resource shall be as under:

S. No.	No. of absence shifts per role in a quarter	Applicable Penalty / Actions
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1.	> 0 but <= 10	No. of absence shifts x Amount defined in the "Minimum Manpower Resource Table" respectively for given role in a quarter
2.	> 10 but <=30	No. of absence shifts x 2x Amount defined in "Minimum Manpower Resource Table" respectively for given role in a quarter
3.	> 30	No. of absence shifts x 2x Amount defined in the "Minimum Manpower Resource Table" respectively for given role in a quarter And Issue of letter of warning and subsequent actions as per terms and conditions of RFP

Note: An absence of more than half an hour from the workplace, without having permission of OIC- Project shall be considered as absent for the shift

Manpower Change

The replacement of resources by bidder after deployment will be allowed (without penalty) only in case, the resource leaves the organization by submitting resignation with the present employer. In case of failure to meet the standards of the purchaser, (which includes efficiency, cooperation, discipline and performance) bidder may be asked to replace the resource without any penalty for replacement/exit.

The penalty per resource would be imposed in case of exit/replacement of resource from the project as per the details given below

Sr.	Resource Type	Applicable Penalty when resource is leaving	
		Within 1 year of DOJ	After 1 year of DOJ
1.	Manpower resources for specialized services	10 times of the penalty mentioned in column "8" of above mentioned table "Minimum Technical/ Non –Technical /OEM Manpower Resource Table for Implementation and O&M period	5 times of the penalty mentioned in " Minimum Manpower Resource Table " respectively for given role in a quarter

2.5 Help desk service levels

The service level standards under this sub section pertain to all services which (i) do not impact the uptime of the equipment mentioned in above and (ii) are not related to security related services mentioned above. If services are not available because of a virus attack

or because equipment is down, penalties under this sub section shall not be applicable. It is further clarified that in some cases breakdown of equipment may generate a service request for restoring services on equipment and non-compliance of service level for the generated service request may lead to penalties under uptime and below (applicable for CCC/DC equipments and application)

S. No	Service description	Measurement parameter	Target	Penalty
1.	Various service related to Comprehensive onsite maintenance and FMS	Resolution time measured as the time taken by the SI to troubleshoot and fix the problem. Call will be treated as logged immediately	1 hour for incident of severity level 1;	1% of the Agreed Quarterly Payment for every 30 mins (or its part) delay.
			4 hours for incident of severity level 2;	0.5% of the Agreed Quarterly Payment for every 60 mins (or its part) delay.
			8 hours for incident of severity level 3;	0.25% of the Agreed Quarterly Payment for every 120 mins (or its part) delay.

S. No	Service description	Measurement parameter	Target	Penalty
	promptly	after any incident / problem occurs / request made.		

Note:

Severity levels for some of the services are given as below. Tendering authority reserves the right to define severity levels of services not mentioned below based on the criticality of the incident occurred and level of impact/affected users.

- a) **Severity Level-1** : Denial of services outage that impacts more than one user department or application services shall come under severity level 1, however denial of services impacting critical applications or users like Hon'ble CM, the Ministers, Secretaries and other senior officials then the incident will also come under Severity level 1.

The indicative list of such incidents/ request is as given below:

- Virtualization system software failure
- Hardware (failure and not functioning) of critical application where multiple user (more than 5 users) impacted
- OS failure of machine hosting critical application or dependent services of critical application
- Active directory/ DNS/NTP failure
- Any problems related to router, switch, impacting multiple users or critical application ITMS not accessible.
- Any problems related to SAN where Hardware/application not accessible or functioning as per requirement.
- Database not responding or performing slow because of which application either not accessible or latency/lag observation.
- WAN/LAN Links down where multiple user getting impact.
- Issues related to storage solution
- Chassis/Server down
- Defacing of website
- Data breach where personal data or application gets impacted
- Security incident where data gets corrupted related to critical application ITMS.
- Critical application not working and not accessible to multiple (more than 5 users) end user.

Troubleshooting any reported problems where critical application/Hardware not accessible due to any issue.

- b) **Severity Level-2**: Denial of services/ Standard compliance causing unavailability of single application will come under severity level 2. Apart from this Spamming, Network latency will also come under severity level 2.

The indicative list of such incidents/ request is as given below:

- Recording not available (digital evidence or any specific video recording asked by client).
- Issue raised after Deploying and upgrading existing software
- Troubleshooting any reported problems where any component /feature set not working of application.
- Cluster running on single server

- The monitoring, error isolation, escalation, and repair of problems
- Configuring load-balancing and working with networks to improve the reliability and reduce the latency of the system.
- LAN connectivity as per requirements for server/workstations
- Any critical dial 100/VMS/ITMS application performance issues
- Any hardware failure in redundant component of storage except disk.
- DBMS performance issue related index, deadlock etc,
- Restoring backup in production for incident recovery for application.
- Authentication/Authorization
- Anti virus server not functioning
- Authorization failure
- Any other issue where application functioning in fault tolerant mode and with limited feature.

c) **Severity Level-3:** Denial of services/ standard Compliance causing unavailability of services for individual will come under this severity level. Apart from this performance issues causing slow services for application should come under severity level 3. Services which do not impact user but are desirable will also come under severity level 3.

The indicative list of such incidents/ request is as given below:

- OS deployment
- Web hosting
- Patch installation
- Acting on incidents which crosses threshold (TMP/Storage space)
- Antivirus updates
- Data archival, Data restoration
- Planned Maintenance activities
- User Management
- Backup policy
- Microcode upgrades
- Monitoring SAN fabric / Storage / Backup events & respond to events crossing threshold limits
- Preliminary maintenance of datacentre equipment
- Passive cable component connecting the above equipment etc.
- Minor repairs of Physical Infrastructure components like breakage of tiles etc.
- Cleaning of SDC premises.
- Failure of Help Desk Services
- Hosting applications on servers
- Adding server in domain
- Installing and configuring new hardware and software.
- Changing group memberships for domain user
- Creating logon scripts
- Reporting server performance
- Assigning remote login permissions
- Applying operating system updates, patches, and configuration changes.
- Adding, removing, or updating user account information, resetting passwords.
- Answering technical queries and assisting users.
- Management agent lost

- Documenting the configuration of the system.
- System performance tuning.
- Creating new ftp account and urls on ftp
- Change password for ftp users
- Change ftp permissions
- User addition
- Modify user access to the database
- Generating various reports by querying from database as per need.
- Regulation and management of access rights of different users of a website
- The appearance and setting up website navigation
- Content placement
- Performing performance management, availability reporting, and other administration
- Update the inventory detail & documentation
- Update of Network connectivity and layouts
- IOS up gradation
- Work with existing programmers, DBAs to optimize storage
- Facilitate off-site storage of tape
- Availability, Reporting on status, Capacity planning of storages
- reporting storage growth
- High CPU or memory utilization
- Procedure creation on DBMS
- Table management in DBMS
- Sequence management in DBMS
- Page management for OS
- User, account and group management
- IP management
- Application migration
- BMS device servicing
- Warning alarms

Penalty Capping:

Total penalties shall not be higher than 20% of Agreed Quarterly Payment for respective quarter (consecutive 2 quarters). From 3th quarter penalty capping except manpower would be consider 30%, after that from 4th quarter penalty capping would be 50. Two consecutive quarters 50% RISL/DOIT&C could take decision on contract termination.

3) Change Requests/ Management

- a) An institutional mechanism will be set up for taking decisions regarding requests for changes. The Purchase Committee will set up a Change Control Committee with members from the procurement agency and the selected bidder. If it is unable to reach an agreement, the decision of the Purchase Committee will be final.
- b) RISL 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: -
 - ✓ Designs, specifications, requirements which software or service to be provided under the Agreement are to be specifically developed and rendered for RISL.
 - ✓ The method of deployment, shipping or packing.
 - ✓ Schedule for Installation Acceptance.
 - ✓ The place of delivery and/or the services to be provided by the bidder.

- c) The change request/ management procedure will follow the following steps: -
- ✓ 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 RISL.
 - ✓ 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 analysed and documented by the bidder.
 - ✓ Approval or disapproval of the change request – RISL will approve or disapprove the change requested including the additional payments for software development, quoted man-month rate shall be used for cost estimation, efforts of all technical resources- project manager, analyst, software developer, testing engineer, database architecture 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 specialisation, the quoted man-month rate shall be used. Efforts of support staff shall not be taken into consideration for this purpose.
 - ✓ Implementation of the change – The change will be implemented in accordance to the agreed cost, effort, and schedule by the selected bidder.
 - ✓ Verification of the change - The change will be verified by RISL on implementation of the change request.
- d) 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 RISL. In the event that the consent of RISL is not received then the change will not be carried out.
- e) While approving any change request, if required, RISL may ask the bidder to deploy the required resources on-site.
- f) 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, equitable 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 RISL change order which shall not be unreasonably withheld or delayed.

4) Price Fall Clause:

If the rate contract holder quotes / reduces its price to render similar goods, works or services at a price lower than the rate contract price to anyone in the State at any time during the currency of the rate contract, the rate contract price shall be automatically reduced with effect from the date of reducing or quoting lower price, for all delivery of the subject matter of procurement under that rate contract and the rate contract shall be amended accordingly. The firms holding parallel rate contracts shall also be given opportunity to reduce their price by notifying them the reduced price giving them fifteen days time to intimate their acceptance to the revised price. Similarly, if a parallel rate contract holding firm reduces its price during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and the original rate contract holding firm for corresponding reduction in their prices. If any rate contract holding firm does not agree to the reduced price, further transaction with it, shall not be conducted.

5) Approvals for work to be undertaken as per scope of work

Bidder has to coordinate and liaison with concerning department and local authorities for approvals and the fees will be paid by RISL as per actual on monthly basis. The following is indicative list of approvals and clearances required for executing the project and not limited to:

- i. Installation of camera
- ii. Providing electrical connection to Camera(s)

6) Non Compliance of Item

If the successful bidder fails to comply the technical specification as per RFP, after bid finalization then his Rate contract for that item may be terminated and work may be assigned to L2 bidder or vice versa.

ANNEXURE-1: BILL OF MATERIAL (BoM)-Indicative

S. No.	Item Name	Unit	Indicative Quantity (No.)	MAF (YES/NO)
1.	Speed Enforcement System with camera, display & license	UNIT	70	YES
2.	RLVD system with camera & license	UNIT	30	YES
3.	Centralized Violation Management System	LOT	1	YES
4.	Mobile SVDS (Speed violation Detection System, without vehicle) for use in Police patrol from parked or on move for speed enforcement	Nos.	25	YES
5.	4K PTZ camera incident capture	Nos.	120	YES
6.	Variable Message Sign Board	Nos.	50	YES
7.	Cantilever Pole (12 mtr.)	Nos.	50	YES
8.	Server (Physical)	Nos.	5	YES
9.	Primary Storage (400 TB)	Nos.	3	YES
10	San switch	Nos.	2	YES
11	L3 switch	Nos.	2	YES
12	Workstation with 1 monitor	Nos.	28	YES
13	Access switch (8 port)	Nos.	35	YES
14	Access switch (4 port)	Nos.	50	YES
15	NVR (4 port)	Nos.	50	YES
16	Emergency Call Box	Nos.	50	YES
17	PA System	Nos.	50	YES
18	Gantry *	Nos.	35	YES

Note*: 1. Please refer (Annexure 18) for Gantry specification and Annexure 19 for Cantilever.

2. Variable sign board (Speed) considered per Gantry 6 boards

ANNEXURE-2: TECHNICAL SPECIFICATIONS

Note: All the specifications below are minimum specifications and higher specifications shall be used wherever necessary/ required. Deviation on higher side shall only be considered and no extra weightage shall be awarded for such deviations.

Item No. 1: Speed Enforcement System using Radar with camera, display & license

S. No.	Category	Specification	Compliance Product (Yes/No)
	Make		
	Model/Product Name and Version		
1	Day and Night	System should work in day and night condition.	
2	Speed Limit	Speed limits to be measured at least 200km/hr using Radar (4D) having detection range at least 200m. Should as be as per GOI norms.	
3	Sensor frequency	76-81 GHz or As approved by government of India, ministry of communication- department of telecommunication. Sensor should have self-diagnosis feature to allow fail-safe detection capability and Detection . Should have automatic suppression of RF interference.	
4	Precision	Maximum error permissible $\pm 1\%$	
5	Integration	The system shall be integrated with existing e-challan system/RTO/NHAI database/VAHAN Database of police department/Raj Marg application and CCC application integration (as and when required).	
6	Lane Identification	System should be able to provide specific lane of the vehicle when speeding. System should provide clear image with automatic number recognition of speeding vehicle with timestamp in image	
7	Color Image	System should provide color image at least in daytime	
8	Camera Unit	<ul style="list-style-type: none"> The system can be composed of one or more cameras; to allow the perfect recognition of license plates from police officers. Cameras must be Day night and must have CMOS with 1/2" sensor or better , varifocal lenses, autoiris, shutter speed 1/1000 sec or better, resolution 2 Megapixel or better, temp range -5 to +60 C, IR Module- IR minimum 50m. distance All required accessories at site for installation of camera to be provided like power cable, CAT 6 patch cord (7 mtr. minimum) Pole Mount, Corner brackets, Connector kit, screws, etc 	

9	Processor	i. Storage and Connectivity: Minimum local storage 4 TB, with 3G/4G/5G module option availability for connectivity with centralized server. ii. RAM Minimum 16 GB RAM at least. iii. User Interface: GUI for configuration and diagnostic iv. Encryption: Security: Standard Digital signature on each violation to assure data integrity. Strong encryption on data during local storage and data transfer to back office	
10	Certification	<ul style="list-style-type: none"> • UL , CE/BIS ,FCC and RoHS for camera • Eye Safety certificate for Illuminator • Speed Test reports for the solution as per GOI. 	
11	Camera Internal Storage	Minimum 512 GB	
12	Speed test report and certificate	Need certificate from any of the following agency : 1. Automotive Research Association of India (ARAI), Pune. 2. Vehicle Research & Development Establishment (VRDE), Ahmednagar, Maharashtra 3. Central Farm Machinery Training and Testing institute , Budni, MP 4. Indian Institute Of petroleum (IIP), Dehradun 5. Central Institute Of Road Transport, Pune 6. International Centre of Automotive Technology, Manesar, Haryana 7. Northern Region Farm Machinery Training and Testing Institute, Hisar	
13	IP 67 Ratings	Test reports for IP 67 of cameras and Radar	
14	Cables and Accessories	All required power cable, adapter, data cable and etc. accessories at site for installation of system to be provided as per the solution to work.	
	Warranty	5 year OEM comprehensive warranty with necessary updates, upgrades and patches and IPv6 Compliant	
Vehicle Actuated Speed Display			
15	Features Set	The radar shall be capable for monitoring lanes (lane including hard & earthen shoulder simultaneously) and send the command to each display for displaying the real-time speed of the vehicle in each lane.	
		The speed display shall display the speed of the vehicle in real-time and provide textual or graphical warning to the vehicles exceeding the pre-set speed limit. The display shall blink continuously if the speed of vehicle is more than permissible speed limit, along with the	

		<p>message "Over-Speed – Slow down" in the first row of the display. One speed display shall be installed for each lane on both the sides of the road. Time shall be displayed at the top section of the display in HH:MM:SS (24 hour) format at all the times, even if no speed is being displayed on the VASD. The font size shall be suitable and visible from 100 meters distance. The time on all the displayed shall be synced with the central server.</p>	
		<p>a. The system shall perform during day and night as well as in adverse weather conditions.</p> <p>b. It shall have built in diagnostic functions to quickly asses the validity of speed calibration.</p> <p>c. It shall adjust display intensity automatically to suit the ambient light conditions.</p> <p>d. It shall be modular in construction for ease of maintenance.</p> <p>e. It shall display numeric speed data as well as graphical (standard IRC road warning sign) (preferably) / textual warning.</p> <p>f. Measurement:</p> <p>i. Speed range: 0.5 km/h to at least 200 km/h</p> <p>ii. Maximum Measuring errors: At least 200 km/h \pm 1 km/h, Above 200 km/ \pm 2 km/h</p> <p>Response Time: Less than < 30 milliseconds</p> <p>g. It shall have the facility to log vehicle speed of over-speeding vehicles and transfer them to the centralized control center.</p> <p>h. The speed display shall be formed using individual modules.</p> <p>i. Speed display must be constructed using corrosion resistant panel with LED pixels in row: column matrix.</p> <p>j. The Display shall show the speed in green color if the speed is within 80% of the limit for the vehicle class, orange if the speed in exceeding 80% of the speed limit and red (blinking) if speed of the vehicle exceeds the speed limit for the vehicle class.</p> <p>k. The LED Cluster shall consist of individual LED`s rated for out-door use.</p> <p>l. The board size shall be 920 mm (W) x 920 mm (H)</p> <p>m. The LED configuration shall be 3 in 1 SMD and the</p>	

		<p>pixel pitch shall be 6mm outdoor or better. Lower pixel pitch shall be considered better. The pixel density shall be more than 2500 pixels per square meters.</p> <p>n. The LED board shall have the capacity to display any content, graphics, videos, symbols, text in full matrix, with multiple font size and character height, and multiple languages.</p> <p>o. Shall support an industry standard communication interface such as TCP/IP on copper, Wi-Fi, and/or fibre optic to help setting the pre-set speed and retrieve log data.</p> <p>p. Shall maintain time stamped record (speed and vehicle image) of each case of over speeding in a log file that can be retrieved over the connected network or using a locally connected laptop.</p> <p>q. It shall optionally be possible to configure the display to send real time violation event record (speed, and time stamp) over the connected network while recording the same</p> <p>r. It shall be possible to control the brightness of displays automatically using built-in light sensors.</p> <p>s. All PCB's shall be of FR4 material, 1.6mm thick and LED matrix PCB shall be 2.4mm thick. PCBs shall be of the quality suitable for use in environment conditions specified.</p> <p>t. The equipment shall allow local diagnostics via laptop connected to its communication port.</p> <p>u. Display size shall be suitable to display both the speed of the vehicle and warning message simultaneously in two rows. w. Brightness intensity shall be 7500 cd per sq.m with option to adjust the brightness manually as well as auto brightness adjustment feature. x. Fault diagnostics shall be provided to include the following as a minimum:</p> <p>v. i. Radar Failure</p> <p>w. ii. LED Failure</p> <p>Should be IP 67 certified.</p> <p>Operating temperature : -10 to +70 degree</p>	
16	Warranty	5 Years Comprehensive onsite OEM Warranty	

Note: Unit would include 3 cameras with Radar(4D), LPU, each speed camera based display board and required licenses. Other required items for the solution/violation detection as per the requirement.

Item No. 2: RLVD system with camera & license

S. No.	Features	Description	Compliance Product (Yes/No)
	Make		
	Model/Product Name and Version		
1.	General Requirement	Traffic violations (Red light and zebra crossing) should be automatically detected by the certified and homologated system and in use with various agencies. Cameras fitted in the equipment should record a digitized image or video frames of the violation covering defined lanes on each approach arm at any point of time simultaneously with relevant data about the offence, i.e. date, time, fixed location etc. so that the complete lane wise junction behavior is recorded viz Signal Jumping, Stop Line Violation with Registration Number Plate Recognition facility). The photograph generated by the system should also include a wider view of the location indicating position of violating vehicle.	
2.	Calibration requirement	The system (Camera, software etc.) should be calibrated for accuracy prior to handing over and the successful bidder should ensure annual calibration of the system. The proposed speed detector should have self-calibration.	
3.	Position of vehicle at Intersection	The system should detect and capture the vehicle when:- ii) It violates the stop line iii) It violates the red signal The system should capture the photographic evidence of above violation clearly showing nature of violation & proof thereof. Infraction is recorded and documented dynamically including the events preceding and following the event.	
4.	Violation Evidence capturing module	The system should have violation evidence capturing module. Complete data for each infraction should be provided: data, time, location with automatic number plate detection mechanism (to recognize vehicle automatically) Violations should be available for selection from a	

S. No.	Features	Description	Compliance Product (Yes/No)
		displayed list corresponding to each location separately. The retrieval could be sorted by date, time, location and vehicle registration number.	
5.	ANPR Features	<ul style="list-style-type: none"> • The system shall support real-time detection of vehicles at the deployed locations, recording each four wheeler/three wheeler/Any other vehicle, reading its registration number plate, data base lookup from central server and triggering of alarms/alerts based on the vehicle status and category as specified by the database • Simultaneous Multi-Lane processing • The System shall store following detail into DBMS like PostgreSQL/ MySQL /MS SQL Server/ Oracle 12c database to be provided by bidder ♣ Photo of the Vehicle in JPEG format ♣ Photo of Registration number plate ♣ Registration number in text format ♣ Date and time stamp ♣ GPS Coordinates ♣ Vehicle make with classification of vehicle and color. • The Software should provide zoom function once cursor is brought over the registration number plates • The system shall be integrated with GIS maps provided by Government of Rajasthan. • On successful recognition of the registration number plate, system should be able generate automatic alarm to alert the control room for vehicles which have been marked as "Wanted", "Suspicious", "Stolen", "Expired". (System should have provision/expansion option to add more categories for future need). • The Instantaneous and automatic generation of alarms. In case of identity of vehicle in any category which is define by user. • ANPR system has detection rate of minimum 90%. ANPR system should have minimum accuracy of 85% for standard number plates. 	
6.	Color Image	The images in day time should be in color	

S. No.	Features	Description	Compliance Product (Yes/No)
7.	Technology for Red light and Stop line Detection False Detection	<p>The system shall have Red light violation capability through video based technology</p> <ul style="list-style-type: none"> • The system should be without any integration to the Red light controller and should work on image analysis and color detection of red light signal • The system should take input from traffic light and start capturing red light violation as soon as traffic signal turns red. 	
8.		Number of Frames / Violation: 7 to 8 as required by client.	
9.		Time into Red: System should quantify the time in millisecond after red light for infraction for red light violation.	
10.		False Detection: The system shall have capability to identify false detection as per defined accuracy limits. A special pedestrian filter is used to avoid false detection in case of pedestrian or other similar object.	
11.	24 x 7 Availability	Should support automated 24 x 7 operations. Product should already be in use with enforcement authorities and should be in use for generating fines (End user certificates for proper working should be submitted)	
12.	Environmental Conditions	Work effectively in harsh environmental conditions including night	
13.	Integration	The system shall be integrated with ANPR.	

S. No.	Features	Description	Compliance Product (Yes/No)
14.		The system shall be integrated with existing e-challan system/RTO database/VAHAN Database of police department.	
15.	Graphical User Interface	<p>vii)The user interface broadly should fall into the categories of viewing, sorting and printing violations and system configuration.</p> <p>viii) The violation viewer should be provided with a means of listing the invalid violations along with the reason(s) of invalidation without deleting the original record(s).</p> <p>ix) Duplication of Fines should be possible to incorporate new fine generation for vehicles crossing with same trigger with full image and video proof</p> <p>x) Software should provide interface for taking prints of the violations</p> <p>xi) Easy web based interface xii)There should be a password access system along with user type (admin, user). It should also have the role based permission system for accessing the data base and print.</p>	
16.	License	Perpetual License	
17.	Processor	<p>v. Storage and Connectivity: Minimum local storage 4 TB , with 3G/4G/5G module option availability for connectivity with centralized server</p> <p>vi. RAM Minimum 8 GB RAM at least.</p> <p>vii. User Interface: GUI for configuration and diagnostic</p> <p>Encryption: Security: Standard Digital signature on each violation to assure data integrity. Strong encryption on data during local storage and data</p>	

S. No.	Features	Description	Compliance Product (Yes/No)
		transfer to back office.	
18.	Warranty/Technical Support :	5 years Comprehensive OEM Warranty with necessary updates, upgrades and patches and IPv6 Compliant	
19.	Accessories	All required power cable, adapter, data cable and etc. accessories at site for installation of system to be provided as per the solution to work.	
Camera Specifications:			
20.	Make		
21.	Model		
22.	Camera Type	Box	
23.	Standard	ONVIF Profile S Compliant	
24.	Certification	UL , CE/BIS ,FCC and RoHS, Eye Safe for IR	
25.	Integration with VMS	SI has to ensure integration with existing or provided VMS. SDK need to provide by bidder for necessary integration.	
26.	Internal Memory	Min. 512 GB	
27.	Image Sensor	1/2" CMOS or better	
28.	Resolution	2MP (Min.1920 x 1080) at 60 FPS or better	
29.	Max. Mbps Constrained VBR	8	
30.	Compression	H.264/H.265	
31.	Streaming	Min. three compressed stream (Individually Configurable)	
32.	Alarm	1 digital input, 1 digital output	

S. No.	Features	Description	Compliance Product (Yes/No)
33.	Pre/Post Alarm buffer	Yes	
34.	ID/Password	Multi-level user ID/Password	
35.	Encryption	HTTP(SSL/TLS)/HTTPS	
36.	Video Authentication	For video authentication, classic watermarks/digital signature must be embedded in Video Stream along with name, time, date stamped which cannot be tampered	
37.	Physical Layer	10/100 base Tx Ethernet	
38.	Protocol	Minimum TCP, HTTP, RTP, RTSP, SNMP, IPV4, IPv6,FTP, NTP,DHCP, RTP, SMTP, UDP, UPnP, ICMP, IGMP, SSL, QoS, 802.1x, DNS, DDNS, HTTPS	
39.	IP Support	Static/dynamic or both	
40.	Remote Administration	Remote configuration and status using web based tool	
41.	System Update	Remote system update over Network using web client	
42.	PC Client	PC application client with a channel recording feature support	
43.	Web Client	Viewer through HTTP(min.) System Configuration Setting / Streaming	
44.	Simultaneous Connection	5 users or more	
45.	Lens Type	8-50 mm, F1.6 or better, C/CS Mount, Varifocal, DC-iris and IR Corrected (ANPR purpose) 3-10 mm, F1.6 or better, C/CS Mount, Varifocal, DC-iris and IR Corrected (RLVD purpose)	
46.	Dynamic Noise	3D	

S. No.	Features	Description	Compliance Product (Yes/No)
	Reduction		
47.	Auto Exposure	Automatic Level Control/Electronic Level Control	
48.	Illumination	Color: 0.3 lux, F1.6 or better B/W: 0.04 lux, F1.6 or better At 30 IRE Integrated external IR, 20 degree (25 mtrs. or better for RLVD, ANPR)	
49.	Signal Process	Digital Signal Process	
50.	Auto Gain Control	Yes	
51.	Back Light Compensation	Yes	
52.	Electronic Shutter	1/10000s to 1 s or better	
53.	White Balance	Yes	
54.	High Light Compensation	Yes	
55.	Day and Night	Yes (as per minimum illumination)	
56.	Operating Temperature	System should work in day and night condition	
57.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V +10%, 50Hz	
58.	Internet protocol Support	IPv4 and IPv6	
59.	Housing	<ul style="list-style-type: none"> • Poly Carbonate/ Aluminium Construction with IP-67 • Having sun-Shield in-built • Including pole mount/wall mount accessories , Power and data cables • Anti-Vandalism rating -IK 10 	

S. No.	Features	Description	Compliance Product (Yes/No)
60.	Accessories	All required accessories at site for installation of camera to be provided like power cable, CAT 6 patch cord (7 mtr. minimum) Pole Mount, Corner brackets, Connector kit, screws, etc.	
61.	Firmware	All firmware updates to be provided by SI during project period	
62.	Warranty	5 Years Comprehensive OEM Warranty	

Note: Unit would include 3 cameras, LPU and required licenses. Other required items for the solution/violation detection as per requirements.

Item No 3: Centralized Violation Management System

S No.	Features	Specifications	Compliance Product (Yes/No)
1.	Make		
2.	Model/Product Name and Version		
3.	Support/Integration	CVMS should be able to integrate with multiple 3 rd party ITMS cameras whenever required.	
4.	Single Web Interface for all traffic Violation Detection RLVD/SVD/MSVD/Incident capture etc.	The centralized Violation Server is the core of the full enforcement systems and his components, it should interacts with all devices, control and receive input data and signals, provide all output data and signals and thus provide complete information from single web interface including complete data base. The system should be integrated to E challan, CCC system and should work seamless with them.	
5.	Support for multiple violations	The server should be able to manage a high number of violation detection systems (Red light violation, Stop Line, fixed speed, and other types of violations) ;the server acquire data from heterogeneous roadside processing systems and is projected to be highly scalable in case of growing of the number of managed devices.	
6.	Encrypted connection and integration with GIS Maps	All roadside systems are connected over the network possibly using an encrypted connection to avoid unauthorized access; connection can be performed over any type of IP network. The same should provide complete diagnostic	

		management and should be integrated with GIS Maps provided by Government of Rajasthan so as to easily mark out presence and working of systems.	
7.	Cameras type	Software should be able to detect any cameras (ANPR, Speed, etc) type/brand and should be at least ONVIF S compliant.	
8.	Alarm Management	Should have facility to generate alarm during any incident captured by incident cameras like collisions, crashed vehicles etc), parked/stationary vehicles. System should have facility to defined customize alarm management facility as per requirement. Based on alarm control team or transport team could take action like (dispatch RPV/Ambulance) etc.	
9.	Violation Processing and Reports	The Violation Server should provide : <ul style="list-style-type: none"> • Violation processing: retrieve transits from all the roadside systems, detect violations and store in a centralized database. • Violation management interface. Store violation informations, make them available for citizen notifications and for later visualization. • Search for a specific violation • Statistic: number of violation detected grouped per device, per day and per hour. For each type of statistic a report should be generated in excel or other standard format • Server administration: Allow administrators to manage the whole system • Diagnostic and maintenance: monitor all roadside equipment to check for diagnostic and permits configuration of all devices • Software should have facility of classification of vehicles based on color, body type, class for counting or other purpose. 	
10.	Integration	The system shall be integrated with existing e-challan system/RTO database/VAHAN Database of police department, Rajmarg Yatra application of NHAI and other necessary integration as when required.	

11.	Violation Management Interface	<p>The violation data should be stored in server and are available for Violation management interface;</p> <p>Once a violation is detected an unique violation identifier is generated for faster retrieval.</p> <ul style="list-style-type: none"> • Transit data: all information like number plate, date, time, camera name, detected speed, speed threshold, etc. • Violation evidence: the images or video of the vehicle's violation <p>It should also be possible to retrieve violations data in a predefined format for eventual future systems.</p>	
12.	Graphical User Interface	<p>The server GUI should have the following features:</p> <ul style="list-style-type: none"> • Real time violation monitoring with console. <p>The user can open the violation console where all recent violations are displayed and updated in real time</p> <ul style="list-style-type: none"> • Violation search from database <p>It is possible to search vehicles into the database with customizable filters based on plate, time, location and status. The system retrieve all requested data and show it into an user friendly interface where the operator can see the transit data (time, plate, location, etc.) and, eventually, the image. Violation search can also be performed using partial plates or jolly characters (e.g. if search for AB123C? the search will be made for all plates that match with AB123CD except the last character).</p> <ul style="list-style-type: none"> • Software should have dashboard that allows users to view captured vehicles categorized as private, commercial, electric and other special vehicles such as military, ambulance etc. Should have filters which allow users to search vehicle by date, time, location, vehicle vategory, etc. • Map server GIS integration: <p>It is possible to integrate the GUI with MAP servers. With map server integration allow to show all elements (processors and cameras) and all transit search results over</p>	

		a map using the typical GIS map navigation (zooming, panning, etc.). The operator can select a single element (e.g. a camera) and view all information about it or view transits/alarms on that particular camera. GIS map shall be provided by Government of Rajasthan.	
13.	Maps	Intelligent Map - All information are displayed on the map using simple icons and different colors for different situations to react faster	
14.	Diagnostic/Health Monitoring Management System	Diagnostic management: it is possible to view the full system status and decide what action's has to be taken. Health Monitoring: System should provide health status for connected devices in the solution like server, ANPR/RLVD/SVD etc cameras whether devices running or not. The diagnostic process performs two type of check: "processor reachable" and "processor status".	
15.	Centralized Storage	All data acquired from roadside systems are stored in the central database and maintained for a predefined amount of time. All vehicle count are aggregated with a granularity of one hour and maintained for a longer time.	
16.	Android Application	Android tablet/mobile application Violation data can be notified to android application installed on policeman's tablet. The tablet application will receive all violation data and display it on the screen so that the policeman can wait for the vehicle coming and stop it.	
17.	AI features	Solution should have features via camera/LPU/Application for detection such as <ul style="list-style-type: none"> • helmetless driving, • seat belt violation, • mobile phone usage for 2 wheelers, • triple riding. • Slow-moving vehicle. • Stopped/Parked vehicle, • Reverse traffic, • Fallen object, Accidents (flipped vehicle/collide vehicles) Vehicle running in opposite direction NOTE: Should be possible in day & night conditions. Should able to capture incident at least 250 mtr.	
18.	Warranty	5 years Comprehensive OEM warranty with update, upgrade patch.	
Features required for Speed, stop and red light violation in above Centralized violation software			

Functions	Specifications
General Requirement	Traffic violations (Red light, Speed and zebra crossing) should be automatically detected. Cameras fitted in the equipment should record a digitized image or video frames of the violation covering defined lanes on each approach arm at any point of time simultaneously with relevant data about the offence, i.e. date, time, fixed location and speed etc. so that the complete lane wise junction behavior is recorded viz (Speed of violating vehicle, notified speed limit, Signal Jumping, Stop Line Violation, speed violation with Registration Number Plate Recognition facility). The photograph generated by the system should also include a wider view of the location indicating position of violating vehicle.
Calibration requirement	The system should be calibrated for accuracy prior to handing over and the successful bidder should ensure annual calibration of the system.
Position of vehicle at Intersection	<p>The system should detect and capture the vehicle when:-</p> <ol style="list-style-type: none"> It violates the stop line It violates the red signal It violates the speed limit in any phase (red or green or amber or even when the signal is not working) <p>The system should capture the photographic evidence of above violation clearly showing nature of violation & proof thereof.</p> <p>Infraction is recorded and documented dynamically including the events preceding and following the event.</p>
Violation Evidence capturing module	<p>The system should have violation evidence capturing module.</p> <p>Complete data for each infraction should be provided: data, time, location, speed, with automatic number plate detection mechanism (to recognize vehicle automatically)</p> <p>Violations should be available for selection from a displayed list corresponding to each location separately.</p> <p>The retrieval could be sorted by date, time, location and vehicle registration number.</p>
Color Image	The images in day time should be in color
Technology for Red light and Stop line Detection False Detection	<p>The system shall have Red light violation capability through video based technology</p> <ul style="list-style-type: none"> The system should be without any integration to the Red light controller and should work on image analysis and color detection of red light signal The system should take input from traffic light and start capturing red light violation as soon as traffic signal turns red.
	Number of Frames / Violation : 7 to 8 or as per client requirement
	Time into Red : System should quantify the time in millisecond after red light for infraction for red light violation.
	False Detection: The system shall have capability to identify false detection. A special pedestrian filter is used to avoid false detection in case of pedestrian or other similar object.
Technology for Speed Detection	

	Traffic violations should be automatically detected by the system. System should provide image of over speeding in particular lane (this is to avoid having multiple vehicles and multiple lanes and images in same image)
	System should be able to provide specific lane of the vehicle when speeding
	The system should be able to read speed more than 200 km/hr \pm 1 %. Using Radar(4D).
	Number of Frames / Violation : 1
	System should provide clear megapixel image with automatic ANPR data with speed in image
24 x 7 Availability	Should support automated 24 x 7 operations.
Environmental Conditions	Work effectively in harsh environmental conditions including night
Integration	The system shall be integrated with ANPR.
	The system shall be integrated with existing e-challan system/RTO database/VAHAN Database of police department.
Graphical User Interface	i) The user interface broadly should fall into the categories of viewing, sorting and printing violations and system configuration. ii) The violation viewer should be provided with a means of listing the invalid violations along with the reason(s) of invalidation without deleting the original record(s). iii) Duplication of Fines should be possible to incorporate new fine generation for vehicles crossing with same trigger with full image and video proof iv) Software should provide interface for taking prints of the violations v) Easy web based interface vi) There should be a password access system along with user type (admin, user). It should also have the role based permission system for accessing the data base and print.
Legal Compliance	Violation generated and detected by the system should be permissible in court/judiciary.
Warranty	5 years comprehensive OEM warranty with all required update, upgrade with patch.

Note: Bidder need to provide application update/upgrade during the project tenure whenever and wherever required to run the solution smoothly

Item No. 4: Mobile SVDS

S. No.	Category	Specification	Compliance Product (Yes/No)
	Make		
	Model/Product Name and Version		

1	Features Set	<ul style="list-style-type: none"> The system should be easily mounted on any highway Patrol vehicle. Mobile/Highway vehicle can be used as a speed enforcement for at least 3 lanes system using automotive, cameras and sensors which can take speed on move (while driving across highway) and does not require to park vehicle on side of highway. Speed limits to be measured at least 200km/hr. Tamper proof encrypted Evidence Data with graphic overlay in Real-time showing Time, Date, Lat-Long Location, Location Name, Target Speed, Speed Limit System should have possibility to integrate with SMS and email gateway to send alert messages to violators. Solution should have 3G/4G/5G module option availability for connectivity with centralized server. Integration for NIC-ITMS e-Challan compatibility, In the case of occasional internet outage, non-uploaded data must be retained in stored memory of each device and up loadable upon re-connection with the net. The sensor should determine over speeding vehicle detected with proper coordinates, vehicle number and location details. The GUI should be user friendly, and policeman can calibrate system easily and can configure for approach, depart or both easily and put speed limits. Road test reports for more than 200 km/hr with maximum error of ± 1 % in name of solution provider from certified accredited lab for speed enforcement. It is important that the product has been tested in static mode and dynamic model. <p>Speed test reports should be from any one :</p> <ol style="list-style-type: none"> Automotive Research Association of India (ARAI), Pune. Vehicle Research & Development Establishment (VRDE), Ahmednagar, Maharashtra Central Farm Machinery Training and Testing institute , Budni, MP Indian Institute Of petroleum (IIP), Dehradun Central Institute Of Road Transport, Pune International Centre of Automotive Technology, Manesar, Haryana Northern Region Farm Machinery Training and Testing Institute, Hisar <ul style="list-style-type: none"> Industrial Processing Unit -Processing unit with wi-fi 	
3			
4			
5			
6			
7			

		<p>connection to enable police officers to connect using mobile devices (i.e., tablet and/or smartphone) with upto 70 degrees. Should have minmum 256GB storage and 4GB RAM.</p> <ul style="list-style-type: none"> • Camera Resolution – Minimum 10 MP sensor, CMOS, sensor size 4/3-inch, minimum illumination Color: 0.03 lux at 50 IR and electronic image stabilization. the frame rate should be better than 25 FPS • Data transfer in encrypted mode for transferring data to centralized server to Abhay command centre or other facility wherver required. Speed limits and classification of vehicle should be easily configurable based on class, and system should also have possibility to have GIS map. System should have possibility to integrate with SMS and email gateway to send alert messages to violators. • Battery /UPS -Device should charge using Car battery connection and should also his own battery pack that can provide minimum 3 hours functionality or better as per solution and charger need to provide. • E Challan- System should provide Integration/SDK with traffic police E Challan. Police personal/enforecemnt agency should be able to issue fine on the site and the same should be synchronized with central software. 	
8	Certification and Approvals	<ul style="list-style-type: none"> • UL, CE/BIS, FCC, ROHS for camera • Eye safety for IR Module 	
9	Speed of Police patrol/intercaptor and Infraction vehicle	Patrol speed detection -Sensor should be capable to detect speed of police car/interceptor where Sensor installed without need of other devices such as GPS and also detect speed of infraction vehicle in one or both directions simultaneously.	
10	Mounting kit	<p>Mounting and Housing -Camera should be positioned inside vehicle behind windshield to avoid vandalism and no changes on the vehicle should be required by the solution.</p> <p>Should have all required mounting kit for required hardware installed in mobile vehicle.</p>	
11	Camera Internal	Minimum 256GB	

	Storage		
12	IP 67 Ratings	Test reports for IP 67 of cameras should be provided.	
13	Cables and Accessories	All required power cable, adapter, data cable and accessories at site for installation of system to be provided.	
18	Warranty	5 Years OEM comprehensive support	

Item No. 5: Full HD IP 4K PTZ Camera with IR for incident capture

S. No.	Features	Description	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	Camera Type	4K PTZ	
4.	Standard	ONVIF Profile S Compliant	
5.	Integration with existing VMS	SI has to ensure integration with existing VMS necessary SDK of camera for integration to be provided by SI	
6.	Certification	BIS, FCC, RoHS and CE/UL, eye safety certificate for IR.	
7.	Edge Storage	microSD/microSDHC/microSDXC slot with memory card minimum 512 GB.(Min. Class 6 or higher, Card to be included). In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored recording should automatically merged with the network storage recording such that no manual intervention is required to transfer the SD card based recordings to network storage. Camera should have 3G/4G/5G module option availability for connectivity with centralized server	
8.	Image Sensor	1/2" CMOS or better	
9.	Resolution	Min. 3840 x 2160 at 25 FPS or better	
10.	Max. Mbps Constrained VBR	15	
11.	Compression	H.264, H.265	
12.	Streaming	Min. Triple compressed stream (Individually Configurable)	
13.	Audio	Full Duplex, Audio Input/ Output 1 Ch.	
14.	Alarm	1 digital input, 1 Relay output	
15.	Audio Compression	G.726/G.711	
16.	Pre/Post Alarm buffer	Yes	
17.	ID/Password	Multi-level user ID/Password	

18.	Encryption	HTTP(SSL/TLS)/HTTPS	
19.	Video Authentication	For video authentication, classic watermarks/digital signature must be embedded in Video Stream along with name, time, date stamped which cannot be tampered	
20.	Physical Layer	10/100 base Tx Ethernet	
21.	Protocol	Minimum TCP, HTTP, RTP, RTSP, SNMP, IPV4, IPv6,FTP, NTP,DHCP, RTP, SMTP, UDP, UPnP, ICMP, IGMP, SSL, QoS, 802.1x, DNS, DDNS, HTTPS	
22.	IP Support	Static/dynamic or both	
23.	Remote Administration	Remote configuration and status using web based tool	
24.	System Update	Remote system update over Network using web client	
25.	PC Client	PC application client with a channel recording feature support	
26.	Web Client	Viewer through HTTP (min.) System Configuration Setting / Streaming	
27.	Simultaneous Connection	5 users or more	
28.	Zoom	44X zoom (Optical), F1.6 or better motorised Varifocal, Autofocus, Autoiris	
29.	Dynamic Noise Reduction	3D	
30.	Auto Exposure	Automatic Level Control/Electronic Level Control	
31.	Intelligent Defog	Yes	
32.	Signal Process	Digital Signal Process	
33.	Motion Detection Zones/ privacy zones	3 or higher	
34.	Auto Gain Control	Yes	
35.	Back Light Compensation	Yes	
36.	High Light Compensation	Yes	
37.	Electronic Shutter	1/10000s to 1 s or better	
38.	White Balance	Yes	
39.	Wide Dynamic Range	min 120 db (Sensor based)	
40.	Day and Night	Yes (as per minimum illumination)	
41.	Operating Temperature	0 °C to 60 °C Humidity 20–80% RH (non-condensing)	
42.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V \pm 10%, 50Hz and Power over Ethernet (POE 802.3 at)	
43.	Internet protocol	IPv4 and IPv6	
44.	Housing	Poly Carbonate/ Aluminium Construction with IP-67. Including pole mount/wall mount accessories , Power and data cables IR – 500 mtr or better	
45.	Anti-Vandalism rating	IK10	
46.	Panning Range and	0 deg to 360 deg, 0.2°/s–160°/s	

	Speed		
47.	Tilting Range and Speed	180°, 0.2°/s–120°/s	
48.	Pre-sets	100 presets or higher	
49.	Incident Capture	Any incident and report it to centralized command centre with short video file. The Camera should zoom into the incident and capture the Vehicle plate and send the Incident report to required agencies. The incident detection should work in all light and weather conditions. System should be able to capture incidents at least 250 mtr.	
50.	Accessories	All required accessories at site for installation of camera to be provided like power cable, CAT 6 patch cord (7 mtr. minimum) Pole Mount, Corner brackets, Connector kit, screws, etc.	
51.	Warranty	5 Years Comprehensive OEM Warranty & Maintenance support	

Item No. 6: Variable Message Sign Board

S. No.	Description	Features	Compliance Product (Yes/No)
1	Features	Central Control Software shall allow controlling multiple VMSB from one console.	
2		Capable of programming to display all types of Message having alphanumeric character in English and Hindi and combination of text with pictograms signs. The system should have feature to manage video / still content for VMSB display.	
		I. The VMS board size shall be 2 mtr (W) x 1 mtr (H) II. The LED configuration shall be Focused RGB SMD Lens type pixel and the pixel pitch shall be 25mm(horizontal) x 25mm(Vertical) with pixel size of 12mm Round outdoor. III. The brightness of the board shall not be less the 10000 cd/sqm with option to adjust the brightness manually as well as auto brightness adjustment feature.	
3		The system shall have capability to divide VMSB screen into multi parts to display diverse form of information like video, text, still images, advertisements, weather info, city info etc.	
		VMS should be ultralow power equipment, Typical power consumption should not be more than 18watt per square mtr. Life of LED unit shall be long enough to withstand the severe environmental conditions in which the signboard operates	

	<p>The Bidder shall submit the lab test results of high temperature high moisture biased test (-40degrees to +85 degrees) of LED</p> <p>VMS should be BIS certified.</p> <p>The enclosure shall be made from a corrosion resistant material (AL 2.0T). The enclosure shall have an IP67 rating, Bidder should submit the duly tested lab reports as well as IP certificates.</p> <p>All the VMS including portable VMS shall have GSM module with embedded multi- operator GSM SIM for establishing redundant connectivity with CCC, such that the communication with the VMS remains unaffected in case of connectivity failure.</p>	
4	Capable of controlling and displaying multiple font types with flexible size and picture sizes suitable as per the size of the VMSB.	
5	Capable of controlling brightness & contrast through software.	
6	Capable to continuously monitor the operation of the Variable Message sign board, implemented control commands and communicate information to the Traffic Monitoring Centre via communication network.	
7	Real time log facility – log file documenting the actual sequence of display to be available at central control system.	
8	Multilevel event log with time & date stamp.	
9	Access to system only after the authentication and acceptance of authentication based on hardware dongle with its log.	
10	Report generation facility for individual/group/all VMSBs with date and time which includes summary of messages, dynamic changes, fault/repair report and system accessed logs, link breakage logs, down time reports or any other customized report.	
11	Configurable scheduler on date/day of week basis for transmitting pre-programmed message to any VMSB unit.	
12	Various users shall access the system using single sign on and shall be role based. Different roles which could be defined (to be finalized at the stage of SRS) could be Administrator, Supervisor, Officer, Operator, etc.	
13	Apart from role based access, the system shall also be able to define access based on location.	
14	Rights to different modules / Sub-Modules / Functionalities shall be role based and proper log report should be maintained by the system for such access	

15		Components of the architecture must provide redundancy and ensure that there are no single points of failure in the key project components. To take care of remote failure, the systems need to be configured to mask and recover with minimum outage.	
16		The architecture must adopt an end-to-end security model that protects data and the infrastructure from malicious attacks, theft, natural disasters etc. provisions for security of field equipment as well as protection of the software system from hackers and other threats shall be a part of the proposed system. Using Firewalls and Intrusion detection systems such attacks and theft shall be controlled and well supported (and implemented) with the security policy. The virus and worms attacks shall be well defended with Gateway level Anti-virus system, along with workstation level Antivirus mechanism. There shall also be an endeavor to make use of the SSL/VPN technologies to have secured communication between Applications and its end users. Furthermore, all the system logs shall be properly stored & archived for future analysis and forensics whenever desired.	
17		Ease of configuration, ongoing health monitoring, and failure detection are vital to the goals of scalability, availability, and security and must be able to match the growth of the environment.	
18		System shall use open standards and protocols to the extent possible	
19		Facility to export reports to excel and PDF formats.	
20	Remote Monitoring:	All VMSB shall be connected/configured to Traffic Monitoring system for remote monitoring through network for two way communication between VMSB and control Room to check system failure, power failure & link breakage.	
21		Remote Diagnostics to allow identifying reason of failure up to the level of failed individual LED.	
22		The broad scope of work to be covered under this component shall include, but not limited to:	
23		VMSB shall be installed at identified strategic locations. The location of VMSB shall be on the key locations (mostly on the sides without obstructing the traffic) and other strategic locations on highway stretch. The VMSB software application will allow user to publish specific messages for managing traffic and also general informative messages.	
24		VMSB shall enable Police to communicate effectively with citizens and also improve response while dealing with exigency situations. These shall also be used to regulate the traffic situations across the city by communicating right messages at the right time.	
25	Functional & Technical Requirements	The system shall be capable to display warnings, traffic advice, route guidance and emergency messages to vehicle drivers from the Centralized management system in real time.	

26		The system shall also be capable to display warnings, traffic advice, route guidance and emergency messages to vehicle drivers by using local PC/Laptops/Mobile terminals. The system shall display graphical representation of the lanes with directional arrows and colour such as green, yellow, red for depicting density of traffic	
27		The VMSB shall display text and graphic messages using Light Emitting Diode (LED) arrays.	
28		The System shall able to display failure status of any LED at centralized center.	
29		The System shall support Display characters in true type fonts and adjustable based on the Operating system requirement.	
30		The ITMS workstation shall communicate with the VMSB controller through the network. It shall send out command data to the variable message sign controller and to confirm normal operation of the signboard. In return, the ITMS workstation shall receive status data from the VMSB controller.	
31		VMSB controllers shall continuously monitor the operation of the VMSB via the provided communication network.	
32		Operating status of the variable message sign shall be checked periodically from the centralized center of ITMS.	
33		It shall be capable of setting an individual VMSB or group of VMSB's to display either one of the pre-set messages or symbols entered into the computer via the control computer keyboard or by another means.	
34		It shall be capable of being programmed to display an individual message to a VMSB or a group of VMSB's at a pre-set date and time.	
35		A sequence of a minimum of 10 messages/pictures/ pre-decided sign or group of signs shall be possible to assign for individual VMSB or group of VMSB's.	
36		It shall also store information about the time log of message displayed on each VMSB. The information stored shall contain the identification number of the VMSB, content of the message, date and time at which displayed message/picture starts and ends.	
37		The central control workstation shall perform regular tests (pre-set basis) for each individual VMSB. Data communication shall be provided with sufficient security check to avoid unauthorized access.	
38		5 years Comprehensive OEM warranty	
39		All required accessories at site for installation be provided like power cable, CAT 6 patch (wherever required) Pole Mount, Corner brackets, Connector kit, screws, etc	

Note: In **Annexure 18** structure has been defined how VMSB would be install on gantry. Snap is just for representational purpose, consider size of VMSB as (**2mtr*1mtr**). However, NHAI installation guidelines,

sizing for accessories need to follow as mentioned in annexure except VMSB size which need to consider 2mtr*1mtr.

Item No. 7: Cantilever Pole (12 mtr.)

S. No.	Description	Compliance Product (Yes/No)
1.	Make:	
2.	Model:	
3.	Pole should be designed to offer a stable platform for the equipment to operate like cameras, switch, NVR etc.	
4.	Pole shall be able to host at least 2 cameras, sensors on top having a total weight up to maximum 30Kg.	
5.	Designed in accordance with ISS publication: Indian Standard specification For Structure Support Highway Signs, Luminaries and Traffic signals.	
6.	Suitable size Outdoor Junction Box shall be provided for electric meter to be installed at pole	
7.	AC to DC converter shall be provided with pole	
8.	Power sockets(5/15A) as per requirement as per the requirement (wherever required)	
9.	Suitable size earth termination shall be provided to connect with the proposed earth pit. Pipe earthing of each pole as per IS Standard. Pipe Earthing as per IS:3043 with perforated 3.0 Mtr. Long, 40 mm dia. ' B 'class G.I. Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/charcoal, testing of earth resistance as required. The Pipe earth electrode should be connected to pole mounting the required camera with 8SWG GI wire.	
10.	Pole shall have Camouflaged Junction Box with locking arrangement. JB size 300H x 400W x 200D with all round welded construction with trough design to meet an IP rating of IP66, Front panel with screw with PU Foam in place gasketing, bottom with out gland plate with 4 holes at the rear wall for wall mounting provision with 1 number of fixed mounting plate at the inner rear wall.(with earth Stud). There should be enough space inside enclosure to hold minimum 1 no. of 4 port Access Switch, PSU, Fibre and Power termination arrangement etc. DIN Rail Mount MCB As required, Power Termination Arrangement with Surge Protector, Wall mounting Bracket (Set of 4) or Pole, Din Rail 300MM Long, SS Cable Gland M25, SS Cable Gland M50, Fiber Termination Arrangement	
11.	Supply and erection of GI Octagonal of following length and dimension as per table given below with base plate on the cement concrete foundation of M-20 grade (1:1.5:3) with the help of anchor bolts of grade 6.8 (IS: 1367PIII).	
12.	The pole shall have a weatherproof flush door and locking arrangements.	
13.	The complete work shall be supervised and certified by the manufacturers for satisfactory supply, erection, testing and commissioning.	

14.	Octagonal MS Poles made of S-355JO grade steel , folded length wise to obtained Octagonal shape, having single longitudinal seam weld and hot dipped galvanized internally & externally in accordance with IS2629 and ISO1461	
15.	Supply, Erection and Fixing of hot dipped galvanized Over hang (48.3X 3.25mm)with cap (400x 88.9/114.3x 3.25mm)over the existing poles options: Single Arm Over Hang Double Arm Over Hang	
16.	Accessories: Bidder need to provide 7 mtr. CAT 6 cable, power cable to DP till switch to make equipment power on and other required screw, kit etc.	
17.	Poles should be designed as per IS- 875 (Part -3), wind load to be considered is 180 kmph	
18.	All Poles to be closed with Suitable gromets Cantilever pole joints & Camera Clamp joints should have vibration pads.	
19.	Warranty: 5 years Comprehensive Warranty	

Note: The Structure Design shall conform to relevant standards and shall be certified by a statutory authority for structural integrity and maximum allowable vibration (typically caused by wind forces and other external stimuli). Please refer **Annexure 19** for cantilever pole. Consider length 12 mtr.

Item No. 8: Server (Minimum Specification)

S. No	Item	Description of Requirement	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	Processor	Min. 2 x Intel® Xeon® E5-2640 V3 (2.6GHz/ 1866MHz FSB, 20 MB Cache) or higher	
4.	Chipset	Intel C600 Series or higher	
5.	Memory (RAM)	Min. 64 GB DDR4 ECC 1866Mhz RDIMM with Memory Mirroring/ Online Sparing expandable to 512 GB RAM	
6.	HDD	Min. 2 x 300GB hot plug SFF 12 Gbps 10K RPM SAS drives or higher	
7.	RAID	Integrated Hardware RAID Controller with RAID 0, 1	
8.	Network	Min. 2 x 10Gbps (WoL and TCP/IP Offloading)	
9.	Interfaces	Min. 1 x USB 2.0/3.0 Port	
10.	SAN Connectivity	Min. 2 x 16 Gbps Fiber Channel HBA ports	
11.	Graphics	Integrated	
12.	Operating System	Genuine MS-Windows Server 2012 R2 standard Edition/RHEL 7 with 5 Years OEM Support, Subscription/ Software Assurance. (Bidder to provide updates, upgrades and patches with 5 years OEM Support)	
13.	Management Features	Two Virtual machine per server shall be created from day In case of any virtualized host failure virtual machine should automatically restart on the redundant virtualized host	
14.	Keyboard and Mouse	Virtual KVM based remote control	
15.	Anti-virus	Advanced antivirus, antispysware, desktop firewall, intrusion	

	feature	prevention (comprising of a single, deployable agent) which can be managed by a central server. (Support, updates, patches and errata for the entire contract/ project period)	
16.	Quality	The Server OEM preferably should be in the latest Gartner Leader Quadrant	
17.	Accessories	Bidder need to provide required mounting kit with all kind of cables.	
18.	Warranty	5 years Comprehensive OEM warranty with update, upgrade patch.	
19.	Certifications	Should be certified on the supplied OS	

Note: Above mentioned are minimum specifications, however based on solution bidder can propose higher specifications as per solution requirement.

Item No. 9: Primary Storage (400 TB)

S. No	Item	Description of Requirement	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	Solution Type	Bidder is expected to provide SAN Storage solution meeting benchmark performance parameters specified in SLA. Solution proposed should yield low cost per TB, while meeting the performance parameters	
4.	Storage Size	400 TB usable Storage shall be offered (Disks should be preferably of 8 TB or higher capacity dual ported min. 7.2 K RPM 12 Gbps NL-SAS Drives.) under RAID 6. 5 TB usable Storage shall be offered (Disks should be of minimum 900GB 10K SAS 6 Gbps Drives.) under RAID 5 or equivalent/better. Should support latest technology SSD, SAS, NL-SAS/SATA Drives and automated tiering/movement of data between all the types of drives	
5.	Hardware Platform	<ul style="list-style-type: none"> Rack mounted form-factor Modular design to support disk drives expansion Min. 8 Backend SAS lanes for disk connectivity 	
6.	Controllers	<ul style="list-style-type: none"> 2 numbers of Controllers in active/active mode – SAN Storage with 32 GB onboard DRAM Cache across SAN controllers The SI shall be responsible for smooth flow of video at CCC for live video, playback and video analytics. In case the complete solution requires higher cache the SI has to provide cache accordingly. The controllers / Storage nodes should be upgradable seamlessly, without any disruptions / downtime to production workflow for performance, capacity enhancement and software / firmware upgrades. 	
7.	Ports	Min. 8 * 16 Gbps FC ports or min. 8 * 10G Ethernet	

8.	Operating System and Virtualization Support	Windows, Linux and Virtualization Platform like VMware, RHEL, Xenserver and HyperV	
9.	Protocol Support	FC / ISCSI	
10.	Management Protocol Support	SNMP, LDAP/AD, Network Time Protocol	
11.	RAID support	Should support various hardware industry standard RAID levels (1,5,6,10) or ADAPT	
12.	Redundancy and High Availability	The Storage System should be able to protect the data against single point of failure with respect to hard disks, connectivity interfaces, fans and power supplies.	
13.	Management software	<ul style="list-style-type: none"> All the necessary software to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. GUI/Single Command Console for entire storage system Should also include storage performance monitoring and management software. Should provide the functionality of proactive monitoring of Disk drive and Storage system for all possible disk failures Should be able to take "snapshots". 	
14.	Licenses and Software	Auto-tiering, Thin Provisioning, Remote Replication	
15.	Data Protection	The storage array must have cache protection mechanism either by de-staging data to disk or providing cache data protection with battery backup for up to 48 hours.	
16.	Retrieval Time	Retrieval time for any data stored should be maximum 4 hours for critical data and 8 hours for other data. This would be taken care in to account for SLA calculation. Critical data means – any data needing urgent attention by the judicial system or by the Police Department for investigation / Terrorist Threat perception.	
17.	Other	All required cable and connectors to be supplied	
18.	Quality	The Storage OEM preferably should be in the latest Gartner Leader Quadrant or should be in top 5 OEM as per IDC	
19.	Warranty	5 years Comprehensive OEM warranty with update, upgrade patch.	
20.	Accessories	Bidder need to provide required mounting kit with all kind of cables.	

Item No. 10: SAN Switch

S. No.	Description of Requirement	Compliance Product (Yes/No)
1.	Make:	
2.	Model:	
3.	The SAN Switch solution should be highly available with no single point of failure	
4.	Switch should support non disruptive Micro code/Firmware upgrade	
5.	Bidder should provision for a highly available fiber channel switch architecture with no single point of failure	
6.	Switch shall support minimum 24 ports X16 Gbps (with port activation licenses). However bidder has to ensure sufficient number of ports of 16 Gbps looking to the overall solution requirement of the project	
7.	The switch shall support Port zoning and LUN zoning, GUI management software	
8.	The SAN switch should have capability to interface with HBA of different makes and model from multiple OEM, supporting multiple Operating Systems, including, but not limited to HP-UX, IBM AIX, Linux, MS-Windows, Sun Solaris etc. The SAN switch should support all leading SAN disk array and tape libraries including, but not limited to, EMC, Hitachi, HP, IBM, Sun, NetApp etc.	
9.	Product shall be provided with all the required licenses, software required accessories, cable etc. as applicable to meet all the above mentioned specification and hence the proposed solution.	
10.	HBA Cables shall be provided by the Bidder to meet the solution requirement	
11.	Warranty :5 Years Comprehensive OEM Warranty with all kind of firmware update/upgrade.	
12.	Bidder need to provide required All accessories like mounting kit with all kind of cables	

Item No. 11: L3 switch

S. No	Minimum Required Specifications	Compliance Product (Yes/No)
1.	Make:	
2.	Model:	
3.	Layer-3 Switch. 19" Rack Mountable with minimum 20 no of 10G SFP (SX based) & 4 no of 1GE ports.	
4.	1+1 Redundant and hot swappable, load sharing Power supply & redundant FAN	
5.	Two core switches will be connected in 100% redundancy with support for active/active configuration to avoid single point of failure in network.	
6.	The Switch Should support atleast 250 Gbps of switching capacity with 100 mpps of forwarding rate for both IPv4 & IPv6 from day one.	
7.	The switch should support 48K IPv4 and IPv6 unicast routes, 24K multicast routes, 48K MAC address and 20k ACL	

8.	The Switch Should support IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Reconfiguration of Spanning Tree, IEEE 802.1s Multiple VLAN Instances of Spanning Tree, IEEE 802.3ad LACP, IEEE 802.1p CoS Prioritization, IEEE 802.1Q VLAN, IEEE 802.1X User Authentication	
9.	The Switch Should support MLD Snooping for IPv6 in hardware, Unicast Reverse Path Forwarding for IPv6 in hardware	
10.	The Switch Should support Internet Group Management Protocol (IGMP) Snooping, IPv6 Multicast Listen Discovery (MLD), Multicast Listen Discovery snooping, IEEE 802.1AB LLDP	
11.	The Switch should have OSPF, RIP, Policy-Based Routing, BGP enabled for both IPv4 & IPv6 from day one	
12.	The Switch Should support Unicast Reverse Path Forwarding (Unicast RPF, support distributed and customized approach to event detection and recover, Dynamic Host Control Protocol server (DHCP)	
13.	The switch should support IPv6 RA-Guard, DHCP-Guard, Source-Guard features and IPv6 fast-hop security or equivalent	
14.	Switch should be EAL3 or NDPP & IPv6 ready logo certified from day one	
15.	Router and Switch OEM Should be in Gartner Magic leaders quadrant or IDC top 3 Vendors for networking for last 3 years.	
16.	Warranty: 5 Years Comprehensive OEM Warranty	

Item No. 12: Workstation with 1 Monitors

S.No	Item	Description of Requirement	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	Processor	Intel Xeon E3 @ 3.00 Ghz or higher(without turbo) with 8 MB cache or higher /i 7 Quad core Processor @ 3.20 GHz or higher(without turbo) with 8 MB cache or higher (64 bit) (Processor should have been released on or after Q2 of 2014)	
4.	Memory	Minimum 16 GB Memory expandable upto min. 32 GB	
5.	Integrated Intel Graphics Card	Yes	
6.	Graphics card	WHQL certified NVIDIA Graphics card with 2 GB onboard video memory (non shared), graphics card shall be chosen such that each workstation supports 4 monitors simultaneously with no degradation in video quality considering HD video quality and 25 fps	
7.	HDD	2 TB SATA Hard drive @7200 rpm	
8.	Media Drive	16X DVD ±RW	
9.	Network interface	1000BaseT, Gigabit Ethernet (10/100/1G auto sensing)	
10.	Audio	Line/Mic IN, Line-out/Spr Out (3.5 mm)	

11.	USB ports	Minimum 6 USB ports (out of that 2 in front). Out of 2 USB port in front ,Minimum 1 USB Port in front shall be USB 3.0 These would be disabled for data transfer.	
12.	Keyboard	104 keys minimum OEM keyboard	
13.	Mouse	2 button optical scroll mouse (USB)	
14.	Monitor	21 inch monitor, Minimum 1920 x1080 resolution, TCO 03 (or higher) certified	
15.	Operating System	Latest 64 bit licensed Microsoft Windows operating system with media as per proposed solution	
16.	Anti-virus feature	Advanced antivirus, antispymware, desktop firewall, intrusion prevention (comprising of a single, deployable agent) (Support, updates, patches and errata for the entire contract/ project period)	
17.	Warranty	5 years Comprehensive OEM warranty with update, upgrade	

Item No. 13: Access switch (8 port)

S. No.	Features	Description	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	Type	Managed Outdoor Industrial grade switch	
4.	Total Ports	Eight Ethernet 10/100/1000 POE+ ports and 2 fiber port uplinks (populated SFPs) (Should have sufficient power to power up & function one PTZ, along with 7 other cameras (Dome/BOX/Bullet) populated on same switch)	
5.	Ring Support	Switch Should support the Ring connectivity in uplink port(IEEE802.17/Equivalent),LLDP/Equivalent, UDLD/Equivalent	
6.	PoE Standard	IEEE 802.3at on each10/100/1000 ports or better POE Budget : min. 240w	
7.	PoE Power per port	Sufficient to operate the CCTV cameras connected	
8.	Protocols	<ul style="list-style-type: none"> • Support802.1QVLAN • HTTPS/SSH • DHCP support, DHCP snooping • SNMP Management • IGMP Support • IPv6, IPv4 protocol 	
9.	Multi Cast Support	MLD snooping(v1andv2) and IGMP(v2 andv3)	
10.	Topology Selection	Bidder has to decide switch model type, be it L2or L3 as per their design principle. However, bidder has to make sure that spanning tree related loops are prevented at each and every layer.	
11.	Security Features	<ul style="list-style-type: none"> • Dynamic ARP Inspection • IP Source Guard 	

		<ul style="list-style-type: none"> • ARP Snooping/Spoofing • Access Control List 	
12.	Remote Management	Shall Support remote management through SNMP traps	
13.	Access Control	<ul style="list-style-type: none"> • Support port security • Support 802.1x(Port based network access control). • Support for MAC filtering. 	
14.	Industrial Rating	IP 30 and NEMA TS-2	
15.	EN/IEC Standard Ratings	EN/IEC60068-2-27, ESDEN/IEC61000-4-2, EN/IEC61000-4-3, EN/IEC61000-4-4, EN/IEC61000-4-6, EN/IEC61000-4-8, EN/IEC60068-2-6, RoHS and EMC as FCC Part 15, Class A, IPV6 ready from day one.	
16.	Surge Protection	Yes, EN/IEC61000-4-5	
17.	Operating Temperature	-10 to 70 degrees C or better	
18.	Certification to be provided by bidder	UL, CE and NEMATS-2, BIS, VAPT	
19.	Accessories	All required necessary accessories to complete the installation.	
20.	Cables	All necessary data and power cable sand industrial grade power adapter to be provided	
21.	Warranty	5 Years Comprehensive OEM Warranty & Maintenance support	

Item No. 14: Access switch (4 port)

S. No.	Features	Description	Compliance Product (Yes/No)
22.	Make		
23.	Model		
24.	Type	Managed Outdoor Industrial grade switch	
25.	Total Ports	Four Ethernet 10/100/1000 POE+ ports and 2 fiber port uplinks (populated SFPs) (Should have sufficient power to power up & function one PTZ, along with 3 other cameras (Dome/BOX/Bullet) populated on same switch)	
26.	Ring Support	Switch Should support the Ring connectivity in uplink port(IEEE802.17/Equivalent),LLDP/Equivalent, UDLD/Equivalent	
27.	PoE Standard	IEEE 802.3at on each 10/100/1000 ports or better	
28.	PoE Power per port	Sufficient to operate the CCTV cameras connected	
29.	Protocols	<ul style="list-style-type: none"> • Support 802.1Q VLAN 	

		<ul style="list-style-type: none"> • HTTPS/SSH • DHCP support, DHCP snooping • SNMP Management • IGMP Support • IPv6, IPv4 protocol 	
30.	Multi Cast Support	MLD snooping(v1andv2) and IGMP(v2 andv3)	
31.	Topology Selection	Bidder has to decide switch model type, be it L2or L3 as per their design principle. However, bidder has to make sure that spanning tree related loops are prevented at each and every layer.	
32.	Security Features	<ul style="list-style-type: none"> • Dynamic ARP Inspection • IP Source Guard • ARP Snooping/Spoofing • Access Control List 	
33.	Remote Management	Shall Support remote management through SNMP traps	
34.	Access Control	<ul style="list-style-type: none"> • Support port security • Support 802.1x(Port based network access control). • Support for MAC filtering. 	
35.	Industrial Rating	IP 30 and NEMA TS-2	
36.	EN/IEC Standard Ratings	EN/IEC60068-2-27, ESDEN/IEC61000-4-2, EN/IEC61000-4-3, EN/IEC61000-4-4, EN/IEC61000-4-6, EN/IEC61000-4-8, EN/IEC60068-2-6, RoHS and EMC as FCC Part 15, Class A, IPV6 ready from day one.	
37.	Surge Protection	Yes, EN/IEC61000-4-5	
38.	Operating Temperature	-10 to70 degrees C or better	
39.	Certification to be provided by bidder	UL, CE and NEMATS-2, BIS, VAPT	
40.	Accessories	All required necessary accessories to complete the installation.	
41.	Cables	All necessary data and power cable sand industrial grade power adapter to be provided	
42.	Warranty	5 Years Comprehensive OEM Warranty & Maintenance support	

Item No. 15: NVR (4 port)

S. No.	Features	Description	Compliance Product (Yes/No)
1.	Make		

2.	Model		
3.	IP video input	4 ch independent POE interfaces	
4.	Two-way audio	1 ch	
5.	Incoming bandwidth	at least 80 Mbps	
6.	Encoding technique	H.264, H.265	
7.	Recording resolution	Min.1920 x 1080	
8.	VGA output	1-ch with resolution up to 1920×1080	
9.	CVBS output	1-ch; aviation plug	
10.	Live view	Simultaneous 4 ch	
11.	HDD type	Sata HDD	
12.	Capacity	2 SATA HDD (2 TB capacity HDD each)	
13.	Protection	3-generation hard disk box	
14.	Interfaces	Hard disk box, USB interface and eSATA interface supporting data backup. 3G/4G/5G with dual SIM card mode slot availability	
15.	Wi-Fi	802.11 b/g/n supported, 2.4GHz	
16.	GPS	Support	
17.	Network interface	1; RJ45; 10M/100M self-adaptive Ethernet interface	
18.	Antenna interface	SMA interfaces: 2 for 3G, 1 for Wi-Fi and 1 for GPS	
19.	Serial interface	RS-232, RS-422, aviation plug	
20.	eSATA interface	1	
21.	USB interface	Front USB Port	
22.	EXP.STOR	Connectable to external HDD for storage expansion	
23.	SIM card	2, standard SIM card slots	
24.	Operating system	Linux	
25.	Operating method	IR remote control	
26.	Working temperature	-10°C to 55 °C	
27.	Working humidity	10% to 90%	
28.	Anti-Vibration	Military standards for HDD Vibration Protection	
29.	Warranty	5 Years Comprehensive OEM Warranty	

30.	Industrial rating	Should be IP 67 and IK 10 certified.	
31.	Accessories	Bidder need to provide required All accessories like mounting kit with all kind of cables	

Item No. 16: IP Public Address System and Emergency Call Box with required licenses

S. No.	Item	Description of Requirement	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	General	IP Public Address system cum Emergency call box with perpetual License to enable the combination of public address and Emergency Call Box Intercom function on a single platform at 16 kHz audio standard to transmits voice communication, emergency calls. capable of addressing citizen at any given specific locations from CCC with the integration of Emergency Communication Box to enable citizens to establish a two-way audio (microphone and speaker) communication link with CCCR through a press of a button.	
4.	Integration with existing VMS/CCC	SI has to ensure integration with existing VMS/CCC/PA system software	

5.	Features	<p>Software have following capabilities:</p> <ul style="list-style-type: none"> • Intercom systems expandable up to 5000 Subscriber • Supports IP-based, digital and analogue Intercom stations as well as IP stations and third-party IP devices via ICX protocol; • VoIP connectivity to PSTN via SIP gateways; IPv6 enabled from day one; • remote maintenance support via internet; VoIP gateway; • Networking with hardware Intercom Server via LAN/WAN; • Intercom client for PC and mobile devices; • ECB stations and Public address System, Intercom station; Control desk solution; Intercom stations and Intercom modules; IP camera; Pre-recorded voice messages for customised announcements (waiting, information, alarm messages ...); • Audio monitoring for automated call triggering, e.g. at a scream or shout; Audio recording interfaces; All Calls and group calls with automated response function; • Conference calls with any number of subscribers; Call forwarding; • Integration of third-party systems (OPC, TETRA, etc) Seamless VoIP integration via SIP; 	
6.	OEM	The IP PA amplifier, IP Speakers, Central Control Desk managing the PA & ECB should have to from the compatibility with existing OEM.	
7.	IP based Announcement	The proposed system shall contain an IP based announcing control connected to the Abhay Command & Control Center.	
8.	General	Public Address system to be used at intersections, public places, market places or those critical locations as identified to make important announcements for the public.	
9.	Single Zone/Multi Zone	The PA System shall be able to broadcast messages across all PA systems or specific announcement could be made to a particular location supporting single zone (1:1)/multi zone (1: Many) operations.	

10.	USB Playback	The system shall also deliver pre-recorded messages to the loud speakers at a particular junction or to all junctions, background music to played from from CD/DVD Players & Pen drives in addition to public announcements.	
11.	Inbuilt Fault Diagnosis	The PA & ECB system should have inbuilt fault diagnosis i.e speaker line monitoring, automatic volume control, loudspeaker microphone monitoring in ECB etc; Help point; Functional monitoring of microphone, Loudspeaker and Intercom station lines	
12.	Control Software	The system shall contain an IP based amplifier and uses PoE power that could drive the speakers. The system shall also contain the control software that could be used to control/monitor all the components of the system that includes Controller, Calling Station & keypad, Amplifier (Mixing & Booster).	
13.	Emergency call button	Emergency/ Panic buttons to be strategically located, suitably sized and identified/clearly labelled for "Emergency".	
14.	Warranty/Technical Support	5 Years Comprehensive onsite OEM Warranty with necessary updates, upgrades and patches	

Item No. 17: IP Horn Loudspeaker with required licenses

S. No.	Item	Description of Requirement	Compliance Product (Yes/No)
1.	Make		
2.	Model		
3.	Integration	Existing with "IP Public Address System and Emergency Call Box Server"	
4.	IP Horn Loud Speaker	The IP horn loudspeaker to provide reliable voice signal transmission under rough city Surveillance Conditions with built-in Microphone with licenses to add with existing IP Public Address System and Emergency Call Box Server	
5.	Speaker & Microphone	Speaker Sound Pressure Level SPL 118dB, built in microphone for AVL, integrated 10W class-D amplifier	
6.	Loudspeaker frequency range (-10 dB)	350 Hz to 10 kHz	
7.	Transmission bandwidth	16 kHz	
8.	Power	PoE, IEEE 802.3af Standard	
9.	Relay Input-output	Built-in inputs for floating Contacts & Outputs for Switch-over Contacts & Normally Open Contact	
10.	IP Protection	IP-66	
11.	Operating Temperature	0° to 70°C	

12	Warranty	5 Years Comprehensive Bidder/OEM Warranty	
13	Accessories	Bidder need to provide required All accessories like mounting kit with all kind of cables	

Item No. 18: Gantry*

S. No.	Description	Compliance Product (Yes/No)
1.	Make:	
2.	Model:	
3.	Shall have options to host and install security cameras, sensors, variable message board and detectors.	
4.	Designed in accordance with ISS publication: Indian Standard specification For Structure Support Highway Signs, Luminaries and Traffic signals.	
5.	The complete work shall be supervised and certified by the manufacturers for satisfactory supply, erection, testing and commissioning.	
6.	Accessories: Bidder need to provide sufficient length CAT 6 cable for the solution, power cable to DP till JB/switch to make equipment power on and other required screw, kit etc.	
7.	Gantry should be hot dipped galvanized internally & externally in accordance with IS2629 and ISO1461	
8.	Suitable size earth termination shall be provided to connect with the proposed earth pit. Pipe earthing of each pole as per IS Standard. Pipe Earthing as per IS:3043	
9.	Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/charcoal, testing of earth resistance as required. The Pipe earth electrode should be connected to pole mounting the required camera with 8SWG GI wire or necessary GI strip which suitable for earthing for Gantry purpose. Lightning arrestor also need to provide.	
10.	Foundation, installation and sizing of all accessories should be as per NHAI guidelines. Before any Excavation should only start after SBC (soil bearing capacity) report from lab. Necessary material for foundation should as per NHAI guidelines, pre-post approval for construction, structure design should be from government authorized civil engineer/PWD engineer.	
11.	Please refer Annexure 18 *	

Note: Indicative Width considered 25 mtr, however based on survey and actual condition length could differ however bidder need to submit survey report with necessary size as per NHAI guideline before any further excavation and construction.

Note: All the supplied Hardware/ Software mentioned in **Annexure-2 (Technical Specifications)** should be Interoperable, IPv6 ready and in compliance with the policies/ guidelines issued by DIT, GoI in this regard. Also, the bidder is to quote/ propose only one make/ model against the respective item. The selected bidder shall have to install the equipment at site with required accessories/ cables/ screws etc. required for installation.

ANNEXURE-3: PRE-BID QUERIES FORMAT {to be filled by the bidder}

Name of the Company/Firm: _____

Bidding Document Fee Receipt No. _____ Dated _____ for Rs. _____/-

Name of Person(s) Representing the Company/ Firm:

Name of Person	Designation	Email-ID(s)	Tel. Nos. & Fax Nos.

Company/Firm Contacts:

Contact Person(s)	Address for Correspondence	Email-ID(s)	Tel. Nos. & Fax Nos.

Query / Clarification Sought:

S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification

***Note:** - Queries must be strictly submitted only in the prescribed format (.XLS/ .XLSX/ .ODF). Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity. Also, kindly attach the coloured scanned copy of the receipt towards the submission of the bidding/ tender document fee.*

ANNEXURE-4: BIDDER'S AUTHORIZATION CERTIFICATE {to be filled by the bidder}

To,

{Procuring entity},

_____,

I/ We {Name/ Designation} hereby declare/ certify that {Name/ Designation} is hereby authorized to sign relevant documents on behalf of the company/ firm in dealing with NIB reference No. _____ dated _____. He/ She is also authorized to attend meetings & submit technical & commercial information/ clarifications as may be required by you in the course of processing the Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Name of the Bidder: -

Verified Signature:

Authorised Signatory: -

Seal of the Organization: -

Date: _____

Place: _____

ANNEXURE-5: SELF-DECLARATION {to be filled by the bidder}

To,

{Procuring entity},

In response to the NIB Ref. No. _____ dated _____ for {Project Title}, as an Owner/ Partner/ Director/ Auth. Sign. of _____, I/ We hereby declare that presently our Company/ firm _____, at the time of bidding, -

- a) possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- b) 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;
- c) is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT.
- d) does not have any previous transgressions with any entity in India or any other country during the last three years
- e) does not have any debarment by any other procuring entity
- f) is not insolvent in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and is not the subject of legal proceedings for any of the foregoing reasons;
- g) does not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- h) does not have a conflict of interest as mentioned in the bidding document which materially affects the fair competition.
- i) will comply with the code of integrity as specified in the bidding document.
- j) we here by declare that we have not been blacklisted in india by any competetive authority for past ten years.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by GoR, my/ our security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date: _____

Place: _____

ANNEXURE-6: CERTIFICATE OF CONFORMITY/ NO DEVIATION{to be filled by the bidder}

To,

{Procuring Entity},

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 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.

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-7: DECLARATION BY BIDDER {to signed by selected bidder}

I/ We declare that I am/we are bonafide/ Manufacturers/ Whole Sellers/ Sole distributor/ Authorised dealer/ dealers/ sole selling/ Marketing agent in the goods/ stores/ equipment for which I/ We have quoted.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the bid, if any, to the extent accepted may be cancelled.

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date: _____

Place: _____

ANNEXURE-8: MANUFACTURER'S AUTHORIZATION FORM (MAF) {to be filled by the OEMs}

(Indicative Format)

To,
{Procuring Entity},

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

Reference: NIB/ RFP Ref. No. _____ dated _____

Sir,

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 Hardware/ Software manufactured by us: -

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

- A. We hereby undertake that all the components/parts/assembly/ software used in the offered Hardware/ Software, as mentioned above, are not complying to GB28181 Standards.

We undertake to provide OEM Warranty for the offered Hardware/ Software, as mentioned above, for Five Years.

We hereby confirm that the offered Hardware/ Software, as mentioned above, is complying to the respective technical specification mentioned in RFP.

We hereby confirm that the offered Hardware/ Software is not likely to be declared as End-of-Sale within next six months from the date of bid submission.

We hereby confirm that the offered Hardware/ Software is not likely to be declared as End-of-Service/ Support within next three years from the date of bid submission.

- B. We have read the Rule 13 of the Rajasthan Transparency in Public (RTTP) Rules, 2013 and Government of Rajasthan Notification No. F.2(1)FD/G&T-SPFC/2017 dated 01.01.2021, 15.01.2021 and 30.03.2021 regarding prior registration with Industries department for bidders with beneficial ownership from countries sharing land border with India, for participation in any public procurement in the State.

*I certify that this bidder/OEM {Name and address of the bidder} is not from such a country which shares land border with India or with beneficial ownership from such country.

OR

*I certify that this bidder/OEM {Name and address of the bidder} from such a country which shares land border with India or with beneficial ownership from such country, has been registered with the Competent Authority. Evidence of valid registration by the Competent Authority has been attached herewith.

I/We hereby certify that this bidder/OEM fulfils all requirements in this regard and is eligible to be considered. We hereby declare that we have not been blacklisted in India by any competitive authority for past ten years.

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

(Authorized Signatory)

Name, Designation & Contact No.:

Address: _____

Seal:

ANNEXURE-9: UNDERTAKING ON AUTHENTICITY OF ITEM MENTIONED IN ANNEXTURE-1

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

To,

{Procuring Entity},

Reference: NIB 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.

We hereby undertake that all the components/parts/assembly/ software used in the equipment are not complying to GB28181 Standards.

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/ SD/ PSD for this bid or debar/ blacklist us or take suitable action against us.

Authorized Signatory

Name:

Designation:

ANNEXURE-10: COMPONENTS OFFERED –BOM {to be filled by the bidder}

Please fill the following BOM for all the offered components:

S. No.	Item Name	Make	Model	UNIT	Quantity	MAF Submitted (Yes/No)	OEM Details (Name, Address, E-Mail, Mobile Nos.)
1.	Speed Enforcement System with camera, display & license			UNIT	70	Yes	
2.	RLVD system with camera & license			UNIT	30	Yes	
3.	Centralized Violation Management System			LOT	1	Yes	
4.	Mobile SVDS (Speed violation Detection System, without vehicle) for use in Police patrol from parked or on move for speed enforcement			Nos.	25	Yes	
5.	4K PTZ camera incident capture			Nos.	120	Yes	
6.	Variable Message Sign Board			Nos.	50	Yes	
7.	Cantilever Pole (10 mtr.)			Nos.	50	NO	
8.	Server (Physical)			Nos.	5	Yes	
9.	Primary Storage (400 TB)			Nos.	3	Yes	
10.	San switch			Nos.	2	Yes	
11.	L3 switch			Nos.	2	Yes	
12.	Workstation with 1 monitor			Nos.	28	Yes	
13.	Access switch (8 port)			Nos.	35	Yes	
14.	Access switch (4 port)			Nos.	50	Yes	
15.	NVR (4 port)			Nos.	50	Yes	
16.	Emergency Call Box			Nos.	50	Yes	
17.	PA System			Nos.	50	Yes	
18.	Gantry *			Nos.	35	NO	

** Please attach Technical specifications compliance sheet on Bidder's letter head for all items and need to submit from OEM Technical specifications compliance sheet (for which MAF has been asked) and provide reference number in this column. (Deviations, if any, should be appropriately mentioned & highlighted in the compliance/ deviation column of the respective table as provided above in the Annexure-2: Technical Specifications)

ANNEXURE-11: FINANCIAL BID COVER LETTER &FORMAT

COVER LETTER {to be submitted by the bidder on his Letter head}

To,

{Procuring Entity},

Reference: NIB No. : _____ Dated: _____

Dear Sir,

We, the undersigned bidder, Having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Bill of Material, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.

I / We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as mentioned in the financial bid (BoQ).

I / We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements.

I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract security deposit/performance guarantee as prescribed in the bidding document.

I / We agree to abide by this bid for a period of _____ days after the last date fixed for bid submission 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.

I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Authorized Signatory

Name:

Designation:

Financial Bid Format(Indicative): {To be submitted by the bidder only in BoQ format (.XLS) available at eProc portal}

Sl. No.	Item Description (As per specifications mentioned at BoM at Annexure-2 of RFP)	Units	Quantity	Base Unit Cost in INR (incl. all incidental charges and all Taxes but excl. GST)	GST in INR	Amount in INR (including all taxes) per Unit	Total Cost in INR
1	2	3	4	5	6	7=5+6	8=4*7
1.	Speed Enforcement System with camera, display & license	UNIT	70				
2.	RLVD system with camera & license	UNIT	30				
3.	Centralized Violation Management System	LOT	1				
4.	Mobile SVDS (Speed violation Detection System, without vehicle) for use in Police patrol from parked or on move for speed enforcement	Nos.	25				
5.	4K PTZ camera incident capture	Nos.	120				
6.	Variable Message Sign Board	Nos.	50				
7.	Cantilever Pole (10 mtr.)	Nos.	50				
8.	Server (Physical)	Nos.	5				
9.	Primary Storage (400 TB)	Nos.	3				
10.	San switch	Nos.	2				
11.	L3 switch	Nos.	2				
12.	Workstation with 1 monitor	Nos.	28				

**Rate Contract of 2 years for Supply, installation and commissioning of Equipment's under ITMS
Project in the State of Rajasthan (Before Pre-Bid)**

13.	Access switch (8 port)	Nos.	35				
14.	Access switch (4 port)	Nos.	50				
15.	NVR (4 port)	Nos.	50				
16.	IP Public Address System and Emergency Call Box with required licenses	Nos.	50				
17.	IP horn Loudspeaker with required licenses	Nos.	50				
18.	Gantry *	Nos.	35				
19.	Facility management services for 5 Years support	UNIT	1				
Total in Figures							

NOTE: Refer Annexure 18 and Annexure 19 at end of RFP for GANTRY and Cantilever SPECPS.

ANNEXURE-12: BANK GUARANTEE FORMAT{to be submitted by the bidder's bank}

BANK GUARANTEE FORMAT – BID SECURITY

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

To,
The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

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 RISL, First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur, Rajasthan (hereinafter referred to as "RISL") by a Bank Guarantee from a Nationalised 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 RISL as earnest money 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 RISL of the said guaranteed amount without any demur, reservation or recourse.
3. We, the aforesaid bank, further agree that the RISL 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 RISL on account thereof to the extent of the Earnest Money required to be deposited by the Bidder in respect of the said bidding document and the decision of the RISL 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 RISL 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 RISL and it is further declared that it shall not be necessary for the RISL 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 RISL 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 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 RISL 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, 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 favor 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.

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:

GUIDELINES FOR SUBMISSION OF BANK GUARANTEE

The Bank Guarantee shall fulfil the following conditions in the absence of which they cannot be considered valid: -

1. Bank Guarantee shall be executed on non- judicial stamp paper of applicable value purchased in the name of the bank.
2. Two persons should sign as witnesses mentioning their full name, designation, address and office seal (if any).
3. The Executor (Bank Authorities) may mention the power of attorney No. and date of execution in his/ her favour authorizing him/ her to sign the document. The Power of Attorney to be witnessed by two persons mentioning their full name and address.
4. The Bank Guarantee should be executed by a Nationalised Bank/ Scheduled Commercial Bank only.
5. Non – Judicial stamp paper shall be used within 6 months from the date of Purchase of the same. Bank Guarantee executed on the non-judicial stamp paper after 6 (six) months of the purchase of such stamp paper shall be treated as non-valid.
6. The contents of Bank Guarantee shall be strictly as per format prescribed by RISL
7. Each page of Bank Guarantee shall bear signature and seal of the Bank and B.G. number.
8. All corrections, deletions etc. in the Bank Guarantee should be authenticated by signature of Bank Officials signing the Bank Guarantee.
9. Bank should separately send through registered post/courier a certified copy of Bank Guarantee, mentioning Bid reference, Bid title and bidder name, directly to the Purchaser at the following address:

BANK GUARANTEE FORMAT – PERFORMANCE SECURITY (PBG)

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

To,
The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

1. In consideration of the RajCOMP Info Services Limited (hereinafter called "RISL") having agreed to exempt M/s(hereinafter called "the said Contractor(s)" from the demand, under the terms and conditions of an Agreement No.....datedmade between the RISL through and(Contractor) for the work(hereinafter called "the said Agreement") of Security Deposit for the due fulfilment by the said Contractor (s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs.....(rupeesonly), we(indicate the name of the Bank), (hereinafter referred to as "the Bank") at the request ofContractor(s) do hereby undertake to pay to the RISL 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 RISL. Any such demand made on the bank by the RISL 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 RISL and We..... (Indicate the name of Bank), bound ourselves with all directions given by RISL 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 RISL any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal 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 RISL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the RISL certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We(indicate the name of Bank) further agree with the RISL that the RISL 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 Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the RISL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the RISL or any indulgence by the RISL to the said Contractor(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 us (indicate the name of Bank), under this guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We (indicate the name of Bank), lastly undertake not to revoke this guarantee except with the previous consent of the RISL in writing.
8. This performance Guarantee shall remain valid and in full effect, until it is decided to be discharged by the RISL. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees.....only).
9. It shall not be necessary for the RISL 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 RISL may have obtained or obtain from the contractor.
10. We (indicate the name of Bank) verify that we have a branch at Jaipur. We undertake that this Bank Guarantee shall be payable at any of its branch at Jaipur. 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 favor 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.

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 RISL
For and on behalf of the RISL

Signature

(Name & Designation)

ANNEXURE-13: DRAFT AGREEMENT FORMAT {to be mutually signed by selected bidder and procuring entity}

This Agreement for Rate Contract is made and entered into on this _____ day of _____, 2023 by and between RajCOMP Info Services Limited (RISL), having its head office at First Floor, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005, Rajasthan (herein after referred to as Purchaser/ RISL) which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on ONE PART

And

M/s _____, a firm registered under theAct, with its registered office at _____ (herein after referred as the "Successful Bidder/ Supplier") which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on the OTHER PART.

Whereas,

Purchaser is desirous of appointing an agency for <project title> as per the Scope of Work and Terms and Conditions as set forth in the RFP document dated _____ of <NIT No _____>.

And whereas

Successful Bidder/ Supplier represents that it has the necessary experience for carrying out the overall work as referred to herein and has submitted a bid and subsequent clarifications for providing the required services against said NIT and RFP document issued in this regard, in accordance with the terms and conditions set forth herein and any other reasonable requirements of the Purchaser from time to time.

And whereas

Purchaser has accepted the bid of Successful Bidder/ Supplier and has placed the Letter of Rate Contract having Reference No. _____ dated _____, on which Successful Bidder/ Supplier has given their acceptance vide their Letter No. _____ dated _____.

And whereas

Successful Bidder/ Supplier has deposited a sum of Rs. _____/- (Rupees _____) in the form of _____ ref no. _____ dated _____ of _____ Bank and valid up to _____ as security deposit (SD) for the due performance of the rate contract.

Now it is hereby agreed to by and between both the parties as under:

1. The NIT Ref. No. _____ dated _____ and RFP document dated _____ issued by RISL along with its enclosures/ annexures, wherever applicable, are deemed to be taken as part of this rate contract and are binding on both the parties executing this rate contract.
2. This Agreement for Rate Contract shall remain valid for all the work orders to be issued to Successful Bidder/ Supplier _____ during the entire period of this Rate Contract.
3. In case, we are found not complying with technical specifications mentioned in RFP 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/ SD/ PSD for this bid or debar/ black list us or take suitable action against us.

4. In consideration of the payment to be made by RISL to Successful Bidder/ Supplier at the rates set forth in the Letter of Rate Contract Reference No. _____ dated _____, will duly supply and install the said articles set forth in all the work orders to be issued during the period of rate contract thereof and provide comprehensive warranty and support services in the manner set forth in the RFP, along with its enclosures/ annexures and Technical Bid along with subsequent clarifications submitted by Successful Bidder/ Supplier.
5. The RISL do hereby agree that if Successful Bidder/ Supplier shall duly supply & install the said articles and provide related services in the manner aforesaid observe and keep the said terms and conditions of the RFP and Contract, the RISL will pay or cause to be paid to Successful Bidder/ Supplier, at the time and the manner set forth in the said conditions of the RFP, the amount payable for each and every project milestone & deliverable. The mode of Payment will be as specified in the RFP document.
6. The timelines for the prescribed Scope of Work, requirement of services and deployment of technical resources shall be effected from the date of issue of various work orders to be issued to Successful Bidder/ Supplier and completed by Successful Bidder/ Supplier within the period as specified in the work order to be issued to Successful Bidder/ Supplier during the period of rate contract.
7. In case of extension in the delivery and/ or installation period/ completion period with liquidated damages, the recovery shall be made on the basis of following percentages of value of stores/ works which M/s _____ has failed to supply or complete the work:-

a. Delay up to one fourth period of the prescribed period as per scope of work and deliverable	2.5%
b. Delay exceeding one fourth but not exceeding half as per scope of work and deliverable	5.0%
c. Delay exceeding half but not exceeding three fourth as per scope of work and deliverable	7.5%
d. Delay exceeding three fourth of the prescribed period as per scope of work and deliverable	10.0%

Note:

- i. Fraction of a day in reckoning period of delay in supplies/ warranty services shall be eliminated if it is less than half a day.
 - ii. The maximum amount of agreed liquidated damages shall be 10%.
 - iii. If M/s _____ requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to the authority which had placed the work order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
 - iv. Delivery period may be extended with or without liquidated damages if the delay in the supply of goods in on account of hindrances beyond the control of M/s _____.
8. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided as per the procedure mentioned in the RFP document.
 9. The Penalties shall be implemented and deducted as per the SLAs defined in the RFP.
 10. "This agreement is being executed on behalf of **Transport and Road Safety Department** to procure defined goods and services, **RISL** is acting merely as a Pure Agent who neither intends to hold or

holds any title to the goods and services being procured or provided. So all the goods and services are required to be delivered in the name of **Transport and Road Safety Department** along with invoices of supplied items, although payment will be made by **RISL** on behalf of said department/company."

In witness whereof the parties have caused this contract to be executed by their Authorized Signatories on this ____ day of _____, 2023.

Signed By:	Signed By:
() Designation: Company:	RISL
<i>In the presence of:</i>	<i>In the presence of:</i>
() Designation: Company:	
() Designation: Company:	

ANNEXURE-14: FORMAT FOR SUBMISSION OF PROJECT REFERENCES FOR PRE-QUALIFICATION EXPERIENCE

Project Name:	Value of Contract/Work Order (In INR):
Country: Location within country:	Project Duration:
Name of Customer:	Total No. of staff-months of the assignment:
Contact person with address, phone, fax and e-mail:	Approx. value of the services provided by your company under the contract (in INR):
Start date (month/year): Completion date (month/year):	
Name of associated Bidders, if any:	
Narrative description of Project:	
List of Services provided by your firm/company	

Please attach a copy of the work order/ completion certificate/ purchase order/ letter from the customer for each project reference

ANNEXURE-15: MEMORANDUM OF APPEAL UNDER THE RTPP ACT, 2012

Appeal Noof

Before the (First/ Second Appellate Authority)

1. Particulars of appellant:

- a. Name of the appellant: <please specify>
- b. Official address, if any: <please specify>
- c. Residential address: <please specify>

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

- a. <please specify>
- b. <please specify>
- c. <please specify>

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:<please specify>

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:<please specify>

5. Number of affidavits and documents enclosed with the appeal:<please specify>

6. Grounds of appeal (supported by an affidavit):<please specify>

7. Prayer:<please specify>

Place

Date

Appellant's Signature

ANNEXURE-16: CERTIFICATE FOR PRIOR REGISTRATION FOR PUBLIC PROCUREMENTS {to be submitted by the bidder }

To,

{Procuring entity},

Reference : NIB No. _____ dated _____ (Unique Bid No.: _____)

I {Name/ Designation} have read the Rule 13 of the Rajasthan Transparency in Public (RTTP) Rules, 2013 and Government of Rajasthan Notification No. F.2(1)FD/G&T-SPFC/2017 dated 01.01.2021,15.01.2021 and 30.03.2021 regarding prior registration with Industries department for bidders with beneficial ownership from countries sharing land border with India, for participation in any public procurement in the State.

*I certify that this bidder/OEM {Name and address of the bidder} is not from such a country which shares land border with India or with beneficial ownership from such country.

OR

*I certify that this bidder/OEM {Name and address of the bidder} from such a country which shares land border with India or with beneficial ownership from such country has been registered with the Competent Authority. Evidence of valid registration by the Competent Authority has been attached herewith.

I hereby certify that this bidder/OEM fulfils all requirements in this regard and is eligible to be considered.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date: _____

Place: _____

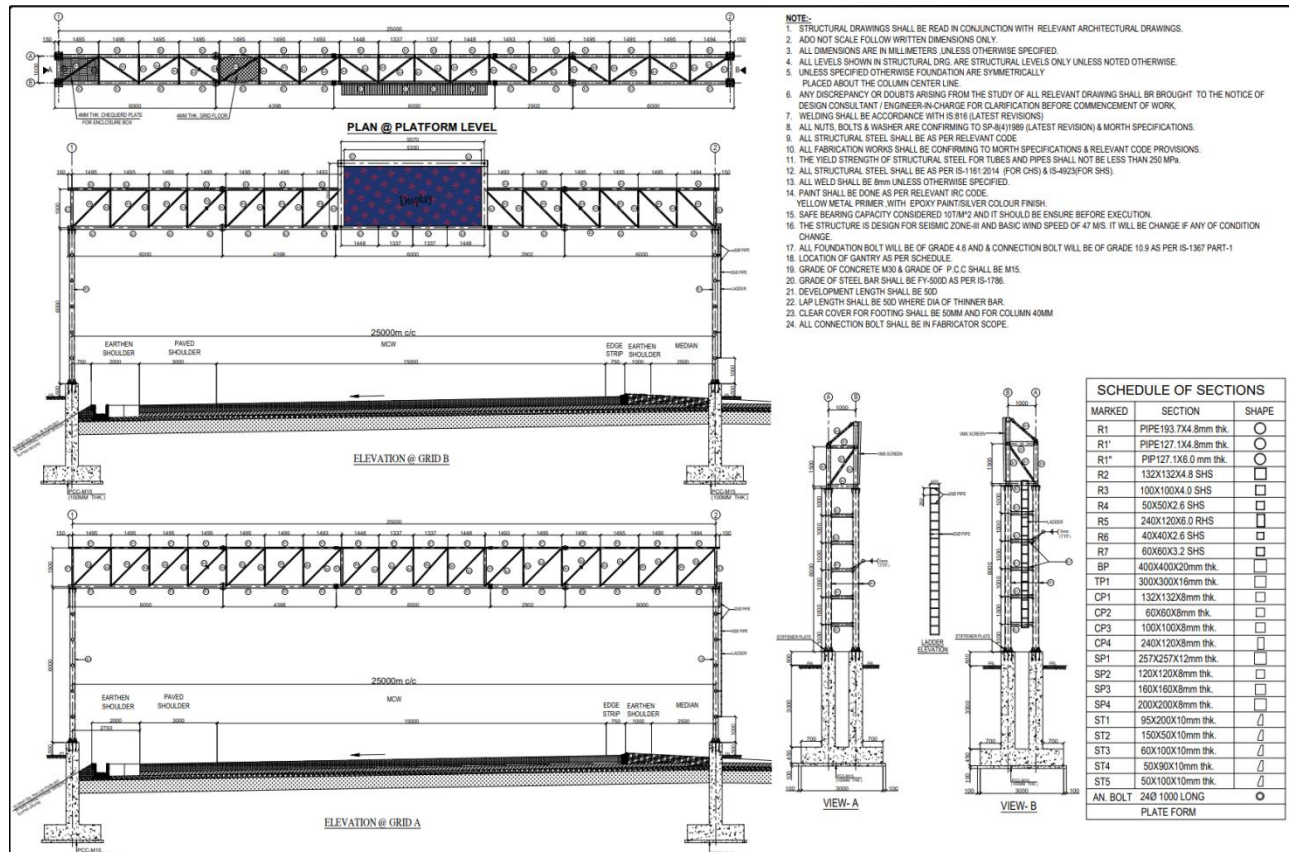
*Please strikeout which is not applicable.

ANNEXURE-17: Severity Factor for various Equipment's

S. No.	Equipment	Severity Factor
1.	Server	8
2.	Core Switch/Core Router	8
3.	SAN Switch	8
4.	Primary Storage	8
5.	Backup Solution/Secondary Storage	6
6.	Work-Station	4

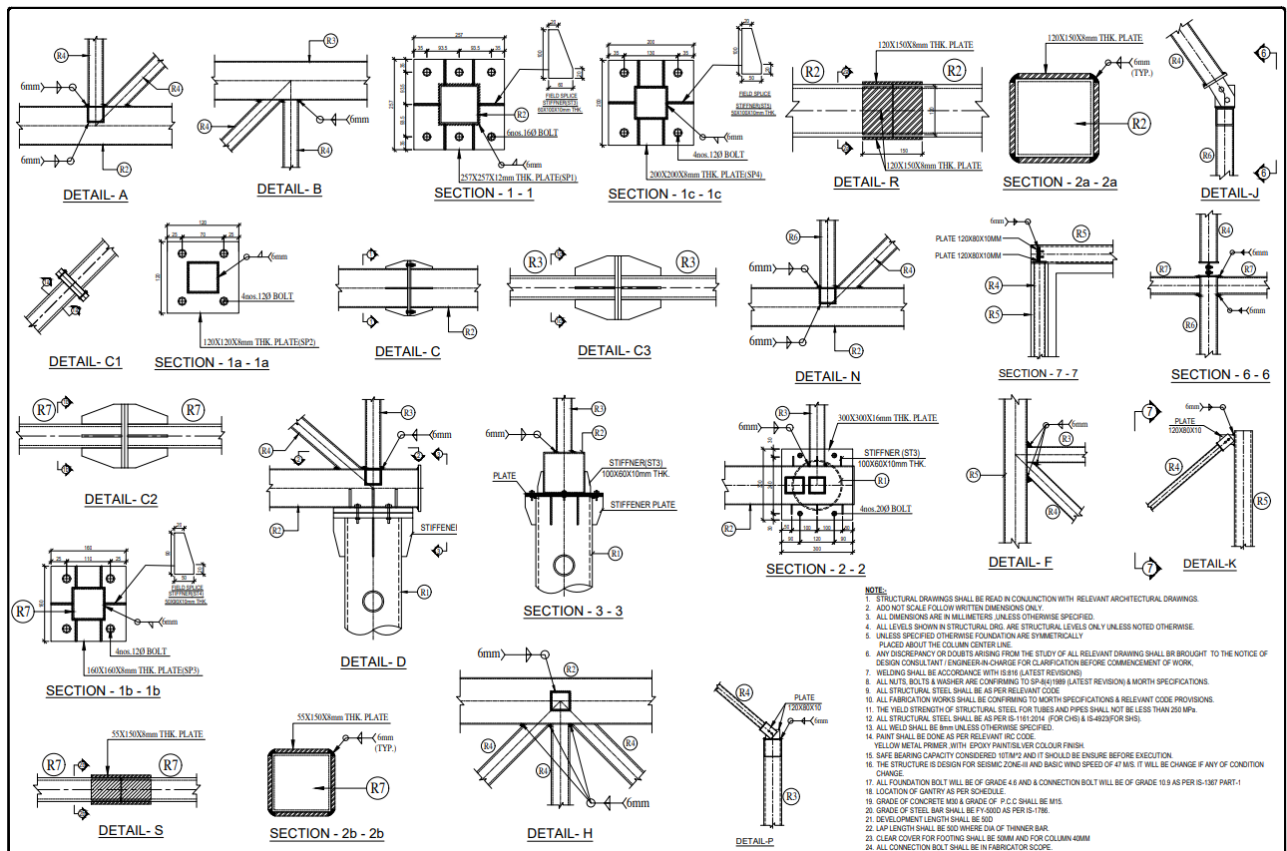
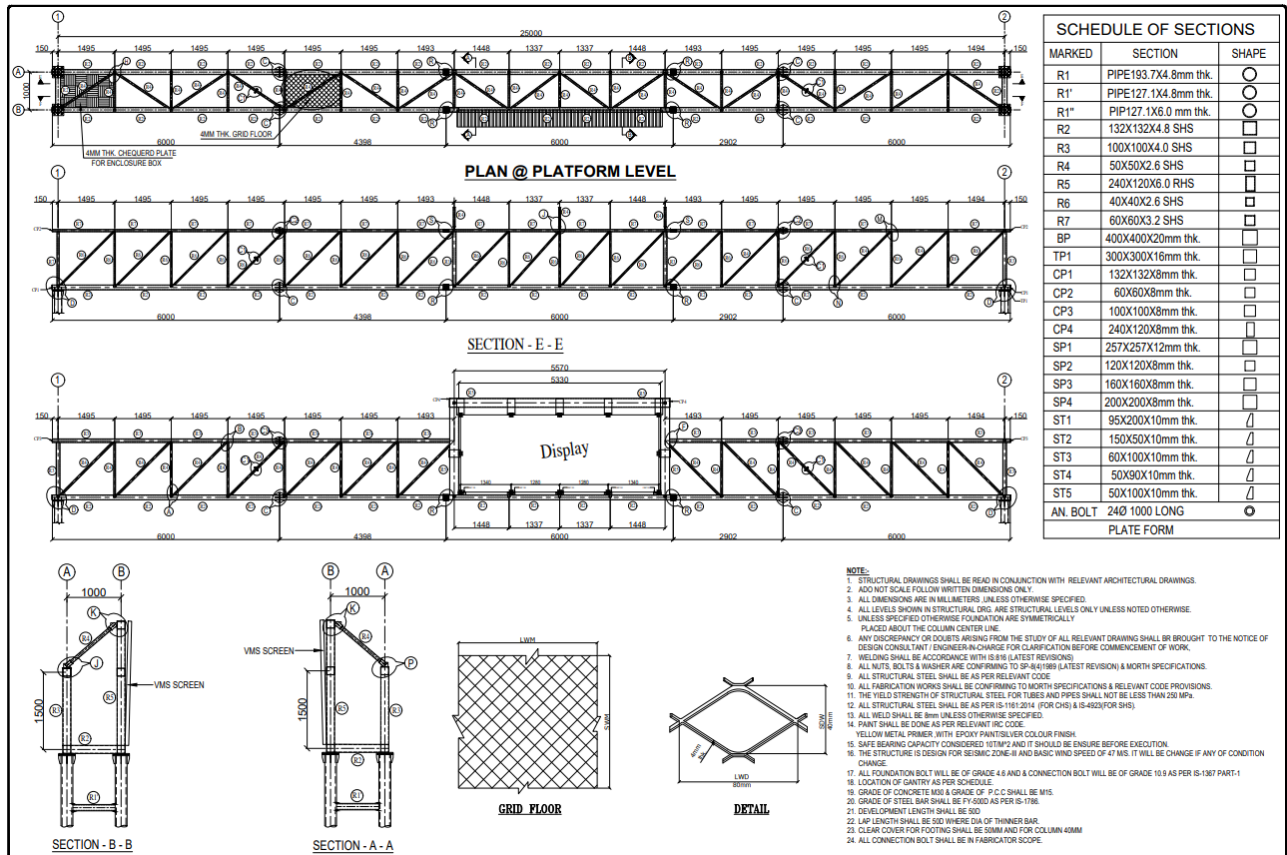
ANNEXURE- 18 : MINIMUM REQUIRED STANDARDS AND INDICATIVE DESIGN/ SIZING OF GANTRY

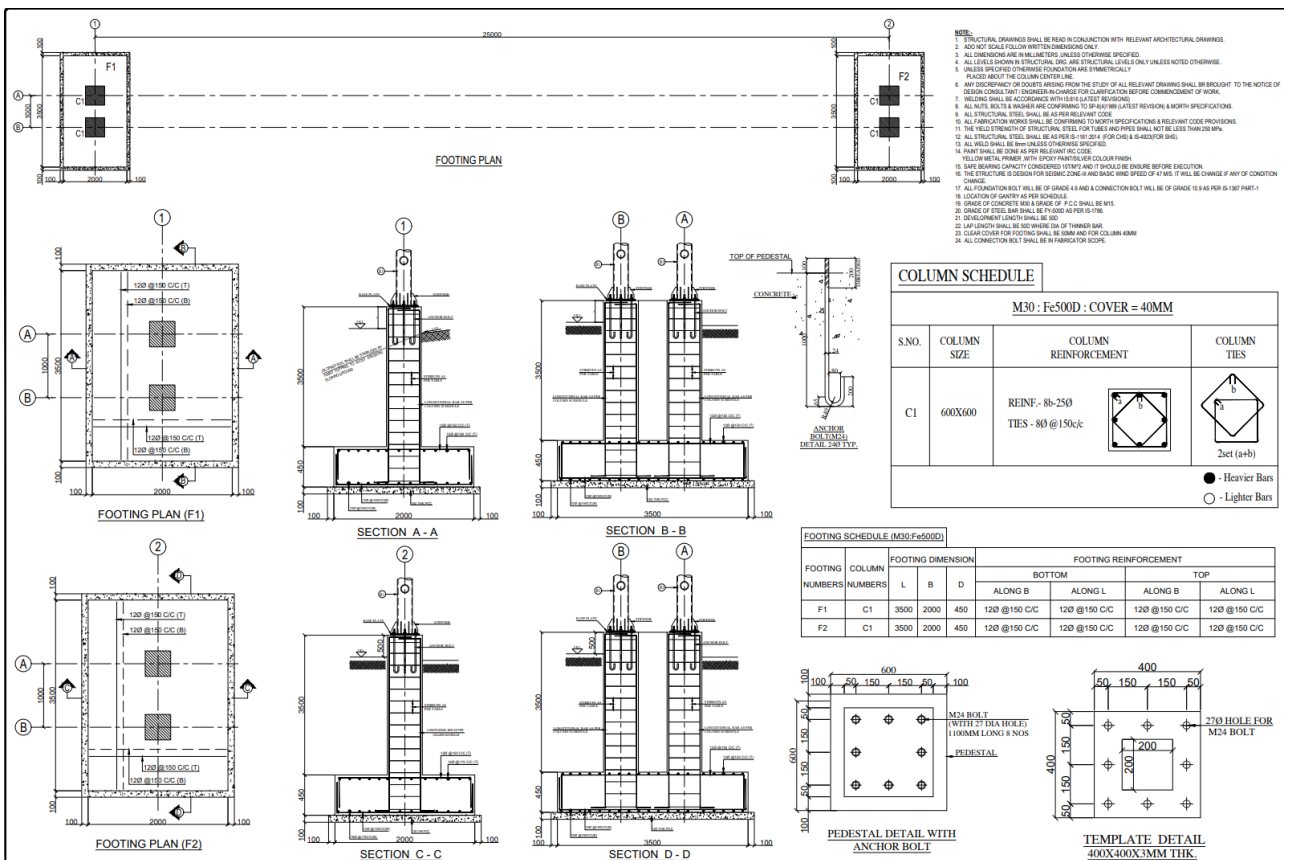
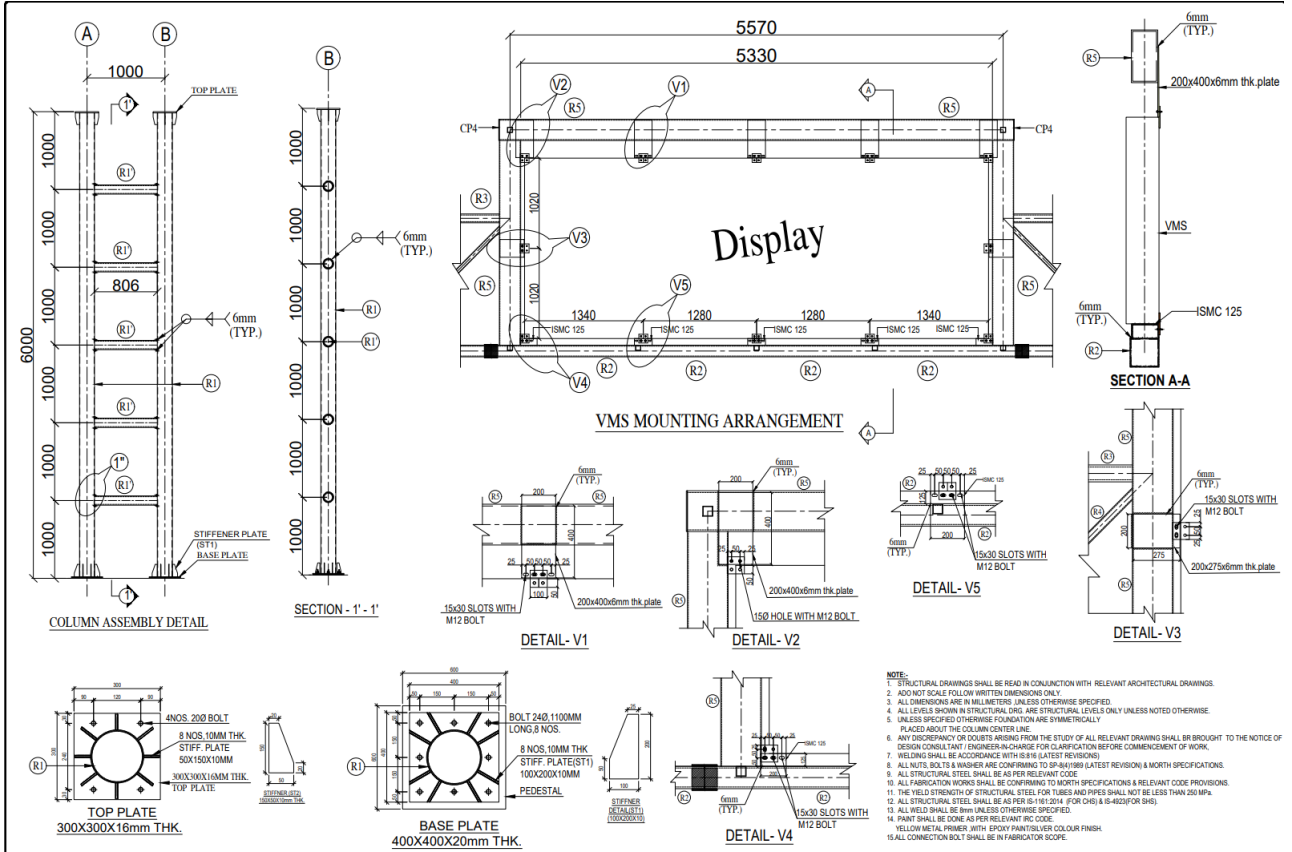
25 Mtr. GANTRY



Note: Above design considered 25 mtr gantry, however based on actual survey size could differ but survey, design and necessary approval need to submit

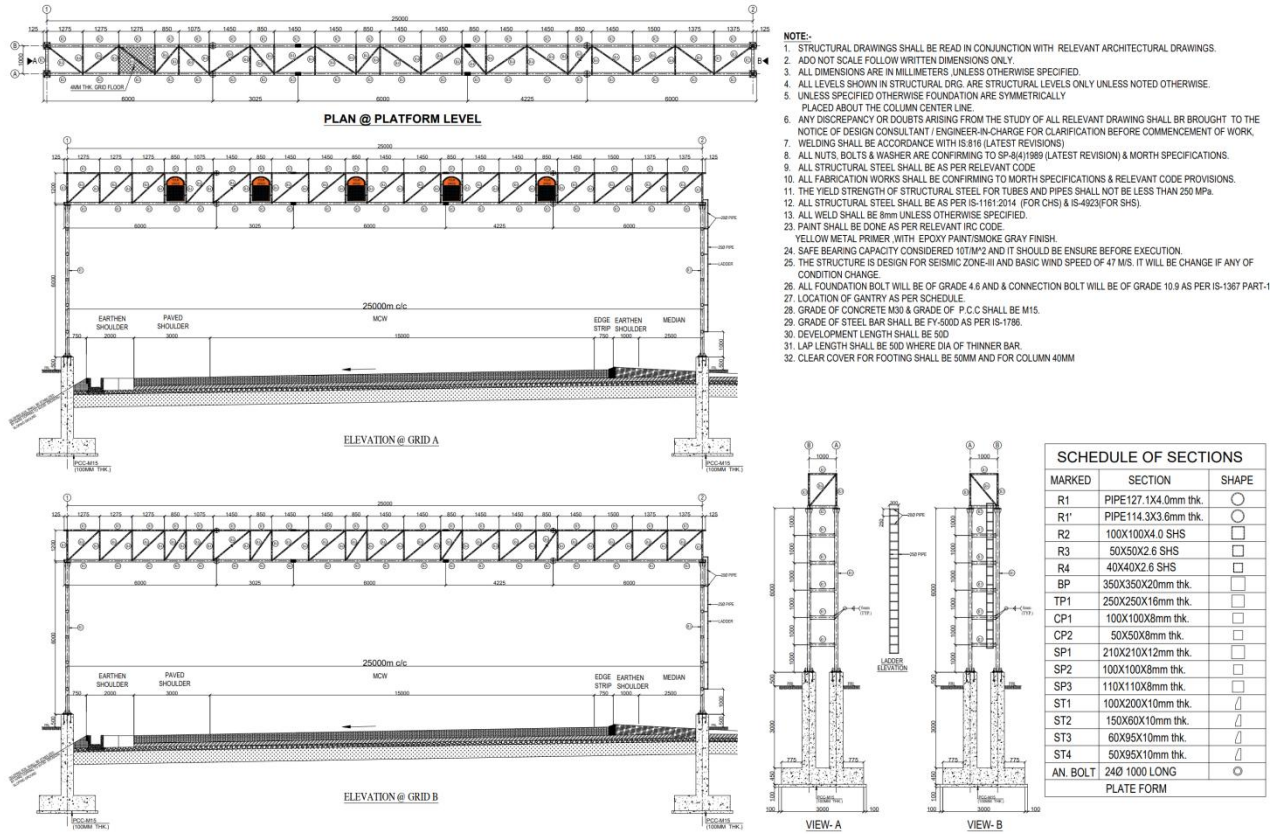
Note: (Consider VMSB Size as 2 mtr * 1 mtr.)



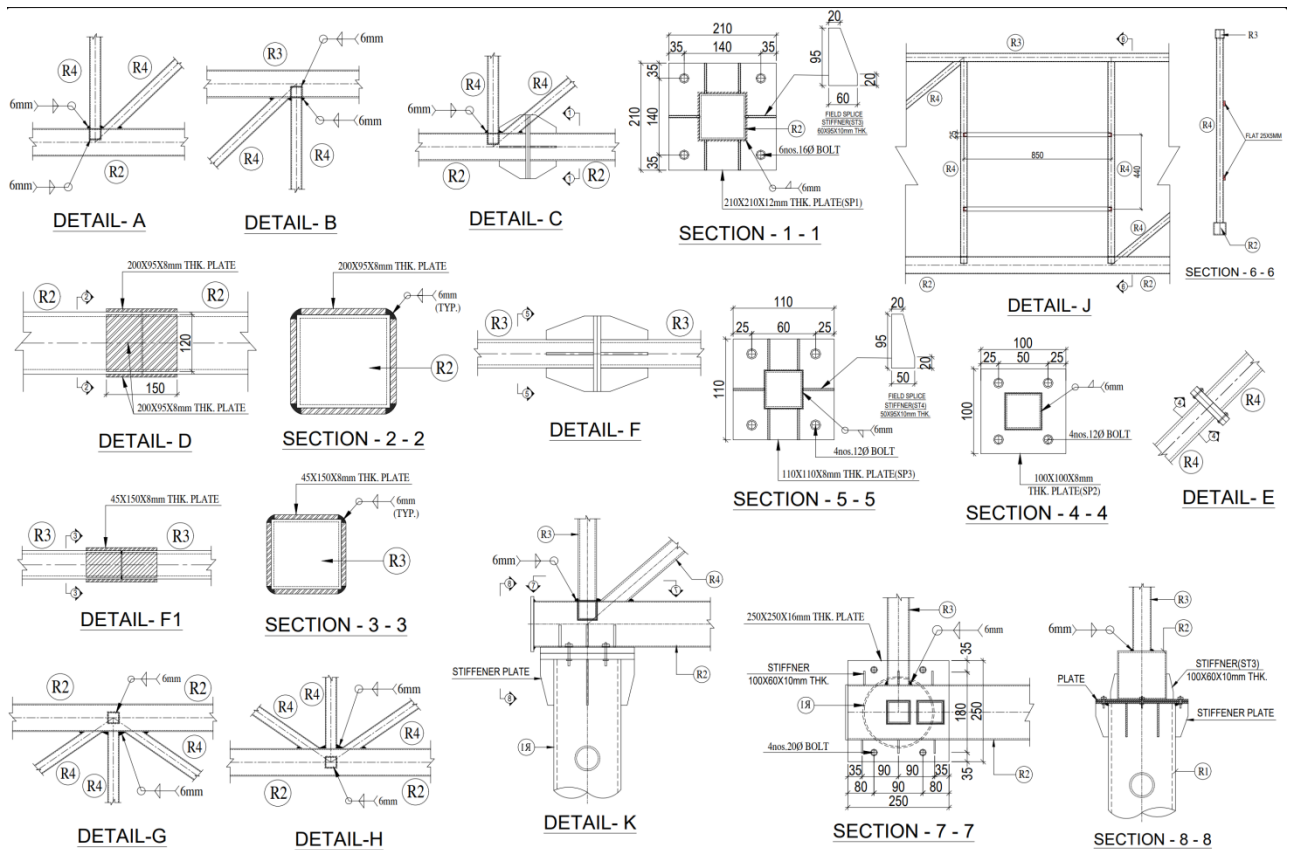
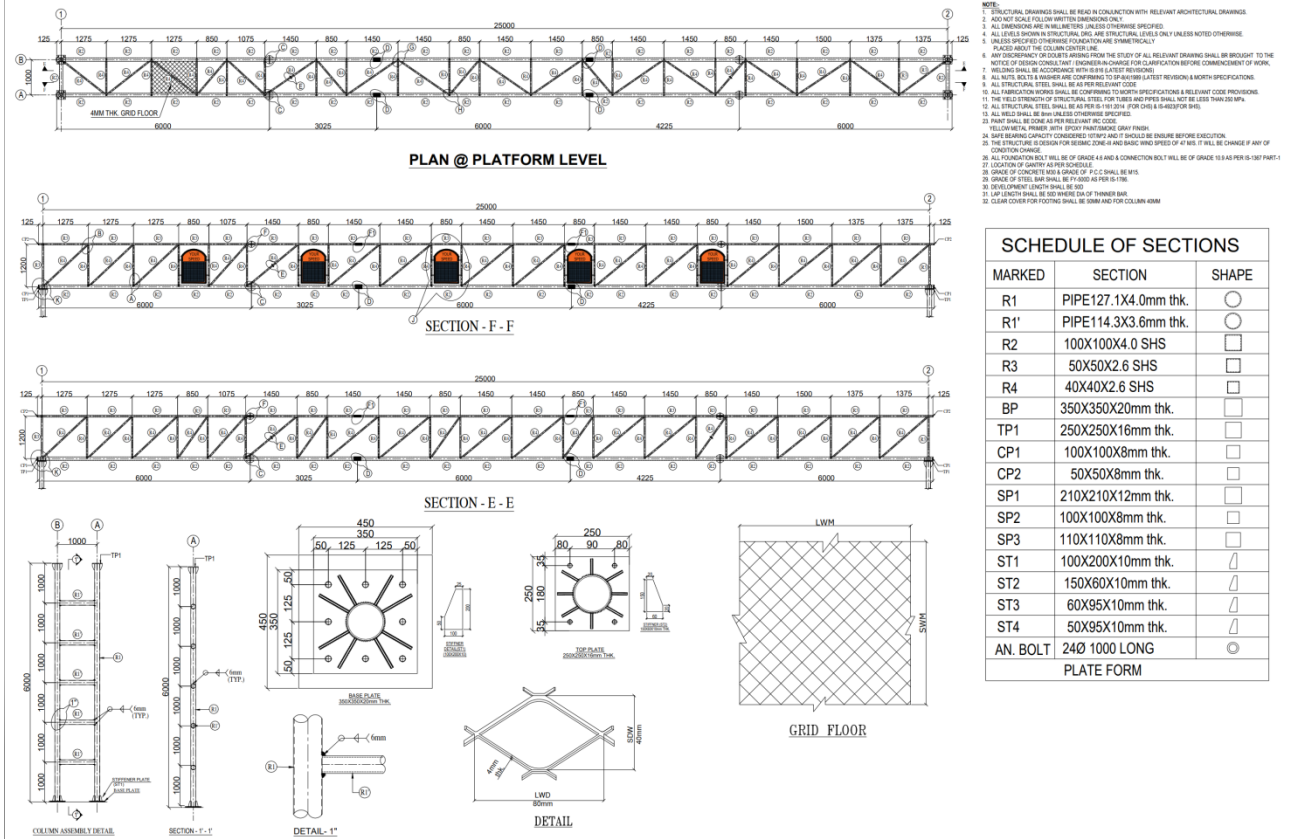


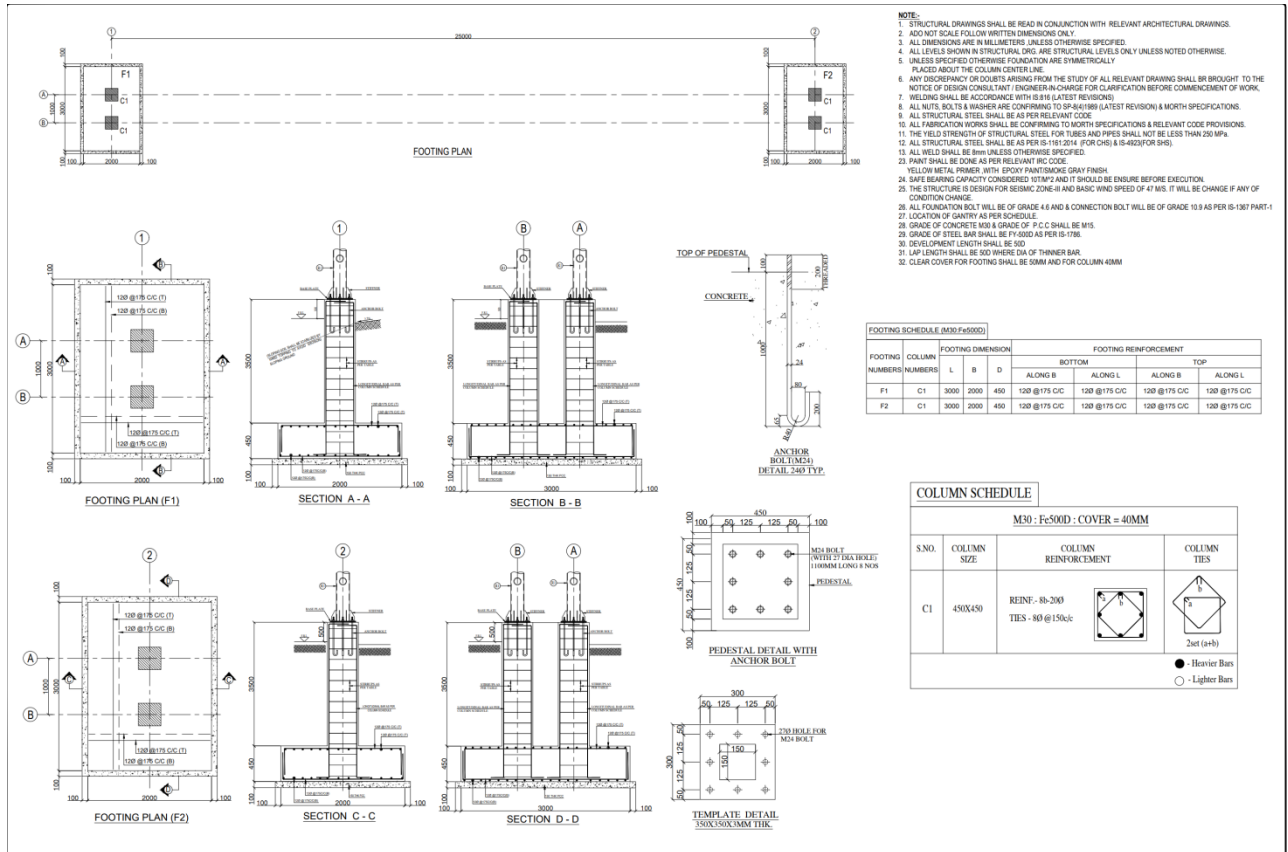
Speed Display structure

Rate Contract of 2 years for Supply, installation and commissioning of Equipment's under ITMS Project in the State of Rajasthan (Before Pre-Bid)

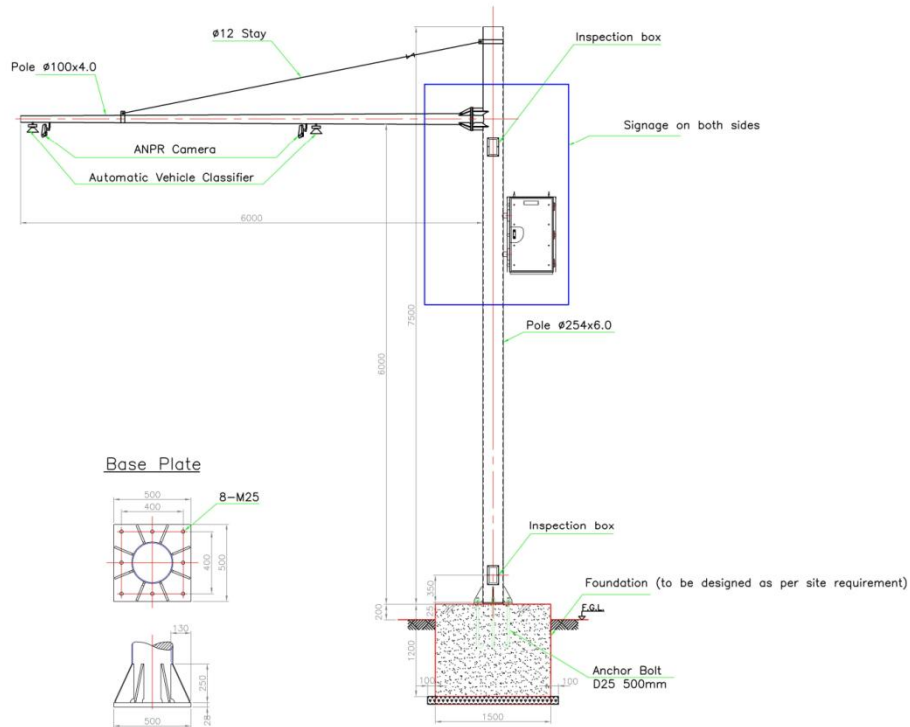


(As number of displays depends on cameras consider 2 display size mentioned in Speed enforcement specs and would be install on same gantry where VMSB would also install)





ANNEXURE-19: CANTILEVER POLE (consider length 12 mtr.)



ANNEXURE-20 INDICATIVE 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..... Two Thousand

By:

M/s. a Company incorporated under the laws of..... and having its registered office at (hereinafter called the "Lead Member/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 Lead Member/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 Government of Rajasthan (GoR)/ RajCOMP Info Services Limited (herein after called the 'Owner' or 'RISL'), RISL being a Company incorporated under the Companies Act, 1956 having its registered office at Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur, India (hereinafter called the "Owner/GoR/ RISL") in response to GoR/ RISL Request for Proposal Document (hereinafter called as "RFP" Document) Dated..... for the purposes of submitting the bid no. and entering into a contract in case of award for the work of(Name of work).....for (Name of project) of GoR/ RISL.

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

AND WHEREAS the PQ bid is being submitted to the Owner 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 Owner.

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 Lead Member 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 GoR/RISL 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 Lead Member 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 Lead Member of the Consortium shall invest and continue to invest % (at least 51% to be invested by Lead Bidder) interest in the Consortium for the Lock in Period (Complete Project 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 (Complete Project 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 GoR/RISL.
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	Roles & Responsibility of	Roles & Responsibility of Second
1			
2			
3			
4			

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.
8. For the purpose of this Agreement, the RFP Document and the Contract, the Lead Partner shall be the single point of contact for the GoR/ RISL, 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 PMC to the Lead Partner shall be deemed to have been duly provided to all the members of the consortium.
10. If GoR/ RISL 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 GoR/ RISL on its demand without any demur or contest. The Owner shall have the right to proceed against anyone of the partners and it shall neither be necessary nor obligatory on the part of the Owner to proceed against the Lead Partner before proceeding against or dealing with the other Member.
11. The financial liability of the Consortium Members to the GoR/ RISL, 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 GoR/RISL.

12. It is expressly agreed by the Members that all the due payments shall be made by the Owner to Lead 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 Lead Member 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 GoR/RISL.
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 Lead Member presence pursuant to Board of Director's resolution dated</p>	<p>For and on behalf of M/s..... (Lead Bidder)</p> <p>(Signature of authorized representative)</p> <p>Name :</p>
--	---

Common Seal of has been affixed in
my/our Second Member presence pursuant to
Board of Director's resolution dated
.....

For and on behalf of M/s.....

(Second member)

(Signature of authorized representative)

Name :

Designation: