

**Design, Develop, Implement & Maintain of CCTV  
Surveillance System for 1096 Police stations & 264  
Police Outposts in Bihar State**

**Request for Proposal**

NIT No:2354/21      Dt:04.05.21

**Issued By**



**Bihar State Electronics Development  
Corporation (BSEDCC)**

**(A Government of Bihar Undertaking)**

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## Table of contents

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<b>Disclaimer .....</b>	<b>2</b>
<b>[Confidentiality] .....</b>	<b>2</b>
<b>1. Abbreviations .....</b>	<b>7</b>
<b>2. Definition.....</b>	<b>8</b>
<b>3. Schedule of Bid Process .....</b>	<b>9</b>
<b>4. Introduction .....</b>	<b>10</b>
<b>4.1. About Bihar .....</b>	<b>10</b>
<b>4.2. Project Background .....</b>	<b>10</b>
<b>4.3. About Bihar Police.....</b>	<b>10</b>
<b>4.4. Project Stakeholders.....</b>	<b>12</b>
<b>4.5. Summary of the Scope of work.....</b>	<b>12</b>
<b>4.6. Project Timelines .....</b>	<b>13</b>
<b>4.7. Payment Schedule .....</b>	<b>14</b>
<b>5. Instructions to the Bidders .....</b>	<b>16</b>
<b>5.1 General Instructions .....</b>	<b>16</b>
<b>5.2 e-Procurement 2.0 PROCESS related instructions. ....</b>	<b>16</b>
<b>5.3 Bid Documents.....</b>	<b>17</b>
<b>5.3.1. Pre-qualification bid as per eligibility criteria specified .....</b>	<b>17</b>
<b>5.3.2. Technical Bid .....</b>	<b>18</b>
<b>5.3.3. Cost Bid.....</b>	<b>18</b>
<b>5.4. Completeness of Response .....</b>	<b>18</b>
<b>5.5. Pre-bid Conference (PBC) &amp; Clarifications .....</b>	<b>19</b>
<b>5.5.1. Responses to Pre-Bid Queries and Issue of Corrigendum: .....</b>	<b>19</b>
<b>5.5.2. Bid security i.e. Earnest Money Deposit (EMD) .....</b>	<b>19</b>
<b>5.6. RFP Document Fees .....</b>	<b>20</b>
<b>5.7. Cost of Bidding .....</b>	<b>20</b>
<b>5.8. Right to Terminate the Process .....</b>	<b>20</b>
<b>5.9. Authentication of Bids .....</b>	<b>20</b>
<b>5.10. Site Visit.....</b>	<b>20</b>
<b>5.11. Bid Validity .....</b>	<b>20</b>
<b>5.12. Language .....</b>	<b>20</b>
<b>5.13. Handwritten documents, Erasures or Alterations .....</b>	<b>20</b>
<b>5.14. Fraud and corruption.....</b>	<b>21</b>
<b>5.15. Tender Opening.....</b>	<b>21</b>
<b>5.16. Rejection criteria .....</b>	<b>21</b>
<b>5.16.1. General rejection criteria .....</b>	<b>21</b>

<b>5.16.2. Pre-Qualification rejection criteria .....</b>	<b>21</b>
<b>5.16.3. Technical rejection criteria .....</b>	<b>21</b>
<b>5.16.4. Commercial Rejection Criteria .....</b>	<b>22</b>
<b>5.17. Licensing .....</b>	<b>22</b>
<b>5.18. Clarifications.....</b>	<b>22</b>
<b>5.19. Preliminary Examination .....</b>	<b>22</b>
<b>5.20. Joint Venture, Consortium or Association .....</b>	<b>22</b>
<b>5.21. Concessions permissible under statutes .....</b>	<b>23</b>
<b>6. Criteria for Evaluation .....</b>	<b>24</b>
<b>6.3. Pre-qualification / Eligibility criteria: .....</b>	<b>24</b>
<b>7. Qualifying Criteria for Technical Bid.....</b>	<b>28</b>
<b>7.1. Technical Evaluation Criteria .....</b>	<b>28</b>
<b>7.2. Commercial Bid Evaluation.....</b>	<b>31</b>
<b>7.3. Conditional offers by the Vendors.....</b>	<b>32</b>
<b>7.4. Late Tender offers .....</b>	<b>32</b>
<b>7.5. Offer validity Period .....</b>	<b>32</b>
<b>7.6. Address of Communication .....</b>	<b>32</b>
<b>7.7. Opening of Offers.....</b>	<b>32</b>
<b>7.8. Clarification of Offers.....</b>	<b>33</b>
<b>7.9. Right to Accept Any Offer and to Reject Any or All Offers .....</b>	<b>33</b>
<b>7.10. Notification of Award .....</b>	<b>33</b>
<b>7.11. Performance Guarantee .....</b>	<b>33</b>
<b>7.12. Signing of Contract.....</b>	<b>33</b>
<b>7.13. Concessions permissible under statutes .....</b>	<b>34</b>
<b>7.14. Taxes .....</b>	<b>34</b>
<b>7.15. Right to vary the scope of the work at the time of Award .....</b>	<b>34</b>
<b>7.16. Terms and Conditions of the Tender .....</b>	<b>34</b>
<b>7.17. Special Terms and Conditions of the Tender .....</b>	<b>34</b>
<b>8. Service Level Agreement .....</b>	<b>38</b>
<b>8.1. Definitions .....</b>	<b>38</b>
<b>8.2. Measurement of SLA: .....</b>	<b>39</b>
<b>8.3. Planned Downtime.....</b>	<b>39</b>
<b>8.4. Pre-Implementation SLA .....</b>	<b>39</b>
<b>8.4.1. Timely delivery of the Scope of Work .....</b>	<b>39</b>
<b>8.5. SLA Matrix for Post Implementation SLAs .....</b>	<b>40</b>
<b>8.5.1. Penalty .....</b>	<b>41</b>
<b>8.5.2. Security Breach SLA.....</b>	<b>41</b>
<b>8.5.3. Breach in supply of Technical Manpower .....</b>	<b>42</b>

<b>8.5.4.</b>	<b>Explanation Notes for SLA Matrix .....</b>	<b>42</b>
<b>9.</b>	<b>Detailed Scope of Work for the System Integrator.....</b>	<b>44</b>
<b>9.1.</b>	<b>Site Survey for location Finalization and submission of a detailed Bill of Material</b>	<b>48</b>
<b>9.1.1.</b>	<b>Assess &amp; Prepare .....</b>	<b>51</b>
<b>9.2.</b>	<b>Supply of all Materials as per final BoM.....</b>	<b>51</b>
<b>9.3.</b>	<b>Installation and Commissioning activity at Police Station .....</b>	<b>52</b>
<b>9.4.</b>	<b>Partial Acceptance Testing &amp; Final Acceptance Testing of IT &amp; Non-IT Equipment</b>	<b>53</b>
<b>9.4.1.</b>	<b>Partial Acceptance test .....</b>	<b>53</b>
<b>9.4.2.</b>	<b>Final acceptance Test .....</b>	<b>53</b>
<b>9.5.</b>	<b>System Documents, User Documents .....</b>	<b>54</b>
<b>9.6.</b>	<b>Post Implementation Services.....</b>	<b>54</b>
<b>10.</b>	<b>Responsibility Matrix .....</b>	<b>56</b>
<b>11.</b>	<b>Common guidelines / comments regarding the compliance of IT / Non-IT Equipment / Systems to be procured .....</b>	<b>58</b>
<b>12.</b>	<b>Annexure 1 – Functional and Technical Specification .....</b>	<b>60</b>
<b>12.1.</b>	<b>Surveillance Equipment .....</b>	<b>60</b>
<b>12.2.</b>	<b>OEM Criteria for Switches &amp; Server .....</b>	<b>61</b>
<b>12.2.1.</b>	<b>High Definition IP Fixed Bullet Camera .....</b>	<b>61</b>
<b>12.2.2.</b>	<b>High Definition IP PTZ Camera .....</b>	<b>62</b>
<b>12.2.3.</b>	<b>Video Recording, Management &amp; Monitoring System .....</b>	<b>63</b>
<b>12.2.4.</b>	<b>32” HD Display .....</b>	<b>65</b>
<b>12.2.5.</b>	<b>Mic.....</b>	<b>66</b>
<b>12.2.6.</b>	<b>IT Components.....</b>	<b>66</b>
<b>12.2.7.</b>	<b>Server .....</b>	<b>66</b>
<b>12.2.8.</b>	<b>L2 Managed Switch .....</b>	<b>68</b>
<b>12.2.9.</b>	<b>Passive Components Structured Cabling OEM Criteria: .....</b>	<b>69</b>
<b>12.2.10.</b>	<b>UTP Cat 6 Cable .....</b>	<b>69</b>
<b>12.2.11.</b>	<b>Dual Face plate .....</b>	<b>69</b>
<b>12.2.12.</b>	<b>Cat6 24 Port Loaded UTP Patch Panel 1U Height .....</b>	<b>70</b>
<b>12.2.13.</b>	<b>Cat 6 4-Pair UTP Patch Cords.....</b>	<b>70</b>
<b>12.2.14.</b>	<b>Cat 6 Information Outlet .....</b>	<b>70</b>
<b>12.2.15.</b>	<b>Equipment Rack.....</b>	<b>71</b>
<b>12.2.16.</b>	<b>Electrical System, Cabling &amp; Earthing.....</b>	<b>71</b>
<b>12.2.17.</b>	<b>Junction Box for PTZ/Fixed Bullet Camera (if required) .....</b>	<b>72</b>
<b>12.2.18.</b>	<b>Pole For PTZ Camera .....</b>	<b>72</b>
<b>12.2.19.</b>	<b>Solar UPS – 3KVA with 6 Hours Battery Backup.....</b>	<b>72</b>
<b>12.2.20.</b>	<b>Online UPS – 3 KVA with 4 Hours Backup .....</b>	<b>78</b>

<b>12.2.21.</b>	<b>5 KVA Air Cooled Servo Controlled/ IGBT Voltage Stabilizer*</b>	<b>78</b>
<b>13.</b>	<b>Annexure 1 – Instructions for Pre-Qualification Bid</b>	<b>79</b>
<b>13.1.</b>	<b>Bid Cover Letter</b>	<b>79</b>
<b>13.2.</b>	<b>Checklist for the documents to be included in the Pre-Qualification</b>	<b>80</b>
<b>13.3.</b>	<b>Format to share Organizational Profiles</b>	<b>81</b>
<b>13.4.</b>	<b>Formats to share Bidder details</b>	<b>82</b>
<b>14.</b>	<b>Annexure 2 – Formats of Technical Bid</b>	<b>84</b>
<b>14.1.</b>	<b>Form 1: Undertaking on Total Responsibility</b>	<b>84</b>
<b>14.2.</b>	<b>Form 2: Particulars of the Bidder</b>	<b>85</b>
<b>14.3.</b>	<b>Form 3: Manufacturers'/Producers' Authorization Form</b>	<b>86</b>
<b>14.4.</b>	<b>Form 3A: No Malicious Code Undertaking Letter</b>	<b>87</b>
<b>14.5.</b>	<b>Form 4: Undertaking of Service Level Compliance</b>	<b>88</b>
<b>14.6.</b>	<b>Form 5: Undertaking on Exit Management and Transition</b>	<b>89</b>
<b>14.7.</b>	<b>Form 6: Declaration that the bidder has not been blacklisted</b>	<b>90</b>
<b>14.8.</b>	<b>Form 7: Statement of Deviation from Requirement Specifications</b>	<b>91</b>
<b>14.9.</b>	<b>Form 8: Statement of Deviation from Tender Terms and Conditions</b>	<b>92</b>
<b>14.10.</b>	<b>Form 9: Warranty Certificate</b>	<b>93</b>
<b>14.11.</b>	<b>Form 10- Undertaking on Office Premises (in firm/ company letter head)</b>	<b>94</b>
<b>14.12.</b>	<b>Form 11- Performance Guarantee</b>	<b>95</b>
<b>14.13.</b>	<b>Form 12: Bank Guarantee for Earnest Money Deposit</b>	<b>97</b>
<b>14.14.</b>	<b>Form 13: Pre-Qualification - Compliance Sheet</b>	<b>98</b>
<b>14.15.</b>	<b>Form 14 - Project Citation Format</b>	<b>101</b>
<b>14.16.</b>	<b>Form 15 - Team Composition</b>	<b>102</b>
<b>14.17.</b>	<b>Form 16 - Curriculum Vitae (CV) of Key Personnel</b>	<b>103</b>
<b>14.18.</b>	<b>Form 17 – Technical Qualification Compliance Sheet</b>	<b>105</b>
<b>14.19.</b>	<b>Form 18 – Letter for Technical Proposal</b>	<b>109</b>
<b>14.20.</b>	<b>Form 19 – Cost Bid Format</b>	<b>Error! Bookmark not defined.</b>
<b>15.</b>	<b>Annexure 3 A– List of Locations (Police Station)</b>	<b>116</b>
<b>16.</b>	<b>Annexure 3 B – List of Locations (Out Post)</b>	<b>146</b>

## 1. Abbreviations

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Acronym	Description
BSEDC	Bihar State Electronic Development Corporation
CAPEX	Capital Expenditure
CCTV	Closed Circuit Television
COTS	Commercial Off the Shelf Products
DMC	District Monitoring Center
GIS	Geographic Information System
ICT	Information and Communication Technology
INR	Indian Rupees
IP	Internet Protocol
IT	Information Technology
LAN	Local Area Network
OPEX	Operating Expenditure
PC	Personal Computer
Purchaser	BSEDC, Patna
RFP	Request for Proposal
SI	System Integrator
SLA	Service Level Agreement
UPS	Uninterrupted Power Supply

## 2. Definition

#	Term	Definition
1	Agreement/ Contract	The Agreement entered between the BSEDC and the Agency including all attachments, schedules, annexure thereto and all documents incorporated by reference therein and all amendments, corrigendum /corrigenda, changes thereto
2	Department	Bihar State Electronics Development Corporation (BSEDC)
3	Bidder	The use of the term “Bidder” in the Tender means the Single Agency who will submit the Bid.
4	Bid/Proposal	Offer by the Bidder to fulfil the requirement of the Client under the RFP/Contract for an agreed price. It shall be a comprehensive technical and commercial response to the Tender
5	Confidential Information	All information (whether in written, oral, electronic or other format) which relates to the technical, financial and business affairs, dealers, suppliers, products, developments, operations, processes, data, trade secrets, design rights, know-how, plans, budgets and personnel of each stakeholder and its affiliates which is disclosed to or otherwise learned by the other Party in the course of or in connection with this Agreement (including without limitation such information received during negotiations, location visits and meetings in connection with this Agreement);
6	Deliverables	Products, infrastructure and services agreed to be delivered by the Bidder in pursuance of the agreement as defined more elaborately in the RFP Implementation and the Maintenance phases and includes all documents related to the user manual, technical manual, design, process and operating manuals, service mechanisms, policies and guidelines (such as security related, etc.), inter alia payment and/or process related etc., source code and all its modifications;
7	Go-Live	The date of commencement of Operations and Maintenance phase after the successful completion of each Phase (FAT and acceptance of the overall solution by the BSEDC)
8	Intellectual Property Rights	All rights in written designs and copyrights, moral rights, rights in databases and Bespoke Software / Pre-existing work including its up-gradation systems and compilation rights (whether any of these are registered and including application for registration);
9	Performance Security	Unconditional guarantee provided by the Bidder from a Nationalized Bank in favor of the BSEDC for 5% of the Contract value
10	Project Implementation	Project Implementation as per the testing standards and acceptance criteria prescribed by BSEDC or its nominated agencies;
11	Request for Proposal/ Tender Document	Written solicitation that conveys to the Bidder, requirements for products/ services that the BSEDC intends to buy and implement
12	SLA	The level of service and other performance criteria which will apply to the Services delivered by the Bidder; Performance and Maintenance SLA executed as part of this Master Service Agreement;
13	Successful Bidder	The bidder who is qualified & successful in the bidding process and is given the award of Contract and will be referred to as System Integrator (SI)/Implementation Agency
14	Warranty	Warranty is for a period of 3 years from the date of 'Go-Live or till 31 <sup>st</sup> July 2025 ,whichever is later'



### 3. Schedule of Bid Process

S. No	Information	Details
1.	RFP No. and Date	<b>Tender NIT No. BSEDC/2354/21, Dated: 04.05.2021 5pm</b>
2.	Last date for submission of written queries for clarifications	<b>12.05.2021 till 1 pm</b> <b>Email: <a href="mailto:k.mishra@semt.gov.in">k.mishra@semt.gov.in</a>, <a href="mailto:jitendra.itm@gmail.com">jitendra.itm@gmail.com</a></b>
3.	Date of pre-bid conference	<b>13.05.2021 at 12 pm – Through VC link. Link will be shared with the bidders who have shared the pre bid queries as per the specified time and date.</b>
4.	Bid validity period	<b>180 days from the last date (deadline) for submission of proposals.</b>
5.	Non-Refundable Tender Fee/ Cost	<b>INR. 10,000 only (Rupees Ten thousand only) payable online through e-Procurement</b>
6.	Earnest Money Deposit (EMD/Bid Security)	<b>INR 10,000,000 only (Rupees one crores only) through online payment in eproc site or Bank Guarantee from a scheduled bank in India and payable at Patna in favour of BSEDC</b>
7.	Last date (deadline) for submission of bids	<b>03.06.2021 till 5 pm</b>
8.	Opening of General & Technical Bids	<b>04.06.2021 at 5.30 pm</b>
9.	Technical Presentation by the Successful Bidders	<b>“Will be intimated later”</b>
10.	Place, Time, and Date of opening of Financial proposals received in response to the RFP notice	<b>“Will be intimated later”</b>
11.	Contact person for queries	<b>Shri Kailash Pati Mishra, Jitendra Tripathi</b> <b>BELTRON Bhawan, Shashtri Nagar, Patna, Bihar</b> <b>Tel No: - 0612-2281242, 0612-2281857</b> <b>Fax No: - 0612-2281857</b> <b>E-mail: <a href="mailto:k.mishra@semt.gov.in">k.mishra@semt.gov.in</a>, <a href="mailto:jitendra.itm@gmail.com">jitendra.itm@gmail.com</a></b>
12.	Addressee and address at which proposal or any supporting/original bank guarantee etc. in response to RFP notice is to be submitted:	<b>Managing Director</b> <b>BSEDC Ltd, BELTRON Bhawan, Shashtri Nagar, Patna, Bihar</b> <b>Tel No: - 0612-2281242, 0612-2281857</b> <b>E-mail: <a href="mailto:mdbeltron@bihar.gov.in">mdbeltron@bihar.gov.in</a></b>

- The Bidding process shall be conducted in an online (e-tendering) manner. Please visit <https://www.eproc2.bihar.gov.in> for further details regarding the e-Tendering process.
- All the clarifications / corrigendum to the queries, notification & details terms and conditions regarding, this tender notice hereafter will be published on line on web site [www.bsedc.bihar.gov.in](http://www.bsedc.bihar.gov.in) or <https://www.eproc2.bihar.gov.in>.

## **4. Introduction**

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### **4.1. About Bihar**

Bihar is a state in East India. It is the 13th largest state, with an area of 94,163 km<sup>2</sup> (36,357 sq. mi) and the 3rd largest by population. It is entirely land-locked state, which is bounded by West-Bengal in the east, Uttar Pradesh to its west, Nepal in the north and Jharkhand to the south. The Bihar plain is bifurcated into two unequal halves by the river Ganges which flows from west to east. Bihar was the center of power, learning and culture in ancient and classical India where the ruins of the worlds' earliest university slumbers in the void of time. State of Bihar is divided into 40 administrative districts.

### **4.2. Project Background**

Government of Bihar has envisaged in setting up of CCTV based surveillance system comprising IP based CCTV cameras at all the 1056 Police Stations located in 40 Police Districts and 4 Rail Police zones over a provisioned hybrid network (currently the system is working on standalone mode). The system is including significant number of cameras with enablement of technologies like high resolution & magnification, motion detection, infrared vision, etc.

BSEDC had floated a RFPs for “Selection of implementation agency for IP based CCTV Surveillance System with Solar/Online UPS at Police stations in Bihar.” After successful completion of the bid process management for the project, M/s TATA Advanced System LTD (M/s TAS LTD) was selected as system integrator/implementation agency for implementation of IP based CCTV Surveillance System with Solar/Online UPS at Police stations in Bihar.

- The major locations that are covered Under CCTV under the phase-1 of the project in a Police station are:
  - a) Male Lockup room – 1 Fixed;
  - b) Female Lockup room – 1 Fixed;
  - c) Complaint Register Area – 1 or 2 Fixed cameras;
  - d) Citizen Service Interface clearance area, license room, passport verification area – 2 or 3 cameras;
  - e) Main Entry – 1 Fixed;
  - f) Main Exit – 1 Fixed;
  - g) Outside location – 1 PTZ;
  - h) Godowns – 1 Fixed;
  - i) SHO cabin – 1 Fixed.

As per the Hon'ble Supreme Court order mentioned that the State has to ensure that CCTVs installed in such a manner that most of the viewing area has to be covered. It is imperative to ensure that CCTV cameras are installed at all entry and exit points; main gate of the police station; all lock-ups; all corridors; lobby/the reception area; all verandas/outhouses, Inspector's room; Sub-Inspector's room; areas outside the lock-up room; station hall; in front of the police station compound; outside (not inside) washrooms/toilets; Duty Officer's room; back part of the police station etc. Video cameras to have Audio system along with the video facility.

To comply with Honorable Supreme Court order, there is a requirement to enhance the scope of the project for 1096 police stations and 264 outposts. Currently BSEDC has implemented CCTV surveillance system in 959 locations where new camera, Mic & storage will be upgraded and new 304 locations where installation will be done. In this regard, details of equipment required to cover all additional & new location is mentioned at section-9, Detailed Scope of work .

### **4.3. About Bihar Police**

Bihar Police comes under direct control of Department of Home Affairs, Government of Bihar. The Bihar Police is headed by a Director General of Police (DGP). The state is divided into four zones (Patna, Muzaffarpur, Darbhanga and Bhagalpur), each commanded by an Additional Director General

(Addl. DGP) or an Inspector-General (IGP). Each zone is divided into two to three ranges, each commanded by a Deputy Inspector-General (DIGP). Within each range are anywhere from three to six districts, each under a Superintendent of Police. Patna is under a Senior Superintendent of Police. The following are the Police Ranges and the districts comprising each Range:

Zone	Range	Name of District
<b>Bhagalpur</b>	Bhagalpur	Banka
		Bhagalpur
		Naugachhia
	Munger	Begusarai
		Jamui
		Khagaria
		Lakhisarai
		Munger
		Sheikhpura
<b>Darbhangha</b>	Darbhanga	Darbhangha
		Madhubani
		Samastipur
	Purnea	Araria
		Katihar
		Kishanganj
		Purnea
	Saharsa	Madhepura
		Saharsa
		Supaul
<b>Muzaffarpur</b>	Bettiah	Bagaha
		Bettiah
		Motihari
	Chhapra	Chhapra
		Gopalganj
		Siwan
	Muzaffarpur	Muzaffarpur
		Sheohar
		Sitamarhi
		Vaishali
<b>Patna</b>	Gaya	Arwal
		Aurangabad
		Gaya
		Jehanabad
		Nawada
	Patna	Nalanda
		Patna
	Rohtas	Bhabhua
		Bhojpur
		Buxar
		Rohtas
<b>Rail</b>	Rail	Rail Jamalpur
		Rail Katihar
		Rail Muzaffarpur
		Rail Patna

The Police Stations/outposts are the lowest functional units of the police department. There are at present 1096 Police Stations & 264 Police outposts, 191 Circle Offices, 101 SDPOs and 44 DPOs (including Railway Police). The Police Stations are headed by Inspectors by the designation of Station House Office (SHO) at Police Station. In these Police Stations there are 2 -4 Sub Inspectors, besides a number of Assistant Sub- Inspectors, Head Constables and Police Constables. In rural areas, the Police

Stations are headed by either a single Sub - Inspector or two Sub - Inspectors according to the importance of the police station.

The rural Police Stations are grouped into circles and these circles come under a Sub-Division. Sub-Divisions are headed by Deputy Superintendents of Police and Circles by Police Inspectors.

*The project is planned to be executed in the 1096 Police Stations & 264 Police outposts across the state covering 40 Districts and 4 rail Districts. The list of Police stations with address is provided in the Annexure 3*

#### 4.4. Project Stakeholders

Sl. No	Stakeholder	Roles and Responsibilities
1	Bihar Home Department	DPR approval, Budget allocation and necessary permissions and approvals
2	Bihar Police Department	DPR approval, provide proper support and infrastructure for system deployment, Proper upkeep of systems installed at Police Station, operation and necessary permissions & approvals
3	Bihar State Electronics Development Corporation (BSEDC)	DPR acceptance, Budget allocation, RFP approval, Vendor selection, Project implementation, and monitoring,
4	Project Management Consultant (PwC)	System requirement analysis, System design, DPR Preparation, RFP Preparation, Bid Management, SI Selection, and Project Management with required recommendation.
5	Existing System integrator (M/s TAS LTD)	Provide support in integration of new systems in the existing set up
5	System Integrator (SI) – To be selected for enhancement at 959 existing police station and 304 new police stations/outposts and other police stations feasible to be covered within the implementation timeline & site ready.	Supply, Installation, Testing, Commissioning. Support and maintenance

#### 4.5. Summary of the Scope of work

The proposed video Surveillance System will involve setting up of IP based security cameras across various locations in the Police Stations of Bihar. The video surveillance data from various cameras deployed will be stored and monitored at the Police Stations. Later on, the feeds will be given to centralized location.

Key highlights of the scope of work of the successful System Integrator are as follows:

<b>Locations</b>	<b>1096 Police Stations &amp; 264 Police outposts</b>
<b>Cameras</b>	IP based 6264 Bullet Cameras + 330 PTZ Cameras
<b>Mic</b>	7000 External Mics for audio recording
<b>Viewing Center</b>	Police Stations
<b>Storage of feeds</b>	<ul style="list-style-type: none"> <li>548 days storage of video feeds at Police Stations Recording will be with date, time and geo-stamping facility</li> </ul>
<b>Monitoring of System</b>	<b>At SHO room of each Police Stations</b>
<b>Solar UPS/Online UPS System</b>	<b>At each Police Station</b>
<b>Project Go Live Period (all regions)</b>	6 months
<b>Warranty</b>	3 years or 31 <sup>st</sup> July 2025 whichever is later from Go live date

#### 4.6. Project Timelines

Time is essence. The project to be completed within the overall proposed timelines of 6 months as follows:

#	Activity	Timeline
1.	Mobilization of Resources and preparation of the Inception Report	<b>T + 1 Weeks</b>
2.	Preparation of detailed Technical Architecture of the Overall System in consultation with all the Stakeholders	<b>T + 4 Weeks</b>
3.	Preparation of FRS & Site Survey reports	
4.	Prepare SRS & SDD for the Entire Video Surveillance System	
5.	Supply & Installation of edge devices and another field equipment to working locally	<b>T + 21 Weeks</b>
6.	Training and Capacity Building for the Police Personnel for Phase I	<b>T + 22 Weeks</b>
7.	<b>Go Live of Phase I after Acceptance Testing (PAT &amp; FAT)</b>	<b>T + 24 Weeks</b>

# T: Date of the Signing of contract with successful bidder

#### 4.7. Payment Schedule

<b>PART-A: Capital Expenditure (CAPEX)</b>		
<b>#</b>	<b>Milestone</b>	<b>Supporting Document Required</b>
<b>1</b>	On delivery of 60% material as per bill of material proposed by the successful bidder in their bid: <b>30% of itemized CAPEX Bill amount.</b>	<ul style="list-style-type: none"> <li>On delivery of 60% of the material at warehouse. Delivery Challan should contain the serial number of the equipment being supplied.</li> <li>HSN code should be mentioned against each line item of the Invoice submitted</li> </ul>
<b>2</b>	On delivery of remaining material as per final Survey Quantity <b>20% of itemized CAPEX Bill amount.</b>	<ul style="list-style-type: none"> <li>On delivery of remaining material at warehouse. Delivery Challan should contain the serial number of the equipment being supplied.</li> <li>HSN code should be mentioned against each line item of the Invoice submitted</li> </ul>
<b>3</b>	On delivery of material at Police stations <b>10% of itemized CAPEX Bill amount.</b>	<ul style="list-style-type: none"> <li>Against delivery challan/Courier receipt at Police station</li> </ul>
<b>4</b>	On completion of Physical Installation of both Surveillance system and UPS at district wise Police stations as per the Project Timelines <b>10% of the Capex value of the respective Police Stations or completed sites.</b>	<ul style="list-style-type: none"> <li>Physical Installation completion certificate with detail BOM signed by competent police authority.</li> </ul>
<b>5</b>	On completion of powering up of the system and successful commissioning at district wise Police stations as per the Project Timelines <b>10% of the Capex value of the respective Police Stations or completed sites.</b>	<ul style="list-style-type: none"> <li>PAT report approved by BSEDC</li> </ul>
<b>6</b>	On completion and Go-Live of all locations except site not ready and hold sites <b>10% of the Capex value of the respective Police Stations or completed sites.</b>	<ul style="list-style-type: none"> <li>Go-Live certificate issued by BSEDC. For successful Go-Live, issuance of FAT and Acceptance certificate by the BSEDC is mandatory.</li> </ul>

**Note:** The SI may raise invoice in a lot of minimum 50 no. of sites against Milestone 1 & 2. Lot below 50 no. of sites will not be acceptable by BSEDC.

**Remaining 10% of the capex value will be given to the successful bidder on completion of each Quarter after Go-Live after necessary deductions, if any.**

<b>Part B Operational Expenditure (Opex) Including Manpower Cost and Warranty Support</b>			
<b>#</b>	<b>Activity/task</b>	<b>Deliverables (Supporting for the</b>	<b>Payment Milestone</b>

milestone completion)			
1	Deployment of Manpower	Attendance records & preventive maintenance report certified by SHO/Any authorized officer of police department for individual police stations/outpost along with admin log health status details of system	In equal QGRs, based on actual deployment from the date of Go Live
2	Extended Warranty and O&M Support of hardware starting from Go Live	Preventive maintenance report certified by SHO/Any authorized officer of police department for individual police stations/outpost. Extended warranty cost of hardware quoted for each year divided quarterly	In equal QGRs

**\* If any site (Police station) is not ready or is on hold due to reasons not attributed to SI for T+26 weeks (timeline for installation and commissioning) in such a scenario installation and commissioning date can be considered as last date of T+26 week and the SI can submit the invoice for 30% of the Capex value of the respective site.**

**\*\* Successful bidder must submit all the required documents with invoice for processing of payment. Successful bidder needs to submit tax invoices in triplicate for processing of payment. All payments are subject to punitive deductions as and when applicable.**

**\*\*\*Bidder to submit a PG of 10% of total Capex value valid for next 3 years 9 months (Till project completion or 31<sup>st</sup> October 2025 whichever is later)**

**\*\*\*\* Operations and Maintenance phase of the project will be started after Final Acceptance Test (FAT). SI will also be required to provide full time O&M support for thirty-six (36) months Or till 31-Jul-2025 whichever is later.**

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## 5. Instructions to the Bidders

### 5.1 General Instructions

While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, Bidders are free to assess and propose the solution needed to meet the requirements. All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by the BSEDC on the basis of this RFP.

No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the BSEDC. Any notification of preferred bidder status by the BSEDC shall not give rise to any enforceable rights by the Bidder. The BSEDC may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the BSEDC without giving any reason.

This RFP supersedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.

### 5.2 e-Procurement 2.0 PROCESS related instructions.

#### Submission of Proposals (Through electronic mode only)

1. The bidder shall submit his bid/tender on e-Procurement 2.0 platform at [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in).
2. The bidder must have the Class II/III Digital Signature Certificate (DSC) and e-Tendering User-id of the e-Procurement website before participating in the e-tendering process. The bidder may use their DSC if they already have the DSC. They can also take DSC from any of the authorized agencies. For user-id they have to get registered themselves on e-procurement website [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in) and submit their bids online on the same. Offline bids shall not be entertained by the Tender Inviting Authority for the tenders published in e-Procurement 2.0 platform.
3. The bidders shall submit their eligibility and qualification details, Technical bid, Financial bid etc., in the online standard formats given in e-Procurement 2.0 web site at the respective stage only. The bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria / technical bids and other certificate /documents in the e-Procurement 2.0 web site. The bidder shall digitally sign on the supporting statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity. The bidder shall attach all the required documents for the specific tender after uploading the same during the bid submission as per the tender notice and bid document.
4. All the required documents should be attached at the proper place as mentioned in the e-forms otherwise the tender of the bidder will be rejected.
5. Tender Processing Fee (TPF) to be paid through **e-Payment** mode (i.e. NEFT / RTGS, Net Banking, Credit / Debit Card) only.
6. Cost of BOQ/ Form Fee to be paid through **e-Payment** mode (i.e. NEFT / RTGS, Net Banking, Credit / Debit Card) only.
7. "Earnest Money Deposit (EMD) can be paid either through online mode or manual mode (BG). In case of manual mode of payment of EMD, the original hardcopy of the EMD i.e. BG that should be submitted in the tendering authority office within the next working day after tender closing date."

**Note:** "Bids along with necessary online payments must be submitted through e-Procurement portal [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in) before the date and time specified in



the NIT/RFP. The department/Tendering Authority doesn't take any responsibility for the delay / Non Submission of Tender / Non Reconciliation of online Payment caused due to Non-availability of Internet Connection, Network Traffic / Holidays or any other reason."

8. The tender opening will be done online only.
9. Any corrigendum or date extension notice will be given on the e-Procurement website only.
10. For support related to e-tendering process, bidders may contact at mentioned below:

**Toll Free No. 1800 572 6571,**  
**Email Id: - eproc2support@bihar.gov.in**

Note: "Bids along with necessary online payments must be submitted through e-Procurement portal [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in) before the date and time specified in the NIT/RFP. The department/Tendering Authority doesn't take any responsibility for the delay / Non Submission of Tender / Non Reconciliation of online Payment caused due to Non-availability of Internet Connection, Network Traffic / Holidays or any other reason."

### **5.3 Bid Documents**

Bidder is expected to examine all instructions, forms, terms, and requirements in the bid document. Failure to furnish all information required by the bid document or submit a Bid not substantially responsive to the bid document in every respect may result in the rejection of the Bid. The bids should be submitted in three parts as mentioned hereunder on or before last date and time of submission mentioned in this RFP or through any corrigendum.

#### **5.3.1.Pre-qualification bid as per eligibility criteria specified**

1. A letter on the bidder's letterhead,
  - i Undertaking on Total Responsibility - (Refer Annexure 2- Form 1)
  - ii The profile of the bidder – (Refer Annexure 2- form 2)
  - iii Audited annual financial results (balance sheet) of the bidder for the last three financial years. iv Statutory Auditor / CA Certificate for Net Worth, Profitability and annual IT/ITES services business of the bidder
  - v Manufacturer's Authorization Form and No Malicious code declaration – (Refer Annexure 2- Form 3 and 3A)
  - vi Undertaking on Service Level Compliance – (Refer Annexure 2- form 4)
  - vii Undertaking on Exit Management and Transition – (Refer Annexure 2- form 5)
  - viii Self-Declaration of bidder not been blacklisted by any Government Agency – (Refer Annexure 2- form 6)
  - ix Statement of Deviation from Requirement Specifications – (Refer Annexure 2- form 7)
  - x Statement of Deviation from Tender Terms and Conditions – (Refer Annexure 2- form 8)
  - xi Warranty – (Refer Annexure 2-form 9)
  - xii A self-certified declaration by the authorized signatory of the bidder for having office in Bihar. – (Refer Annexure 2- Form 10)
2. Certificate of Incorporation/Registration Certificate
3. The EMD in the form of a Bank Guarantee issued by a Nationalized / Scheduled Bank, in favor of Bihar State Electronics Development Corporation Limited, payable at Patna or it can be made through the online payment gateway in eproc site before tender opening date and time. (Annexure 2 Form 12)
4. Quality certification in delivery of services sought under this RFP, from an internationally recognized/reputed agency, e.g. ISO 9001: 2015

5. Certificate from HR Department of the company for the number of technically qualified professionals employed by company (B.E/B.Tech/MCA/Diploma on its payroll as on bid submission date)
6. Reference list of major clients (using equipment/services similar to scope of the work mentioned in the RFP).
- Performance Bank Guarantee to be submitted at the time of issuance of work order. (Annexure 2, Form 11). Copy of PAN Card, EPF, ESI registration and GST registration duly attested by the authorized signatory of the Company.
9. A letter accepting all terms of this RFP to be uploaded into the e-Procurement site.
10. Copy of Board resolution or POA for bidder authorizing the person to sign on behalf of the company or Power of Attorney for the designated person.

#### **5.3.2. Technical Bid**

- (a) Bid particulars
- (b) Bid letter
- (c) Proposed Network Architecture, Technical Solution, details of equipment and services offered
- (d) Un-priced Bill of Material (BOM) with functional and technical requirement compliance.
- (e) Qualification and Deployment Schedule of the proposed staff for the project
- (f) Proposed Project Plan and Implementation Schedule
- (g) Statement of deviation from requirement specifications
- (h) Statement of deviation from tender terms and conditions
- (i) Schedule of delivery
- (j) Warranty
- (k) Manufacturer's authorization form(s).

#### **5.3.3. Cost Bid**

- (a) Bid letter
- (b) Bid particulars including priced Bill of Material (BOM)
- (c) Statement of commercial deviation

Bidders should enclose with their offer's full details of all the equipment and services offered as well as their latest equipment and services available with full documentation and descriptive literature supplementing the description and point out any special feature of the equipment and services. All documentation is required to be in English.

#### **5.4. Completeness of Response**

I. Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.

II. Failure to comply with the requirements of this paragraph may render the Proposal non-compliant and the Proposal may be rejected. Bidders must:

- (A) Include all documentation specified in this RFP;
- (B) Follow the format of this RFP and respond to each element in the order as set out in this RFP
- (C) Comply with all requirements as set out within this RFP.

## 5.5. Pre-bid Conference (PBC) & Clarifications

BSEDC shall hold a pre-bid meeting with the prospective bidders on the mentioned date at office of BSEDC. The Bidders will have to ensure that their queries for Pre-Bid meeting should reach to the Nodal officer as per the schedule of bids by email only in editable excel format.

The responses will be transmitted to the prospective bidders through appropriate means. However, it will be bidder's responsibility that they collect all responses. Non-attendance at the Pre-Bid Conference will not be a cause for disqualification of a Bidder. The queries should necessarily be submitted in the following format in editable excels.

For each bidder, maximum of 2 representatives are allowed. The representatives should be employees of the Bidding Company.

S. No.	RFP Document Reference(s)	Section & Page Number(s)	Content of RFP requiring Clarification(s)	Points of clarification	Justification for the Changes being suggested
1.					
2.					
3.					
4.					

BSEDC shall not be responsible for ensuring that the bidders' queries have been received and / or addressed by them. Any requests for clarifications after the indicated date and time may not be entertained by the BSEDC.

### 5.5.1. Responses to Pre-Bid Queries and Issue of Corrigendum:

Tenderer reserves the right not to respond to any/all queries raised or clarifications sought if, in their opinion and at their sole discretion, they consider that it would be inappropriate to do so or do not find any merit in it. The corrigendum shall be uploaded on the website [www.bsedc.bihar.gov.in](http://www.bsedc.bihar.gov.in) and [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in).

BSEDC will endeavor to provide timely response to all queries. However, BSEDC makes no representation or warranty as to the completeness or accuracy of any response; nor does BSEDC undertake to answer all the queries that have been posed by the bidders.

At any time prior to the last date for receipt of bids, BSEDC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document through a corrigendum. The Corrigendum (if any) & clarifications to the queries from all bidders will be posted on the website [www.bsedc.bihar.gov.in](http://www.bsedc.bihar.gov.in) and [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in).

Any such corrigendum shall be deemed to be incorporated into this RFP. In order to provide prospective Bidders reasonable time for taking the corrigendum into account, BSEDC may, at its discretion, may extend the last date for the receipt of Proposals.

### 5.5.2. Bid security i.e. Earnest Money Deposit (EMD)

- Bidders shall submit, along with their Bids, EMD of INR 10,000,000/- (One Crore only), in the form of a Bank Guarantee (in the format specified in Annexure 2-Form 12 issued by any Scheduled/nationalized bank in favor "Bihar State Electronics Development Corporation Ltd", payable at Patna and should be valid for 6 months from the date of submission of technical bid response. No interest shall be payable on Bid Security under any circumstance. Bidders can also make the EMD payment through the online at eproc2 site.
- EMD of all unsuccessful bidders would be refunded by BSEDC within sixty (60) days of the bidder being notified as being unsuccessful. The EMD, for the amount mentioned above, of successful bidder would be returned upon submission of Performance Bank Guarantee as per the format provided in Annexure 2-Form 11.
- The successful Bidder's Bid security shall be discharged upon the Bidder signing the Agreement.

- d. The EMD amount is interest free and will be refundable to the unsuccessful bidders without any accrued interest on it.
- e. The bid / proposal submitted without EMD, mentioned above, will be summarily rejected.
- f. The EMD may be forfeited:
  - i. If a bidder withdraws its bid during the period of bid validity.
  - ii. In case of a successful bidder, if the bidder fails to sign the contract in accordance with this RFP.

## **5.6. RFP Document Fees**

- a) RFP document can be purchased from the office of BSEDC by paying a non-refundable bank amount of INR 10,000/- (INR Ten thousand) online.
- b) The bidder may also download the RFP documents from the website [www.bsedc.bihar.gov.in](http://www.bsedc.bihar.gov.in) and [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in). In such case, RFP document fees should be paid online through e-payment mode i.e. NEFT/RTGS/ Credit Card/ Debit Card on [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in). Proposals received without or with inadequate RFP Document fees shall be rejected.

## **5.7. Cost of Bidding**

The Bidder shall bear all costs associated with the preparation and submission of its Bid and The BSEDC shall in no event be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process

## **5.8. Right to Terminate the Process**

- (a) BSEDC may terminate the RFP process at any time and without assigning any reason. BSEDC makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- (b) This RFP does not constitute an offer by BSEDC. The bidder's participation in this process may result BSEDC selecting the bidder to engage towards execution of the contract.

## **5.9. Authentication of Bids**

The Proposal should be accompanied by a board resolution/power-of-attorney in the name of the signatory of the Proposal.

## **5.10. Site Visit**

It is the responsibility of the bidder to visit the proposed sites at their own cost and assessing the feasibility before submitting their technical solution and offer to get a clear idea about the work and preparation of requirement across the sites. BSEDC will facilitate bidders to get access to the sites upon prior intimation.

## **5.11. Bid Validity**

All bids should remain valid for a period of 180 days (i.e. 6 months) from the bid submission date and BSEDC reserves the right to reject a bid valid shorter than 6 months considering as non-responsive without any correspondence.

In special circumstances, BSEDC may solicit extension of the period of validity from a bidder. The request and the response thereto shall be made in writing. Extension of validity period by the bidder shall be unconditional. The EMD provided shall also be sufficiently extended. Bidder granting extension of validity will not be permitted to modify its technical or financial bid.

## **5.12. Language**

The Proposal should be filled by the Bidder in English language only. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Bidders

## **5.13. Handwritten documents, Erasures or Alterations**

The offers containing erasures or alterations will not be considered. There should be no hand-written material, corrections or alterations in the offer. Filling up of the information using terms such as

“OK”, “noted”, “as given in brochure/manual” is not acceptable and may lead to the dis-qualification of the Bid.

#### **5.14. Fraud and corruption**

BSEDC require that Bidder must observe the highest standards of ethics during the entire process of tendering and during execution of the contract. In pursuance of this policy, The BSEDC define, for the purpose of this provision, the terms set forth as follows:

- (a) “Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of the Department in contract executions.
- (b) “Fraudulent practice” means a misrepresentation of facts, in order to influence a procurement process or the execution of a contract, to Department, and includes collusive practice among bidders (prior to or after Proposal submission) designed to establish Proposal prices at artificially high or non-competitive levels and to deprive The BSEDC of the benefits of free and open competition.
- (c) “Unfair trade practices” means supply of services different from what is ordered on or change in the Scope of Work which is given by the BSEDC in this Tender.
- (d) “Coercive Practices” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.

The BSEDC shall reject the Bid proposal for award of contract, if it determines that the Bidder recommended for award, has been found to have been engaged in corrupt, fraudulent or unfair trade practices. Once the contract is signed and if it is noticed that the SI has indulged into the Corrupt / Fraudulent / Unfair / Coercive practices, it will be a sufficient ground for The BSEDC for termination of the contract and initiate blacklisting of the Bidder.

#### **5.15. Tender Opening**

The Proposals submitted before the last date and time of submission will be opened as per the schedule of bid process mentioned in the data sheet of this RFP or notified by a corrigendum through the eproc site.

#### **5.16. Rejection criteria**

Besides other conditions and terms highlighted in the Tender Document, bids may be rejected under following circumstances:

##### **5.16.1. General rejection criteria**

- i Conditional Bids;
- ii If the information provided by the Bidder is found to be incorrect / misleading / fraudulent at any stage / time during the Tendering Process;
- iii Any effort on the part of a Bidder to influence the bid evaluation, bid comparison or contract award decisions;
- iv Bids without signature of person (s) duly authorized on required pages of the bid;
- v Bids without power of attorney/ board resolution.

##### **5.16.2. Pre-Qualification rejection criteria**

- i Bidders not complying with the Eligibility Criteria given in this Tender
- ii Failure to furnish all information required by the Tender Document or submission of a bid not substantially responsive or clarification sought by BSEDC is not adequately addressed and complied by the bidder;

##### **5.16.3. Technical rejection criteria**

- i Technical Bid containing commercial details;
- ii Revelation of Prices in any form or by any reason before opening the Commercial Bid;
- iii Failure to furnish all information required by the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect;
- iv Bidders not quoting for the complete scope of Work as indicated in the Tender Documents, addendum (if any) and any subsequent information given to the Bidder;

- v Bidders not complying with the Technical and General Terms and conditions as stated in the Tender Documents;
- vi The Bidder not confirming unconditional acceptance of full responsibility of providing services in accordance with the Scope of work and Service Level Agreements of this tender
- vii Each bidder should offer/ quote single make and models against all items. Bidder quoting multiple make and models in their technical bid will lead to rejection.

#### **5.16.4. Commercial Rejection Criteria**

- i Incomplete Price Bid;
- ii Price Bids that do not conform to the Tender's price bid format;
- iii If there is an arithmetic discrepancy in the commercial Bid calculations the Technical Committee shall rectify the same. If the Bidder does not accept the correction of the errors, its bid may be rejected.

#### **5.17. Licensing**

The Implementing Agency will follow the following licensing conditions:

- i The SI shall procure the licenses of the third-party software in accordance with its procedures by payment of applicable license fees on behalf of Bihar Police. The licenses thus procured would be in the name of Bihar Police. The SI shall ensure that third party vendors provide standards-based customer interface and also takes into account other factors like regular updates and support etc.
- ii The SI should provide adequate licenses for all the modules mentioned in the scope so that all users can access their respective functionalities as per their role without any constraints.
- iii All licenses should be either supported by OEMs/subscription providers for entire contract period.
- iv All the aforesaid products should have a roadmap for updates and patch management either from OEM or Subscription provider and providing the same would be the responsibility of the SI for the contract period.

#### **5.18. Clarifications**

If deemed necessary, BSEDC may seek clarifications on any aspect from the bidder. However, that would not entitle the bidder to change or cause any change in the substance of the tender submitted or price quoted. BSEDC may, if so desire, ask the bidder to give a presentation for the purpose of clarification of the tender. All expenses for this purpose, as also for the preparation of documents and other meetings, will be borne by the bidders.

#### **5.19. Preliminary Examination**

BSEDC will examine the bids to determine whether they are complete, whether required bid security has been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

Bids from agents without proper authorization from the manufacturer shall be treated as non-responsive.

A bid determined as not substantially responsive will be rejected by BSEDC and may not subsequently be made responsive by the bidder by correction of the non-conformity.

BSEDC may, if necessary, waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any bidder

#### **5.20. Joint Venture, Consortium or Association**

Consortium or associations of companies is not allowed. The definition of consortium and joint ventures does not include any tie-up with OEMs on company's own account.

#### **5.21. Concessions permissible under statutes**

Bidder, while quoting against this tender, must take cognizance of all concessions permissible, if any, under the statutes and ensure the same is passed on to the BSEDC, failing which it will have to bear extra cost. In case Bidder does not avail concessional rates of levies like customs duty, excise duty, sales tax, etc. The BSEDC will not take responsibility towards this. However, The BSEDC may provide necessary assistance, wherever possible, in this regard.

## 6. Criteria for Evaluation

- I The overall objective of this evaluation process is to select the capable and qualified firm to Supply, Installation, Testing, Commissioning and Maintaining the IP based **CCTV Surveillance Project for Police Stations in Bihar State**. First the Pre-Qualification Proposal will be evaluated and only those bidders who qualify the requirements will be eligible for next set of evaluations. Technical Proposal and Commercial Proposal of Bidders who do not meet the Pre-Qualification criteria will not be considered.
- II The technical score of all the bidders would be calculated as per the criteria mentioned above. All the bidders who will achieve **70** or more marks in the technical evaluation would be eligible for the next stage, i.e. Financial Bid opening.
- III Proposals of Companies would be evaluated as per Technical Evaluation Criteria. Bidders should clearly indicate, giving explicit supporting documentary evidence, with respect to the below, in absence of which their proposals will be rejected summarily at the qualification stage itself.

### 6.3. Pre-qualification / Eligibility criteria:

The bidder must meet the following pre-qualification requirements to become eligible for the Technical & Commercial Evaluation.

Sr. No.	Qualification Criteria	Documents/Information to be provided in the submitted proposal
1.	<p>The responding firm/agency</p> <p>(a) Should have made a payment of INR.10,000.00 (Rupees ten thousand) (non-refundable) for the Tender Fee</p> <p>(b) Should have submitted EMD of INR. 10,000,000.00 (Rupees one Crore only)</p>	<p>(a) Cost of tender document must be submitted through E-payment only; else bid will be summarily rejected.</p> <p>(b) EMD should be in favor of “Bihar State Electronics Development Corporation Ltd’ Payable at Patna and issued by any scheduled / nationalized bank in the form of a Demand Draft or original bank guarantee. Bidders can also deposit the EMD through online payment in state e-procurement site.</p>
2.	<p>Legal Entity</p> <ul style="list-style-type: none"> <li>The Company should be in the IT/ITES/Telecom business for at least last 5 (five) years as of 31st March 2021 and should be registered under Companies Act, 1956</li> </ul>	<p>a) Copy of Certificate of Incorporation</p> <p>b) Copy of Registration Certificate</p> <p>c) Form 2 :- “Particulars of the Bidder”-</p> <p>Copy of all documents listed above should be attested by authorized signatory and must be submitted along with the response</p>
	<ul style="list-style-type: none"> <li>Registered with the Income Tax, GST and Provident Fund authorities in India</li> </ul>	<p>a) Copy of PAN Card</p> <p>b) Copy of GST Certification</p> <p>c) Copy of EPF Registration</p> <p>Copy of all documents listed above should be attested by authorized signatory and must be submitted along with the response</p>



3.	The Net Worth of the bidder must be positive for each of the last 3 audited financial years.	Separate Chartered Accountant Certificate for positive Net worth for bidder .
4.	The bidder must not be blacklisted by any Government/Public Sector organization /department in India at the time of submission of the response to this RFP	A declaration as per the format prescribed in Form - “Declaration that the bidder has not been blacklisted” to be given by the authorized signatory of the responding firm– Annexure – 2, Form 6
5.	<p>Bidder’s Average annual Sales Turnover must be INR 200 Crores or above / Cumulative turnover of 450 Cr for the last 3 audited financial years.</p> <p>In case Bidder is a wholly owned subsidiary, the financial experience of Parent company would be considered for eligibility, provided the parent company operates in India. In that case Parent company needs to provide an undertaking that the parent company will</p>	Audited accounts of the company as filed before the Registrar of Companies. In case the breakup of revenues is not available in the manner required in the audited Balance Sheet, the Bidder shall submit a certificate to this effect from the statutory auditor of the company/CA of the company
6.	<p>The Bidder must have successfully completed and running similar projects for more than a year, for Government/PSU/ Nationalized Bank/Academic or Training Institutions/Autonomous Body/Large Enterprise (Listed company with 1000 Cr. Turnover in India for last 3 financial years) the following criteria-</p> <p>Total number of IP CCTV cameras installed in the last 7 years <math>\geq 5200</math> (Surveillance should be part of the scope of work of the project).</p> <p>Note: Any large ongoing project with work order issue date before 1 year of date of RFP and PAT/FAT/SAT certificate/ declaration from client clearly mentioning Go-Live CCTV camera quantity details may be considered as successfully completed project reference</p>	Ref format: Form 14:- “Project Citation Format” supported with Work order or Purchase Order (PO) or Letter of Intent (LoI) and Proof of Go-live/ Project completion/Client satisfactory certificates signed by the authorized official from client mentioning the scope of work and project value. BSEDC may check the authenticity of the documents provided by the bidder.
7.	<p>The bidder must have successfully completed and running for more than a year, similar projects:</p> <p>1 order of value <math>\geq 55</math> cr or 2 orders each of value <math>\geq 34</math> Cr or 3 orders each of value <math>\geq 27</math> Cr</p>	Ref format: Form 14:- “Project Citation Format” supported with Work order or Purchase Order (PO) or Letter of Intent (LoI) and Proof of Go-live/ Project completion/Client satisfactory certificates signed by the authorized official from client mentioning the scope of work and project value. BSEDC may check the authenticity of

	<b>Similar projects mean Surveillance or Networking projects spread across multiple police stations/Court/Jail locations. Any large ongoing project with work order issue date before 1 year of date of RFP and PAT/FAT/SAT certificate/ declaration from client clearly mentioning Go-Live details and BOQ may be considered as successfully completed project reference.</b>	the documents provided by the bidder.
8.	The bidder should be ISO 9001:2015 & ISO 27001 :2013 certified.	Copy of certification which is valid on date of submission.
9.	The bidder must have at least 50 IT professionals (B.E/B.Tech/MCA) on its payroll as on bid submission date	Certificate from HR Department for number of technically qualified professionals employed by the company along with EPF account detail
10.	The bidder should have direct authorization from the Original Equipment Manufacturer (OEM) for selling and supporting the equipment offered	Refer: Form: - “Manufacturers’/Producers’ Authorization Form” for the MAF and complete the associated table provided with the form.  – Annexure – 2, Form 3
11.	Bidder should have registered office in Bihar.  Alternatively, if the bidder doesn’t have an office in Bihar, then they have to furnish an undertaking that an office would be established in Bihar, within 1 (one) month of signing the contract, to provide warranty and post warranty services.	A self-certified declaration by the authorized signatory of the bidder should be submitted along with the proposal.
12.	Authorized signing authority	Separate “Copy of Board resolution” or POA for bidder authorizing the person to sign on behalf of the company or Power of Attorney for the designated person to be provided as per the format prescribed in Form “Bidder's Authorization Certificate”. (Must be on a Non-Judicial INR 100/- Stamp Paper or higher)”

- *Note: Last 3 consecutive audited financial years before 2016-17 will not be considered for evaluation and the bid will summarily be rejected.*
- Any organization debarred / black-listed by Central / State Government in India, at the time of submission of the RFP, shall not be allowed to participate in this tender. Bidder need to submit a self-certification in this regard.

- Sub-contracting / outsourcing would be allowed only for work like
  - Passive Networking & Civil Work during implementation
  - FMS staff for non-IT support during post-implementation
  
- The bidder is expected to provide details of the sub-contractors for the work which is allowed as mentioned in the clause. An approval from BSEDC would be needed for subcontracting of the allowed work to any sub-contractor.

## 7. Qualifying Criteria for Technical Bid

Prior to the detailed evaluation of the Technical Bids, BSEDC shall determine whether each bid is (a) complete, (b) is accompanied by the required information and documents and (c) is substantially responsive to the requirements set forth in the RFP documents.

BSEDC has formed a Technical Committee, which will evaluate both technical & commercial bids received in response to this RFP. The findings of the said Committee and subsequent decision of State Government shall be final and binding on all the bidders. Only those bidders, who fulfill all the criteria / requirements mentioned in the bid, shall be eligible and qualified for technical scrutiny as per the Evaluation Framework given below.

BSEDC may in its sole discretion, waive any informality or non-conformity or irregularity in a Bid Document, which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder.

### 7.1. Technical Evaluation Criteria

A detailed evaluation of the bids shall be carried out in order to determine whether the bidders are competent enough and whether the technical aspects are substantially responsive to the requirements set forth in the RFP. Bids received would be assigned scores based on the parameters defined in table below.

Sl No.		Evaluation Criteria	Description	Marks	Supporting Documents Required
1	Financial Strength	Annual turnover of the bidder in each of the last 3 audited financial years	<p>Average Turnover</p> <p>a. <math>\geq 200</math> Crores and <math>&lt; 250</math> Crores - 10 Marks b. <math>\geq 250</math> Crores and <math>&lt; 300</math> Crores - 14 Marks</p> <p>c. <math>\geq 300</math> Crores and <math>&lt; 350</math> Crores - 18 Marks d. <math>\geq 350</math> Crores - 20 Marks</p> <p>Or</p> <p>Cumulative Turnover</p> <p>a. <math>\geq 450</math> Crores and <math>&lt; 500</math> Crores - 10 Marks b. <math>\geq 500</math> Crores and <math>&lt; 550</math> Crores - 14 Marks</p> <p>c. <math>\geq 550</math> Crores and <math>&lt; 600</math> Crores - 18 Marks d. <math>\geq 600</math> Crores - 20 Marks</p>	20	Balance sheets and certificate from CA
2	Past Experience	Technical Capability in executing & managing large IP Based CCTV Surveillance projects for Government body / PSU / Nationalized Bank/ Academic or Training Institutions/Autonomous Body/ Large Enterprise	Total Number of IP based CCTV cameras implemented in last 5 years as per pre-qualification terms (Work order copy to be submitted) $\geq 5200$ IP cameras as per pre-qualification terms -10	15	Project citation highlighting the mentioned activities supported by Work order/Agreement/Client Certificate

		(Listed company with 1000 Cr. Turnover in India for last 3 financial	marks b. For every 500 cameras more- 1 marks		
		Order value- of the bidder successfully completing and running for more than a year Networking and Integrated Security Surveillance order for Police department/Courts/Jail	3 order of value $\geq 27$ Cr - 10 marks 2 orders each of value $\geq 34$ Cr -15 marks 1 order of value $\geq 55$ Cr - 20 marks	20	Project citation highlighting the mentioned activities supported by Work order/Agreement/Client Certificate
3	Presence in Bihar	Presence in Bihar	a. Only have GST Registration in Bihar- <b>2 marks</b> . b. Involved in a running Govt. project in Bihar but doesn't have an office/GST Registration in Bihar- <b>3 marks</b> c. Involved in a running Govt. project in Bihar and also have an office and GST Registration in Bihar - <b>5 marks</b>	5	Project citation highlighting the mentioned activities supported by Work order/Agreement/Client Certificate& Copy of Registration Certificate as proof of presence in Bihar (if applicable)
4	Fulltime Deployment Resource Criteria for entire duration of the contract	Project Manager (1)	Must have $\geq 08$ years of work experience and points for the same will be allocated as follows: <b>Qualification:</b> • BE / B. Tech and MBA = 1 <b>Certification:</b> PMP / Prince2 Certification = 1 <b>Project Experience:</b> Managed projects with the similar scope of work and Operation & Maintenance • $<3$ projects $\& >1$ = 1 • $\geq 3$ projects = 2 <b>Experience:</b> • $\leq 8$ years $\& \geq 10$ = 0.5 • $> 10$ years = 1	10	Detailed CV in given format

		Technician (15)	<p>Must have <math>\geq 5</math> years of work experience and points for the same will be allocated as follows:</p> <p><b>Project Experience:</b></p> <p>Projects with the similar scope of work and Operation &amp; Maintenance</p> <ul style="list-style-type: none"> <li>• 2 projects = 0.5</li> <li>• <math>&gt;2</math> projects = 1</li> </ul>	10	Detailed CV in given format
5	Approach & Methodology and Presentation	Approach & Methodology and Presentation (15 Mins of presentation)	<p>In this section, the responding firm should Explain the:</p> <ul style="list-style-type: none"> <li>• Understanding of the project requirements</li> <li>• highlight the expected support from various stakeholders of the project</li> <li>• approach to the services, SLA management methodology</li> <li>• methodology for carrying out the activities for expected output - (2 mark for Technical Proposal and 2 Mark for Presentation)</li> </ul> <p>–Highlight :</p> <ul style="list-style-type: none"> <li>• the associated risks / problems and plans for mitigation and explain the technical approach it would adopt to address them – (2 mark for Technical Proposal and 2 Mark for Presentation)</li> </ul> <p>– Explain:</p> <ul style="list-style-type: none"> <li>• the methodologies</li> </ul>	20	Technical Proposal & Presentation - The copy of the presentation to be emailed to the contact person of BSEDC as mentioned in this RFP before 1 day of the presentation date (to be decided and informed) and the same will also be binding on the Bidder.

			<p>the responding firm proposes to adopt and highlight the compatibility of those methodologies with the proposed approach - (2 mark for Technical Proposal and 2 Mark for Presentation)</p> <p>– Work Plan &amp; Digitization:</p> <ul style="list-style-type: none"> <li>• Detailed Plan to achieve the timeline</li> <li>• Plan for Integration with the existing system - (4marks)</li> </ul> <p>– Security &amp; Policy enforcement:</p> <ul style="list-style-type: none"> <li>• Detailed Plan and methodology proposed for securing the network, data, enforcing policy for content filtering and unethical access etc. - (2 mark for Technical Proposal and 2 Mark for Presentation)</li> </ul>		
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**Note:** - The technical score of all the bidders would be calculated as per the criteria mentioned above. All the bidders who will achieve **70** or more marks in the technical evaluation would be eligible for the next stage, i.e. Financial Bid Evaluation.

## 7.2. Commercial Bid Evaluation

Commercial Bid of only those bidders who obtain minimum 70% in the overall technical score (and minimum 60% in the different categories mentioned in the earlier sub-sections) shall be opened. Bidder quoting the lowest price (L1) will be declared as the successful bidder. The lowest evaluated bid price will be the sum total of lowest quoted CAPEX & OPEX cost inclusive of applicable taxes.

In the event that there are 2 or more bidders have offered the same lowest Evaluated Bid Price, the bidder securing the highest technical score will be adjudicated as the “Best responsive bid” for award of the Project. The successful Bidder would be awarded the letter of Intent followed by Work Order (s).

In case more than one Bidder have offered the same lowest Evaluated Bid Price and they have the same technical score, BSEDC will determine the Successful Bidder out of such Bidders in a manner as considered appropriate by BSEDC and his decision in this regard shall be final and binding on all Bidders.

In the above process, if there are only two eligible Bidders scoring qualifying marks, BSEDC reserves the right to go ahead with Commercial Bid evaluation with those two Bidders only.

Costs of capital investments quoted in the project should not exceed more than 70 (Seventy) percent of total costs of the fixed scope of the project. In case the bidder quotes higher figures towards capital costs the same shall be restricted to 70 (Seventy) percent and the balance shall be made a part of Quarterly OPEX payments. Accordingly, all the module/ schedule of CAPEX cost will be reduced proportionately.

In financial bid evaluation if L1 bidder does not agree or found qualified to take order then subsequently L2 and L3 will be given chance to execute the order provided they matches the L1 bidders price.

Any figures (price) if left blank by the bidder in Financial e-form will be taken ‘0’ (zero) by BSEDC.

### **7.3. Conditional offers by the Vendors**

The vendor should abide by all terms and conditions specified in the RFP Document. Conditional offers shall be liable for dis-qualification.

### **7.4. Late Tender offers**

Any tender offer received by BSEDC after the deadline for submission of tender offer prescribed by BSEDC, will be summarily rejected.

### **7.5. Offer validity Period**

*Proposals shall be valid for a period of 180 days (one hundred and eighty days) from the date of opening of the proposals. A Proposal valid for shorter period may be considered as non-responsive. In exceptional circumstances, at its discretion, BSEDC may solicit the bidder's consent for an extension of the validity period. The request and the responses thereto shall be made in writing or by fax or email.*

### **7.6. Address of Communication**

Offers should be addressed to the BSEDC and submitted at below given address:

**Managing Director**

**BSEDC Ltd, BELTRON Bhawan, Shashtri Nagar, Patna, Bihar**

**Tel No:- 0612-2281242, 0612-2281857**

### **7.7. Opening of Offers**

Offers received within the prescribed closing date and time will be opened in presence of bidder representatives (who choose to attend the opening of tender), on the date, time & at the address communicated separately to all the bidders who have purchased the RFP documents. The vendor's representatives present shall sign a register of attendance.

The dates for opening of Technical would be communicated subsequently, as and when the Pre-qualification scrutiny is completed. Vendors would be given sufficient notice to make technical presentation with respect to the Evaluation Framework and their proposed solution. Duration of the presentation would be about 1 hour. Vendors who qualify in the Technical Evaluation will be informed of the location, date, and time set for opening of financial proposals.



#### **7.8. Clarification of Offers**

To assist in the scrutiny, evaluation and comparison of offers, BSEDC may, at its discretion, ask some or all vendors for clarifications with regards to their offer. The request for such clarifications and the response will necessarily be in writing (by letter / fax / email). Failure of a Bidder to submit additional information or clarification as sought by BSEDC within the prescribed period will be considered as a non-compliance and the proposal may get evaluated based on the limited information furnished along with the bid proposal.

#### **7.9. Right to Accept Any Offer and to Reject Any or All Offers**

BSEDC, reserves the right to accept or reject any tender offer, and to annul the tendering process and reject all tenders at any time prior to award of control, without thereby incurring any liability to the affected vendor(s) or any obligation to inform the affected vendor(s) of the grounds for such action.

#### **7.10. Notification of Award**

BSEDC will notify the successful Bidder via letter / fax /email of its intent of accepting the bid. Within 7 days of receipt of the Letter of Intent issued by the BSEDC, the successful Bidder shall be required to sign the LoI and return the same to the address specified above as a token of acceptance of the LoI.

#### **7.11. Performance Guarantee**

As a condition precedent to execution of the Agreement, the successful Bidder shall ensure submission of the requisite unconditional irrevocable Bank Guarantee, in the prescribed format within 15 days of receipt of the LoI as a Performance Guarantee for the services to be performed under the resultant Agreement. The Bank Guarantee shall be equivalent to 10% of the total Order value and must be issued by a Nationalized Bank. The Performance Guarantee shall be valid for the term of the resultant Agreement, and shall be renewed and maintained as necessary by the SI for the term of the resultant Agreement, and extensions if any.

Earnest Money Deposits (EMD) submitted by the bidders along with their proposal shall be refunded to all bidders, except the successful bidder, within 30 days of issuance of the LoI. EMD of the successful Bidder shall be returned on successful execution of the resultant Agreement.

The Performance Guarantee may be liquidated by the BSEDC as penalty / liquidated damages resulting from the System Integrator's (SI) failure to complete its obligations under the resultant Agreement. The Performance Guarantee shall be returned by BSEDC to the vendor within 90 days of the term/expiration of the resultant Agreement after applicable deductions as per the Agreement, if any.

#### **7.12. Signing of Contract**

Subsequent to BSEDC's notification to the successful Bidder by way of a LoI, acceptance of the LoI and submission of the Performance Guarantee, the successful Bidder shall execute the Agreement with the BSEDC. Failure of the successful Bidder to furnish the Performance Guarantee or execute the Agreement within 15 days from issue of LoI shall cause the EMD of the successful Bidder to be liquidated. In such event, BSEDC shall negotiate with the next eligible bidder. The successful Bidder will be liable to indemnify BSEDC for any additional cost or expense, incurred on account of failure of the successful Bidder to execute the Agreement. LoI will be issued to bidder on basis of L1 value and RFP BOQ. However final BOQ and order value may vary after site survey which shall be acceptable by the bidder. Thus, work order shall be issued based on the final order value and BOQ only.

Notwithstanding anything to the contrary mentioned above, the BSEDC at its sole discretion shall have the right to extend the timelines for execution of Agreement on the request of the successful Bidder, provided the same is bona fide.

**7.13. Concessions permissible under statutes**

Bidder, while quoting against this tender, must take cognizance of all concessions permissible, if any, under the statutes and ensure the same is passed on to the Purchaser, failing which it will have to bear extra cost. In case bidder does not avail concessional rates of levies like customs duty, excise duty, sales tax, etc. BSEDC will not take responsibility towards this. However, BSEDC may provide necessary assistance, wherever possible, in this regard.

**7.14. Taxes**

The Bidders shall fully familiarize themselves about the applicable domestic taxes (such as GST, income taxes, duties, fees, levies, etc.) on amounts payable by the Purchaser under the resultant Agreement. All such taxes must be included by Bidders in the financial proposal. (Bidder to find out applicable taxes for the components being proposed.)

**7.15. Right to vary the scope of the work at the time of Award**

The Purchaser reserves its right to make changes to the scope of the work at the time of execution of the resultant Agreement. If any such change causes an increase or decrease in the cost of, or the time required for the SI's performance of any part of the work under the resultant Agreement, whether changed or not changed by the order, an equitable adjustment (if required) shall be made in the Contract Value or time schedule, or both, and the Agreement shall accordingly be amended. Any claims by the SI for adjustment under this Clause must be asserted within thirty (30) days from the date of the SI's receipt of the BSEDC changed order.

**7.16. Terms and Conditions of the Tender**

Bidder is required to refer to the draft Master Service Agreement, attached as Annexure in this RFP, for all the **terms and conditions (including project timelines)** to be adhered by the successful bidder during Project Implementation and Post implementation period. Please note that one needs to read the Master Service Agreement as a whole document; and the Annexures mentioned there-in may not correspond to the RFP Annexures. Please refer to the **Interpretation** Section of the Agreement (Section 2 of draft agreement) for reference of the Annexures.

**7.17. Special Terms and Conditions of the Tender**

**1. Liquidated Damages**

Subject to clause for Force Majeure if the bidder fails to complete the Police Station Surveillance project before the scheduled completion date or the extended date or if any.

- a. Vendor repudiates the contract before completion of the work, the BSEDC at its discretion may without prejudice to any other right or available remedy, may recover 0.5% of the CAPEX of contract value per week for first 4 weeks and 1% per week for 4 subsequent weeks and 2% per week for subsequent 2 weeks as Liquidity Damages (LD). If the penalty reaches 10% of the total contract value, BSEDC may invoke termination clause.
- b. In the case it leads to termination, the BSEDC shall give 30 days' notice to the vendor of its intention to terminate the contract and shall so terminate the contract unless during the 30 days' notice period the vendor initiates remedial action acceptable to the BSEDC.
- c. The BSEDC may without prejudice to its right to affect recovery by any other method deduct the amount of liquidated damages from any money belonging to the vendor in its hands (which includes the BSEDC right to claim such amount against vendor's Performance Bank Guarantee) or which may become due to the vendor. Any such recovery or liquidated damages shall not in any way relieve the vendor from any of its obligations to complete the works or from any other obligations and liabilities under the

Contract.

## **2. Performance security**

On receipt of notification of award from the BSEDC Ltd, the successful bidder shall furnish the performance security in accordance with the conditions of contract, in the performance security form provided in the bidding documents or in another form acceptable to the BSEDC. The Performance Guarantee shall be denominated in Indian Rupees and shall be in the form of a Bank Guarantee issued by a scheduled bank located in India with at least one branch office in Patna in the format provided by BSEDC.

Failure of the successful bidder to sign the contract, proposed in this document and as may be modified, elaborated or amended through the award letter, shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the BSEDC may make the award to another bidder or call for new bids.

The Performance Guarantee shall be returned to the Bidder within 30 days of the date of successful discharge of all contractual obligations at the end of the period of the Agreement by BSEDC. In the event of any amendments to Agreement, the Bidder shall within 15 days of receipt of such amendment furnish the amendment to the Performance Guarantee as required.

## **3. Force Majeure**

The Vendor shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this clause, "Force Majeure" means an event beyond the control of the Vendor and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the BSEDC in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Vendor shall promptly notify the BSEDC in writing of such condition and the cause thereof. Unless otherwise directed by the BSEDC in writing, the Vendor shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **4. Intellectual Property Rights**

All intellectual property rights for the work performed under this RFP as far as data is concerned shall lie with BSEDC. This clause is applicable to all data in any form or format designed and developed for BSEDC under this RFP by the vendor. The vendor shall not use such data for any other purpose during and after the term of contract.

## **5. Indemnity & Limitation of Liability**

### **a) Clause 1**

Successful System Integrator (the "Indemnifying Party") undertakes to indemnify BSEDC (the "Indemnified Party") from and against all Losses on account of bodily injury, death or damage to tangible personal property arising in favour of any person, Board or other entity (including the Indemnified Party) attributable to the Indemnifying Party's negligence or willful default in performance or non-performance under this Agreement. If the Indemnified Party promptly notifies Indemnifying Party in writing of a third party claim against Indemnified Party that any Service provided by the Indemnifying Party infringes a copyright, trade secret or patents incorporated in India of any third party, Indemnifying Party will defend such claim at its expense and will pay any costs or damages that may be finally awarded against Indemnified Party.

Indemnifying Party will not indemnify the Indemnified Party, however, if the claim of infringement is caused by (a) Indemnified Party's misuse or modification of the Service; (b) Indemnified Party's failure to use corrections or enhancements made available by the Indemnifying Party; (c) Indemnified Party's use of the Service in combination with any product or information not owned or developed by Indemnifying Party; (d) Indemnified Party's distribution, marketing or use for the benefit of third parties of the Service; or (e) information, direction, specification or materials provided by Indemnified Party or any third party contracted to it. If any Service is or likely to be held to be infringing, Indemnifying Party shall at its expense and option either (i) procure the right for Indemnified Party to continue using it, (ii) replace it with a non-infringing equivalent, (iii) modify it to make it non-infringing. The foregoing remedies constitute Indemnified Party's sole and exclusive remedies and Indemnifying Party's entire liability with respect to infringement.

**b) Clause 2**

The indemnities set out shall be subject to the following conditions:

- I The Indemnified Party as promptly as practicable informs the Indemnifying Party in writing of the claim or proceedings and provides all relevant evidence, documentary or otherwise;
- ii the Indemnified Party shall, at the cost of the Indemnifying Party, give the Indemnifying Party all reasonable assistance in the defence of such claim including reasonable access to all relevant information, documentation and personnel provided that the Indemnified Party may, at its sole cost and expense, reasonably participate, through its attorneys or otherwise, in such defence; and such cost borne by the indemnified party shall be deducted from the payment due to the Indemnifying party.
- iii if the Indemnifying Party does not assume full control over the defence of a claim as provided in this Article, the Indemnifying Party may participate in such defence at its sole cost and expense, and the Indemnified Party will have the right to defend the claim in such manner as it may deem appropriate, and the cost and expense of the Indemnified Party will be included in Losses;
- iv the Indemnified Party shall not prejudice, pay or accept any proceedings or claim, or compromise any proceedings or claim, without the written consent of the Indemnifying Party;
- v all settlements of claims subject to indemnification under this Clause will:
  - a) be entered into only with the consent of the Indemnified Party, which consent will not be unreasonably withheld and include an unconditional release to the Indemnified Party from the claimant or plaintiff for all liability in respect of such claim; and
  - b) include any appropriate confidentiality agreement prohibiting disclosure of the terms of such settlement;
- vi the Indemnified Party shall account to the Indemnifying Party for all awards, settlements, damages and costs (if any) finally awarded in favour of the Indemnified Party which are to be paid to it in connection with any such claim or proceedings;
- vii the Indemnified Party shall take steps that the Indemnifying Party may reasonably require to mitigate or reduce its loss as a result of such a claim or proceedings;
- viii in the event that the Indemnifying Party is obligated to indemnify an Indemnified Party pursuant to this Article, the Indemnifying Party will, upon payment of such indemnity in full, be subrogated to all rights and defences of the Indemnified Party with respect to the claims to which such indemnification relates; and
- ix if a Party makes a claim under the indemnity set out under Clause 15.1 above in respect of any particular Loss or Losses, then that Party shall not be entitled to make any further claim in respect of that Loss or Losses (including any claim for damages).

The liability of SI (whether in contract, tort, negligence, strict liability in tort, by statute or otherwise) for any claim in any manner related to this Agreement, including the work, deliverables or Services covered by this Agreement, shall be the payment of direct damages only which shall in no event in the aggregate exceed the amount specified in the contract. The liability cap given under limitation of liability clause shall not be applicable to the indemnification obligations set out here.

In no event shall either party be liable for any consequential, incidental, indirect, special or punitive damage, loss or expenses (including but not limited to business interruption, lost business, lost profits, or lost savings) nor for any third party claims (other than those set-forth in this section) even if it has been advised of their possible existence.

The allocations of liability in this Section represent the agreed and bargained-for understanding of the parties and compensation for the Services reflects such allocations. Each Party has a duty to mitigate the damages and any amounts payable under an indemnity that would otherwise be recoverable from the other Party pursuant to this Agreement by taking appropriate and commercially reasonable actions to reduce or limit the amount of such damages or amounts.

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## 8. Service Level Agreement

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Service Level Agreement (SLA) shall become the part of contract between BSEDC/Police Department and the Successful Bidder. SLA defines the terms of the successful Bidder's responsibility in ensuring the timely delivery of the deliverables and the correctness of the same based on the agreed Performance Indicators as detailed in this section. The successful Bidder has to comply with Service Levels requirements to ensure adherence to project timelines, quality and availability of services.

The successful bidder has to supply software / automated tools to monitor all the SLAs mentioned below.

**Note:** Penalties shall not be levied on the successful Bidder in the following cases:

- There is a force majeure event effecting the SLA which is beyond the control of the successful Bidder
- The non-compliance to the SLA has been due to reasons beyond the control of the bidder.
- Theft cases by default would not be considered as "beyond the control of bidder". However, certain cases, based on circumstances & certain locations, Police Department / BSEDC may agree to qualify as "beyond the control of bidder". Damages due to Road Accident / Mishap shall be considered as "beyond the control of bidder". However, Power shut down or deliberate damage to camera / Pole would not be considered as "beyond the control of bidder".

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 System Integrator to BSEDC / Bihar police for the duration of this contract.

### 8.1. Definitions

For the purposes of this service level agreement, the definitions and terms are specified in the contract along with the following terms shall have the meanings set forth below :

- **“Uptime”** shall mean the time period for the specified services / components with the specified technical service standards are available to the user department. Uptime, in percentage, of any component (Non IT & IT) can be calculated as:
- $$\text{Uptime} = \{1 - [(\text{Downtime}) / (\text{Total Time} - \text{Maintenance Time})]\} * 100$$
- **“Downtime”** shall mean the time period for which the specified services / components with specified technical and service standards are not available to the user department and excludes downtime owing to Force Majeure & Reasons beyond control of SI.
- **“Incident”** refers to any event / abnormalities in the functioning of the Services specified as part of the Scope of Work of the Systems Integrator that may lead to disruption in normal operations of the Surveillance System.
- **“Helpdesk Support”** shall mean the 24x7x365 centre which shall handle Fault reporting, Trouble Ticketing and related enquiries during this contract.
- **“Resolution Time”** shall mean the time taken (after the incident has been reported at the helpdesk), in resolving (diagnosing, troubleshooting and fixing) or escalating (to the second level or to respective Vendors, getting the confirmatory details about the same from the Vendor and conveying the same to the end user), the services related troubles during the first level escalation.

## 8.2. Measurement of SLA:

The SLA metrics provided specifies performance parameters as baseline performance, lower performance and breach. All SLA calculations will be done on quarterly basis. The SLA also specifies the penalties for lower performance and breach conditions. Payment to the successful bidder is linked to the compliance with the SLA metrics. The matrix specifies three levels of performance, namely,

- The Agency will get 100% of the Contracted value if the all baseline performance metrics are compiled and the cumulative credit points are 100
- The Agency will get lesser payment as per Section 8.
- If the performance of the Agency in respect of any parameter falls below the prescribed lower performance limit, debit points are imposed for the breach.

The quarterly payment shall be made after deducting the penalty as mentioned above.

The aforementioned SLA parameters shall be measured per the individual SLA parameter requirements and measurement methods, through appropriate SLA Measurement tools to be provided by the SI and audited by BSEDC or its appointed Consultant for accuracy and reliability. The System Integrator would need to configure the SLA Measurement Tools such that all the parameters as defined under SLA matrix can be measured and appropriate reports be generated for monitoring the compliance.

BSEDC shall also have the right to conduct, either itself or through any other agency as it may deem fit, an audit / revision of the SLA parameters. The SLAs defined, shall be reviewed by BSEDC on an annual basis after consulting the SI, Project Management Consultants and other experts. All the changes would be made by BSEDC after consultation with the SI and might include some corrections to reduce undue relaxation in Service levels or some corrections to avoid unrealistic imposition of penalty, which are noticed after project has gone live.

Bidder is also required to note that incase of SLA penalties not being applicable for the cases considered as “beyond the control of bidder”, bidder would be still required to solve the problem within the SLA defined for resolution of critical level/medium level/low level issues. In case bidder doesn't adhere to the issue resolution SLA timeline, the original SLA shall be made applicable

Total penalty to be levied on the SI shall be capped at 10% of the total contract value.

**BSEDC would have right to invoke termination of the contract if the overall penalty applicable in any 2 consecutive quarters during the contract period is 10% in each quarter.**

## 8.3. Planned Downtime

Any planned application / System downtime would not be included in the calculation of application / System availability. However, the Successful Bidder should take at least 10 days prior approval from Police Department / BSEDC in writing for the planned outage, which should not be for more than 30 minutes, would be in lean period (non-movement period, like post mid-night) and limited to max. 4 outages in a year.

## 8.4. Pre-Implementation SLA

### 8.4.1. Timely delivery of the Scope of Work

<b>Definition</b>	<b>Timely delivery of deliverables would comprise entire bill of material and the application systems, and as per successful FAT of the same.</b>	
<b>Service Requirement</b>	<b>Level</b>	All the deliverables defined in the contract has to be submitted On-time on the date as mentioned in the contract with no delay.

<b>Measurement of Service Level Parameter</b>	To be measured in Number of weeks of delay from the timelines mentioned in the section “Project Timelines”
<b>Penalty for non-achievement of SLA Requirement</b>	Penalty for non-achievement of SLA Requirement -Any delay in the delivery of the project deliverables would attract a <b>penalty of 1% of the CAPEX of contract value per week for a maximum of 10% of the total contract value. If the penalty reaches 10% of the total contract value</b> , BSEDC may invoke termination clause. Penalty will be computed on Capex value of contract.

#### 8.5. SLA Matrix for Post Implementation SLAs

#	SLA Parameters	Target
<b>1</b>	Availability of Cameras, Display, Video Management, Viewing and Recording System, Switches and UPS (24x7x365)	99%
<b>2</b>	Manpower Availability	99.99%



### 8.5.1. Penalty

The implementation agency / successful bidder shall be paid QGR as per the services (i.e. availability) provided to the tenderer. System downtime/Non availability will be calculated only after fault ticket raising timing.

Parameter	Availability of each location	Penalty i.e. deduction
<b>Availability of all Edge and active devices including UPS (24x7x365)</b>	>= 99%	No Penalty
	Between 97% to 99%	5.0% of QGR value of O&M
	Less than 97 %	10% of QGR value of O&M
<b>Manpower Availability*</b>	>= 99%	No Penalty
	Between 97% to 99%	1.0% of QGR value of O&M
	Between 97 % to 95%	5.0% of QGR value of O&M
	Less than 95%	10% of QGR value of O&M

\* QGR Value means Yearly O&M cost (of particular year) of Police Station as per Schedule C/D/E quoted by the bidder divided equally in 4 quarter.

\*\*Availability of manpower subjected to working days defined by Police department.

### 8.5.2. Security Breach SLA

Note – This SLA for Security Breach is applicable over and above the SLAs mentioned in above table.

Definition	Security of the video feeds and the overall system is quite important and successful bidder shall be required to ensure no compromise is done on the same. Security Breach types considered for this SLA are– <ul style="list-style-type: none"> <li>• Availability of Video feeds to any other user than those authorized by the Police Dept, and provided passwords</li> <li>• Availability of any report / data to any other user than those authorized by the Police Dept, and provided passwords</li> <li>• Successful hacking of any active component on the network by any unauthorized user</li> <li>• Or any other privacy rule is broken as per Govt of India guidelines</li> </ul>
Service Requirement	Level Security compliance of the system should be 100%
Measurement of Service Parameter	Level Any reported security breach shall be logged into the SLA Management solution as a security breach
Penalty for non-achievement of SLA Requirement	For every security breach reported and proved, there shall be a penalty of INR 100,000/-.

### 8.5.3. Breach in supply of Technical Manpower

Note – This SLA for supply of Technical Manpower is applicable over and above the SLAs mentioned in the table 6.5.

Definition	Bidder is required to propose the CVs of the required technical manpower. It is vital that such manpower is available to Police Department as mentioned in the RFP and performs to the expected levels. The current SLA breach shall specify penalty amount for non-availability of these manpower.
Service Requirement	Availability of the required manpower should be 100%
Measurement of Service Level Parameter	<p>Following instances would be considered as SLA non-compliances:</p> <ul style="list-style-type: none"> <li>Replacement of a profile by the bidder (only one replacement per profile would be permitted per year)</li> <li>Non-deployment of the profile for more than 1 month. BSEDC reserves the right to ask SI to replace the profile if the performance / commitment is not upto the mark</li> </ul> <p><b>Note:</b> Replacement due to reasons not in control of SI (like resignation of the resource, accident, etc.) would not be counted in the permissible 1 replacement.</p>
Penalty for non-achievement of SLA Requirement	For every SLA non-compliance reported and proved, there shall be a penalty of INR 20,000/-.

### 8.5.4. Explanation Notes for SLA Matrix

#### A) Camera Availability

Definition	“Camera Availability” means availability of the camera feed to the Central Monitoring Center / Police Stations.
Measurement of Service Level Parameter	$[(\text{Total average Uptime of all the Cameras in a quarter}) / (\text{Total Time in a quarter})] * 100$

#### B) Application Availability

Definition	Application availability refers to the total time when the Application is available to the users for performing all activities and tasks.
Measurement of Service Level Parameter	$[(\text{Total Uptime of the Application in a quarter}) / (\text{Total Time in a quarter})] * 100$

#### C) Quality of Feed

Definition	“Poor quality video feed” means blurred, jiggered, dim or unclear video. Camera Feed Error Resolution time is the time taken to improve the feed to satisfactory levels after it has been detected & logged by the Surveillance System / administrative officials. Logging of such calls would be through helpdesk system.
Service Requirement	The average availability of the quality of feed should be at 99%. This period is excluding the period of unavailability of camera. (i.e. the camera video quality would be judged for the period it's available).
Measurement of Service Level Parameter	$[(\text{Total average Uptime of all the Cameras in a quarter} - \text{Total time logged for poor quality video feed}) / (\text{Total average Uptime of all the Cameras in a quarter})] * 100$

#### D) Issue Resolution SLA

Explanation	Issue Resolution SLA shall monitor the time taken to resolve a complaint / query after it has been reported by BSEDC/Police Department to the successful bidder.
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RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Service Requirement	Level	Different Issues / Queries shall be classified as in following three categories as defined above.  <b>Critical :</b> Issue that impacts more than one production services / is raised by higher management / is impacting high importance areas  <b>Medium:</b> Issue that doesn't impact more than one production services but has a potential to impact or may get escalated to top management if not resolved quickly  <b>Critical :</b> Upgrades, shifting, preventive maintenance. Issues which don't have impact on services.
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## 9. Detailed Scope of Work for the System Integrator

The selected Systems Integrator (SI) shall have the overall responsibility to supply, install, commission, and maintain the Police Station Surveillance System for Bihar State. SI will have to maintain the implemented system for a period of five years from the date of successful Go-Live of the project.

The detail work to be undertaken by the Successful Bidder for setting up & operationalization of the Project is given in subsequent sections and is to be performed as per the specifications and conditions mentioned in this Tender, any further amendments issued and the contract to be signed with the Successful Bidder subsequently.

The proposed surveillance system will involve setting up of IP based cameras across various police stations in Bihar (indicative site list given in below).

The project has two components –

- I. Part-1 of the Project which includes Installation of additional cameras across the existing (959) CCTV installed police stations, Procurement of audio devices/Mics for every police station
- II. Part-2 of the project includes new Installation in 40 additional Police stations along with 264 police outposts, procurement of Additional Hard Disks and NVR to increase the storage

The broad components of the overall scope of work for the Project are given below for quick reference:

### **New Police Stations/Outposts (304)**

S No.	ITEM DESCRIPTION	UoM	QTY
1	IP Fixed Bullet Camera	Nos.	3,064
2	IP IR PTZ Camera with PSU	No.	304
3	Video Recording, Management and Monitoring System with 545 days of Storage as per specification	No.	304
4	L2 Managed Switch as per specification	No.	304
5	UTP Cat 6 Cable	Lumpsum	
6	24 Port Patch Panel, jacks, Face plate, I/O Box, Electrical cable, switches and accessories, conduit, connectors, joints, bends etc. and any other passive components. Earthing cost as per specification and all other spare equipment.	Lumpsum	
7	32" HD Display with Video cable up to 15 Meters.	No.	304
8	Equipment Rack with all accessories (Cable Manager PDU, Fan etc.)	No.	304
9	One Time Supply, Installation, Testing, Commissioning and User training charges	Lumpsum	304
10	8TB HDD for Storage	No.	1216

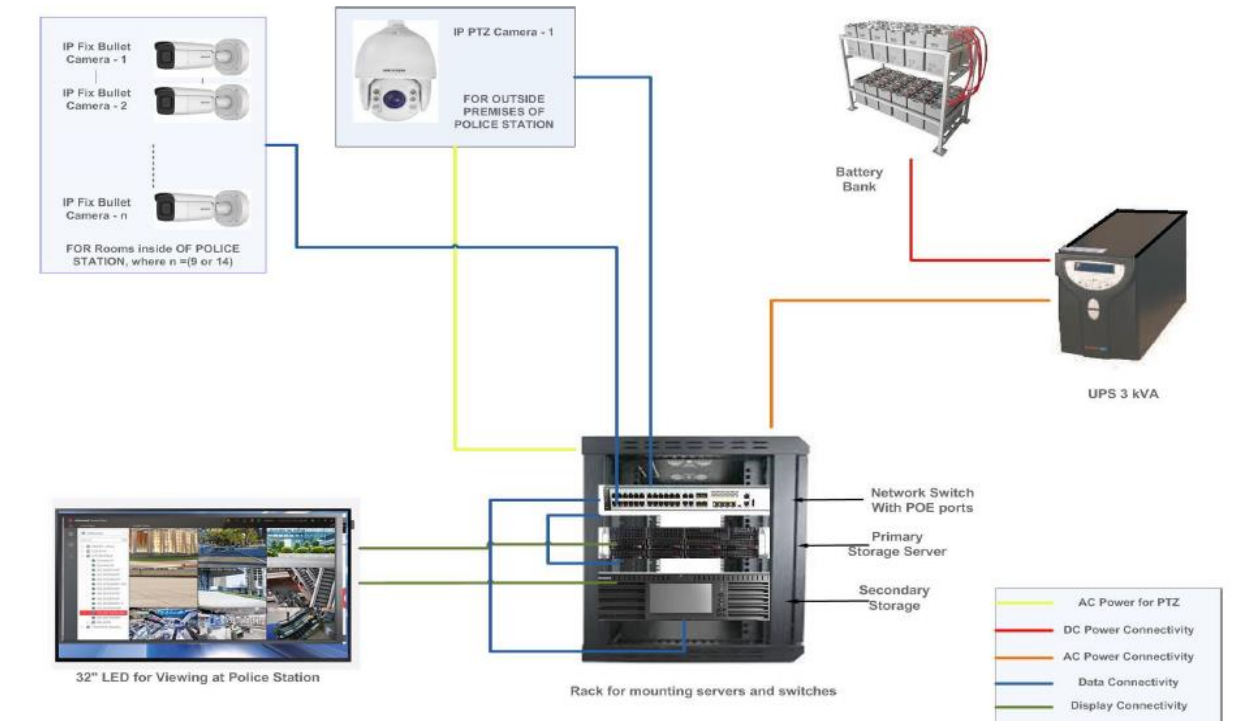
RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

S No.	ITEM DESCRIPTION	UoM	QTY
11	MIC for Audio recording and integration with CCTV Camera	No.	1824
12	SITC of 3 KVA Solar UPS with Isolation Transformer System with 6 hours Backup	Nos.	15
13	SITC of 3 KVA Online UPS with Isolation Transformer System with 4 hours Backup	Nos.	289
14	Pole for PTZ Camera	Nos.	105

**Existing Police Stations (959)**

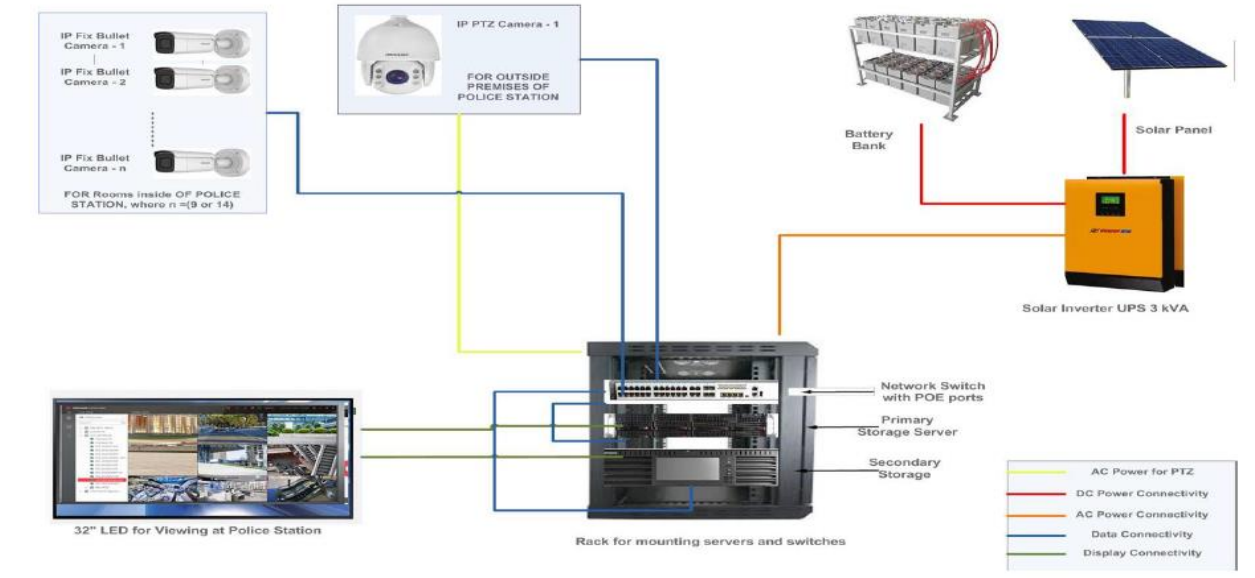
S No.	ITEM DESCRIPTION	UoM	QTY
1	IP Fixed Bullet Camera	Nos.	3,200
2	IP IR PTZ Camera with PSU	No.	26
3	Video Recording, Management and Monitoring System with 545 days of Storage as per specification	No.	45
4	UTP Cat 6 Cable	Lumpsum	
5	24 Port Patch Panel, jacks, Face plate, I/O Box, Electrical cable, switches and accessories, conduit, connectors, joints, bends etc. and any other passive components. Earthing cost as per specification and all other spare equipment.	Lumpsum	
6	32" HD Display with Video cable up to 15 Meters.	No.	45
7	Video Recording, Management and Monitoring System	No.	50
8	8TB HDD for Storage	No.	1284
9	MIC for Audio recording and integration with CCTV Camera	No.	5176
10	Cable (4-6 Sq. mm. Copper Cable)	Mts	6000

**Existing Architecture of police stations with online UPS**



**Existing Architecture of police stations with Solar UPS**

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*



RFP for Selection of System Integrator for IP based CCTV Surveillance with Solar UPS at Police

**A. Implementation Services**

- Site Survey for location finalization and submission of final Bill of Material (BoM).
- Supply of all material as per final BoM.
- Implementation of Web based Portal for SLA monitoring
- Partial Acceptance Testing & Final Acceptance Testing
- Planning, Suggesting and Submitting the Surveillance System up-grade plan(s) for five years from the date of acceptance along with detailed specifications including drawings, which should be in-line with the vision of the project
- System Documents, User Documents as per standard

**B. Post-Implementation Services**

- Implementation of Helpdesk Setup
- Providing manpower for technical support
- Planning, Suggesting and Submitting the Surveillance System up-grade plan(s) for five years from the date of acceptance along with detailed specifications
- Hand-over of the system at the end of contractual period along with all documentation required to operate and maintain the system.

**9.1. Site Survey for location Finalization and submission of a detailed Bill of Material**

Within 1 weeks of the issue of LoI, the Systems Integrator needs to deploy the team proposed for the project and ensure that a Project Inception Report is submitted to BSEDC, which should cover following aspects:

- I. Names of the Project Team members, their roles & responsibilities
- II. Approach & methodology to be adopted to implement the Project (which should be in line with what has been promised during bidding stage but may have value additions / learning in the interest of the project).
- III. Escalation matrix and Responsibility for all stakeholders
- IV. Risks the bidder anticipates and the plans they have towards their mitigation.
- V. Detailed Project Plan, specifying dependencies between various project activities / sub-activities and their timelines.
- VI. Site Survey Plan and Survey Report format

The site survey report (Survey report format to be shared with successful bidder) should have the details like exact camera locations in the Police Stations, number of cameras, Rack and monitor locations, cable quantity, site readiness etc. and to be signed and stamped by SHO/ authorized signatory of the Police Station with their comments. However, finalization of the qty. of camera, type of UPS will be decided centrally based on the survey report received. Detail plan of qty. finalization will be shared with the successful bidder.

CCTV cameras proposed across 1096 Police Stations & 264 Police outposts of the state for surveillance. The number of cameras has been finalized based on the guidelines provided by the Hon'ble Supreme court for monitoring Police Stations. The requirement is provisioned as below-

- Urban/Model Police Station will be monitored by 20 cameras (in combination with 19 Fixed and 1 PTZ at most of the cases)
- Rural Police Station will be monitored by 13 cameras (in combination with 12 Fixed and 1 PTZ at most of the cases)
- Viewing facility shall be available at Police Station,



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

- Wherever there is any further requirement to cover maximum areas, the number of PTZ cameras has been taken as addition to the above assumption
- 548 days of storage for the live feeds from CCTV cameras provisioned at 1096 Police Stations & 264 Police Outposts.
- Procurement of external Mic for 959 existing locations & 304 new police stations & Outposts

**Note: The above location and quantity of cameras are indicative. Actual work order will be issued on basis of the site survey report. Thus, actual quantity of items may vary from RFP BOQ. By participating in the bid all bidders are explicitly agreeing to this condition.**

Implementation of IP based CCTV Surveillance System with Online/ Solar UPS at Police stations in Bihar.		
Site Survey Report Format		
Name of Police Station:		
District:		
Name of SP Office:		
Date of Site		
Sl. No.	Details to be captured during site survey	Remarks
1.	Clean and stabilized power availability. Requirement of Voltage Stabilizer etc.	
2.	Space availability for installation of solar panel, UPS and battery rack	
3.	Availability of internet connectivity at the Police station	
4.	No. of Male Lockup room.	
5.	No. of Female Lockup room.	
6.	No. of rooms where Complaint Register Desks are located.	
7.	No. of rooms where Citizen Service Interface, clearance, license, passport verification Desks are located.	
8.	Common Entry /Exit for Police Station (Yes / No).	

Implementation of IP based CCTV Surveillance System with Online/ Solar UPS at Police stations in Bihar.		
Site Survey Report Format		
<b>Name of Police Station:</b>		
<b>District:</b>		
<b>Name of SP Office:</b>		
<b>Date of Site</b>		
<b>Sl. No.</b>	<b>Details to be captured during site survey</b>	<b>Remarks</b>
<b>9.</b>	If Sl. No. 8 is 'No', then how many entries exits points for the Police Station.	
<b>10.</b>	Total number of Rooms in Police station.	
<b>11.</b>	Total no. of cameras required (Fixed) for coverage of the police station as per RFP requirement.	
<b>12.</b>	Provide a block diagram of each Police station with approximate dimension of rooms	
<b>13.</b>	PIZ Camera Pole required (Yes/No). If Yes, then height of pole along with photo of Pole installation location to be submitted with survey report.	
<b>14.</b>	PIZ camera tentative cable distance from Rack location and type of mounting kit required (Pole/Wall/Corner mount) and Pole, JB required or not.	
<b>15.</b>	Provide a details Bill of material for the Police station as per site survey conducted.	
<b>16.</b>	Any additional comments/observation	

#### **9.1.1. Assess & Prepare**

##### **A1. Finalize the Camera distribution and exact positions of the Cameras at different Locations in consultation with Police Department / BSEDC**

Bidders are required to note that while executing the project, the successful bidder shall prepare the final camera distribution plan at all the camera locations in discussion with officer identified by Police Department / BSEDC. Actual place for placement of pole & number of cameras at each location, type of cameras, fixation of height & angle for the cameras would be done carefully to ensure optimum impact. Due to this, there could be some variation in type of the cameras at certain locations compared to the list given in Annexure -A of this RFP. Payments to be made to the Systems Integrator shall be based on actual number of cameras installed and unit rates quoted by the successful bidder shall be used to arrive at the same.

##### **A2. Finalize the Bill of Material for the number and type of the cameras to be implemented**

As per the current plan of the Bihar Police, 1096 police stations & 264 police outposts to be covered under CCTV surveillance. Indicative list of these locations along with the Police Department's assessment of the camera requirements is given in Annexure – A of the RFP. SI shall prepare the detail report on Edge level requirements – Cameras (types & numbers), Camera Mounting requirements, Power Requirements, Connectivity Requirements. Indicative list of the Edge Level Hardware / Services is as follows:

- Cameras (Fixed Cameras, PTZ Cameras)
- IR Illuminators
- Managed Switches
- Routers (optional)
- Junction boxes
- Pole / Mast / Cantilever
- Digging & Trenching
- Networking cables and other related infrastructure
- Provisioning of Electrical Power

During the course of project, if some camera requires change of FOV, it should be done by SI without any extra cost, in consultation with Police officials. However, number of such instances would be kept in check.

**Note:** Bidder not allowed to submit variation bid. Any change in scope of work finalized at the stage of contract finalization or after shall be dealt with in the ambit of the principles mentioned in the RFP. Police Department shall extend necessary support to SI (in terms of documentations, meetings with concerned authorities, etc.) for getting the approvals / licenses from concerned authorities, if all the necessary requirements are in place.

#### **9.2. Supply of all Materials as per final BoM**

The successful bidder shall arrange all the material as per final BoM and complying with the functional and technical specification in Annexure 1. All the material to be arranged at a single warehouse at Patna and SI shall send request to BSEDC for inspection. The request letter should enclose a list of all the materials with Make, Model, Serial number and Part code number for each Police Stations. BSEDC / appointed PMU shall inspect all material and shall issue the inspection Report.

Thereafter the SI shall send the material to the respective locations and submit the invoice along with the inspection report and the delivery challan / courier receipt.

### 9.3. Installation and Commissioning activity at Police Station

#### a. LAN connectivity requirements at locations

The successful bidder shall be responsible for establishment of the LAN connectivity requirements at the Police Stations. The LAN connectivity involves setting up the structured cabling, commissioning of active and passive components for operationalization of the surveillance system. The bidder to use ISI standard conduit, bends and joints for proper structured cabling. The successful bidder needs to ensure that all fittings, junction box, wiring and cabling should be as per Industry standards. A 9U/12U rack need to be mounted / installed at the SHO room or any place provided by the Police Department. The rack shall house the Video Management Recording and Monitoring System, L2 managed switch. All the Cat 6 cables shall run from the L2 managed Switch to the respective cameras. The Solar UPS shall power the network rack. The System to be connected with the network switch. The System should have the provision to store the video feed at Police Stations for 1 year. All the recording at Police Station will be at full frame rate. The bidder to provide a HDMI/Video cable to connect the System with a LED to be installed at SHO room.

#### b. Installation and Commissioning of the Cameras, Recoding, Management & Monitoring system and other equipment at Police stations

Bidders are required to note that while executing the project, the successful bidder shall finalize the actual place for placement of cameras at each Police Stations and fixation of height & angle for the cameras would be done carefully to ensure optimum impact. During the course of project, if some camera requires change of FOV, it should be done by SI without any extra cost, in consultation with Police officials. However, number of such instances would be kept in check.

**Note:** Bidder not allowed to submit variation bid. Any change in scope of work finalized at the stage of contract finalization or after shall be dealt with in the ambit of the principles mentioned in the RFP. Police Department shall extend necessary support to SI (in terms of documentations, meetings with concerned authorities, etc.) for getting the approvals / licenses from concerned authorities, if all the necessary requirements are in place.

The SI shall install, configure the IP cameras, recording system, Rack, Managed switch, UPS etc. at the identified locations and then undertake necessary work towards their commissioning. SI should use the industry best practice while positioning and mounting the cameras. Some of the checkpoints which need to be adhered by the SI while installing / commissioning cameras are as follows:

- Ensure Surveillance objective is met while positioning the camera, create the required field of view
- Carry out proper adjustments to have the best possible image

Benchmark specifications for various types of cameras to be supplied & operationalized as part of this project are given in **Annexure I of this RFP**. Bidders are required to ensure that Cameras proposed are capable to meet these benchmark specifications and are also able to adhere to the functional requirements specified.

#### c. Training and Handover

The successful bidders to commission district-wise Police stations, provide user training and shall take the signature of the SHO/ authorized signatory in the Installation Report and submit the same along with their respective district wise invoices for payment as per the payment schedule. User Training would focus on the operations of system at Police Stations so that the users are aware of all the operations of the

surveillance system. The SI upon completion of site installation and commissioning activity would impart training to one of the nominated police official at each Police station.

Other requirements to be fulfilled by the Successful Bidder with respect to Training are as follows:

- Prepare the training material in consultation with Police Department/BSEDC & its Consultant. Detailed Training manuals would be prepared by the Systems Integrator prior to the start of the training.
- One Hard Copy & One Soft Copy of the training material shall be given by the Systems Integrator to all the trainees.
- Successful Bidder should ensure that the knowledge transfer to the Bihar Police staff happens effectively post training.

#### **9.4. Partial Acceptance Testing & Final Acceptance Testing of IT & Non-IT Equipment**

The acceptance test for the project shall be carried out in two phases by BSEDC / Police Department or duly appointed third party agency by BSEDC. The Successful bidder should cooperate with the third party agency to ensure successful completion of Acceptance tests.

The acceptance test shall consist of a Partial Acceptance Test (PAT) and Final acceptance test (FAT). The successful bidder shall submit a detailed acceptance testing document at the stage of planning and BSEDC / Police Department & the successful bidder shall mutually agree upon the same.

##### **9.4.1. Partial Acceptance test**

Partial Acceptance Test shall involve scrutiny of documents for various IT / Non-IT components to verify if the specifications conform to the requirements mentioned in the RFP and subsequent corrigendum. BSEDC / Police Department reserves right to conduct physical inspection or remote inspection of the equipment delivered to ensure that they arrive at the sites in good condition and are free from physical damage and incomplete shipments and shall return the products to the Supplier at the supplier's expenses if required quality is not maintained. Physical inspection of hardware will also include physical checking and counting of the delivered equipment in presence of the successful Bidder. These equipment will only be acceptable as correct when each received item corresponds with the checklist that will be prepared by the Successful Bidder prior to shipment. Any shortfalls in terms of number of items received may render the delivered equipment incomplete. SI shall submit third party test reports on performance for the critical components like Cameras, Active Network Equipment, Display, etc. System Integrator to complete the standalone installation at the Police Stations and take signature in Installation Report from SHO and share the district wise report as part of the PAT for the District. Alternatively, the bidder has to arrange remote inspection (Remote log in and remote viewing of camera) of some of the sites using VMS and temporary internet connection without any additional cost

##### **9.4.2. Final acceptance Test**

After successful installation of equipment's in accordance with the requirements in the RFP at the Police Stations, the successful bidder would need to carry out Final Acceptance Testing in 2 different phases - **(a) Unit Testing** and **(b) Integration Testing**. These tests would be carried out based on the test cases developed and validated by BSEDC and Bihar Police. Apart from the functional testing of the entire system components, the testing would also verify following aspects –

- Configuration Testing (to ensure that all the components are configured properly)
- Security Testing (to review & evaluate security controls)

Final Acceptance Certificate shall be issued by BSEDC / Bihar Police to the successful bidder after successful testing in a real time condition for at least 14 days of trouble free operation and checking adequate storage of camera feeds as per the RFP requirement. The date on which final acceptance certificate is issued shall be deemed date of the successful commissioning of the project (either whole or partial, depending upon the implementation strategy adopted). BSEDC / Bihar Police shall consider implementation of 95% Police Stations as a sufficient condition for the overall project Go-Live. Any delay by the successful bidder in the performance of its contracted obligations shall render the successful bidder liable to the imposition of appropriate liquidated damages, unless agreed otherwise by tenderer

## 9.5. System Documents, User Documents

The Successful Bidder will provide documentation, which should follow the ITIL (Information Technology Infrastructure Library) standards. This documentation should be submitted as the project undergoes various stages of implementation. Indicative list of documents includes:

- **Project Commencement Documentation:** Project Plan in giving out micro level activities with milestones & deadlines.
- **Cabling Layout:** Systems Integrator shall submit the detail cabling Layout including cable routing, telecommunication closets and telecommunication outlet/ connector designations. The layout shall detail locations of all equipment and indicate all wiring pathways.
- **Equipment Manuals:** Original Manuals from OEMs.
- **Installation Manual:** For all the Application Systems
- **Training Material:** Training Material will include the presentations used for trainings and also the required relevant documents for the topics being covered.
- **User Manuals:** For all the Application Software Modules, required for operationalization of the system.
- **System Manual:** For all the Application Software Modules, covering detail information required for its administration.
- **Operational Manual:** The bidder shall be responsible for preparing Operational Manual relating to operation and maintenance of each and every service as mentioned in this RFP. The prepared process document shall be formally signed off by BSEDC before completion of final acceptance test.
- **Note:** The successful bidder will ensure Upkeep & Updation of all documentation and manuals during the contractual period. The ownership of all documents, supplied by the Successful Bidder, will be with BSEDC. Documents shall be submitted in two copies each in Printed & in Softcopy Formats.

## 9.6. Post Implementation Services

Success of the project would lie on how professionally and methodically the entire project is managed once the implementation is completed. Successful Integrator thus is required to depute a dedicated team of professionals to manage the project and ensure adherence to the required SLAs.

### 9.6.1. Technical Manpower for maintenance & smooth running of entire system

System Integrator to provide suitable manpower to resolve faults and issues and support Police Department in operationalization of the CCTV Surveillance System. The exact role of these personnel and their responsibilities would be defined and monitored by Police Department Personnel.

The SI has to provision manpower for technical support/management as follows:

- Project Manager – 1
- **L1 field level Engineer – 15 for 304 new locations (min. qualification Regular BCA/BSC/Dip Engineer with 2 years post qualification experience)**

Please refer to **Section 8 of the RFP** for the detailed Service Level Agreement (SLA) to be adhered by the Systems Integrator.

#### **9.6.2. Preventive Maintenance Planning, Suggesting and Submitting the Surveillance System up-grade plan(s) for five years from the date of acceptance**

The L1 field engineer of successful bidder need to submit a preventive maintenance plan at the beginning of each quarter and need to visit all the locations and carry out the following activities:

- i Check the health of the system
- ii Cleaning of cameras and other equipment
- iii Updating the latest firmware
- iv Coordinate with Police Department to confirm a Preventive Maintenance report once every quarter.

Note: Without the Preventive Maintenance Report the AMC charge of the respective Police Station for the quarter shall be deducted.

As we are aware, constant changes / updates happen in technology, and it is very important that the Surveillance System implemented by the Bihar Police keeps its pace with the technology. BSEDC would want the successful bidder to submit a report, every 6 months, on the advancements available in technology to make the best use of the existing infrastructure. Any upgradation / augmentation suggested by the SI would be analyzed by the BSEDC & its consultant (if any) and appropriate decision would be taken.

#### **9.6.3 Hand-over of the system at the end of contractual period along with all documentation required to operate and maintain the system**

Systems Integrator will supply to the BSEDC the following before end of 10<sup>th</sup> Quarter (i.e. min. 6 months prior to the expiry of the contract):

- Information relating to the current services rendered and data relating to the performance of the services; Entire Documentation relating to various components of the Project, any other data and confidential information related to the Project;
- All other information (including but not limited to documents, records and agreements) relating to the products & services related to the project to enable BSEDC and its nominated agencies, or its Replacing Vendor to carry out due diligence in order to transition the provision of the Project Services to Police Department or its nominated agencies, or its Replacing Vendor (as the case may be).

## 10. Responsibility Matrix

The roles of the stakeholders shall change over a period of time as the project will evolve from design to implementation and enter the operations phase. Stakeholders' responsibilities, illustrative organizational structure for the design & implementation phase, operational phase is given below:

**Various Stakeholders identified for City Surveillance Project are as below:**

- HD** Home Department
- PD** Bihar Police Department
- Con** Project Management Consultant
- SI** Systems Integrator (Vendor selected for the Project's Implementation)

Responsibilities are shown using RACI Matrix which splits project tasks down to four participatory responsibility types that are then assigned to different Stakeholders in the project.

- R (Responsible) - Those who do work to achieve the task*
- A (Approve) - The Stakeholder that ultimately approves the task*
- C (Consulted) - Those whose opinions are sought (2 way communication)*
- I (Informed) - Those who are kept up-to-date on progress (1 way communication)*

Sr. No	Activity	HD	PD	Con	SI
1.	Signing of the Contract	R	I	C	R
2.	Preparation of the Inception Report	A	A	C	R
3.	Integrated Plan for the Design & Implementation of the Entire System	A	C	C	R
4.	Prepare the Site Survey Plan	C	I	C	R
5.	Finalize the List of Locations for Edge Devices in consultation with Police Department & Prepare the detailed plan for Camera Connectivity locally	A	R	C	R
6.	Submission of the Partial Acceptance Testing & Final Acceptance Testing Formats	C	C	C	R
7.	Supply, Installation, Configuration and Commissioning of various equipment, components, systems	I	A	C	R
8.	Preparation of the Policy Documents for Use & Operations of Bihar Police Station Surveillance System for the Bihar.	A	A	C	R
9.	Guideline document / manual to standardize file formats, compression types, interfaces, to be used by various agencies concerned with video / photograph recording & storage.	A	A	C	R
10.	Guidelines for video data handling for submission of the video data to judiciary as legal evidence	A	I	C	R
11.	Training and Capacity Building for the Police Department for operation of the system	I	A	I	R
12.	Partial Acceptance Testing & Final Acceptance Testing of IT & Non-IT Equipment	I	C	C	R
13.	Planning, Suggesting and Submitting the Surveillance System up-grade plan(s) for five years from the date of acceptance along with detailed	A	C	C	R



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

	specifications including drawings, which should be in-line with the vision and mission of the project				
<b>14.</b>	System Documents, User Documents as per ITIL (Information Technology Infrastructure Library) standards	<b>I</b>	<b>A</b>	<b>C</b>	<b>R</b>
<b>15.</b>	Providing technically qualified manpower for maintenance of the entire system	<b>I</b>	<b>A</b>	<b>C</b>	<b>R</b>
<b>16.</b>	On-Site Facilities Management service	<b>I</b>	<b>A</b>	<b>C</b>	<b>R</b>
<b>17.</b>	Comprehensive Warranty Maintenance of the supplied equipment	<b>I</b>	<b>A</b>	<b>C</b>	<b>R</b>
<b>18.</b>	Provision of on-site tools and spares (including cameras, Power supply, HDDs, UPS, Battery, cables and other accessories).	<b>I</b>	<b>A</b>	<b>C</b>	<b>R</b>
<b>19.</b>	Provision of Field Engineer(s) for a period of Five years after successful Acceptance of the Surveillance system.	<b>I</b>	<b>A</b>	<b>C</b>	<b>R</b>
<b>20.</b>	Hand-over of the system at the end of contractual period along with all documentation required to operate and maintain the system	<b>A</b>	<b>C</b>	<b>C</b>	<b>R</b>
<b>21.</b>	Weekly Progress Reports	<b>I</b>	<b>I</b>	<b>C</b>	<b>R</b>
<b>22.</b>	<b>Monthly Progress Reports</b>	<b>I</b>	<b>I</b>	<b>R</b>	<b>I</b>

## **11. Common guidelines / comments regarding the compliance of IT / Non-IT Equipment / Systems to be procured**

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- The specifications mentioned for various IT / Non-IT components are indicative requirements and should be treated for benchmarking purpose only. Bidders are required to undertake their own requirement analysis and may propose higher specifications that are better suited to the requirements.
- Any manufacturer and product name mentioned in the RFP should not be treated as a recommendation of the manufacturer / product.
- None of the IT / Non-IT equipment proposed by the bidder should be End of Life product. It is essential that the technical proposal is accompanied by the OEM certificate in the format given in Volume I of this RFP, where-in the OEM will certify that the product is not end of life product & shall support for at least 6 years from the date of Bid Submission.
- All IT Components should support IPv4 and IPv6
- Technical Proposal should be accompanied by OEM's product brochure / datasheet. Bidders should ensure complete warranty and support for all equipment from OEMs. All the back-to-back service agreements should be submitted along with the Technical Bid.
- All equipment, parts should be Original and New.
- The User Interface of the system should be a User-Friendly Graphical User Interface (GUI).
- Critical / Core components of the system should not have any requirements to have proprietary Platforms and should conform to open standards.
- For the custom-made modules, Industry standards and norms should be adhered to for coding during application development to make debugging and maintenance easier. Object oriented programming methodology must be followed to facilitate sharing, componentizing and multiple use of standard code. The application should be subjected to Application security audit to ensure that the application is free from any vulnerability.
- All the Clients Machines / Servers shall support static assigned IP addresses or shall obtain IP addresses from a DNS/DHCP server.
- The Successful Bidder should also propose the specifications of any additional servers / other hardware, if required for the system.
- The indicative architecture of the system is given above. The Successful Bidder must provide the architecture of the solution it is proposing.
- The system servers and software applications will be hosted in Data Center identified by the Successful Bidder. It is important that the entire set of Data Center equipment are in safe custody and have access from only the authorized personnel and should be in line with the requirements & SLAs defined in the RFP.
- The Servers provided should meet industry standard performance parameters (such as CPU Utilization of 60% or less, disk utilization of 75% or less). In case any non-standard computing environment is proposed, detail clarification needs to be provided to confirm a) how the sizing has been arrived at and b) how SLAs would be met.
- SI is required to ensure that there is no choking point / bottleneck anywhere in the system (end-to-end) to affect the performance / SLAs.
- All the hardware and software supplied should be from the reputed Original Equipment Manufacturers (OEMs). BSEDC reserves the right to ask replacement of any hardware / software if it is not from a reputed brand and conforms to all the requirements specified in the tender documents.
- All Servers, Active Networking Components (for Edge Level Switches, please refer below for additional information), Security Equipment, Storage Systems and COTS Application proposed

should be from OEMs who are amongst the top 5 for World-wide Market share in terms of Revenue as per Gartner / IDC latest published quarterly report. Bidder is expected to attach the report along with the technical proposal.

- Cameras and the Video Management / Video Analytics Software should be ONVIF Core Specification '2.X' or 'S' compliant and provide support for ONVIF profiles such as Streaming, Storage, Recording, Playback, and Access Control.
- System Integrator shall place orders on various OEMs directly and not through any sub-contractor / partner.
- All licenses should be in the name of the Bihar Police department, Govt of Bihar.
- Following selection criteria are to be followed for OEMs for cameras, VMS, ANPR & other analytics:

With regards to above table, OEMs will certify the installation base and the project experience. This certificate shall be issued through the Global Headquarters and attested by the Indian office. Tendering authority shall verify the claim of OEMs by using publicly available reports like IMS, in case there is any doubt of gross negligence. Decision of BSEDC shall be final and binding upon the Bidder and OEM.

## 12. Annexure 1 – Functional and Technical Specification

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### 12.1. Surveillance Equipment

1. Camera and VMS can be from different OEMs as long as they are compliant to ONVIF profile S and supports end to end seamless integration of all features as Streaming, Storage, Recording, and Play back from Day 1.
2. All systems and components must be in compliance with all of following certification
  - UL/ EN 60950-1
  - CE(EN 50130-4)
  - FCC Part 15
  - BIS IS 13252 (Part 1):2010 or as applicable.
  - ONVIF
3. Copy of the certification shall be submitted.
4. Camera OEM must - have ONVIF's Technical Steering Committee's 'Full' Membership level & not had been suspended and restricted by ONVIF - Temporarily / Permanently, ever. Undertaking by the OEM on the Letter head Membership level will be verified from ONVIF portal
5. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system. The systems and components shall have been thoroughly tested with offered specification.
6. OEM should have PO of at least 2000 or more IP cameras in single order from Government/PSU/Nationalized bank end-user through system integrator in last 5 years.
7. Camera OEM or its Parent/Group company should have direct existence in India for more than 5 years (Presence through distributor is not allowed) and should be listed company in any stock exchange (In any country worldwide) with positive net worth (Suitable evidence document to be submitted with bid). . The OEM for CCTV camera should have at least 100 employees globally and having a registered service center in India.
8. OEM should have dedicated CCTV service and support center (toll free number / email support) and fully equipped RMS center in India. Bidder to produce documentary proof to establish the eligibility.
9. The OEM should deploy 1 dedicated and certified Service engineer (for providing RMS and advance replacement support) on their pay role at Patna for entire project period without any additional cost to BSEDC/department. CV of the certified service engineer to be submitted by the bidder along with undertaking of deployment from date of issue of work order to the bidder. The engineer should operate from BSEDC/Project office/Centralized Help Desk at Patna. Bidders to submit necessary declaration/undertaking from the OEM during bid submission.
10. Camera OEM must be have ISO 9001:2015 certification for - in the name of OEM's manufacturing facility & ISO: 27001 (Information Security Management) is also must.
11. Camera OEM or its parent company, subsidiary companies must not have been blacklisted/banned/debarred by any PSU/Govt. body in India & globally in last 5yrs.
12. The OEM should not supply any equipment that is likely to be declared end of sale within 5 year from the date of supply. The bidder shall submit an undertaking from OEM on letter head in this regard to the purchaser with their bid.

13. Bidder to maintain additional and adequate cameras, NVR/Server/WS, HDDs with each L1 engineer for advance replacement whenever and wherever necessary to meet SLA without any additional cost to the department
14. The quoted product (NVR, Camera) should not have HiSilicon Chipset .

## 12.2. OEM Criteria for Switches & Server

1. Switch OEM should be in Gartner's Magic Quadrant for the Wired / Enterprise LAN (Global) for last 3 years or should be from top 3 Switch OEMs as per IDC report.
2. Equipment should be supplied directly from an authorized distributor of the OEM or OEM
3. OEM should have supplied minimum 1000 switches in any surveillance project/multi- location project in Government / PSU in India during last 5 years. Customer certificate / proof of reference documents to be submitted.
4. OEM should have presence in India for last 5 years and in Government / PSU for last 3 years.

### 12.2.1.High Definition IP Fixed Bullet Camera

#	Minimum Specifications
1.	The camera should be true day/ night(IR cut filter), IP full HD Bullet type and should support wall and ceiling mounting based on site requirement and feasibility ( Bidder to provide suitable camera mounting from day 1 as per site requirement)
2.	Resolution – 1920 X 1080 or better, Compression – H.265 / H.264, Should support dual streams at 2MP@ 25 FPS.
3.	The lens should be varifocal 2.8~12mm / 3~ 9mm or better
4.	Minimum illumination 0.1 Lux in colour and 0 Lux in B/W mode with IR. It should have integrated IR for a distance of minimum 30 Mtrs.
5.	It should have true WDR of min 120 dB ( Measured according to IEC 62676 Part 5 or equivalent test certificate from OEM factory), Automatic Gain Control, Back Light Compensation, Digital Noise Reduction functions, AWB,HLC.
6.	Password Protection, IP Address filtering, User Access Log, HTTPS encryption
7.	The camera should be able to display its status 24X7 using SNMP protocol and must have provision of integration with the offered Web portal from Day 1.
8.	The Camera must have Image Sensor – 1/ 2.8” 2MP CMOS
9.	The Camera should have ONVIF Profile S,G
10.	The Camera must have Edge based Analytics feature: Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, Motion detection, video tampering, Network disconnect
11.	The Camera must have Edge based Recording support upto 128 GB with SD card provision
12.	The Camera must have certificate- UL, - FCC, BIS/CE
13.	Audio 1 input (line in, 3.5 mm), 1 output (3.5 mm)
14.	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm for Audio In
15.	Alarm 1 input, 1 output
16.	Audio Compression G722.1/G711ulaw/G711alaw/G726/MP2L2

17.	Audio Bit Rate 32 to 128kbps
18.	Camera should be Vandal Proof ( IK 10) and IP 66 rated.
19.	Power source – PoE and 12V DC
20.	Camera should support operating temperature from 0 Deg to 50 DegC.

### 12.2.2. High Definition IP PTZ Camera

#	Minimum Specifications
1.	The camera should be true day/night (IR cut filter) IP full HD PTZ type and should support Pole and wall mounting based on the site requirement and feasibility. Pole/Wall Mounting kit as required should be from the same camera OEM.
2.	Resolution – 1920 X 1080 or better; Compression – H.265/H.264, Should support dual streams at 2MP@ 25 FPS or More.
3.	The lens should support minimum 20X optical Zoom and 10X Digital Zoom or better The Lens should support min. illumination: Color: 0.05Lux(F1.6, 1/30sec), BW: 0Lux(IR LED On),
4.	Pan 360° endless and Tilt 15°~90° with auto flip capability, Pan speed min 200°/s or better and tilt speed min.150°/s or better, 200 pre defined positions and 8 tours.
5.	It should have true WDR of min 120 dB (Measured according to IEC 62676 Part 5 or equivalent test certificate from OEM factory), BLC, Automatic Gain Control, Auto White Balance, BLC, Digital Noise Reduction and IR cut filter functions.
6.	Password Protection, IP Address filtering, User Access Log, HTTPS encryption
7.	The camera should be able to display its status 24X7 using SNMP protocol and must have provision of integration with the offered Web portal from Day 1.
8.	It should have In-built IR LED for a distance of minimum 200 Mtrs.
9.	Camera should be vandal proof (IK 10) & IP 66 protection. Should have in-built heater and blower or Defog/ Air circulation feature. Bidder to provide IK10 certificate of the proposed model.
10.	The Camera must have Image Sensor – 1/ 2.8” 2MP CMOS
11.	The Camera should have ONVIF Profile S,G
12.	The Camera must have Edge based Analytics feature: Motion Detection, Face Detection, Intrusion, Line Crossing, Region Entrance, Region Exiting, Audio Exception Detection. Camera should support smart auto-Tracking features.
13.	The Camera must have Edge based Recording support upto 128 GB with SD card provision
14.	The Camera must have certificate- UL, FCC, BIS/CE
15.	Audio Interface 1-ch audio input/ Output
16.	Selectable (mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm for Audio In & Line out, Max. output level: 1Vrms for Audio Output
17.	Interface: 1x 10/100M Ethernet interface; Alarm : 2-input /1-output interface, Audio : 1-input/1-output interface. Camera should have provision to insert MicroSD card.
18.	Audio Compression G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
19.	Audio Bit Rate 32 to 128kbps
20.	Camera should be Vandal Proof (IK 10) and IP 66 rated.
21.	Power source – HPoE /24VDC/24VAC
22.	Camera should support operating temperature from 0 Deg to 50 DegC.
23.	PTZ Camera shall be provided with required mounts
24.	Power Source – POE+/ Hi PoE and 24V AC. Bidder to provide suitable Hi POE injector (

	<p>either form Camera OEM or any other reputed make) Or 24 VAC PSU( preferably UL/EN/IEC/BIS certified) of reputed make from day 1 without any additional cost with each PTZ camera. Bidder to specify their choice of PTZ power supply from Day 1 and should submit product datasheet from OEM along with technical proposal.</p> <p>Bidder to maintain minimum 1 spare Converter/PSU per 25 Police station with the L1 Engineers.</p>
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### 12.2.3. Video Recording, Management & Monitoring System

Sl. No.	Parameter	Minimum Specification
1.	General	<p>a. UL &amp; BIS/CE certified hardware (Both Primary &amp; Secondary Storage) from the approved Camera Make with no custom / proprietary components or from Top 5 OEMs from Gartner's Magic Quadrant/IDC report for last 3 years. UL &amp; BIS/CE certificates of proposed model and Gartner/IDC report to be submitted by the bidder.</p> <p>b. The proposed solution should include video feed processing unit and recording in primary storage for 3 months and parallel recording of the videofeed for 12 months in secondary storage installed at each police station along with accessories like keyboard, mouse etc.</p> <p>c. The system will have VMS software installed on it and will allow both - administrative features and operator features to be performed from same system.</p> <p>d. The system should be able to manage live feed of all cameras (10/16) at full HD resolution @ 25 FPS.</p> <p>e. The proposed system should be rack mountable and 24x7 operational as per SLA terms of the RFP for entire project period.</p> <p>f. The primary and Secondary storage box both must <b>support</b> hot pluggable redundant power supply from Day 1.</p>
2.	Primary Storage Box Processor	Latest Generation X86 Architecture 3Ghz, 8 Core with 11 MB Cache or better
3.	Primary Storage Box Memory	2 X 16 GB DDR4 RAM memory modules or better. Should be expandable up to 1 TB.
4.	Primary Storage Box HDD Support	4 HDDs connectivity using available ports in Primary video storage box from day 1.
5.	HDDs & Recording Configuration (Both Primary & Secondary Storage)	The primary storage box should have storage capability of 90 days with all cameras configured at 24x7 in motion detection recording mode for 60% of the time with medium sensitivity at 720P@15 fps resolution (fixed frame rate and bit rate) from Day 1. The secondary storage box should be offered with storage capability of storing video for 365 days at 24x7 in motion detection recording mode for 60% of the time with medium sensitivity at D1@18 fps resolution (fixed frame rate and bit rate) from Day 1. The secondary storage should have HDD hot swappable, hot pluggable option and configured with RAID 5 from Day 1. The primary and secondary storage box should be separate hardware box.
6.	Networking ports and features	<p>The primary storage box <b>should have 2 no. of onboard 1Gb network port.</b></p> <p>The secondary storage box <b>should have min 2 no. of onboard 1Gb network port (teamed) configured port redundancy and load balancing from Day 1.</b></p>

Sl. No.	Parameter	Minimum Specification
7.	Other Interfaces	min. 2 USB 3.0 support
8.	Display & Graphics Card	4 GB or better Professional series with min. 2 no. HDMI/DP/Mini DP/DVI ports each supporting Full HD resolution. LEDs to be connected with the Graphicscard video port.
9.	Security Feature	To be configured from Day 1- Power-on password, Administrator's password.
10.	Operating Systems	Preloaded with licensed OS version (OS as per bidder solution) for entire contract period from Day 1.
11.	Maintenance Provisioning (Primary Storage box)	a) Essential tools, drivers, agents to setup, deploy and maintain the system should be embedded inside. There should be a built -in Update manager that can update firmware of system by connecting online as on when required.
		b) Should support Remote monitoring of camera status and Network Health and Event Monitoring using SNMP / API / SDK in a single centralmanagement application.
12.	Management Feature (Configured from Day 1)	The system should have Role-based security feature. Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via automatic execution of scripts.
		Should help to identify out-of-date BIOS, drivers, and system Management agents and enable the remote update of system software/firmware components.
		Should support remote monitoring of camera up/down status and Audit trail of events using SNMP.
13.	Secondary Storage Features	A Rack mountable storage enclosure with sufficient drive capacity configured with RAID 5 to be offered as per the requirement from day 1.
14.	<b>Minimum VMS Features (Overall for both Primary and Secondary Storage box system)</b>	<p>a) The System should be loaded with ONVIF compliant compatible full functional licensed version of Video Management Software (VMS) supporting all offered camera Live streaming, recording and backup license support for the Police station as per site requirement from Day 1.</p> <p>b) The VMS software and primary storage box should be capable of decoding all cameras configured at constant live resolution 1080P@25 fps (fixed frame rate and bit rate) and recording configured at 24x7 in motion detection recording mode from Day 1. The secondary storage box should be configured as fall back recorder (failover recorder) for primary storage box for minimum 7 days at 720P@15 fps resolution in case of failure of the primary storage box. The VMS should be able to seamlessly synchronize the failover time video recording after restoration of the primary storage box.</p> <p>c) Support for client workstation connections, which may be used if needed at any Police station.</p> <p>d) The fixed cameras connected with the VMS should be configurable with Server based/edge-based video analytics features like motion detection and camera tamper from Day 1. It should provide pop up or show alarm/alert for each event on connected monitoring</p>



Sl. No.	Parameter	Minimum Specification
		<p>workstation. Should support configuration and handling of various event-based alarms and should have "Alarm Filtering" option. It shall be possible to "silence" alarms for a desired time period.</p> <p>e) Should support Video search by Calendar, date/time and analytics alarm from Day 1.</p> <p>f) The VMS shall have the facility to export the desired portion of clipping of video from a desired date/time to another desired date/time on DVD/ on any client/ network storage/USB drive/Local storage device in at least 256 bit AES or SSL/TLS encrypted format encrypted format. Viewing of this recording shall be possible on authorized player which shall be provided by VMS software manufacturer or in media player on computer utilizing a Window environment from Day 1.</p> <p>g) Also, should support backup of snapshots on any client/ network storage/USB drive/Local storage from Day 1.</p> <p>h) Live view of all 16 cameras simultaneously on single monitor. Synchronized playback for min. 8 cameras.</p> <p>i) Should support Remote monitoring of camera status and Network Health and Event Monitoring using SNMP.</p> <p>j) Should support scheduled daily alarm reports e-mails to pre-defined recipients.</p> <p>k) Should be able to provide customized log/health report (Daily, weekly, Monthly, Quarterly) of all connected cameras, HDDs etc. for SLA calculation.</p>

**Note:**

- VMS should be either from Camera OEM or from IHS Top 10 VMS OEMs for last 3 years OR Any Indian VMS OEM having existence for last 5 years and total 10000 Camera project reference in India within last 3 years.
- All technical specification (in details) of the offered model should be publicly available at the OEMs website and datasheet and the same shall be verified during technical bid evaluation.
- Details storage calculation (tentative) for 10 cameras and 15 cameras setup to be provided along with HDD configuration on VMS OEMs letter head along with technical bid.

**12.2.4. 32" HD Display**

#	Parameter	Minimum Specifications
1.	Technology	LED Backlight
2.	Screen Size	Min. 32"
3.	Resolution	Full high definition (1920 x 1080)
4.	Input	The display should have 2 HDMI/DP/mini DP/DVI input ports
5.	Operations	24x7 Operational (Suitable Test certificate from OEM factory to be provided with technical bid for establishment of proof) with technical bid for establishment of proof)

#	Parameter	Minimum Specifications
6.	Aspect Ratio	16:9
7.	USB	At least one
8.	Power consumption	Typical/Avg 60 Watt.or higher
9.	Certification	Safety: UL/ cUL / CB / TUV, EMC, FCC, CE/BIS

#### 12.2.5. Mic

#	Minimum Specifications
1	High quality Audio pickup unit with active noise cancellation
2	Audio Pickup range : minimum 50sq.m
3	Dynamic range : 70dB
4	It should be capable to capture full audio range (20Hz~20KHz)
5	It should be from same CCTV camera OEM in case of new locations or new camera is supplied by the SI
6	It should be compatible with existing CCTV camera & VMS in case of existing locations where the Mic needs to be integrated with existing cameras which are already installed

#### 12.2.6. IT Components

OEM Criteria for Switches

1. OEM should be in Gartner's Magic Quadrant for the Wired / Enterprise LAN (Global) for last 3 years.
2. Equipment should be supplied directly from an authorized distributor of the OEM.
3. OEM should have supplied minimum 1000 switches consolidated any surveillance project/multi- location project in Government / PSU in India for last 5 years. Customer certificate / proof of reference documents to be submitted.
4. OEM should have presence in India for last 5 years and in Government / PSU for last 3 years.

#### 12.2.7. Server

Parameter	Minimum Specifications
General	i.) From Top 5 OEMs from Gartner's Magic Quadrant/IDC for last 3 years.
	ii) The proposed solution should include video feed processing unit and recording in primary storage for 3 months, archive the remaining 18 months in secondary storage installed at each police station along with accessories like keyboard, mouse etc.
	iii) The system will have VMS software installed on it and will allow both - administrative features and operator features to be performed from same system
	iv) The system should be able to manage live feed of all cameras at full HD resolution @ 25 FPS.

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Parameter	Minimum Specifications
	v) The proposed system should be rack mountable and 24X7 operational as per SLA terms of the RFP for entire project period.
CPU	Latest Generation X86 latest generation , Minimum 8 Core with 2.8GHz/higher. 64-bit processor, fully binary compatible to 32-bit application along with Cryptographically signed immutable dedicated hardware
Memory	2 X 16 GB DDR4 RAM memory modules or higher.
HDD Bays	4 HDD drive support in Primary video storage box from day 1.
HDDs	The combined Storage capability of video footage shall be for 638 days. Should have primary storage capability of 90 days with all cameras configured at 24x7 in motion detection recording mode at 720P@15 fps resolution (fixed frame rate and bit rate) from Day 1. Should be offered with secondary storage capability of storing video for res 548 days.
Disks supported	Up to 8 slots supporting 2.5" SAS/SATA HDD
Networking Features	Min 2 no. of onboard 1Gb network port (teamed) port redundancy from Day 1.
Interfaces	min. 2 USB 3.0
Display & Graphics Card	4 GB or better with min. 2 no. HDMI/DP/DVI ports each supporting Full HD resolution. LEDs to be connected with the Graphics card video port
Security Feature	To be configured from Day 1- Power-on password, Administrator's password
Operating Systems	Preloaded with licensed OS version (OS as per bidder solution) for entire contract period from Day 1.
Maintenance Provisioning	# Essential tools, drivers, agents to setup, deploy and maintain the system should be embedded inside. There should be a built -in Update manager that can update firmware of system by connecting online as on when required.
	# Should support Remote monitoring of camera status and Network Health and Event Monitoring using SNMP / API / SDK in a single central management application.
Management Feature (Configured From Day 1)	The system should have Role-based security feature. Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via automatic execution of scripts. Redundant power supplies from day-1

Parameter	Minimum Specifications
	Should help to identify out-of-date BIOS, drivers, and system Management agents and enable the remote update of system software/firmware components.
	Should support remote monitoring of camera up/down status and Audit trail of events using SNMP.
Certifications & Compliance	Latest Version of Windows, Linux and Ubuntu OS (64 bits and 128 bits both) and all industry standard virtualization software root of trust security enabled. Management silicon should have minimum EAL2 certification.
	Remote Management of Server over LAN and WAN with SSL encryption, Server Health logging, should have Remote virtual media support with all required licenses, Remoter power on/ Shutdown of server
Secondary Storage Features	A Rack mountable storage enclosure with sufficient drive capacity to be offered as per the requirement from day 1 (as per SI/Bidder solution with detailed BQ).

### 12.2.8. L2 Managed Switch

#	Minimum Specifications
1.	Port Requirement: The switch should have 24 x 10/100/1000 Base-T PoE+ ports to connect all cameras of the respective Police Stations. Switch should also support for min 2 x SFP+ populated with 10gig SR from Day1. All switch ports should support full duplex wired speed. Switch should have minimum 370watt POE budget.
2.	Performance Specifications: Should support wire speed non-blocking performance as well Min 32K MAC address. Switch shall have min 4 MB packet buffer size.
3.	Resiliency Features: RSTP, MSTP, loop detection and loop prevention
4.	VLAN support: Virtual LAN (VLAN), VLAN classification by protocol and port, VLAN Tagging, guest VLANs and Dynamic VLAN
5.	Multicasting : Should Support IGMP v3 Snooping/ MLD v2 snooping
6.	QoS: IEEE 802.1p and Policy based QoS based on port, VLAN and MAC, General Layer 2 classifiers.
7.	Security : Support for Multiple Dynamic VLAN,RADIUS and TACACS+ Authentication, BPDU Filtering, DHCP Snooping, Dynamic ARP Inspection (DAI),Support 802.1x, SSL
8.	Management features: Support SNMP, Telnet, Preferably Web GUI support, Dedicated console port & SSH. Switch should support IPv6 management features ready from Day 1.
9.	EAL3/NDPP, UL certified, RoHS Complied.
10.	Operating temperature range (continuous): 0°C to 45°C
11.	Switch Should have 1GB RAM for smooth operations Switch should have 2 GB ram and 2 GB Flash with 6 MB buffer
12.	Switch should support Redundant power supply internally or externally
13.	Switch should have stacking on uplink ports from day one.
14.	Protocol Support: Should support Static routing, OSPF and policy-based routing

#	Minimum Specifications
15.	Static routing, RIP, PIM, OSPF, VRRP/HSRP, PBR, QoS, 802.1x, IPv4v6 ACLs and MACsec-128 from Day 1
16.	Switch should have wire-speed, non-blocking and distributed forwarding on all the ports.

#### 12.2.9. Passive Components Structured Cabling OEM Criteria:

Structured cabling components should have independent lab verification like UL/ETL (Except for Cat 6) certificates. The cabling should be certified to have application support warranty for next 25 years. OEM shall have ISO 9001:2008, ISO 14001 and OHSAS certified manufacturing facility. Structured cabling OEM should have minimum 1 RCDD certified engineer on their pay role in India as on date of bid submission. Relevant proof/declaration document to be submitted by the OEM.

#### 12.2.10. UTP Cat 6 Cable

#	Minimum Specifications
1.	The cable should meet minimum Category 6 requirement and rodent proof (Document proof to be submitted with technical compliance).
2.	Conductor: 4 pair 23 AWG solid bare copper conductor
3.	Frequency tested up to 250 MHz or above
4.	Double Jacket: Inner Jacket Polyethylene and outer Jacket LSZH complying IEC 60332-1 or better.
5.	Separator: Cross / Star Spine to separate 4 pairs UTP cables
6.	Pull / Stripe thread inside the UTP cable
7.	Operating temperature: Minimum 60 Degree C or better.
8.	Approvals / Certifications: ELV compliant/RoHS compliant.

#### 12.2.11. Dual Face plate

#	Minimum Specifications
1.	Colour of the Jack should be visible to identify different and Redundant Port
2.	Colour of the face plate: Open
3.	Grade: Fire Retardant
4.	UL/ ABS Rugged plastic with ROHS Compliant
5.	Capable of supporting – UTP Jack, STP Jack.

### 12.2.12. Cat6 24 Port Loaded UTP Patch Panel 1U Height

S.No	Minimum Specifications
1.	Standards: UL/ETL Verified to ANSI/TIA-568-C.2, ISO/IEC 11801 Category 6
2.	Individual replaceable RJ45 Jack with 9 or 12mm labels on each port.
3.	Pointed IDC Tower on RJ45 Jack for easy termination
4.	CRS - Cold Rolled Steel/ Metal, ROHS Compliant
5.	RJ45 Jack should be supplied with inbuilt Cap or Shutter
6.	Rear Cable Manager to hold CAT6 UTP Cable with velcro cable ties
7.	Should include labels with transparent clear label covers at the front and Port number at the back

### 12.2.13. Cat 6 4-Pair UTP Patch Cords

S.No	Minimum Specifications
1.	4 Pair 24AWG stranded copper wire with ROHS Compliant
2.	Sheath Standards: LSZH
3.	Cross / Star Spine to separate 4Pairs Patch Cords
4.	Standards: UL/ETL Certified with ANSI/TIA-568-C.2, ISO/IEC 11801 Category 6

### 12.2.14. Cat 6 Information Outlet

S.No	Minimum Specifications
1.	PCB based Information outlet design type/technology which protects it from dust and containments. Should have integrated bend limiting and strain relief unit for cable entry.
2.	Wire terminal: 200 termination cycles
3.	Modular Jack: 750 mating cycles
4.	Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
5.	IDC Contact Plating: Beryllium Copper Plate OR Phosphor bronze with nickel plate.
6.	Square shuttered plate with 2/4 port.
7.	RoHS/ELV Compliant

S.No	Minimum Specifications
8.	Standards: UL/ETL verified

#### 12.2.15. Equipment Rack

S.No	Minimum Specifications
1.	Racks manufactured out of steel sheet punched, formed, welded and Powder coated
2.	Standard for Racks configuration will be welded frame and vented top cover or better
3.	Rack should have Front Toughened Glass Door with lock & Key
4.	Rack should be 9U/12U in Height and Floor mount type, 600MM Width, 900MM Depth (Min 1USpace should be left blank between all equipment inside the rack).
5.	Bidder to arrange additional Metal frame (without any additional cost) for mounting the rack on floor if there is no provision of placing rack at floor of any police station.
6.	Rack must be provided with multiple fans directly mounted on the roof top as an exhaust from the cabinet. Fan should be of AC 230V.
7.	Rack should be provided with cable management accessories. 1U Cable manager, PDU with 6 Nos. Sockets of 5 Amp.
8.	Manufacturer should be ISO 9001-2015 & 14001-2004 UL/DIN and RoHS certified. Certificate needed to be submitted.

**Note:** The proposed rack must be a Server rack and floor mount type. It should suffice the space and weight requirement of the proposed system, switch, patch panel etc. Bidder may propose larger size floor mount Rack if required as per their proposed hardware dimension.

#### 12.2.16. Electrical System, Cabling & Earthing

#	Minimum Specification
1.	Conducting and wiring to be done as per site requirement according to structured cabling standard. All electrical components shall be design manufactured and tested in accordance with relevant Indian Standard IECs, BIS etc.
2.	All outdoor cabling to be done using ISI marked Metal conduit only and suitable metal joints, bends to be used. For indoor cabling ISI marked PVC conduit and suitable PVC joints, bends to be used.
3.	Suitable ISI marked MCBs, Surge protectors, ACDBs and switch boards to be installed by the SI as per site requirement. No loose or open wiring, cable joint, termination allowed at any location.
4.	Earthing to be done with min specification as – 17 mm X 3 meter Copper bonded rod 250 micron, CPRI tested pre-welded with connection clamp on top 10*50*5. Highly conductive earthing mix compound with Carbon content more than 65 percent as per IS:1350, Sulphur content less than 0.4 percent as per ISO 4689-3 and tested for resistivity as per IEC 62561-7 and ASTM G57-06 for resistivity of 0.05 ohms.

### 12.2.17. Junction Box for PTZ/Fixed Bullet Camera (if required)

#	Minimum Specification
1.	Wall mounting MS box equipped with tamper proof locking arrangements with suitable clamps with necessary cable entry pipe with SS gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint complete.
2.	All the junction boxes shall be IP65 compliant.
3.	Shall have proper lock and key.
4.	Shall be able to store POE injector, PSU, cabling arrangement as required.
5.	The Junction box shall be wall mounted with required mounting accessories. The JB should have suitable body earthing provision from Day 1.

### 12.2.18. Pole For PTZ Camera

#	Minimum Specification
1.	5/6 Meter hot dip galvanized octagonal pole with BSEN 10025 grade S 355 Jo steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCB's as per IS specifications suitable to withstanding wind speed of 180km/hour for 5/6 meter pole having dimensions bottom dia 135 mm top dia 70mm 3 mm thick size and base plate 220mm x 220 x 12mm 4 nos of M24 x 750mm long 'J' bolts and nuts with template and the pole shall be galvanized with not less than 65 microns etc, including erecting as per the specification. Camera pole designs needs to be based on each of the site requirement. SI to procure suitable pole mount camera mount kit to be procured from the camera OEM. Pole mount Junction box as per specification given in 12.6 also to be provided with each Pole.

### 12.2.19. Solar UPS – 3KVA with 6 Hours Battery Backup

Solar UPS OEM Qualification Criteria-

The Solar UPS (Inverter OEM) OEM must have successfully completed and satisfactorily running projects with Solar UPS for more than a year with following criteria.

1 order reference with Successful Installation of 100 Solar UPS for any capacity above 2KVA (considering power factor 0.9) in last 3 years.

Or

2 order reference with Successful Installation of 50 Solar UPS for any capacity above 2KVA (considering power factor 0.9) in last 3 years.

Or

Successfully installed Solar Power Plant of 5 MW cumulative in last 3 years.

(Certified work order copies and Go- Live/FAT certificate of the OEM or System Integrator clearly mentioning make, model no., capacity, date of Go Live to be submitted with technical bid for verification failure of which will lead to bid rejection)

And

The Solar UPS OEM Should have factory, testing center in India as well as service center at Bihar for immediate service support (Alternatively, if the OEM doesn't have a service center at Bihar, then they have to furnish an undertaking on company letter head that a service center would be established in Bihar, within 1 (one) month of signing the contract, to provide warranty, post warranty and AMC services for entire project period).



The Solar UPS OEM must deploy 3 no. dedicated of L1 service engineers (1 engineer for 5 locations) for this project latest by project Go-Live date without any additional cost. Name list, location, CV, contact number of engineers to be submitted by the bidder/OEM to BSEDC before G-Live date. Bidders to submit necessary declaration/undertaking from OEM regarding the same during bid submission.

#### **12.8.1. SPV Modules**

1. The modules should be tested and certified by a Govt. of India authorized test centers or should conform to relevant IEC standard as per MNRE guidelines. Offered module shall have a power output warranty of 90% of the rated power for 10 years and 80% at the end of 25 years. Every module should have suitable by-pass diode at its terminal box. The series diode to prevent during partially shading due to cloud/tree/building etc.

2. The PV modules must conform to the latest edition of any of the following IEC /equivalent BIS Standards for PV module design qualification and type approval: Crystalline Silicon Terrestrial PV Modules: IEC 61215 / IS14286. In addition the modules must conform to IEC 61730 Part 1 requirements for construction and Part 2 requirements for testing for safety qualification or equivalent IS (under Dev.)

3. The modules used shall have following specifications:

a. Type : Mono crystalline as per MNRE Norms

b. Modules Specification and standard: Confirming to the existing MNRE guidelines.

Each PV module used in solar power project must have a RF identification tag (RFID). The RFID can be inside/ outside the module laminate, but must be able to withstand harsh environmental conditions. The RFID tag should be such that nobody should be able to tamper with the tag or remove the tag without damaging the PV module.

5. Inter connections of solar modules should be through good quality male female joint. Name of manufacturer, Sl. No. of Module & manufacturing year should be clearly fixed inside the glass lamination of every module. Thermal sticker should be affixed behind every module which should clearly state the specifications & capacity of the module.

6. The total capacity of the Solar Photovoltaic Power Plants mentioned is the minimum capacity in wattage of the total SPV modules installed in the Power Plant with reference to the Voltage at which the SPV Power Plant is designed. Capacities mentioned are the minimum name plate value of the SPV Power Plant. Supplier should submit the drawing of the Steel structures which they shall supply & install along with the array support structure for mounting of SPV modules, as per scope of work. For drawing & specification of module mounting structures (MMS) is required.

#### **Mechanical Components**

##### **1. MODULE MOUNTING STRUCTURE (MMS)**

Supplier should submit the drawing of the MMS which they shall supply. MMS should be installed along with the hot dipped galvanized (minimum 80 microns) array support structure for mounting of SPV modules at site. The panel frame structure should be capable of withstanding a minimum wind load of 200 Km per hour, after grouting and installation. A proper survey must be conducted for optimal angle incident of placing the solar PV panels on the MMS for both the summer and winter season according to the direction of sun. Proper clearance must be given from the ground for wind circulation. MMS should be sturdy & designed to assist SPV Modules to render maximum output. The hardware (fasteners) used for installation of SPV Modules & MMS should be of suitable Stainless Steel (SS 304) for any kind of theft protection. Solar PV Module design will conform to following Mechanical requirement

i. Toughened, low iron content, high transmissivity front glass.

ii. Anodized Aluminum Frame.

iii. Ethyl Vinyl Acetate (EVA) encapsulant.

iv. Silicon edge sealant around laminate.

v. Tedlar /Polyester trilaminate back surface.

vi. Anti-theft protection fasteners

vii. ABS plastic terminal box for the module output termination with gasket to prevent water moisture.  
viii. Resistant to water, abrasion, hail impact, humidity & other environment factor for the worst situation at site.

ix. Bypass diode. (Electrical Requirement)

a. As per guidelines issued for off-grid and decentralized applications program

b. All PV modules must have bypass diode.

2. Foundation: The PCC foundation shall have to be designed on the basis of the weight of the structure with module and minimum wind speed of the site, i.e. 200 Km/hour. Each MMS should be with suitable legs grouted on pedestals.

3. Junction Boxes for Cables from Solar Array: The junction boxes shall be made up of FRP /MS/PP/ABS with dust, water and vermin proof.

4. Array Junction Box (AJB): All the arrays of the modules shall be connected to DCDB through AJB. AJB shall have terminals of bus-bar arrangement of appropriate size Junction boxes shall have suitable cable entry with suitable grounding arrangement for both input and output cables. Suitable markings on the bus bars shall have to be provided to identify the bus bars etc. Every AJB should have suitable arrangement Reverse Blocking diode (Schottky diode of suitable rating with respect to the capacity of array) connected in such a manner that the diode is mounted on a proper heat sink so as to increase the life of diode. Each AJB should preferably not have more than four array inputs. Cable interconnection arrangement shall be within conduit pipe on saddles installed properly. Cable connection should be done in such a manner that fault findings if any, can be identified easily. The cables should be connected in such a manner that clamp meter can be comfortably inserted around the individual cables to measure the data like current, voltage etc. AJB should also be marked as A1, A2, & so on.

The Array Junction Box is one of the key components required for undertaking the task of installation of off grid solar roof top PV systems as per MNRE/IEC guidelines. Hence, although bidder may install the AJB as per design of the equipment, the total solar PV array capacity should meet the requirement of solar solution for the project.

Note: If SPV OEM is different from Inverter OEM then separate MAF and product data sheets, certificates etc. to be provided respective OEMs. Bidder's also need to provide technical compliance on letter head of respective OEMs.

## 5. Main Features of the Inverter:

It should be a combined unit comprising of inverter, charge controller, visual display, necessary protections and provision to export excess power to Grid.

- It should be Industrial grade <<bi-directional>>Inverter
- It should have Integrated MPPT P V Charger Controller.
- It should not over charge the batteries once all the batteries are fully charged.
- It should sustain both the temperature during winter and summer season
- It should have protection from over voltage, under voltage, over current protection.
- It should have short circuit protection / Earth Leakage protection.
- In case the load is more than solar power capacity, it should take the power from Grid mode
- It should be rated for continuous operation at full load.
- It should have solar priority grid charging.
- The inverter must operate at the load power factor of 0.9.

## 6. Specification Grid Interactive Inverter with Isolation Transformer

Feature	Minimum Specification
Switching elements	IGBT /MOSFET
Type of Charge Controller	With MPPT charge controller with regulated constant output and controlled charging with auto boost, float and trickle mode charging.
Nominal Inverter Capacity	Minimum 3 Kw or Higher
Nominal Array Capacity	3kWp
Maximum DC Voltage	500 V
Mpvt Voltage range	150 V- 450 V
Suitable MPPT Range	For 96 volts input or 48 volts input
Battery nom Volt	>= 96V or >= 48 V
Inverter Surge Rating @ 40 deg C	150% > 30 sec
Inverter Output Voltage	230V +/- 1% for single phase
Inverter Output Frequency (Synchronization range)	50+/- 0.5 Hz (Synchronized to Mains during grid export operation)
Grid synchronization Voltage range	170V - 270V. (PCU should charge the battery & Inverter should able to work at this voltage range.)
Grid Frequency range	50 Hz (47 to 53 Hz)
Current THD	< 3%
DC Ripple	< 2%
Inverter Efficiency @ 40 deg C, Nominal load	90 % at peak load on Grid mode
Operating Ambient Temperature	0 to 50 deg C
Humidity	95% max. non condensing
Enclosure	Free standing, IP 21, Epoxy powder coated
Cooling	Forced air cooling
Protection	Short Circuit Overload Over Temperature Over VoltageLightning
Output wave form	Pure Sine wave
Grid Charger capacity	Suitable to charge the battery and feed to Inverter simultaneously. minimum 10% to the battery AH capacity to be provided to charge the battery
<b>Valid Test Certificates to be attached for the following (latest of the certification series mentionedbelow)</b>	

Feature	Minimum Specification
Environmental Testing- PCU/inverter with built in MPPT charge controller.	IEC 60068-2 (1,2,14,30) / Equivalent BIS Std
Efficiency Measurements – Inverter with built in MPPT charge controller	IEC 61683 / IS 61683
Safety Measurement- Anti Islanding Protection, Electromagnetic compatibility & electromagnetic interference of inverter	IEC 62109-1 & IEC 62109-2, IEC 61000-6-3:2007, IEC61000-3-2:2006, IEC 61000-3-3:2006.

7. The inverter should have following feature:

- The system must have intelligent power/Load management circuit, i.e. if sufficient solar sunshine is available; priority should be given to harness this clean energy first. If due to cloudy conditions, solar energy is not available, the system should automatically draw the power from Grid Power Supply for charging the batteries. If both the solar power and grid is absent then only battery should provide the power to the load. Hence, the charging and discharging cycle of the battery should be optimized for highest efficiency.
- There should be provision of bypass arrangement available in PCU. Bypass means that power supply from the grid to the connected load can be bypassed from the PCU, in case PCU goes out of order.

## 8. PROTECTION & SAFETY:

Specifically, the inverter should be a single phase static solid-state type unit. Both AC & DC lines shall have suitable MCB/MCCB to allow safe start up and shut down of the system. Inverter should have protections for overload, surge current, high Temperature, over/ under voltage and over/ under frequency.

The inverter shall have provision for input & output isolation each through solid-state electronic device shall have to be protected to ensure long life of the inverter as well as smooth functioning of the inverter. Inverter should have safety measures to protect inverter from reverse short circuit current due to lightening or line faults of distribution network.

### 12.8.3. Battery Bank

The battery bank should support 24x7 operations through-out the year as per the load mentioned. Batteries type should be of Tubular type. The vendor shall calculate the battery capacity requirements to meet the SLA. The general specifications shall be as under:

The Manufacturers of Batteries should have been approved by MNRE and tested at any of the NABL approved Labs/ETDC, and should possess the Valid ISO9001 certificate &ISO 14001 certificates and should have BIS Standards as per the existing MNRE guidelines.

2) The battery bank shall consist of required number of deep-discharge electrochemical storage cells, suitably interconnected as required. Parallel connections of storage cells will be discouraged.

3) The Batteries shall be capable of deep discharge and frequent cycling with long maintenance intervals and high columbic efficiency. Automotive or car batteries shall not be accepted.

4) The nominal voltage and capacity of the storage bank shall be selected and specified by the supplier in the bid.

5) The permitted maximum depth of discharge (DOD) shall be specified by the supplier in the bid. Supplier should also specify the expected life of the Battery bank.

6) The Batteries shall preferably be supplied in charged condition, complete with all required accessories.

7) Battery rack should be of matured treated sapwood/MS stand single tier or two tier (if required), duly painted. Placement of battery should be such that maintenance of the battery could be carried out easily.

Bidder may propose higher battery volts. The bidder may propose 24 or 48 Volts battery due to which the subsequent Battery Ah capacity must also be calculated and relevant SLD must be submitted with proper reasoning for selection of battery voltage.

Note: Battery backup time to be calculated on full load.

#### 12.8.4. Lightning & Over Voltage Protection

The SPV Power Plant should be provided with suitable lightening and over voltage protection. The principal aim in this protection is to reduce the over voltage to a tolerable value before it reaches the PV or other sub-systems components. The source of over voltage can be lightening or any other atmospheric disturbance. Each LA shall have to be earthed through suitable size earth bus with earth pits. The earthing pit shall have to be made as per IS 3043. LA should be installed to protect the array field, all machines and control panels installed in the control rooms.

#### 12.8.5. Earthing Protection

Each array structure of the PV yard should be grounded properly using adequate number of earthing kits. Each kit should contain super earth mixture and galvanized clamp and rod. All metal casing/shielding of the plant should be thoroughly grounded in accordance with Indian Electricity Act/IE rules as amended up to date. The earthing pit shall have to be made as per IS: 3043. All the array structures, equipment & control systems should be compulsorily connected to the earth.

#### 12.8.6. DC Distribution Box

A DC distribution box shall be mounted close to the inverter. The DC distribution box shall be of the MS/thermo plastic IP65 DIN rail mounting type and shall comprise the following components and cable terminations:

- Incoming 2 core (Positive and negative DC) cables from the DC Combiner Box;
- DC circuit breaker, 2 poles (the cable from the DC Combiner Box will be connected to this circuit breaker on the incoming side.
- DC surge protection device (SPD),
- Outgoing 2 core cable (Positive and negative DC) to the solar inverter.

#### 12.8.7. AC Distribution Box

An AC distribution box shall be mounted close to the solar inverter. The AC distribution box shall be of the MS/ thermo plastic IP65 DIN rail mounting type and shall comprise the following components and cable terminations:

- Incoming 3 core cable from the solar grid inverter
- AC circuit breaker, 2 pole / 4 pole
- AC surge protection device (SPD),
- Outgoing cable to the building electrical distribution board.

#### 12.8.8. Cables/Wires

All cables should be of copper as per ISI and should be of industrial grade as per requirement. All connections should be properly made through suitable lug/terminal crimped with use of suitable proper cable glands. The size of cables/wires should be designed considering the line losses, maximum load on line, keeping voltage drop within permissible limit and other related factors. The cable/wire should be of ISI/ISO mark for overhead distribution as per the existing norms of MNRE.

For normal configuration the Minimum suggested sizes of copper cables are:

Module to module/SJB/AJB - 4 sq mm (single core)

AJBs to MJBs/DCDB - 10 / 16 sq mm (two core)/or as per design& rating

MJBs to DCDB - as per design & rating

DCDB to PCU - as per design & rating

Battery to BPP - as per design & rating

BPP to DCDB - as per design & rating

DCDB to PCU - as per design & rating

PCU to ACDB - as per design & rating

The size & rating of the cables should be suitable as per the site condition, design & capacity of SPV Power Plant.

### 12.8.9. Junction Box

Junction Boxes (SJB / AJB / MJB) shall be mounted on poles of array support structure. It should be provided with proper locking arrangements.

### 12.2.20. Online UPS – 3 KVA with 4 Hours Backup

S. No.	Parameter	Minimum Specifications
1	Technology	IS 16242 (Part 1) certified Fully Microprocessor Based; True Online (double conversion) with built-in isolation transformer.
2	Input	170V to 280V AC @ 45Hz to 55Hz
3	Output	230VAC +-1%
4	Wave Form	Pure Sinewave
5	Overloaded Capacity	125% for 1 Minute; 150% for 10 Secs
6	Battery	SMF/Tubular Batteries complete with self-standing Cabinet / Battery Rack for 4 hours backup
7	Operating Temperature	0 to 45 Degrees
8	Operating Humidity	95% Non-condensing
9	Protection	Built in overload / Short Circuit protection; battery deep discharge protection; Earth Leakage Protection; Static Trip protection
10	Monitoring	Output monitoring for Voltage, Current and Wave form with Closed Loop feedback
11	By-Pass	Static and manual by-pass switch
12	Indicators	ON/OFF/Faulty/Trip
13	Battery bank with Rack	The battery bank should support 24x7 operations through-out the year as per the load mentioned. Batteries type should be of Tubular type. The vendor shall calculate the battery capacity requirements to meet the SLA.

**Note:** UPS Battery backup time to be calculated on full load.

### 12.2.21. 5 KVA Air Cooled Servo Controlled/ IGBT Voltage Stabilizer\*

S. No.	Parameter	Minimum Specification
--------	-----------	-----------------------

1	General	From reputed brands with 100% Copper winding.
2	Input Range	70V-300V, 90V-300V, 110V-300V, 150 V – 300V (Bidder to quote for Stabilizer for each type of input voltage range)
3	Protection	Neutral failure protection
		Frequency cut off protection
		Earth Neutral voltage cut off protection
4	Buck Boost Transformer	on CRGO Lamination as per Specifications for high efficiency and low losses
5	Efficiency	> 98%.

## 13. Annexure 1 – Instructions for Pre-Qualification Bid

### 13.1. Bid Cover Letter

To

*Subject: Selection of System Integrator for Implementation of CCTV Surveillance System for Police stations in Bihar State*

**Ref** : Tender No: XXXXXXXXXX **Dated:** XX/XX/XXXX

Sir/ Madam,

*Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for the Appointment of an Agency for implementation of CCTV based Surveillance System for Police Stations in Bihar State.*

*We attach hereto our responses to pre-qualification requirements and technical & commercial proposals as required by the RFP. We confirm that the information contained in these responses or any part*

thereof, including the exhibits, and other documents and instruments delivered or to be delivered to Govt. of Bihar is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the RFP document and also agree to abide by this tender response for a period of 180 days from the date fixed for bid opening. We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed the RFP. We also herewith express our willingness to subject to BSEDC's conditionality's regarding manpower recruitments (required for the project), change of hands of management and declaring upfront the source of funding for the project.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the tender response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Dated this Day of 2021

(Signature)

(In the capacity of)

(Name)

Duly authorized to sign the Tender Response for and on behalf of:

(Name and Address of Company)

Seal/Stamp of bidder

Witness Signature:

Witness Name:

Witness Address:

### 13.2. Checklist for the documents to be included in the Pre-Qualification

#	Documents to be submitted	Submitted (Y/N)	Documentary Proof (Page No.)
1.	Bid Covering Letter		
2.	Power of attorney / board resolution to the authorized Signatory of the Bid		
3.	E.M.D. of Rs. 100,00,000/-		
4.	Particulars of the Bidders (in the format given in Form-2)		
5.	Copy of Certificate of Incorporation		
6.	Copy of Audited Balance Sheet for last 3 years		



#	Documents to be submitted	Submitted (Y /N)	Documentary Proof (Page No.)
7.	Copy of the audited Profit & Loss Statements for each of the last 3 financial years		
8.	Certificate from the Chartered Accountant towards net worth of the company as on 31/03/2020		
9.	Certificate from the Chartered Accountant towards Revenue of the firm from IT & ITES related business from last 3 financial years		
10.	Appraisal letter from the lead banker giving the <ul style="list-style-type: none"> <li>Financial position of the firm</li> <li>Liquidity position,</li> <li>Credit facility enjoyed by the firm,</li> <li>present working capital</li> <li>Any other financial aspects</li> </ul>		
11.	Certified copies of valid PAN documents		
12.	Proof of ISO / SEI CMM certification		
13.	Copy of GST registration		
14.	Statement of Deviation from the RFP Requirements (Format given in Section 7.5)		

### 13.3. Format to share Organizational Profiles

#	Description	Details (to be filled by the responder to the RFP)
1.	Name of the company	
2.	Official address	
3.	Phone No. and Fax No.	
4.	Corporate Headquarters Address	
5.	Phone No. and Fax No.	
6.	Web Site Address	
7.	Details of Company's Registration (Please enclose copy of the company registration document)	
8.	Name of Registration Authority	
9.	Registration Number and Year of Registration	
10.	Quality Certificates (ISO 9001/SEI CMMI) and its validity	
11.	GST registration No.	
12.	Permanent Account Number (PAN)	
13.	Company's Revenue for last 3 years (Year wise)	
14.	Company's Profitability for the last 3 years (Year wise)	

Please submit the relevant proofs for all the details mentioned above along with your Bid response.

**Contact Details of officials for future correspondence regarding the bid process:**

Details	Authorized Signatory	Secondary Contact
Name		
Title		
Company Address		
Phone		
Mobile		
Fax		
E-mail		

**13.4. Formats to share Bidder details**

Name of the Bidder		
Heading1	Sub - Heading	
Financial Capability	Overall turnover for FY 2017-18, FY 2018-19, FY 2019-2020 (in INR Crores)	
	Turnover from Surveillance projects for FY 2017-18, FY 2018-19, FY 2019-20(in INR crores) #	
	Turnover from IT/ITES related business for FY 2017-18, FY 2018-19, FY 2019-20(in INR crores)#	
	FY 2017-18, FY 2018-19, FY 2019-20(in INR crores)	
	Net Worth as on March 31, 2020 (in INR crores) #	
* List of the Projects considered for Surveillance  turnover for the last 3 years	1. 2. 3.	
# List of the Projects considered for IT / ITES / Telecom turnover for the 3 years	1. 2. 3.	

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

- *Please submit CA Certification IT/ITES Business Turnover and Net Worth. Also attach the Auditor Certified financial statements for the last three financial years; FY 2017-18, FY 2018-19, FY 2019-20*

## 14. Annexure 2 – Formats of Technical Bid

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### 14.1. Form 1: Undertaking on Total Responsibility

Tender Ref. \_\_\_\_\_ Date: \_\_\_\_\_  
To:  
Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan  
Shastri Nagar Patna – 800023

Dear Sir,

**Sub: Self certificate regarding Total Responsibility**

This is to certify that we undertake total responsibility for the successful and defect free operation of the proposed Project, as per the requirements and terms and condition of the RFP for Police Station Surveillance Project of Bihar.

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Seal :

Business Address:

## 14.2. Form 2: Particulars of the Bidder

Details of the Bidder		
1	Name of the Bidder	
2	Address of the Bidder	
3	Status of the Company (Public Ltd/ Pvt. Ltd)	
4	Details of Incorporation of the Company	Date:
		Ref. No
5	Details of Commencement of Business	Date:
		Ref. No
6	Permanent Account Number (PAN)	
7	GST registration No.	
8	Name & Designation of the contact person to whom all references shall be made regarding this tender	
9	Telephone No. (with STD Code)	
10	Fax No. (with STD Code)	
11	E-Mail of the contact person	
12	Website	

### 14.3. Form 3: Manufacturers'/Producers' Authorization Form

(This form has to be provided by the OEMs of the products proposed. Separate MAF's to be provided from OEM if same item has different parts from different OEM)

Tender Ref.

Date:

To:

Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan  
Shastri Nagar Patna – 800023

Dear Sir,

Subject: OEM Authorization Letter for Police Station Surveillance System

We, (name and address of the manufacturer) who are established and reputed manufacturers of having factories at (addresses of manufacturing locations) do hereby authorize (name of the bidders & address of the manufacturer) to bid, negotiate and conclude the contract with you against the above mentioned tender for the above equipment manufactured by us.

Yours faithfully,

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

Signature Name : \_\_\_\_\_

Designation Address : \_\_\_\_\_

Date : \_\_\_\_\_

Directorate Seal : \_\_\_\_\_

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The Bidder in its Bid should include it. The Bidder should complete the below given table with details of all OEMs as proposed for this assignment.

Item	Name of OEM and brand/ Make	Model no.

#### 14.4. Form 3A: No Malicious Code Undertaking Letter

To,  
Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan,  
Shastri Nagar, Patna,  
Bihar, 800023.

Dear Sir,

**Sub:** Undertaking for No Malicious Code for RFP no. BSEDC/....../.. for Selection of System Integrator for Implementation of IP based CCTV Surveillance System with Solar UPS at Police stations in Bihar dated xx-xx- 2021.

Over and above all our earlier conformations and submissions as per your requirements of the RFP, we confirm that,

1. All proposed hardware and software components in scope of supplies (Cameras, System, Switches, Software etc.) when shipped by, does not contain embedded malicious code that would activate procedures to:-
  - a. Inhibit the desired and designed function of the equipment.
  - b. Cause physical damage to the user or equipment during the exploitation.
  - c. Tap information resident or transient in the equipment/networks.
2. We, \_\_\_\_\_ will be considered to be in breach in case physical damage or malfunctioning is caused due to activation of any such malicious code in embedded software and thus be liable to repair, replace or refund the price of the infected software if reported (or, upon request, return) to the party supplying the software to Customer, if different than \_\_\_\_\_.

Place:

Date

Seal and signature of the bidder

(This letter should be on the letterhead of the bidder duly signed by an authorized signatory)

#### 14.5. Form 4: Undertaking of Service Level Compliance

Tender Ref.

Date:

To:

Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan  
Shastri Nagar Patna – 800023

Dear Sir,

**Sub:** Undertaking on Service Level Compliance

1. I/We as Implementing Agency do hereby undertake that we shall monitor, maintain, and comply with the service levels stated in the RFP to provide quality service to BSEDC.
2. However, if the proposed resources and ICT components are found to be insufficient in meeting the RFP and/or the service level requirements given by BSEDC, then we will augment the same without any additional cost to BSEDC.

Yours faithfully,

(Signature of the Authorized signatory of the Bidding Organisation)

Name :

Designation :

Date :

Seal :

Business Address :



#### **14.6. Form 5: Undertaking on Exit Management and Transition**

Tender Ref.

Date:

To:

Managing Director,

Bihar State Electronics Development Corporation (BELTRON)

BELTRON Bhawan

Shastri Nagar Patna – 800023

Dear Sir,

Sub: Undertaking on Exit Management and Transition

1. I/We hereby undertake that at the time of completion of our engagement with the BSEDC, either at the End of Contract or termination of Contract before planned Contract Period for any reason, we shall successfully carry out the exit management and transition of this Project to the BSEDC or to an agency identified by BSEDC to the satisfaction of the BSEDC. I/We further undertake to complete the following as part of the Exit management and transition:
  - a) We undertake to complete the updation of all Project documents and other artefacts and handover the same to BSEDC before transition.
  - b) We undertake to design standard operating procedures to manage system (including application and IT systems), document the same and train BSEDC personnel on the same.
  - c) If BSEDC decides to take over the operations and maintenance of the Project on its own or identifies or selects any other agency for providing operations & maintenance services on this Project, then we shall provide necessary handholding and transition support, which shall include but not be limited to, conducting detailed walkthrough and demonstrations for the IT Infrastructure, handing over all relevant documentation, addressing the queries/clarifications of the new agency with respect to the working / performance levels of the ICT components , conducting Training sessions etc.
2. I/We also understand that the Exit management and transition will be considered complete on the basis of approval from BSEDC.

Yours faithfully,

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Seal :

Business Address:

#### **14.7. Form 6: Declaration that the bidder has not been blacklisted**

*(To be submitted on the Letterhead of the responding agency)*

*Tender Ref.*

*Date:*

*To:*

*Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan  
Shastri Nagar Patna – 800023*

*Sub: Self Declaration of not been blacklisted in response to the RFP <<\*\*\*\*>>*

*Dear Sir,*

*We confirm that our company, \_\_\_\_\_, is not blacklisted in any manner whatsoever by any of the State/UT and/or central government in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as on date \_\_\_\_ / \_\_\_\_ / \_\_\_\_ .*

*Place:*

*Date:*

*Bidder's Company Seal:*

*Authorized Signatory's Signature:*

*Authorized Signatory's Name and Designation:*

*Note: The Bidder shall necessarily provide a copy of Board resolution/ 'Power of Attorney' authorizing the signatory for signing the Bid on behalf of the Bidder in its Pre-Qualification Bid.*

#### 14.8. Form 7: Statement of Deviation from Requirement Specifications

Tender Ref.

Date:

To,

Managing Director,

Bihar State Electronics Development Corporation (BELTRON)

BELTRON Bhawan

Shastri Nagar Patna – 800023

**Reference:** Tender Number ..... Dated .....

Sir,

There are no technical deviations (null deviations) from the requirement specifications of tendered items and schedule of requirements. The entire work shall be performed as per your specifications and documents. OR (Strike out whatever is not applicable) Following is the exhaustive list of technical deviations and variations from the requirement specifications of tendered items and schedule of requirements. Except for these deviations and variations, the entire work shall be performed as per your specifications and documents.

S. No.	Section No.	REQ No.	Page No.	Statement of deviations and variations
1.				
2.				

Authorized Signatory Name :

Designation:

Seal:

#### 14.9. Form 8: Statement of Deviation from Tender Terms and Conditions

Tender Ref.

Date:

To,

Managing Director,

Bihar State Electronics Development Corporation (BELTRON)

BELTRON Bhawan

Shastri Nagar Patna – 800023

Sir,

*There are no deviations (null deviations) from the terms and conditions of the tender. All the terms and conditions of the tender are acceptable to us.*

*OR (Strike out whatever is not applicable)*

*Following are the deviations from the terms and conditions of the tender. These deviations and variations are exhaustive. Except these deviations and variations, all other terms and conditions of the tender are acceptable to us.*

S. No.	Section No.	Page No.	Para	Statement of deviations and variations
1.				
2.				

Authorized Signatory

Name :

Designation:

Seal:

#### **14.10. Form 9: Warranty Certificate**

*(On the bidder's Letterhead)*

*Tender Ref.*

*Date: dd/mm/yyyy*

*To,*

*Managing Director,*

*Bihar State Electronics Development Corporation (BELTRON)*

*BELTRON Bhawan*

*Shastri Nagar Patna – 800023*

*Sir,*

*We warrant that the equipment(s) supplied under the contract would be newly manufactured, free from all encumbrances, defects and faults in material or workmanship or manufacture, shall be of the highest grade and quality, shall be consistent with the established and generally accepted standards for materials of the type ordered, shall be in full conformity with the specifications, drawings of samples, if any, and shall operate as designed. We shall be fully responsible for its efficient and effective operation. We also warrant that the services provided under the contract shall be as per the Service Level Agreement (SLA) with BSEDC. This warranty shall survive inspection of and payment for, and acceptance of the Equipment and Services and shall expire only after 5 years after their successful installation and acceptance by BSEDC.*

*We warrant that all services to be provided under the contract shall be as per our Service Level Agreement (SLA) with BSEDC. This warranty on services provided shall remain valid for the entire duration of the services contract from the date of acceptance by BSEDC.*

*The obligations under the warranty expressed above shall include all costs relating to labour, tools, spares, maintenance (preventive as well as unscheduled), and transport charges from site to manufacturer's works / service facilities and back for repair or modification or replacement at site of the equipment or any part of the equipment, which under normal care and proper use and maintenance proves defective in design, material or workmanship or fails to operate effectively and efficiently or conform to the specifications and for which notice is promptly given by BSEDC to us (bidder). We shall provide on-site support for all the equipment and services supplied hereunder during the period of this warranty (5 years after acceptance for equipment and entire service period for services).*

*Authorized Signatory*

*Name :*

*Designation:*

*Seal:*

**14.11. Form 10- Undertaking on Office Premises (in firm/ company letter head)**

*This is to certify that << COMPANY NAME >> has an office in Patna / Bihar. Relevant address proof and supporting documents are enclosed.*

*Company Secretary / Authorized Signatory*

*Name of Signatory:*

*Bidder Name:*

*Date*

*Place*

## 14.12. Form 11- Performance Guarantee

### PERFORMANCE GUARANTEE

Ref:

Bank Guarantee No:

Date:

To

Managing Director,

Bihar State Electronics Development Corporation (BELTRON)

BELTRON Bhawan

Shastri Nagar Patna – 800023

- 1) Against contract vide Advance Acceptance of the Tender No. Dated covering “RFP for Implementation of Police Station CCTV Surveillance System and services across the state” (hereinafter called the said 'contract') entered into between BELTRON, Government of Bihar, (hereinafter called the Purchaser) and M/s. , a Company incorporated under the Companies Act, 1956 and having its Registered Office at .....(hereinafter called the Bidder) this is to certify that at the request of the Bidder we (name of the Bank / Branch ..... ) a body corporate constituted under the Banking Companies [Acquisition and Transfer of Undertakings] Act, 1970 and having its, Registered Office at..... and a branch office at ..... are holding in trust in favour of the Purchaser, an amount of Rs (Rupees ..... only) to indemnify and keep indemnified the Purchaser against any loss or damage that may be caused to or suffered by the Purchaser by reason of any breach by the Bidder of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether by any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Bidder and the amount of loss or damage that has been caused or suffered by the Purchaser shall be final and binding on us and the amount of the said loss or damage shall be paid by us forthwith on demand and without demur to the Purchaser.
- 2) We (Name of the Bank /Branch) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfilment in all respects of the said contract by the Bidder i.e. till hereinafter called the said date and that if any claim accrues or arises against us (Name of the Bank /Branch) by virtue of this guarantee before the said date, the same shall be enforceable against us .....(Name of the Bank/Branch) notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us .....(Name of the Bank/Branch) by the Purchaser before the said date. Payment under this guarantee shall be made promptly upon our receipt of notice to that effect from the Purchaser.
- 3) It is fully understood that this guarantee is effective from the date of the said contract and that we..... (Name of the Bank /Branch) undertake not to revoke this guarantee during its currency without the consent in writing of the Purchaser.
- 4) We undertake to pay to the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Bidder in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present bond being absolute and unequivocal.
- 5) The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Bidder shall have no claim against us for making such payment.

- 6) We (Name of the Bank / Branch) further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the Bidder from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Bidder and to forebear or enforce any of the terms and conditions relating to the said contract and we, (Name of the Bank / Branch) shall not be released from our liability under this guarantee by reason of any such variation or extension being granted to the said Bidder or for any forbearance by the Purchaser to the said Bidder or for any forbearance and or omission on the part of the Purchaser or any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision have the effect of so releasing us from our liability under this guarantee.
- 7) This guarantee will not be discharged due to the change in the constitution of the Bank or the Bidder. Notwithstanding anything contained herein:
- a. Our liability under this Bank Guarantee shall not exceed of Rs.....  
(Rupees in words only).
  - b. The Bank Guarantee shall be valid up to; and;
  - c. We..... (Name of the Bank / Branch) are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before ##.....

*Authorised Signatory of the Bank*

*Signature*

*Full name/designation/ Address of the official and date*

*WITNESS NO. 1*

*Signature*

*Full name/designation/ Address*

*WITNESS NO. 2*

*Signature*

*Full name/designation/ Address*



### **14.13. Form 12: Bank Guarantee for Earnest Money Deposit**

To,  
Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan  
Shastri Nagar Patna – 800023

Whereas <Name of the bidder> (hereinafter called 'the Bidder') has submitted the bid for Submission of RFP # <RFP Number> dated <Date> for <Name of the assignment> (hereinafter called "the Bid") to BSEDC

Know all Men by these presents that we < > having our office at <Address> (hereinafter called "the Bank") are bound unto BSEDC (hereinafter called "the Purchaser") in the sum of Rs. <Amount in figures> (Rupees <Amount in words> only) for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this <Date>

The conditions of this obligation are:

- 1) If the Bidder having its bid withdrawn during the period of bid validity specified by the Bidder on the BidForm; or
- 2) If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of validity of bid
  - a) Withdraws his participation from the bid during the period of validity of bid document; or
  - b) Fails or refuses to participate in the subsequent Tender process after having been short listed;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to <insert date> and including <extra time over and above mandated in the RFP> from the last date of submission and any demand in respect thereof should reach the Bank not later than the above date.

**NOTWITHSTANDING ANYTHING CONTAINED HEREIN:**

- a) Our liability under this Bank Guarantee shall not exceed Rs. <Amount in figures> (Rupees <Amount in words> only)
- b) This Bank Guarantee shall be valid upto <insert date>)
- c) It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before <insert date>) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank)

Seal:

Date:

#### 14.14. Form 13: Pre-Qualification - Compliance Sheet

#	Qualification Criteria	Documents/Information to be provided in the submitted proposal	Compliance (Y/N)
1	The responding firm/agency (a) Should have made a payment of INR.10,000.00 (Rupees Ten thousand) (non-refundable) for the Tender Fee (b) Should have submitted EMD of INR. 10,000,000.00 (Rupees One Crore only)	a) Cost of tender document must be submitted through E-payment only; else bid will be summarily rejected. b) EMD should be in favor of "Bihar State Electronics Development Corporation Ltd' Payable at Patna and issued by any scheduled / nationalized bank in the form of an original bank guarantee/Demand Draft. Bidders can also deposit the EMD through online payment in state e-procurement site.	
2	Legal Entity: The Company should be in the IT/ITES/Surveillance business for at least 5 (five) years as on bid submission date and should be registered under Companies Act, 1956	a) Copy of Certificate of Incorporation b) Copy of Registration Certificate c) Form 2 :- "Particulars of the Bidder"- Copy of all documents listed above should be attested by authorized signatory and must be submitted along with the response	
3	Registered GST and Provident Fund authorities in India	a) Copy of PAN Card b) GST certificate (Last up to date return copy) c) Copy of EPF and ESI Registration d) Copy of all documents listed above should be attested by authorized signatory and must be submitted along with the response	
4	The Net Worth of the bidder must be positive for the last financial year.	Chartered Accountant Certificate for positive Net worth for bidder	
5	The bidder must not be blacklisted by any Government / Public Sector organization / department in India at the time of submission of the response to this RFP.	A declaration as per the format prescribed in Form - "Declaration that the bidder has not been blacklisted" to be given by the authorized signatory of the responding firm and- Annexure – 3, Form 6	

#	Qualification Criteria	Documents/Information to be provided in the submitted proposal	Compliance (Y/N)
6	<p>Bidder's Average annual Sales Turnover must be INR 200 Crores or above / Cumulative turnover of 450 Cr for the last 3 audited financial years.</p> <p>In case Bidder is a wholly owned subsidiary, the financial experience of Parent company would be considered for eligibility, provided the parent company operates in India. In that case Parent company needs to provide an undertaking that the parent company will take complete responsibility of the project.</p>	<p>Audited accounts of the company as filed before the Registrar of Companies. In case the breakup of revenues is not available in the manner required in the audited Balance Sheet, the Bidder shall submit a certificate to this effect from the statutory auditor of the company/CA of the company.</p>	
7	<p>The Bidder must have successfully completed and running similar projects for more than a year, for Government/PSU/ Nationalized Bank / Large Enterprise (Listed company with 1000 Cr. Turnover in India for last 3 financial years) the following criteria- Total number of IP CCTV cameras installed in the last 7 years &gt;= 5200 (Surveillance should be part of the scope of work of the project).</p>	<p>Ref format: Form 14:- "Project Citation Format" supported with Work order or Purchase Order (PO) or Letter of Intent (LoI) and Proof of Go-live/ Project completion/Client satisfactory certificates signed by the authorized official from client mentioning the scope of work and project value. BSEDC may check the authenticity of the documents provided by the bidder.</p>	
8.	<p>The bidder must have successfully completed and running for more than a year, similar projects:</p> <p>1 order of value &gt;= 55 cr or 2 orders each of value &gt;= 34 Cr or 3 orders each of value &gt;= 27 Cr</p> <p><b>Similar projects mean Surveillance or Networking projects spread across multiple Police stations/Courts/Jail. Any large ongoing project with work order issue date before 1 year of date of RFP and PAT/FAT/SAT certificate/</b></p>	<p>Ref format: Form 14:- "Project Citation Format" supported with Work order or Purchase Order (PO) or Letter of Intent (LoI) and Proof of Go-live/ Project completion/Client satisfactory certificates signed by the authorized official from client mentioning the scope of work and project value. BSEDC may check the authenticity of the documents provided by the bidder.</p>	

#	Qualification Criteria	Documents/Information to be provided in the submitted proposal	Compliance (Y/N)
	<b>declaration from client clearly mentioning Go-Live details and BOQ may be considered as successfully completed project reference.</b>		
9.	The bidder shall have ISO 9001:2015, and ISO 27001:2013 certification	Copy of certification which is valid on date of bid submission.	
10.	The bidder must have at least 50 IT professionals (B.E/B.Tech/MCA/Diploma) on its payroll as on bid submission date	Certificate from HR Department for number of IT professionals employed by the company along with EPF account detail	
11.	The bidder should have direct authorization from the Original equipment offered	Refer: Form: - “Manufacturers’/Producers’ Authorization Form” for the MAF and complete the associated table provided with the form.  – Annexure – 3, Form 3	
12.	Bidder should have office and GST Registration in Bihar. Alternatively, if the bidder doesn’t have an office/GST registration in Bihar, then they have to furnish an undertaking that an office/GST registration would be established in Bihar, within 1 (one) month of signing the contract, to provide O&M support for entire project period.	A self-certified declaration by the authorized signatory of the bidder should be submitted along with the proposal.	
13.	Authorized signing authority	“Copy of Board resolution” or POA for bidder authorizing the person to sign on behalf of the company or Power of Attorney for the designated person to be provided as per the format prescribed in Form “Bidder's Authorization Certificate”. (Must be on a Non-Judicial INR 100/- Stamp Paper)”	

## 14.15. Form 14 - Project Citation Format

Relevant project experience	
General Information	
Name of the project	
Client for which the project was executed	
Name and contact details of the client (email, Phone no.)	
Project Details	
Description of the project	
Scope of services	
Service levels being offered/ Quality of service (QOS)	
Technologies used	
Outcomes of the project	
Other Details	
Total cost of the project	
Total cost of the services provided by the respondent	
Duration of the project (no. of months, start date, completion date, current status)	
Other Relevant Information	
Letter from the client to indicate the successful completion of the projects	
Copy of Work Order or Purchase Order (PO) or Letter of Intent (LoI)	

#### 14.16. Form 15 - Team Composition

Name of Staff with qualification and experience	Area of Expertise	Position Assigned	Task Assigned	Time committed for the engagement

### 14.17. Form 16 - Curriculum Vitae (CV) of Key Personnel

General Information	
Name of the person & Photograph	
Current Designation/Job Title	
Current job responsibilities	
Proposed Role in the Project	
Whether resource is engaged by the firm in its own payrolls	Yes / No
Proposed Responsibilities in the Project	
Academic Qualifications: <ul style="list-style-type: none"> <li>Degree</li> <li>Academic institution graduated from</li> <li>Year of graduation</li> <li>Specialization (if any)</li> <li>Key achievements and other relevant information (if any)</li> </ul>	
Professional Certifications (if any)	
Total number of years of experience	
Number of years with the current company	
Summary of the Professional / Domain Experience	
Summary of Projects undertaken/worked on (Only project name, client name, client contact details)	
Details of Past assignment details (For each assignment provide details regarding name of organizations worked for, designation, responsibilities, tenure)  Prior Professional Experience covering: <ul style="list-style-type: none"> <li>Organizations worked for in the past               <ul style="list-style-type: none"> <li>Organization name</li> <li>Duration and dates of entry and exit</li> <li>Designation Location(s)</li> <li>Key responsibilities</li> </ul> </li> <li>Prior project experience               <ul style="list-style-type: none"> <li>Project name</li> <li>Client</li> <li>Key project features in brief</li> <li>Location of the project</li> <li>Designation</li> <li>Role</li> <li>Responsibilities and activities</li> <li>Duration of the project</li> </ul> </li> </ul> Please provide only	

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

relevant projects.	
Proficient in languages (Against each language listed indicate if speak/read/write)	

**Note:** This format is for E-Form only. Bidder to share details CV of proposed Project manager along with photograph and attested copy of all Degree certificates with their bid document as part of General cum Technical Bid



## 14.18. Form 17 – Technical Qualification Compliance Sheet

To be declared in the bidder's letter head

Sl No.		Evaluation Criteria	Description	Compliance (Yes/No)	Page Reference (Document name & Page No)
1	Financial Strength	Annual turnover of the bidder in each of the last 3 audited financial years	<p>Average Turnover</p> <p>a. <math>\geq 200</math> Crores and <math>&lt; 250</math> Crores - 10 Marks</p> <p>b. <math>\geq 250</math> Crores and <math>&lt; 300</math> Crores - 14 Marks</p> <p>c. <math>\geq 300</math> Crores and <math>&lt; 350</math> Crores – 18 Marks</p> <p>d. <math>\geq 350</math> Crores - 20 Marks</p> <p>Or</p> <p>Cumulative Turnover</p> <p>a. <math>\geq 450</math> Crores and <math>&lt; 500</math> Crores - 10 Marks</p> <p>b. <math>\geq 500</math> Crores and <math>&lt; 550</math> Crores - 14 Marks</p> <p>c. <math>\geq 550</math> Crores and <math>&lt; 600</math> Crores – 18 Marks</p> <p>d. <math>\geq 600</math> Crores - 20 Marks</p>		
2	Past Experience	Technical Capability in executing & managing large IP Based CCTV Surveillance projects for Government body / PSU / Nationalized Bank/ Academic or Training Institutions/Autonomous Body/ Large Enterprise (Listed company with 1000 Cr. Turnover in India for last 3 financial	<p>Total Number of IP based CCTV cameras implemented in last 5 years as per pre-qualification terms (Work order copy to be submitted)</p> <p><math>\geq 5200</math> IP cameras as per pre-qualification terms -10 marks</p> <p>b. For every 500 cameras more- 1 marks</p>		
		Order value- of the bidder successfully completing and running for more than a year Networking and Integrated Security Surveillance order for Police	<p>3 order of value <math>\geq 27</math> Cr - 10 marks</p> <p>2 orders each of value <math>\geq 34</math> Cr -15 marks</p> <p>1 order of value <math>\geq 55</math> Cr - 20 marks</p>		

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

		department/Courts/Jail			
3	Presence in Bihar	Presence in Bihar	<p>a. Only have GST Registration in Bihar- <b>2 marks.</b></p> <p>b. Involved in a running Govt. project in Bihar but doesn't have an office/GST Registration in Bihar- <b>3 marks</b></p> <p>c. Involved in a running Govt. project in Bihar and also have an office and GST Registration in Bihar - <b>5 marks</b></p>		
4	Fulltime Deployment Resource Criteria for entire duration of the contract	Project Manager (1)	<p>Must have &gt;=08 years of work experience and points for the same will be allocated as follows:</p> <p><b>Qualification:</b></p> <ul style="list-style-type: none"> <li>• BE / B. Tech and MBA = 1</li> </ul> <p><b>Certification:</b></p> <p>PMP / Prince2 Certification = 1</p> <p><b>Project Experience:</b></p> <p>Managed projects with the similar scope of work and Operation &amp; Maintenance</p> <ul style="list-style-type: none"> <li>• &lt;3 projects &amp;&gt;1 = 1</li> <li>• &gt;= 3 projects = 2</li> </ul> <p><b>Experience:</b></p> <ul style="list-style-type: none"> <li>• &lt;=8 years &amp;&gt;=10 = 0.5</li> <li>• &gt; 10 years = 1</li> </ul>		
		Technician (15)	<p>Must have &gt;=5 years of work experience and points for the same will be allocated as follows:</p> <p><b>Project Experience:</b></p> <p>Projects with the similar scope of work and Operation &amp; Maintenance</p> <ul style="list-style-type: none"> <li>• 2 projects = 0.5</li> <li>• &gt;2 projects = 1</li> </ul>		
5	Approach & Methodology	Approach & Methodology and Presentation (15)	In this section, the responding firm should		

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

and Presentation	Mins of presentation)	<p>Explain the:</p> <ul style="list-style-type: none"> <li>Understanding of the project requirements</li> <li>highlight the expected support from various stakeholders of the project</li> <li>approach to the services, SLA management methodology</li> <li>methodology for carrying out the activities for expected output - (2 mark for Technical Proposal and 2 Mark for Presentation)</li> </ul> <p>–Highlight :</p> <ul style="list-style-type: none"> <li>the associated risks / problems and plans for mitigation and explain the technical approach it would adopt to address them – (2 mark for Technical Proposal and 2 Mark for Presentation)</li> </ul> <p>– Explain:</p> <ul style="list-style-type: none"> <li>the methodologies the responding firm proposes to adopt and highlight the compatibility of those methodologies with the proposed approach - (2 mark for Technical</li> </ul>		
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RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

			<p>Proposal and 2 Mark for Presentation)</p> <p>– Work Plan &amp; Digitization:</p> <ul style="list-style-type: none"> <li>• Detailed Plan to achieve the timeline</li> <li>• Plan for Integration with the existing system - (4marks)</li> </ul> <p>– Security &amp; Policy enforcement:</p> <ul style="list-style-type: none"> <li>• Detailed Plan and methodology proposed for securing the network, data, enforcing policy for content filtering and unethical access etc. - (2 mark for Technical Proposal and 2 Mark for Presentation)</li> </ul>		
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## 14.19. Form 18 – Letter for Technical Proposal

<Location, Date>

To:

Managing Director,  
Bihar State Electronics Development Corporation (BELTRON)  
BELTRON Bhawan  
Shastri Nagar, Patna – 800023  
Subject: Submission of the Technical bid for <Name of the Systems Implementation assignment>

Dear Sir/Madam,

We, the undersigned, offer to provide Systems Implementation solutions to BSEDC Ltd on <Name of the Systems Implementation engagement> with your Request for Proposal dated <insert date> and our Proposal. We are hereby submitting our Proposal, which includes this Technical bid and the Financial Bid separately as per the e-forms.

We hereby declare that all the information and statements made in this Technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the Implementation services related to the assignment not later than the date indicated in Data sheet.

We agree to abide by all the terms and conditions of the RFP document. We would hold the terms of our bid valid for 180 days as stipulated in the RFP document.

We hereby declare that we are not insolvent, in receivership, bankrupt or being wound up, our affairs are not being administered by a court or a judicial officer, our business activities have not been suspended and we are not the subject of legal proceedings for any of the foregoing.

We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Location: \_\_\_\_\_

Date: \_\_\_\_\_

## 14.20. Form 19 – Cost Bid Format

I: Estimated Capital Expenditure for the Project			
#	Items	Ref Schedule	Total Price
1.	Estimated Infrastructure for New Police stations & Outposts (304)	Schedule A	
2.	Estimated Infrastructure of additional equipment for Existing 959 police stations	Schedule B	
I	<b>Total CAPEX Cost</b>		
II: Estimated Operational Expenditure for the Project			
#	Items	Ref Schedule	Total Price
3.	Manpower Cost (Including Manpower for Existing Police Stations)	Schedule C	
4.	Extended Warranty Support & O&M Cost for New Police stations & Outposts (304)	Schedule D	
5.	Extended Warranty Support & O&M Cost of additional equipment for Existing 959 police stations	Schedule E	
6.	Dismantling, Shifting including Transportation & Installation	Schedule F	
II	<b>Total OPEX Cost</b>		
<b>Grand Total (I+II)</b>			
<b>Total Project Value (In Words :)</b>			

- The quantity is for evaluation purpose only. It may vary after Site Survey

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Schedule A: Estimated Infrastructure for New Police stations & Outposts (304)								
SR NO.	ITEM DESCRIPTION	UoM	QTY	RATE	AMOUNT (A)	TAX (in %)	TAX (B)	TOTAL (C=A+B)
1.	IP Fixed Bullet Camera	No.	3,064					
2.	IP IR PTZ Camera with PSU	No.	304					
3.	Video Recording, Management and Monitoring System with 545 days of Storage as per specification	No.	304					
4.	L2 Managed Switch as per specification	No.	304					
5.	UTP Cat 6 Cable	Mtr	Lumpsum (bidder to put the estimated cable length)					
6.	24 Port Patch Panel, jacks, Face plate, I/O Box, Electrical cable, switches and accessories, conduit, connectors, joints, bends etc. and any other passive components. Earthing as per cost as per specification and all other spare equipment.	Lumpsum (bidder to provide breakup of each components with unit price separately as per format mentioned in Annexure-2 Form-20 )						
7.	32" HD Display with Video cable up to 15 Meters.	No.	304					
8.	Equipment Rack with all accessories (Cable Manager PDU, Fan etc.)	No.	304					
9.	One Time Supply, Installation, Testing, Commissioning and User training charges	No.	304					

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

<b>10</b>	8TB HDD for Storage	No.	1216					
<b>11</b>	MIC for Audio recording and integration with CCTV Camera	No.	1824					
<b>12</b>	SITC of 3 KVA Solar UPS with Isolation Transformer System with 6 hours Backup	No.	15					
<b>13</b>	SITC of 3 KVA Online UPS with Isolation Transformer System with 4 hours Backup	No.	289					
<b>14</b>	Pole for PTZ Camera	No.	105					
<b>A. Estimated Total Cost</b>								

<b>Schedule B: Estimated Infrastructure for Existing 959 police stations</b>								
<b>SR. NO.</b>	<b>ITEM DESCRIPTION</b>	<b>UoM</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT (A)</b>	<b>TAX (in %)</b>	<b>TAX (B)</b>	<b>TOTAL (C=A+B)</b>
<b>1.</b>	IP Fixed Bullet Camera	Nos.	3,200					
<b>2.</b>	IP IR PTZ Camera with PSU	No.	26					
<b>3.</b>	Video Recording, Management and Monitoring System	No.	38					
<b>4.</b>	UTP Cat 6 Cable	Mtr	Lumpsum (bidder to put estimated cable length)					
<b>5.</b>	24 Port Patch Panel, jacks, Face plate, I/O Box, Electrical cable, switches and accessories, conduit, connectors, joints, bends etc. and any other passive components. Earthing cost as per specification and all other spare equipment.	Lumpsum (Bidder to provide breakup of each components with unit price separately as per format mentioned in Annexure-2)						



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

		Form-20)						
6.	32" HD Display with Video cable up to 15 Meters.	No.	45					
7.	8TB HDD for Storage	No.	1284					
8.	MIC for Audio recording and integration with CCTV Camera	No.	5176					
9.	Cable (4-6 Sq. mm. Copper Cable)	Mts	6000					
<b>B. Estimated Total Cost</b>								

- The quantity is for evaluation purpose only. It may vary after Site Survey.
- **The quantity is indicative for evaluation purpose only. It may vary after Site Survey. Bidders have to supply both Solar and online UPS at same unit rate as per quoted price in bid Schedule**
- **Change of unit rate due to variance in quantity is not acceptable by BSEDC**

Schedule C: Manpower Cost							
SR. NO.	ITEM DESCRIPTION	QTY	Monthly RATE	AMOUNT (A)	TAX (in %)	TAX (B)	TOTAL (C=A+B)
1.	Project Manager	1					
2.	L1 Field Engineer (For new 304 locations)	15					
3	L1 Field Engineer (Existing 959 Police stations)	As per Bidder Solution					
<b>C. Estimated Cost for Manpower</b>							

Note: For Existing 959 police stations bidder should provide manpower in a way that all the SLA parameters to be achieved.

Schedule D: Extended Warranty Support & O&M Cost for New police stations (304)					
SR. NO.	ITEM DESCRIPTION	AMOUNT (A)	TAX (in %)	TAX (B)	TOTAL (C= A+B)
1.	1st Year extended Warranty support and O&M cost for all hardware				
2.	2 <sup>nd</sup> Year extended Warranty support and O&M cost for all hardware				
3.	3 <sup>rd</sup> Year extended Warranty support and O&M cost for all hardware				
<b>D. Estimated Cost for Extended Warranty Support &amp; O&amp;M</b>					

<b>Schedule E: Extended Warranty Support &amp; O&amp;M Cost for existing 959 Police stations</b>					
<b>SR. NO.</b>	<b>ITEM DESCRIPTION</b>	<b>AMOUNT (A)</b>	<b>TAX (in %)</b>	<b>TAX (B)</b>	<b>TOTAL (C= A+B)</b>
<b>1.</b>	1st Year extended Warranty support and O&M cost for all hardware				
<b>2.</b>	2 <sup>nd</sup> Year extended Warranty support and O&M cost for all hardware				
<b>3.</b>	3 <sup>rd</sup> Year extended Warranty support and O&M cost for all hardware				
<b>E. Estimated Cost for Extended Warranty Support &amp; O&amp;M</b>					

<b>Schedule F: Dismantling, Shifting including Transportation &amp; Installation</b>							
<b>SR. NO</b>	<b>ITEM DESCRIPTION</b>	<b>QTY (Q)</b>	<b>Unit Price (U)</b>	<b>AMOUNT (A= Q*U)</b>	<b>TAX (in %)(B)</b>	<b>TAX (C)</b>	<b>TOTAL (D=A+C)</b>
1.	Dismantling charges of Racks	100					
2.	Dismantling charges of UPS and batteries	100					
3.	Dismantling charges of Solar panel	100					
4.	Dismantling charges of camera	100					
5.	Shifting charges of Rack	100					
6.	Shifting charges of UPS and Batteries	100					
7.	Shifting charges of Solar Panel	100					
8.	Shifting charges of Camera	100					
9.	Shifting and reinstallation charges of Server/NVR	100					
10.	Reinstallation of Rack	100					
11.	Reinstallation of UPS and Battery	100					
12.	Reinstallation of Solar Panel	100					
13.	Reinstallation of Camera	100					
<b>F. Estimated Cost for Dismantling, Shifting including Transportation &amp; Installation</b>							

Note: The cost discovered against Schedule F is for bid evaluation purpose only. Bidder needs to carry out dismantling, shifting including arrange of transportation if any and re installation of dismantled equipment/new equipment in place of dismantled equipment for sites as and when required basis. Cost of such activities will be paid based on pro-rata.

#### 14.21. Form 20 – Cost Bid Format for Lumpsum Passive Items

S No.	ITEM DESCRIPTION	QTY	UNIT PRICE	Tax in %	Tax	Total
1	24 Port Patch Panel and jacks					
2	Face plate, I/O Box,					
3	Electrical cable					
4	Electrical Cable Conduit					
5	Electrical Switches					
6	Accessories, connectors, joints and bends etc.					
7	Earthing cost as per specification					
8	Any other passive components which are required to be added by the bidder					
Total Cost of the Passive components						

Note: Total Cost of the Passive Components to be detailed out in the format prescribed in the table above and the total Lumpsum cost should be same as mentioned by the bidder for Schedule A Sl. No. 6 and Schedule B Sl. No. 5 (i.e. two separate tables with the price breakup needs to be submitted by the bidder for Schedule A Sl. No. 6 and Schedule B Sl. No. 5). Quantity to be mentioned by the bidder based on their assumption with the unit rates so that in future if any item is required to be purchased separately, the cost of the components will be calculated based on the discovered price.

#### 15. Annexure 3 A– List of Locations (Police Station)

The quantity of cameras mentioned in the below list are for estimation (In existing 959 location no of camera may enhance from 10 camera to 13 camera and from 15 camera to 19.) Actual quantity may vary after site survey by the bidder which will reflect in final work order issued to the successful bidder.

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
1	Patna	Agamkuan	1	14	15
2		Akilpur	1	14	15
3		Alamganj	1	14	15
4		Athmalgola	1	14	15
5		Bahadurpur	1	14	15
6		Bakhtiarapur	1	14	15
7		Barh	1	9	10
8		Belhi	1	9	10
9		Boshwari	1	9	10
10		Beur	1	9	10
11		Bhadaur	1	9	10
12		Bhagwanganj	1	14	15
13		Bihta	1	9	10
14		Bikram	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
15		Buddha Colony	1	14	15
16		City Chowk	1	14	15
17		Emamganj	1	14	15
18		Danapur	1	14	15
19		Didarganj	1	14	15
20		Daniyawar	1	14	15
21		Digha	1	14	15
22		Dulhin Bazaar	1	9	10
23		Fatuha	1	9	10
24		Gandhi Maidan	1	14	15
25		Gardanibagh	1	14	15
26		Gaurichak	1	14	15
27		Gopalpur	1	14	15
28		Hathidah	1	14	15
29		Hawai Adda	1	14	15
30		Jakkanpur	1	14	15
31		Janipur	1	14	15
32		Kadamkuan	1	9	10
33		Kadirganj	1	9	10
34		Kankarbagh	1	9	10
35		Khagaul	1	9	10
36		Khajekalan	1	9	10
37		Khiri More	1	9	10
38		Khusrupur	1	9	10
39		Kotwali	1	14	15
40		Mahila	1	9	10
41		Malsalami	1	9	10
42		Maner	1	9	10
43		Maranchi	1	9	10
44		Musllaharpur	1	14	15
45		Masaurhi	1	9	10
46		Mehandiganj	1	9	10
47		Mokamah	1	9	10
48		Neura	1	9	10
49		Naubatpur	1	9	10
50		NTPC	1	14	15
51		Patna Nadi Thana	1	14	15
52		Pancharukhiya	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
53		Pachmahla	1	9	10
54		Paliganj	1	9	10
55		Pandarak	1	9	10
56		Parsa Bazaar	1	14	15
57		Patliputra	1	14	15
58		Patrakar Nagar	1	14	15
59		Phulwarisharif	1	14	15
60		Pipra	1	9	10
61		Pirbahore	1	9	10
62		Pitwas	1	14	15
63		Piyarpur	1	9	10
64		Punpun	1	14	15
65		Rajeev Nagar	1	14	15
66		Ramkrishna Nagar	1	14	15
67		Rania Talab	1	9	10
68		Rupaspur	1	9	10
69		Sachiwalaya	1	14	15
70		Saksohra	1	9	10
71		Salimpur	1	9	10
72		SC/ST	1	14	15
73		Shahjahanpur	1	14	15
74		Shahpur	1	9	10
75		Shashtri Nagar	1	9	10
76		Sigaurhi	1	9	10
77		Sri Krishna Puri	1	9	10
78		Sultanganj	1	9	10
79		Sagunamore Yatayat	1	14	15
80		Thanrua	1	14	15
81		Yatayat/Traffic	1	14	15
82		Bye Pass	1	14	15
83		Byepass Yatayat Thana	1	14	15
84	Nalanda	Asthawan	1	14	15
85		Aungari	1	9	10
86		Ben	1	9	10
87		Baina	1	9	10
88		Biharsharif	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
89		Bind	1	14	15
90		Chandi	1	14	15
91		Chiksora	1	14	15
92		Deep Nagar	1	14	15
93		Ekangar Sarai	1	9	10
94		Gokulpur	1	9	10
95		Giriyak	1	9	10
96		Harnaut	1	9	10
97		Hilsa	1	14	15
98		Islampur	1	14	15
99		Karai Parsurai	1	9	10
100		Khodaganj	1	9	10
101		Lehri Mulha	1	9	10
102		Mahila	1	14	15
103		Manpur	1	14	15
104		Nagar Nausa	1	9	10
105		Nalanda	1	14	15
106		Noor Sarai	1	14	15
107		Parwalpur	1	14	15
108		Rahui	1	14	15
109		Rajgin Mu	1	9	10
110		Sare	1	9	10
111		Sarmera	1	14	15
112		SC/ST	1	14	15
113		Silao	1	14	15
114		Soh Sarai	1	9	10
115		Telgar	1	9	10
116		Telhara	1	9	10
117		Chhabilapur (M)	1	9	10
118		Katrisarai	1	9	10
119		Yatayat	1	9	10
120		Tharthari	1	9	10
121	Gaya	Aamas	1	14	15
122		Alipur	1	9	10
123		Anti	1	9	10
124		Atri	1	9	10
125		Bodhi Thana	1	14	15
126		Barachatti	1	9	10
127		Belaganj	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
128		Bodhgaya	1	14	15
129		Buniyadganj	1	9	10
130		Chakarbandh	1	9	10
131		Chandauti	1	9	10
132		Chankand	1	9	10
133		Cherki	1	9	10
134		Civil Lines	1	14	15
135		Dhangahi	1	9	10
136		Dumariya	1	9	10
137		Fatehpur	1	14	15
138		Gaya Nagar	1	14	15
139		Gaya Mufassil	1	14	15
140		Guraru	1	9	10
141		Gurua	1	9	10
142		Lutua	1	9	10
143		Illha/Delha	1	9	10
144		Imamganj	1	9	10
145		Khizra Sarai	1	14	15
146		Koch	1	9	10
147		Kothi	1	9	10
148		Magadh Medical	1	14	15
149		Magadh University	1	14	15
150		Mahila	1	14	15
151		Mengaon	1	9	10
152		Mohanpur	1	9	10
153		Mahakar Thana	1	9	10
154		Maigra	1	9	10
155		Neemchack Bathani	1	14	15
156		Paraiya	1	9	10
157		Rampur	1	9	10
158		Roushanganj	1	9	10
159		Sohel	1	9	10
160		SC/ST	1	14	15
161		Sherghati	1	14	15
162		Tankupa thana	1	14	15
163		Tekari	1	14	15
164		Wazirganj	1	14	15



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
165		Bhadwar	1	9	10
166		Bodhgaya Yatayat	1	9	10
167		Vishnupad Mandir	1	9	10
168		Dobhi	1	9	10
169		Banke Bazar	1	9	10
170		Yatayat Thana	1	9	10
171	Aurangabad	Aurangabad	1	14	15
172		Aurangabad Mufassil	1	14	15
173		Ajan	1	9	10
174		Amba	1	9	10
175		Barun	1	9	10
176		Bandeya Thana	1	14	15
177		Daud Nagar	1	9	10
178		Devriya	1	9	10
179		Dev Kund	1	14	15
180		Dev	1	14	15
181		Dhibra	1	9	10
182		Fesar	1	9	10
183		Goh	1	9	10
184		Haspura	1	9	10
185		Jamhaur	1	9	10
186		Kalen	1	9	10
187		Kasma	1	9	10
188		Kachanpur	1	9	10
189		Khudwan	1	9	10
190		Kutumba	1	9	10
191		Madanpur	1	14	15
192		Mahila	1	14	15
193		Mali	1	14	15
194		NTPC Kaira	1	14	15
195		Nabi Nagar	1	14	15
196		Obra	1	9	10
197		Pauthu	1	9	10
198		Rafiganj	1	14	15
199		Rishiyap	1	14	15
200		Salaiya	1	14	15
201		SC/ST	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
202	Jahanabad	Simra	1	9	10
203		Tanrwa	1	9	10
204		Khaira	1	9	10
205		Uphara	1	9	10
206		Okri	1	9	10
207		Jhunati	1	9	10
208		Ghosi	1	14	15
209		Hulasganj	1	14	15
210		Jehanabad	1	14	15
211		Kako	1	9	10
212		Mahila	1	14	15
213		Makhdumpur	1	14	15
214		Pali	1	9	10
215		Paras Bigha	1	9	10
216		SC/ST	1	14	15
217		Shakurabad	1	9	10
218		Barabar Pryatan Thana	1	9	10
219	Arwal	Arwal	1	14	15
220		Kaler	1	9	10
221		Karpi	1	9	10
222		Kinjar	1	9	10
223		Kurtha	1	14	15
224		Mahila	1	14	15
225		Mehandia	1	14	15
226		Parasi	1	9	10
227		Rampur Choram	1	9	10
228		SC/ST	1	14	15
229	Nawada	Bangshi	1	9	10
230		Nawada	1	14	15
231		Nawada Muffasil	1	14	15
232		Dhamool	1	9	10
233		Akbarpur	1	9	10
234		Govindpur	1	9	10
235		Goh	1	9	10
236		Hisua	1	14	15
237		Kashichak	1	9	10
238		Kauakol	1	14	15
239		Meskaaur	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
240		Nardiganj	1	9	10
241		Nemdarganjh	1	9	10
242		Narhat	1	9	10
243		Parnathabar	1	9	10
244		Pakribarawan	1	14	15
245		Rupo	1	9	10
246		Rajauli	1	9	10
247		Mahila	1	14	15
248		SC/ST	1	14	15
249		Sirdalla	1	9	10
250		Sitamarhi	1	14	15
251		Thanli	1	9	10
252		Waris Aliganj	1	14	15
253	Rohtas	Akorhigola	1	14	15
254		Amar Kotha	1	9	10
255		Agrer	1	9	10
256		Vishrampur	1	9	10
257		Badhari	1	9	10
258		Baghela	1	14	15
259		Bikramganj	1	14	15
260		Chenari	1	9	10
261		Chutia	1	9	10
262		Darihat	1	14	15
263		Darigaon	1	14	15
264		Dawat	1	9	10
265		Dehri Mu	1	9	10
266		Dehri	1	14	15
267		Dinara	1	9	10
268		Kamou	1	9	10
269		Kacchawan	1	9	10
270		Karagar	1	9	10
271		Karakat	1	9	10
272		Kochas	1	9	10
273		Nokha	1	14	15
274		Mahila	1	14	15
275		Nasriganj	1	14	15
276		Natwar Bazaar	1	14	15
277		Nauhatta	1	9	10
278		Rajpur	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
279		Rohtas	1	14	15
280		Sanjhauli	1	9	10
281		Sasaram	1	14	15
282		Sasaram Town Model	1	14	15
283		SC/ST	1	14	15
284		Shivsagar	1	14	15
285		Suryapur	1	9	10
286		Tilauthu	1	9	10
287		Sasaram Muffasil	1	14	15
288	Bhabua	Akhni	1	9	10
289		Achan	1	9	10
290		Adhaura	1	14	15
291		Bhabhua	1	14	15
292		Bhagwanpur	1	9	10
293		Bhagwanganj	1	9	10
294		Chainpur	1	14	15
295		Chaodhakha	1	9	10
296		Chodharla	1	9	10
297		Chand	1	14	15
298		Karar	1	14	15
299		Karamchatt	1	14	15
300		Kuchaula	1	9	10
301		Kudhni	1	9	10
302		Kudra	1	9	10
303		Mahila	1	14	15
304		Lohara	1	9	10
305		Ramgarh	1	9	10
306		SC/ST	1	14	15
307		Sonhan	1	9	10
308		Kuchhila	1	9	10
309		Mohaniya	1	9	10
310		Durgawati	1	9	10
311		Nuwaon	1	9	10
312		Belaw	1	9	10
313		Sarodagh	1	9	10
314	Bhojpur	Aara Nagar	1	14	15
315		Aara Nawada	1	14	15
316		Aara Mu	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
317		Agiaon Gadhani	1	14	15
318		Agiaon Bazaar	1	14	15
319		Aiyar	1	9	10
320		Azimabad	1	9	10
321		Barhara	1	9	10
322		Bihia	1	14	15
323		Chandi	1	9	10
324		Charpokhari	1	9	10
325		Chauri	1	9	10
326		Dhangai	1	9	10
327		Imadpur	1	9	10
328		Jagdishpur	1	14	15
329		Hassanbazar	1	9	10
330		Kishnagarh	1	9	10
331		Koilwar	1	14	15
332		Mahila	1	14	15
333		Narainpur	1	9	10
334		Pawana	1	9	10
335		Piro	1	14	15
336		Sandesh	1	9	10
337		SC/ST	1	14	15
338		Saharsa	1	9	10
339		Shahpur	1	9	10
340		Sikarhatta	1	9	10
341		Tarari	1	14	15
342		Tiyar	1	14	15
343		Udwant Nagar	1	14	15
344		Yatayat Thana	1	9	10
345	Buxar	Buxar	1	14	15
346		Bauxar Mo	1	9	10
347		Aodhogik	1	14	15
348		Nayinijor	1	9	10
349		Barhmpur-Bagelagoli	1	9	10
350		Brahmpur	1	14	15
351		Dumraon	1	14	15
352		Ganga Bridge	1	9	10
353		Jagadishpur	1	14	15
354		Itarhi	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

SI	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
355		Murrar	1	9	10
356		Mahila	1	14	15
357		Nawa Nagar	1	9	10
358		Rajpur	1	9	10
359		SC/ST	1	14	15
360		Sonbarsa	1	14	15
361		Saraya Koransath	1	9	10
362		Semari	1	9	10
363		Krishan Brahm	1	9	10
364		Sikraur	1	9	10
365	Sitamadhi	Bajpatti	1	14	15
366		Bathnaha	1	14	15
367		Bhutahi	1	9	10
368		Bela	1	9	10
369		Bergania	1	14	15
370		Bekhra	1	9	10
371		Belsand	1	14	15
372		Chouroth	1	9	10
373		Dumra	1	9	10
374		Kanhauli	1	9	10
375		Gara	1	9	10
376		Mahindhwar	1	9	10
377		Mahila	1	14	15
378		Majorganj	1	9	10
379		Nanpur	1	9	10
380		Parihar	1	9	10
381		Parsoni	1	9	10
382		Pupri	1	14	15
383		Punaoura	1	14	15
384		Riga	1	14	15
385		Rani Sodhpur	1	9	10
386		Sahiyara	1	9	10
387		SC/ST	1	14	15
388		Sitamarhi	1	9	10
389		Sonbarsa	1	9	10
390		Sursand	1	14	15
391		Suppie	1	9	10
392	Muzzafarpur	Ahiyapur	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
393		Aurai	1	9	10
394		Bela	1	14	15
395		Bela Audhogik	1	14	15
396		Baruraj	1	9	10
397		Bochaha	1	9	10
398		Brahmpura	1	14	15
399		Chakki Suhagpur	1	9	10
400		Deoria	1	9	10
401		Epaha	1	9	10
402		Garha	1	9	10
403		Gannipur	1	14	15
404		Gaighat	1	14	15
405		Jajoor	1	14	15
406		Hathauri	1	14	15
407		Kacchi Pakki	1	9	10
408		Kanti	1	9	10
409		Karza	1	9	10
410		Kathaiya	1	9	10
411		Katra	1	14	15
412		Kazi Mohammadpur	1	14	15
413		Kudhani	1	9	10
414		Medical college	1	9	10
415		Mahila	1	14	15
416		Maniyari	1	9	10
417		Minapur	1	14	15
418		Mithanpura	1	9	10
419		Motipur	1	14	15
420		Muzzafarpur Nagar	1	9	10
421		Mushahari	1	9	10
422		Panapur	1	9	10
423		Paru	1	14	15
424		Piyar	1	9	10
425		Muzzafarpur Sadar	1	9	10
426		Rampur Hari	1	9	10
427		Rajepur	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
428		Sahebganj	1	9	10
429		Saroya	1	14	15
430		Sakra	1	14	15
431		SC/ST	1	14	15
432		Siwaipatti	1	9	10
433		Tuki Khararu	1	14	15
434		Vishwa Vidyalaya	1	14	15
435		Yatayat Thana	1	9	10
436	Vaishali	Audhyogik	1	14	15
437		Baligaon	1	14	15
438		Bhagwanpur	1	9	10
439		Bidupur	1	9	10
440		Desari	1	14	15
441		Gorol	1	9	10
442		Ganga Bridge	1	9	10
443		Harilochanpur	1	9	10
444		Hajipur	1	14	15
445		Hajipur Sadar	1	14	15
446		Jandaha	1	14	15
447		Jurawanpur	1	9	10
448		Kazipur	1	9	10
449		Kartaha	1	9	10
450		Lalganj	1	9	10
451		Mahisaur	1	9	10
452		Mahila	1	14	15
453		Mahnar	1	14	15
454		Mahua	1	14	15
455		Panapur Langa	1	9	10
456		Piprahi	1	9	10
457		Patepur	1	9	10
458		Raghopur	1	9	10
459		Sarai	1	9	10
460		SC/ST	1	14	15
461		Tisiauta	1	9	10
462		Rajapakar	1	14	15
463		Vaishali	1	14	15
464	Bettiah	Bairiya	1	14	15
465		Balthar	1	14	15
466		Bhangaha	1	14	15



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
467		Chanpatia	1	9	10
468		Gaunaha	1	9	10
469		Gopalpur	1	9	10
470		Inarwa	1	9	10
471		Jogapatti	1	14	15
472		Kangli	1	9	10
473		Lauria	1	9	10
474		Mahila	1	14	15
475		Mainatand	1	14	15
476		Bhiknathori	1	9	10
477		Majhauria	1	9	10
478		Manpur	1	9	10
479		Matiauria	1	14	15
480		Bettia Mufassil	1	14	15
481		Nautan	1	9	10
482		Purushottampur	1	9	10
483		SC/ST	1	14	15
484		Shathi	1	9	10
485		Shikarpur	1	14	15
486		Shrinagar	1	9	10
487		Sikta	1	9	10
488		Sahodra	1	9	10
489		Beetia Nagar	1	14	15
490	Bagaha	Bagaha	1	14	15
491		Bathpariya	1	9	10
492		Balmiki Nagar	1	9	10
493		Chautarva	1	9	10
494		Dhanaha	1	14	15
495		Gobarahia	1	9	10
496		Gobardhana	1	9	10
497		Laukaria	1	14	15
498		Majuraha Mangatha	1	9	10
499		Mairoganjh	1	9	10
500		Mahila	1	14	15
501		Piprasi	1	9	10
502		Ram Nagar	1	14	15
503		Rampurwa	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
504		Riverine PS at Bagaha 1 Block/Nadi Thana	1	9	10
505		SC/ST	1	14	15
506		Semra	1	14	15
507		Bhitaha	1	9	10
508		Naurangiya	1	9	10
509		Thakraha	1	9	10
510	Saran	Chapra Nagar	1	14	15
511		Chapra Muffasil	1	14	15
512		Bhagawan Bazar	1	14	15
513		Mainjhe	1	9	10
514		Sonepur	1	9	10
515		Rasulpur	1	9	10
516		Bholdi	1	14	15
517		Maraoda	1	14	15
518		Diswara	1	9	10
519		Khaira	1	9	10
520		Amnoor	1	9	10
521		Dariyapoor	1	14	15
522		Isuapur	1	9	10
523		Janta Bazar	1	9	10
524		Rivilganjh	1	14	15
525		Garkha	1	9	10
526		Doriganjh	1	9	10
527		Panapur	1	14	15
528		Jalalpur	1	9	10
529		Parsa	1	9	10
530		Kopa	1	9	10
531		Ekma	1	9	10
532		Baniyapur	1	14	15
533		Sahajitpur	1	9	10
534		Derni Bazar	1	9	10
535		Taraiya	1	9	10
536		Daudpur	1	9	10
537		Naya Gaon	1	14	15
538		Makera	1	9	10
539		Masrakh	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
540	Siwan	Mahila	1	14	15
541		Aootar Nagar	1	9	10
542		Akilpur	1	9	10
543		Yatayat Thana	1	9	10
544		SC/ST	1	14	15
545		Aandar	1	14	15
546		Asawn	1	14	15
547		Barharia	1	9	10
548		Basantpur	1	9	10
549		Bhagwanpur Hat	1	9	10
550		Darauli	1	9	10
551		Daraunda	1	9	10
552		Gautam Buddha Nagar	1	14	15
553		Goriakothi	1	9	10
554		Guthani	1	9	10
555		Husainganj	1	9	10
556		Jamo Bazaar	1	9	10
557		Jeeradei	1	9	10
558		Maharajganj	1	14	15
559		Mairwa	1	14	15
560		Mahila	1	14	15
561		Mufassil	1	14	15
562		Nautan	1	9	10
563		Panchrukhi	1	9	10
564		Raghunathpur	1	9	10
565		SC/ST	1	14	15
566		Siswan	1	14	15
567		Siwan Nagar	1	14	15
568	Gopalganj	Baikunthpur	1	14	15
569		Achhagaon	1	14	15
570		Barauli	1	9	10
571		Bijayipur	1	9	10
572		Bhore	1	9	10
573		Bishambharpur	1	9	10
574		Gopalganj	1	14	15
575		Gopalpur	1	9	10
576		Jadipur	1	14	15
577		Kateya	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
578		Kuchaikot	1	14	15
579		Mahila	1	14	15
580		Manjhagarh	1	9	10
581		Mirganj	1	14	15
582		Mohammadpur	1	9	10
583		Phulwaria	1	14	15
584		SC/ST	1	14	15
585		Sidhwalia	1	9	10
586		Taranhawa	1	9	10
587		Hathua	1	14	15
588		Thawe	1	9	10
589	Motihari	Aadapur	1	14	15
590		Chakia	1	14	15
591		Choradano	1	9	10
592		Chatauni	1	9	10
593		Chhodasaham	1	9	10
594		Chiraiya	1	9	10
595		Darpa	1	14	15
596		Dhaka	1	14	15
597		Dumaria Ghat	1	14	15
598		Garhiya Bazar	1	9	10
599		Govindganj	1	9	10
600		Harsiddhi	1	9	10
601		Irokhar	1	9	10
602		Jamuniya Jetawa	1	14	15
603		Katkenwha Rupar	1	14	15
604		Khajuriya	1	9	10
605		Kalyanpur	1	9	10
606		Kesaria	1	9	10
607		Kotwa	1	9	10
608		Kundwa	1	9	10
609		Madhuban	1	9	10
610		Mahila	1	14	15
611		Mahuawa	1	14	15
612		Malahi	1	14	15
613		Mehsi	1	9	10
614		Motihari Mufassil	1	9	10
615		Nakardei	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
616		Narayanpur Chowk	1	14	15
617		Paharpur	1	14	15
618		Pakridayal	1	9	10
619		Palanwa	1	9	10
620		Patahi	1	9	10
621		Penhara	1	9	10
622		Pipra	1	14	15
623		Pipra Kothi	1	14	15
624		Rajepur	1	9	10
625		Ramgarhwa	1	9	10
626		Raxaul	1	14	15
627		Sangrampur	1	14	15
628		SC/ST	1	14	15
629		Shikarganj	1	9	10
630		Sugauli	1	9	10
631		Motihari Nagar	1	14	15
632		Turkaulia	1	9	10
633	Darbhanga	Ashok Paper Mills	1	14	15
634		Bahadurpur	1	14	15
635		Bahera	1	14	15
636		Baheri	1	9	10
637		Biraul	1	9	10
638		Bishunpur Chowk	1	14	15
639		Darbhangha	1	9	10
640		Ghanshyampur	1	9	10
641		Hayaghat	1	9	10
642		Jamalpur	1	9	10
643		Kamtaul	1	14	15
644		Kewati	1	14	15
645		Kusheshwar Sthan	1	9	10
646		Laheria Sarai	1	9	10
647		LNBB	1	9	10
648		Mahila	1	14	15
649		Mangahi	1	9	10
650		Moro	1	9	10
651		Raiyam	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
652		Riverine PS at Ujua	1	9	10
653		Darbhangha Sadar	1	14	15
654		SC/ST	1	14	15
655		Sankarpur	1	9	10
656		Sundarpur	1	9	10
657		Simri Bazaar	1	9	10
658		Ali Nagar	1	9	10
659		Jale	1	9	10
660		Yatayat Thana	1	9	10
661		Singhwara	1	9	10
662	Samastipur	Angharghat	1	14	15
663		Ajiarpur	1	9	10
664		Bibhutipur	1	9	10
665		Bithan Bazar	1	9	10
666		Dalsingh Sarai	1	14	15
667		Ghato	1	14	15
668		Hasanpur	1	14	15
669		Hathauri	1	9	10
670		Kalyanpur	1	9	10
671		Kusheshar Sthan	1	9	10
672		Khanpur	1	9	10
673		Mansi	1	14	15
674		Mahila	1	14	15
675		Mohiuddin nagar	1	9	10
676		Samastipur Mufassil	1	9	10
677		Mubazar	1	9	10
678		Musrigharari	1	9	10
679		Pusa	1	14	15
680		Rosra	1	14	15
681		Samastipur	1	9	10
682		Sarai Ranjan	1	9	10
683		SC/ST	1	14	15
684		Shahpur Patori	1	14	15
685		Singhia	1	9	10
686		Thathi	1	9	10
687		Tajpur	1	9	10
688		Waris Nagar	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
689		Chakmahesi	1	9	10
690		Bangra	1	9	10
691		Vidyapati Nagar	1	9	10
692		Tajpur High National	1	14	15
693	Saharsa	Bangaon	1	9	10
694		Basanahi	1	9	10
695		Bihta	1	14	15
696		Jahalie	1	9	10
697		Mahila	1	14	15
698		Mahishi	1	9	10
699		Nauhatta	1	9	10
700		Saharsa	1	9	10
701		Sigri Bahit	1	9	10
702		Salakhua	1	9	10
703		Saur Bazaar	1	14	15
704		SC/ST	1	14	15
705		Sonbarsa Kachahari	1	14	15
706		Sonbarsa	1	14	15
707	Sapaul	Bhaptai Sarai	1	14	15
708		Bhimpur	1	14	15
709		Balua Bazar	1	9	10
710		Birpur	1	14	15
711		Chhatapur	1	9	10
712		Jadia	1	9	10
713		Karjain	1	9	10
714		Kishunpur	1	9	10
715		Kunauli	1	9	10
716		Mahila	1	14	15
717		Marauna	1	9	10
718		Nirmali	1	14	15
719		Pipra	1	9	10
720		Pratapganj	1	9	10
721		Raghopur	1	9	10
722		Ratanpura	1	9	10
723		Riverine PS at Mauja Barhara	1	9	10
724		SC/ST	1	14	15
725		Supaul	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
726	Purnea	Triveniganj	1	14	15
727		Amaur	1	14	15
728		Angath	1	9	10
729		Baisi	1	14	15
730		Banmankhi	1	14	15
731		Barhara Kothi	1	9	10
732		Bhawanipur	1	9	10
733		Dagrua	1	9	10
734		Dhamdaha	1	14	15
735		Jalilgarh	1	9	10
736		Janki Nagar	1	14	15
737		Khajahi Hat	1	9	10
738		Kasba	1	9	10
739		Krityanand Nagar	1	9	10
740		Mahila	1	9	10
741		Mirganj	1	14	15
742		Rupauli	1	14	15
743		Sadar	1	9	10
744		Sarsi	1	9	10
745		SC/ST	1	14	15
746		Thakur	1	9	10
747		Rauta	1	9	10
748		Yatayat Thana	1	9	10
749		Tikapatti	1	9	10
750	Arariya	Araria	1	14	15
751		Bausi	1	14	15
752		Bhargawan	1	9	10
753		Bardaha	1	9	10
754		Forbesganj	1	14	15
755		Fulkaha	1	9	10
756		Jogbani	1	9	10
757		Jokihat	1	9	10
758		Kursakanta	1	9	10
759		Mahila	1	14	15
760		Narpatganj	1	14	15
761		Raniganj	1	14	15
762		SC/ST	1	14	15
763		Sikti	1	9	10
764		Tarabri	1	9	10



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
765	Kishanganj	Thurna	1	9	10
766		Soonamani Godam	1	9	10
767		Paliganjh	1	14	15
768		Bahadurganj	1	14	15
769		Bibiganjh	1	9	10
770		Dighalbank	1	9	10
771		Kishanganj	1	14	15
772		Korabari	1	14	15
773		Kurlikoth	1	14	15
774		Kochadhaman	1	9	10
775		Garwandaga	1	9	10
776		Galmaliya	1	9	10
777		Fathepur	1	9	10
778		Jiyapokhani	1	9	10
779		Mahila	1	14	15
780		Patamari	1	9	10
781		Paharkata	1	9	10
782		Poarwali/Poakhali	1	14	15
783		Pothia	1	9	10
784		SC/ST	1	14	15
785		Sukhani	1	9	10
786		Tedagachh	1	9	10
787		Deyal bagh	1	9	10
788		Thakurganj	1	14	15
789	Katihar	Abadpur	1	9	10
790		Alamnagar	1	9	10
791		Amadabad	1	9	10
792		Balrampur	1	9	10
793		Baliya Balon	1	9	10
794		Barari	1	14	15
795		Barsoi	1	14	15
796		Dandkhora	1	9	10
797		Falka	1	9	10
798		Kadwa	1	9	10
799		Korha	1	14	15
800		Kursaila	1	9	10
801		Mahila	1	14	15
802		Manihari	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
803		Mansahi	1	9	10
804		Katihar Mufassil	1	9	10
805		Katihar	1	9	10
806		Pranpur	1	9	10
807		Rootara	1	9	10
808		SC/ST	1	14	15
809		Yatayat Thana	1	9	10
810		Hassanganj	1	9	10
811		Andhrananari	1	14	15
812		Andhramath	1	14	15
813	Madhubani	Arere	1	14	15
814		Babubarhi	1	9	10
815		Basopatti	1	9	10
816		Benipatti	1	14	15
817		Bheja	1	9	10
818		Biski	1	9	10
819		Deodha	1	9	10
820		Ghoghardiha	1	9	10
821		Harlakhi	1	9	10
822		Jai Nagar	1	14	15
823		Jhanjharpur	1	14	15
824		Kaluahi	1	9	10
825		Khajauli	1	14	15
826		Khirhar	1	9	10
827		Khutauna	1	9	10
828		Ladliya	1	14	15
829		Laukaha	1	14	15
830		Laukahi	1	14	15
831		Madhubani	1	9	10
832		Bhairawsthan	1	9	10
833		Madhawpur	1	9	10
834		Madhepur	1	9	10
835		Mahila	1	14	15
836		Pandaul	1	9	10
837		Phulparas	1	14	15
838		Rahika	1	9	10
839		Rajnagar	1	9	10
840		Rudrapur	1	9	10
841		Saharghat	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
842	Bhagalpur	Sakri	1	9	10
843		SC/ST	1	14	15
844		Anti chak	1	14	15
845		Akbarnagar	1	14	15
846		Bath	1	14	15
847		Barari	1	9	10
848		Buddhu chak	1	14	15
849		Ekchari	1	9	10
850		Habibpur	1	9	10
851		Isakchak	1	9	10
852		Sabaor Audhogik/Industrial	1	14	15
853		Ishipur	1	9	10
854		Jagdishpur	1	9	10
855		Kahalgaon	1	14	15
856		Kajraili	1	9	10
857		Kotwali	1	9	10
858		Lodipur	1	9	10
859		Mahila	1	14	15
860		Mojahidpur	1	14	15
861		Nathnagar	1	14	15
862		NTPC	1	14	15
863		Pirpainti	1	9	10
864		Sabour	1	9	10
865		Sanhaula	1	9	10
866		Sanokhar	1	14	15
867		SC/ST	1	14	15
868		Shahkund	1	9	10
869		Sultanganj	1	9	10
870		Traffic/Yatayat Thana	1	9	10
871		Tatarpur	1	9	10
872	Banka	Amarpur	1	9	10
873		Banka	1	14	15
874		Belhar	1	9	10
875		Chandan	1	9	10
876		Dhuraiya	1	9	10
877		Katoria	1	14	15
878		Mahila	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
879		Rajaun	1	9	10
880		SC/ST	1	14	15
881		Shambhuganj	1	9	10
882		Barahat	1	9	10
883		Phooldumar	1	9	10
884		Boosi	1	14	15
885		Panjwara	1	9	10
886		Bandhua Kudawali	1	9	10
887		Jaipur	1	9	10
888		Mahiila Thana (2 Most probably two thana as per the doc)	1	14	15
889		Suraiya	1	14	15
890		Khora	1	14	15
891		Dhamkund	1	9	10
892		Jalebiyamore	1	9	10
893		Nawada Bazar	1	9	10
894		Jamdaha	1	9	10
895	Nawagachhia	Bihpur	1	14	15
896		Dholbajja	1	14	15
897		Gopalpur	1	9	10
898		Ismailpur	1	9	10
899		Kharik	1	9	10
900		Mahila	1	14	15
901		Naugachhia	1	14	15
902		Parbatta Jagatpur	1	9	10
903		Riverine PS at Chorhar Ghat/Nadi Thana	1	9	10
904		SC/ST	1	14	15
905		Sonbarsa Nadi	1	9	10
906		Sonbarsa	1	9	10
907	Munger	Asarganj	1	14	15
908		Bariarpur	1	14	15
909		East Colony	1	14	15
910		Harpur	1	9	10
911		Kasim Bazaar	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
912		Kharagpur	1	14	15
913		Jamalpur	1	14	15
914		Mahila	1	14	15
915		Munger Mufassil	1	9	10
916		Naya Ramnagar	1	9	10
917		Sangrampur	1	9	10
918		SC/ST	1	14	15
919		Tarapur	1	9	10
920		Munger Nagar	1	9	10
921		Tharhara	1	9	10
922		Gangta	1	9	10
923		Ladaiyatai	1	9	10
924		Yatayat Thana	1	9	10
925		Harinmar	1	9	10
926	Jamui	Barhat	1	14	15
927		Chakai	1	9	10
928		Chandra Mandi	1	9	10
929		Chandradip	1	9	10
930		Jamui	1	14	15
931		Jhajha	1	14	15
932		Khaira	1	9	10
933		Lakshmipur	1	9	10
934		Mahila	1	14	15
935		Malaypur	1	9	10
936		SC/ST	1	14	15
937		Sikandara	1	14	15
938		Simaltulla	1	14	15
939		Sono	1	9	10
940		Cehira	1	9	10
941		Duar Pahari	1	9	10
942		BeechKokha/Beechkora	1	9	10
943		Digadhi	1	9	10
944		Lachuar	1	9	10
945		Betiya	1	14	15
946		Garhi	1	14	15
947		Mohanpur	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
948	Lakhisarai	Bamdah	1	9	10
949		Birupur	1	14	15
950		Chanan	1	14	15
951		Halsi	1	9	10
952		Kajra	1	9	10
953		Lakhisarai	1	14	15
954		Madni Chowki	1	9	10
955		Mahila	1	14	15
956		Pipariya	1	14	15
957		Piri Bazaar	1	9	10
958		SC/ST	1	14	15
959		Suryagarha	1	14	15
960		Badiya	1	9	10
961		Luthauth	1	9	10
962		Bannu Bagicha	1	9	10
963		Tetrahat	1	9	10
964		Kiul	1	9	10
965		Singh Chowk	1	9	10
966		Basaini	1	9	10
967	Sheikhpura	Ariari	1	14	15
968		Barbigaha	1	14	15
969		Chebara	1	9	10
970		Jayrampur Morh	1	14	15
971		Karande	1	9	10
972		Korma	1	9	10
973		Mahila	1	14	15
974		SC/ST	1	14	15
975		Sheikhopur Sarai	1	9	10
976		Sheikhpura	1	9	10
977	Khagaria	BauGhat	1	9	10
978		Naihal	1	9	10
979		Alauli	1	14	15
980		Beldaur	1	14	15
981		Bahadurpur	1	9	10
982		Chautham	1	9	10
983		Gogri	1	14	15
984		Gaigaour	1	9	10
985		Khagaria	1	14	15

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

SI	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
986		Maheshkhut	1	9	10
987		Mahila	1	14	15
988		Mansi	1	14	15
989		Morkahi	1	9	10
990		Parbatta	1	9	10
991		Piparpani	1	9	10
992		Pasraha	1	9	10
993		SC/ST	1	14	15
994		Amauri	1	9	10
995		Madeya	1	9	10
996	Begusarai	Begusarai	1	14	15
997		Bachhwara	1	9	10
998		Bakhri	1	14	15
999		Balia	1	14	15
1000		Barauni	1	9	10
1001		Bhagwanpur	1	9	10
1002		Birpur	1	9	10
1003		Cheria Bariarpur	1	14	15
1004		Dandari	1	14	15
1005		Garhpura	1	9	10
1006		Khodawanpur	1	9	10
1007		Mahila	1	14	15
1008		Mansoor chak	1	9	10
1009		Matihani	1	9	10
1010		Begusarrai Mufassil	1	9	10
1011		Nayagaon	1	14	15
1012		Nimachanpura	1	14	15
1013		Nowkothe	1	9	10
1014		Phulwaria	1	9	10
1015		Sahebpur Kamal	1	9	10
1016		Samho	1	9	10
1017		SC/ST	1	14	15
1018		Teghra	1	14	15
1019		Yatayat Thana	1	9	10
1020		Singhaul	1	9	10
1021		Manjhaul	1	9	10
1022		Chhaurahi	1	9	10
1023		Nompur	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
1024	Rail Patna Jn	Arrah GRPS	1	9	10
1025		Bakhtiarpur GRPS	1	14	15
1026		Biharsharif GRPS	1	9	10
1027		Buxar GRPS	1	14	15
1028		Danapur GRPS	1	9	10
1029		Gaya GRPS	1	14	15
1030		Jehanabad GRPS	1	9	10
1031		Mokamah GRPS	1	9	10
1032		Patna Junction GRPS	1	14	15
1033		Sasaram GRPS	1	14	15
1034		Patliputra	1	9	10
1035		Son Nagar GRPS	1	9	10
1036	Rail Muzaffarpur	Chhapra GRPS	1	14	15
1037		Darbhangra GRPS	1	9	10
1038		Motihari GRPS	1	9	10
1039		Muzaffarpur GRPS	1	14	15
1040		Narkatiyaganj GRPS	1	14	15
1041		Raxaul GRPS	1	9	10
1042		Siwan GRPS	1	9	10
1043		Sonepur GRPS	1	14	15
1044		Sugauli GRPS	1	9	10
1045		Sitamarhi GRPS	1	9	10
1046		Jai Nagar GRPS	1	9	10
1047		Hajipur GRPS	1	9	10
1048		Samastipur	1	9	10
1049	Rail Katihar	Barauni GRPS	1	14	15
1050		Begusarai GRPS	1	9	10
1051		Bihpur GRPS	1	9	10
1052		Katihar GRPS	1	14	15
1053		Khagaria GRPS	1	14	15
1054		Kishanganj	1	14	15
1055		Mansi GRPS	1	9	10



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

SI	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
1056		Naugachhia GRPS	1	14	15
1057		Saharsa GRPS	1	14	15
1058		Bachwara	1	9	10
1059		Purnia Junction	1	9	10
1060		Barsoi	1	9	10
1061		Jogbani	1	9	10
1062		Pratapjang	1	9	10
1063	Rail Jamalpur	Bhagalpur GRPS	1	14	15
1064		Jamalpur GRPS	1	14	15
1065		Jhajha GRPS	1	14	15
1066		Kiul GRPS	1	14	15
1067		Chandan GRPS	1	9	10
1068		Cyber Aparad Thana	1	9	10
1069		Nigrani Thana	1	9	10
1070	Others	Bidhuth Thana	1	9	10
1071		Aarthik Aparath Thana	1	9	10
1072	Madhepura	Madhepura	1	14	15
1073		kumarkhand	1	14	15
1074		Gummhariya	1	14	15
1075		Chheland	1	9	10
1076		Chisa	1	9	10
1077		Sidheswar	1	9	10
1078		Khudakishanganj	1	9	10
1079		Bihariganj	1	9	10
1080		Shankarpur	1	9	10
1081		Pureyni	1	14	15
1082		Muraliganj	1	14	15
1083		Alamnagar	1	9	10
1084		Ratwara	1	9	10
1085		Shrinagarhat	1	9	10
1086		Gwalpada	1	9	10
1087		SC-ST Police station	1	14	15

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
1088	Sheohar	Mahila Thana	1	14	15
1089		Sheohar	1	9	10
1090		Brindawan	1	14	15
1091		Tariyani	1	9	10
1092		Shyampur Matha	1	14	15
1093		Raja Pakad	1	9	10
1094		SC-ST Police station	1	14	15
1095		Tariyani Chhapra	1	9	10
1096		Diramma	1	9	10
1097		Fatehpur	1	9	10
1098		Puranhiya	1	9	10
1099		Piprahi	1	9	10
1100		Mahila Thana	1	14	15
Total Camera			1100	12120	13220

## 16. Annexure 3 B – List of Locations (Out Post)

The quantity of cameras mentioned in the below list are for estimation. Actual quantity may vary after site survey by the bidder which will refelect in final work order issued to the successful bidder.

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
1	Patna	Lahsuna	1	9	10
2		Kamaiya	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
3		City Siritagadh	1	9	10
4		Chitragupta Nagar	1	9	10
5		Mainpur	1	9	10
6		Samayagadh	1	9	10
7		gandhi setu	1	9	10
8		harding park	1	9	10
9		piparagram	1	9	10
10		saritabad	1	9	10
11		gandhighat	1	9	10
12	Nalanda	Sapahi	1	9	10
13		Sudhi	1	9	10
14		Shaahpur	1	9	10
15		Kalyan Vigaha	1	9	10
16		Bhganbigaha	1	9	10
17		Chero	1	9	10
18		Pawapuri	1	9	10
19	Buxur	Ramdas rai ke Dera	1	9	10
20		Kala Math	1	9	10
21		Tilak Ram Ke hata	1	9	10
22		naya Bhojpur	1	9	10
23		Chakki	1	9	10
24		Vasudev	1	9	10
25	Bhojpur	Dhovahan	1	9	10
26		Sinha	1	9	10
27		Gangarajganj	1	9	10
28		khvaspur	1	9	10
29		Bahoranpur	1	9	10
30		Karanamepur	1	9	10
31	Rohtas	Dalmiyan nagar	1	9	10
32		Amjhora	1	9	10
33		Indrapuri	1	9	10
34		Yadunathpur	1	9	10
35		Baddi	1	9	10
36		Bhanas	1	9	10
37		Parasathuvaan	1	9	10
38		Barhari	1	9	10
39		Dharpura	1	9	10
40	Bhabhua (kaimur)	Satovan (Adhaura)	1	9	10
41		Kiktagadh ( karakatagadh)	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
42	Gaya	payibigha	1	9	10
43		Gurua	1	9	10
44		Sarabadaha	1	9	10
45		gahalaur	1	9	10
46		pura	1	9	10
47		Mau	1	9	10
48		panchaanpur	1	9	10
49	Aurangabad	Badem	1	9	10
50	Nawada	Bundelkhandh	1	9	10
51		Dhamaul	1	9	10
52		Rupau	1	9	10
53		Shahpur	1	9	10
54		Meskaur	1	9	10
55		Sitamadhi	1	9	10
56	Jehanabad	kadauna	1	9	10
57		kalpa	1	9	10
58		Tehata	1	9	10
59		Vishunganj	1	9	10
60	Arwal	manikpua	1	9	10
61		Shaharatelapa	1	9	10
62	Muzaffarpur	Hatha	1	9	10
63		Benibad	1	9	10
64		Panapur	1	9	10
65	Vaishal	Rustamapur	1	9	10
66		Belsar	1	9	10
67		Katahara	1	9	10
68		Barati	1	9	10
69		Sahadeyi	1	9	10
70		Chandpura	1	9	10
72	Sitamadhi	Bhittu	1	9	10
73		Mehsaul	1	9	10
74	Bettiha	Sirisiya	1	9	10
75		Nawalpur	1	9	10
76		Shanichari	1	9	10
77		Jagdishpur	1	9	10
78		Kumar bagh	1	9	10
79		Kaalibagh	1	9	10
80		manuapul	1	9	10
81		Bhanuchhapara	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
82	Bagaha	Patakhauri	1	9	10
83		Chiutaha	1	9	10
84	Motihari	Malahi	1	9	10
85		Harauya	1	9	10
86		Raghunathpur	1	9	10
87		Lakhaura Sahayak	1	9	10
88		banjriya Sahayak	1	9	10
89		Bhopatpur	1	9	10
90		Pachapkadi	1	9	10
91		jay bajrang Chauk	1	9	10
92		Lakhaur	1	9	10
93		Areraj	1	9	10
94		Harpur	1	9	10
95	Saran	Pahaleja	1	9	10
96		Hariharnath	1	9	10
97		Nagar	1	9	10
98		gaura	1	9	10
99	Siwan	Mahadev	1	9	10
100		Saraay	1	9	10
101		Dhanauti	1	9	10
102		Chainpur	1	9	10
103		M H Nagar	1	9	10
104		Lakari Naviganj	1	9	10
105	Gopalganj	Sripur	1	9	10
106		Madhopur	1	9	10
107	Darbhanga	Beta	1	9	10
108		Mabbi	1	9	10
109		Sonki	1	9	10
110		Bhalpatti	1	9	10
111		Pataura	1	9	10
112		Fekala	1	9	10
113		Nehra	1	9	10
114		Badgaun	1	9	10
115		Bajitpur	1	9	10
116		Kotawali Chauk	1	9	10
117		Tilkeshwar	1	9	10
118	Madhubani	Patauna	1	9	10
119		Tisi Narsam	1	9	10
120		Umgaon	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
121		Jaynagar	1	9	10
122		Visanpur	1	9	10
123	Samastipur	Baini	1	9	10
124		mathurapur	1	9	10
125		Ghataho	1	9	10
126		Mohanpur	1	9	10
127		Halai	1	9	10
128		Shivaji	1	9	10
129		Larajha	1	9	10
130		Sakhmohan	1	9	10
131	Saharsa	Patarghat	1	9	10
132		Darabar	1	9	10
133		Kashnagar	1	9	10
134		Kanariya	1	9	10
135		Banma Itahari	1	9	10
136		Chidaiya police Shivar	1	9	10
137		Balavahaat	1	9	10
138		baidyanathpur	1	9	10
139		Pastapaar Police Shivar	1	9	10
140	Supaul	Laukaha	1	9	10
141		Rajeshwari	1	9	10
142		Bhimnagar	1	9	10
143		Lalit Gram	1	9	10
144		Dagmara	1	9	10
145	Madhepura	Parmanandpur	1	9	10
146		Belari	1	9	10
147		Dhaulagadh	1	9	10
148		Bharrahi	1	9	10
149		Fulauta	1	9	10
150		Arar	1	9	10
151		Bhatni	1	9	10
152		Ratvara	1	9	10
153	Purnia	Champanagar	1	9	10
154		Mohanpur	1	9	10
155		Akbarpur	1	9	10
156		Raghuvansh Nagar	1	9	10
157		Madhubani T	1	9	10
158		Moranga	1	9	10
159		Srinagar	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
160		Purnia muffasil	1	9	10
161		Khajanchi sahayak	1	9	10
162		Balia	1	9	10
163	Kishanganj	Vishanpur	1	9	10
164		Ararbari	1	9	10
165	Katihar	Roshaana	1	9	10
166		Potiya	1	9	10
167		Semapur	1	9	10
168		kanchana	1	9	10
169		Sudhani	1	9	10
170		Telata	1	9	10
171		Sahayak thana	1	9	10
172		Salmari	1	9	10
173	Araria	Sinraha	1	9	10
174		Bairgachhi	1	9	10
175		kuaari	1	9	10
176		Madanpur	1	9	10
177		Vathanha	1	9	10
178		Vasantiya	1	9	10
179		Mahal gaon	1	9	10
180		Barari	1	9	10
181		Areraj	1	9	10
182		R. S.	1	9	10
183	Bhagalpur	Jogsar	1	9	10
184		Madhusudanpur	1	9	10
185		Lalamatiya	1	9	10
186		Babarganj	1	9	10
187		Gauradiha	1	9	10
188		Vishwavidyalaya	1	9	10
189		Tilkamanjhi	1	9	10
190		Sajaur	1	9	10
191		Rasalpur	1	9	10
192		Shivnarayanpur	1	9	10
193		Amdanda	1	9	10
194		Bakharpur	1	9	10
195		Barahat	1	9	10
196		Dhodha	1	9	10
197	Banka	Aanandpur	1	9	10
198		Suiya	1	9	10

RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations  
in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
199		Sidhuna	1	9	10
200		Jilaviya Mor	1	9	10
201		Unara	1	9	10
202		Avrakha Mauripadhi	1	9	10
203		Chaandan	1	9	10
204		Khesar	1	9	10
205	Naugachhia	Bhawanipur	1	9	10
206		Kadawa	1	9	10
207		Jhadhapur	1	9	10
208		Rangara	1	9	10
209	Khagariya	Paudha	1	9	10
210		Bharatkhand	1	9	10
211		Sahayak Muffsil	1	9	10
212		Chitragupta Nagar	1	9	10
213	Munger	Tetia	1	9	10
214		Safia saray	1	9	10
215		Hemjapur	1	9	10
216		Basudevpur	1	9	10
217		Purav Sarai	1	9	10
218		Shaampur	1	9	10
219	Begusarai	Ratnapur	1	9	10
220		Gadhhara	1	9	10
221		Chakia	1	9	10
222		F. C. I.	1	9	10
223		Refinery	1	9	10
224		Zeromile	1	9	10
225		Lohia Nagar	1	9	10
226		Lakhon	1	9	10
227		Parihara	1	9	10
228		Tiyay	1	9	10
229	Sheikhpura	Lalbagh	1	9	10
230		Mission Chauraha	1	9	10
231		Korma	1	9	10
232		Lohan	1	9	10
233		Katari	1	9	10
234		Sheikhpura Mor	1	9	10
235		jayrampur	1	9	10
236		Barbiga Mor	1	9	10
237		Mehus	1	9	10



RFP for Selection of System Integrator for IP based CCTV Surveillance with Online/Solar UPS at Police Stations in Bihar \*

Sl	District	Police Station Name	Type wise Camera BOQ		
			PTZ	Fixed	Total Camera
238		Kasar	1	9	10
239		Kushumbha	1	9	10
240		Sirari	1	9	10
241	Lakhisarai	Kavaiya	1	9	10
242		Manikpur	1	9	10
243		Ramgadh	1	9	10
244	Jamui	Charkapathar	1	9	10
245		Gidhaur	1	9	10
246	Rail Patna	Rail Bihta	1	9	10
247		Rail Rajendra Nagar	1	9	10
248		Rail Rajgir	1	9	10
249		Rail Dehari	1	9	10
250		Rail Bhabhua	1	9	10
251		Rail Patna Shahib	1	9	10
252		Rail Hathidah	1	9	10
253		Rail Barh	1	9	10
254		Rail Fatuha	1	9	10
255		Rail Taregana	1	9	10
256	Rail Jamalpur	Rail Nawada	1	9	10
257	Rail Katihar	Rail Banmankhi	1	9	10
258		Rail Manhari	1	9	10
259		Rail Thakurganj	1	9	10
260		Rail Maheshkhunt	1	9	10
261	Rail Muzaffarpur	Rail Betiya	1	9	10
262		Rail Hasanpur	1	9	10
263		Rail Thawe	1	9	10
264		Rail Chapara Chahari	1	9	10
Total Camera			263	2367	2630