



**JHARKHAND TOURISM DEVELOPMENT CORPORATION LIMITED,
(GOVERNMENT OF JHARKHAND)**

**REQUEST FOR PROPOSAL (RFP)
FOR
SELECTION OF AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND
COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE
SYSTEM AT VARIOUS UNITS OF JTDC**

**Ref. No. :- 1031/2023
Ranchi/Dated:- 13/09/2023**



Jharkhand Tourism Development Corporation Limited
5, Mahatma Gandhi Marg, Ranchi, Jharkhand - 834001
Phone No: +(91)-651-2331828 & 2331643 Fax: +(91)-651-2331828
E-MAIL: jtdcltd@gmail.com
Visit us on www.tourism.jharkhand.gov.in

Tender Schedule



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TENDER NOTICE

Ref. No.:- 1031 /2023

Ranchi/Dated :- 13/09/2023

**SELECTION OF AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND
COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM
AT VARIOUS UNITS OF JTDCL**

The Jharkhand Tourism Development Corporation Limited (JTDCL) an undertaking of Government of Jharkhand intends to select agency for **Supply, Installation, Integration and Commissioning of IP based wireless CCTV cameras and surveillance system at various units of JTDCL**, therefore invites interested agencies to submit their Bids.

Interested agencies may download the RFP document from **13/09/2023** onwards from the Department of Tourism website: www.tourism.jharkhand.gov.in/and submit their Applications. The Application Due Date is on **04/10/2023 at 11:00 hours**.

A pre-application conference will be held online on **20/09/2023** by 15:30 Hours. The meeting link will be uploaded in our website at 24 hrs before the scheduled online pre application conference.

All subsequent notifications, changes and amendments will be posted only on the website www.tourism.jharkhand.gov.in Tender/Bid Document Fee is Rs. 2,360/- (Two Thousand Three Hundred and Sixty only) inclusive of GST (Not Refundable).

JTDCL reserves the right to cancel this invitation and/or invite fresh Applications with or without amendments to this invitation, without liability or any obligation for such invitation and without assigning any reason.

Sd/-
Director

1. SECTION 1:- INTRODUCTION

Background

Jharkhand Tourism Development Corporation Limited also referred to as the “**JTDCL**” or “**Authority**”, is a nodal agency under Department of Tourism (“DoT”), Government of Jharkhand, with a mandate to develop tourism infrastructure in the State of Jharkhand. JTDCL is operating various hotels and tourist complexes in the State of Jharkhand for providing residential accommodation to the tourists.

With an endeavor for promotion of tourism and ensuring safety and security of tourists/guests of Jharkhand, Jharkhand Tourism Development Corporation Limited (JTDCL) intends to issue this Request for Proposals (RFP) to select a reputed agency for supply, installation, integration and commissioning of IP based wireless CCTV cameras and surveillance system at various units of JTDCL. The control room will be in JTDCL Headquarters Ranchi. The Selected bidder will also be responsible for the Annual Maintenance of the CCTVs supplied. The selected agency will also synchronize the cctv that are already existing in some of the units of JTDCL.

Pursuant thereto, the JTDCL invites Bids from an Agencies for selection of agency (the “Bidder”) as specified in this Request for Proposal (the “RFP”) document for the Services.

RFP document is available at the Directorate of Tourism/DOT website i.e. www.tourism.jharkhand.gov.in. Interested parties may download the RFP documents from the website and submit their Proposals.

Earnest Money Deposit (EMD) cum Performance Security amounting to **Rs.1,00,000/- (Rupees One Lakh only)** in the form of a Demand Draft in favour of “**Managing Director, Jharkhand Tourism Development Corporation Limited**”, of any Nationalized/ scheduled bank, payable at “**Ranchi**” along with bid documents valid for a period of 90 (ninety) days.

The scope of services to be provided by the Agency are general and the list is not exhaustive i.e. does not mention the entire incidental services required to be carried out. The services shall be provided all in accordance with true intent and meaning, regardless of whether the same may or may not be particularly described, provided that the same can be reasonably inferred there from. The scope of services shall be governed by the provisions of the RFP and LOA (work order). There may be several incidental services & assignments, which are not mentioned herein but will be necessary to complete the work in all respects. The scope of services shall be as stated in **Annexure-1**.

The statements and explanations contained in this RFP are intended to provide a proper understanding to the Bidders about the subject matter of this RFP and should not be construed or interpreted as limiting in any way or manner the scope of services and obligations of the Agency set forth in RFP or JTDCL’s rights to amend, alter, RFP- CCTV CAMERA

change, supplement or clarify the scope of work, the Right to be awarded pursuant to this RFP or the terms thereof or herein contained. Consequently, any omissions, conflicts or contradictions in the Bidding Documents including this RFP are to be noted, interpreted and applied appropriately to give effect to this intent, and no claims on that account shall be entertained by JTDCL.

JTDCL shall receive Proposals pursuant to this RFP in accordance with the terms set forth in this RFP and any addenda issued subsequent to this RFP (collectively the "**Bidding Documents**"), as modified, altered, amended and clarified from time to time by JTDCL, and all Proposals shall be prepared and submitted in accordance with such terms.

Brief Description of Selection Process

JTDCL has adopted a two stage (Technical & Financial) selection process (referred to as the "**Selection Process**") for identifying a suitable Agency. JTDCL invites eligible Bidders to submit their Proposals in hard copy to be delivered by Courier/Registered Post/Speed Post/Hand delivery at JTDCL office up to **/09/2023 14:00 hrs** in accordance with the terms of this RFP document.

Contact Information & Address for communication:-

To

The Managing Director

Jharkhand Tourism Development Corporation Limited

5, Mahatma Gandhi Marg, Ranchi, Jharkhand – 834001.

Phone No: +(91)-651-2331828 & 2331643 Fax: +(91)-651-2331828

E-MAIL: jtdcltd@gmail.com

Visit us on www.tourism.jharkhand.gov.in

During this Bid Stage, Bidders are invited to carry out, at their cost, such studies as may be required for submitting their respective Proposals for award of the Right.

The Selection Process shall be governed by, and construed in accordance with, the laws of India and the Courts at Ranchi shall have exclusive jurisdiction over all disputes arising under, pursuant to and/ or in connection with the Selection Process.

Schedule of Selection Process

JTDCL shall endeavor to adhere to the following schedule:

SI No	Event Description	Date
1	Pre-Bid Queries Submission	20/09/2023 by 15:00 Hours
2	Online Pre-Bid Conference	20/09/2023 by 15:30 Hours
3	Bid Due Date	04 /10/2023 by 11:00 Hours
4	Bid opening Conference	04/10/2023 at 11:30 Hours or thereafter

SI No	Event Description	Date
		Venue Details: Jharkhand Tourism Development Corporation Limited 5, Mahatma Gandhi Marg, Ranchi, Jharkhand - 834001 Phone No: +(91)-651-2331828 & 2331643 Fax: +(91)-651-2331828
5	Bid Validity period	180 days from the Bid Due Date
6	Tender/Bid Document Fee	Rs. 2,360/- (Rupees Two Thousand Three Hundred and Sixty Only) inclusive of GST(Not Refundable) in shape of DD in favour of Managing Director, Jharkhand Tourism Development Corporation Limited payable at Ranchi
7	Earnest Money Deposit	Rs. 1,00,000/- (Rs. One Lakh only) in shape of DD in favour of Managing Director, Jharkhand Tourism Development Corporation Limited payable at Ranchi

2. SECTION 2:- INSTRUCTIONS TO BIDDERS

Eligible Bidders

In order to participate in the Selection Process, the Bidder's should be a single business entity (the "**Single Business Entity**"). The term Bidder used herein would apply to a Single Business Entity.

A Single Business Entity shall mean a company incorporated under Companies Act, 1956/2013 or a sole proprietorship firm registered under the Proprietorship Act, 1908 or a partnership firm registered under the Indian Partnership Act, 1932 or a Limited Liability Partnership Firm registered under Limited Liability Partnership Act, 2008.

Note:

1. No Consortium or Joint Venture is allowed to participate in the Selection Process.
2. If the Bidder is:
 - i. A company should furnish copy of the certificate of incorporation and memorandum of association as a proof of identity.
 - ii. A sole proprietorship firm, and a Limited Liability Partnership firm should furnish copy of the registration certificate, GST, PAN and IT returns for the last three financial years (FY 2019-20, 2020-21 and 2021-22) preceding the Proposal Due Date as a proof of identity.
 - iii. A registered partnership firm, it should furnish a copy of the IT returns for the last three financial years (FY 2019-20, 2020-21 and 2021-22) preceding the Proposal Due Date copy of the registration certificate under the registrar of firms and a copy of the partnership deed executed between the partners as a proof of identity.

A Bidder is required to fulfill the criteria specified below. Any Bidder who does not meet the criteria set out below shall be disqualified.

- a) The Bidder must have achieved an **Average Annual Turnover of Rupees 50,00,000/- (Fifty Lakhs Only)** during the preceding 3 (three) years (i.e. FY 2019- 20, 2020-21 and 2021-22). To calculate the average turnover, the total turnover achieved by the Bidder during last 3 years shall be divided by 3. Copy of Audited Balance Sheet and Profit and Loss account duly sealed and signed by auditor/CA and Duly sealed and signed Certificate from the CA specifying the average turnover of last 3 financial years(i.e. FY 2019- 20, 2020-21 and 2021-22) should be provided.
- b) The bidder should have positive net worth and profit making in each of the Last 3 Financial (i.e. FY 2019- 20, 2020-21 and 2021-22). Duly sealed and signed Certificate from the CA confirming the same, should be provided.
- c) The Applicant should demonstrate having an experience of 03 projects of IP CCTV Cameras project installed/maintained in a State & National Level of any Government Department/Corporation/PSU of minimum value of 10 lakhs each in the last 5 (five) Financial years preceding the Application Due Date (the “Qualification Criteria”). Relevant Work Order/Agreement Copy must be submitted along with the bid. Any Applicant who does not meet the Qualification Criteria shall be disqualified.

Note:

- i. Experience of parent/subsidiary/associate Company (ies) of the Applicant would not be considered for the purpose of evaluation.
- ii. Documentary proofs to be submitted by the Applicants are:
 - a) Provide details of experience of the Applicant.
 - b) Copy of Work Order/Completion Certificate/Satisfactory Certificate from the respective Client.
- c) The Bidder must be registered in India. (Supporting documents must be furnished) should have **GST and PAN** Registration.
- d) Firms shall be single entity. **Consortium/Joint Venture are not allowed** to participate in the selection process.
- e) Bidder shall enclose MAF (Manufacturer Authorization Form) from the OEMs of CCTV equipment for the relevant components. MAF from CCTV OEMs specific to this tender mentioning the items must be provided along with the bid.

Any Agency which has been barred by the Central Government/Government of Jharkhand or any entity controlled by them, from participating in any project/provision of service and the bar subsists as on the Proposal Due Date, shall not be eligible to submit a Proposal.

A Bidder should, in the last 3 (three) years, have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder, nor been expelled from any project/provision of service or contract nor have had any contract terminated for breach by such Bidder.

The Bidder should submit a Power of Attorney as per the format enclosed as **Appendix-VI**, authorizing the signatory of the proposal to commit the Bidder. The Proposals must be properly signed by the authorized representative (the “**Authorized Representative**”) as detailed below:

- (a) In case the sole proprietor himself is signing the Proposals, the Power of Attorney is not required to be submitted. However, if the Proposals are signed by any other person other than the sole proprietor or a duly authorized person, the Power of Attorney is required to be submitted in the format at **Appendix- VI**
- (b) By a partner or a duly authorized person holding the Power of Attorney, in case of a limited liability partnership; or a partnership firm or
- (c) By a duly authorized person holding the Power of Attorney, in case of a Company.

Number of Proposals

Each Bidder shall submit only one (1) Proposal, in response to this RFP. Any Bidder who submits or participates in more than one Proposal shall be disqualified.

Proposal Preparation Cost

The Bidder shall be responsible for all costs associated with the preparation of its Proposal and its participation in the Selection Process. JTDCL will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the selection process.

Right to Accept any Proposal and to Reject any or all Proposals

JTDCL reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals at any time, without any liability or any obligation for such acceptance, rejection or annulment, without assigning any reasons thereof.

JTDCL reserves the right to verify all statements, information and documents submitted by the Bidder in response to the RFP. Failure of JTDCL to undertake such verification shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of JTDCL there under.

Conflict of Interest

A Bidder shall not have a conflict of interest that may affect the Selection Process or the Services (the “**Conflict of Interest**”). Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, JTDCL shall forfeit and appropriate the EMD as mutually agreed genuine pre-estimated compensation and damages payable to JTDCL for, inter alia, the time, cost and effort of JTDCL including consideration of such Bidder’s Proposal, without prejudice to any other right or remedy that may be available to JTDCL hereunder or otherwise.

Without limiting the generality of the above, a Bidder shall be deemed to have a

Conflict of Interest affecting the Selection Process, if:

- a) a constituent of such Bidder is also a constituent of another Bidder; or
- b) such Bidder has the same legal representative for purposes of this Proposal as any other Bidder; or
- c) such Bidder has a relationship with another Bidder, directly or through common third parties, that puts them in a position to have access to each other’s information about, or to influence the Proposal of either or each of the other Bidder.

Clarifications

Bidders requiring any clarification on the RFP may notify JTDCL through e- mail to jtdcltd@gmail.com before 1 day of pre-bid meeting. The subject line for communication must clearly bear the following:

Queries/Request for Additional Information: RFP for “**SELECTION OF AN AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL**”.

The responses will be uploaded in the Website by JTDCL without identifying the source of the enquiry. However, JTDCL reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring JTDCL to respond to any question or to provide any clarification.

All clarifications and interpretations issued by JTDCL shall be deemed to be part of the Bidding Documents. Verbal clarifications and information given by JTDCL or its employees or representatives shall not in any way or manner be binding on JTDCL.

Amendments to RFP

At any time prior to the Proposal Due Date, JTDCL may, for any reason, whether at its own initiative or in response to clarifications requested by a Bidder, amend the RFP by the issuance of Corrigendum/Addenda in the Website. Any Corrigendum/Addenda issued would be published in the Website (s) only and the same shall be binding on the Bidders.

In order to afford Bidders reasonable time to take the Corrigendum/Addenda into account, or for any other reason, JTDCL may, at its discretion, extend the Proposal Due Date.

Payment Schedule

Agency will quote Service Fee in financial bid and selection will be as per RFP Clause.

The Authority shall pay the selected bidder as the Service Fee towards **SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL** as per the payment

milestones provided below. Payments to the selected agency shall be released upon submission of sufficient proof as per the milestones achieved.

Payment Milestones		
SL No.	Description	Percentage of Payment to be Released
1	Supply, installation, integration and commissioning	60%
2	One Month after Successful Functioning/Operation	30%
3	One Year after Successful Functioning/Operation	10%
4	Annual Maintenance for 5 years	As per annual cost quoted by the bidder

Damages and Losses

The agency will be responsible for all liabilities, life, losses, claims, damages, costs and expenses that may be incurred by or asserted against any such party / authority or any liability accrued by the agency for the assignment. Agency will be responsible for cost incurred during installation and removal of all materials/items used during LoA period.

Availability of Key Personnel

The Applicant shall provide the proposed Key Personnel with the requisite managerial/support staff (“**Support Personnel**”) to ensure timely completion of the Services within the specified time schedule.

3. PREPARATION AND SUBMISSION OF PROPOSAL

Language and Currency

The Proposal and all related correspondence and documents shall be written in English language. Supporting documents and printed literature furnished by the

Bidder with the Proposal may be in any other language provided that they are accompanied by an appropriate translation in English language. Supporting materials that are not translated into English may not be considered. For the purpose of interpretation and evaluation of the Proposal, the English language translation shall prevail.

Validity of Proposal

The Proposal shall be valid for a period not less than 180 (One Eighty and Twenty) days from the Proposal Due Date ("**Proposal Validity Period**"), in the format set out in **Appendix-I**. JTDCL reserves the right to reject any Proposal that does not meet this requirement.

Prior to expiry of the Proposal Validity Period, JTDCL may request the Bidders to extend the period of validity for a specified additional period.

The Selected Bidder shall, where required, extend the validity of the Proposal till the date of completion of services as per scope of work.

Earnest Money Deposit

The Bidder shall furnish an **Earnest Money Deposit of Rs. 1,00,000/- (Rupees One Lakh only)** (the "Earnest Money Deposit" or "EMD") in the form of a Demand Draft issued by a Nationalized Bank or a Scheduled Bank in India, drawn in favour of "**Managing Director, Jharkhand Tourism Development Corporation Limited,**" payable at "**Ranchi**" along with bid documents. JTDCL shall not be liable to pay any interest on the EMD so made and the same shall be interest free.

The EMD amount shall remain valid for a period of 90 (ninety) days from the Proposal Due Date, or beyond any period of extension subsequently as determined by JTDCL from time to time. The Proposal shall be summarily rejected if it is not accompanied by the EMD.

The EMD shall be returned to the unsuccessful Bidders after selection of the Selected Bidder. The EMD submitted by the Selected Bidder shall be retained as **Performance Security**. JTDCL shall not be liable to pay any interest on the **Performance Security** so made and the same shall be interest free. As per instruction of JTDCL, the selected bidder shall be required to extend the validity of the demand draft.

The EMD shall be forfeited, if the Bidder:

- i. furnishes any information or document which is misleading or untrue in any material respect;
- ii. engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as specified; and

Bidder's Responsibility

It shall be deemed that prior to the submission of Proposal, the Bidder has:

- a) made a complete and careful examination of terms & conditions/requirements, and other information set forth in this RFP document;
- b) received all such relevant information as it has requested from JTDCL ; and
- c) made a complete and careful examination of the various aspects of the Assignment.

JTDCL shall not be liable for any mistake or error or neglect by the Bidder in respect of the above.

Format and Signing of Proposal

Bidders would provide all the information as per this RFP in the specified format(s). JTDCL would evaluate only those Proposals that are received in the required format and complete in all respects. Incomplete and/or conditional Proposals shall be liable to rejection.

All the documents of the Proposal under this RFP shall be typed or written in indelible ink and signed by the authorized signatory of the Bidder who shall also initial each page. All the alterations, omissions, additions or any other amendments made to the Proposal shall be initialed by the person(s) signing the Proposal. The person signing the Proposal shall initial all the alterations, omissions, additions, or any other amendments made to the Proposal. The Proposals must be properly signed by the Authorized Signatory as detailed below:

- (a) by a duly authorized person holding the Power of Attorney, in case of a Company; or
- (b) by the proprietor or a duly authorized person holding the Power of Attorney, in case of a sole proprietary firm.

Submission of Proposals

The Agency shall be required to submit a Technical & Financial Bid in separate sealed envelopes put in a bigger sealed envelope super scribed as **“REQUEST FOR PROPOSAL (RFP) FOR SELECTION OF AN AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL”**.

Bidder should be submitted in hard copy to be delivered by Courier/Registered Post/Speed Post/Hand delivery at Jharkhand Tourism Development Corporation Limited office upto **/08/2023 14:00 hrs** on the Proposal Due Date as indicated. The documents accompanying the Proposal(s) submission shall include:

A. “Technical Proposal”, consisting of the following: (Envelope-1)

- a. Letter of Proposal in the prescribed format at **Appendix - I**;
- b. Details of Bidder in the prescribed format at **Appendix – II**;
- c. Financial Capacity of the Bidder in the prescribed format at **Appendix – III**;
- d. Experience of the Bidder in the prescribed format at **Appendix – IV**.
- e. Self-declaration in the prescribed format at **Appendix – V** for not being black

listed

- f. Power of Attorney for signing of Proposal in the prescribed format at **Appendix – VI**;
- g. In case of a company, copy of the Certificate of Incorporation, Copy of Memorandum and Articles of Association of the Bidder.
- h. In case of a sole proprietorship firm or a Limited Liability Partnership firm, it should furnish copy of either the GST or IT returns for the last three financial years preceding the Proposal Due Date as a proof of identity.
- i. In case of a registered partnership firm, it should furnish a copy of the IT returns for the last three financial years preceding the Proposal Due Date copy of the registration certificate under the registrar of firms and a copy of the partnership deed executed between the partners as a proof of identity.
- j. Copy of the Bidder's duly audited annual reports for the preceding 3 (three) Financial Years (Along with CA Certificate).

B. “Financial Proposal:- (Envelope-2)

- a. The Financial Proposal in the prescribed format at **Appendix – VII and VII A** on the letter head of the Bidder and signed by the authorised signatory.

The Financial Proposal should specify the amount of **Service Fee and Annual Maintenance fee** exclusive of all applicable taxes of work required by the Agency for undertaking the Services. The Financial Proposal clearly indicating the total Service Fee and Annual Maintenance fee of work in both figures and words, and signed by the Agency's Authorized Representative. In the event of any difference between figures and words, the amount indicated in words shall prevail.

Bidders may note that JTDCL will not entertain any deviations to the RFP at the time of submission of the Proposal or thereafter. The Proposal to be submitted by the Bidders should have to be unconditional and unqualified and the Bidders would be deemed to have accepted the terms and conditions of the RFP. Any conditional Proposal shall be regarded as non-responsive and would be liable for rejection.

JTDCL reserves the right to seek original documents for verification of any of the documents or any other additional documents upon opening of the Bidding Documents.

Proposal Due Date

Proposals should be submitted in hard copy to be delivered by Courier/Registered Post/Speed Post/Hand delivery at Jharkhand Tourism Development Corporation Limited office upto **/08/2023 14:00 hrs** on the Proposal Due Date as indicated, in the manner and form as detailed in this RFP Document. Proposals submitted by either facsimile transmission or telex or e-mail will not be accepted.

JTDCL, at its sole discretion, may extend the Proposal Due Date by issuing an Addendum in accordance with the provisions of this RFP.

Late Proposals

Applications submitted after the Due Date shall not be entertained. Applications submitted by fax, telex, telegram or e-mail shall not be entertained and shall be rejected.

Modifications/ Substitution/ Withdrawal of Proposals

The Applicants will not allow Modifications/ Substitution/ Withdrawal of Applications after submission of application.

Withdrawal of a Proposal during the interval between the Proposal Due Date and expiration of the Proposal Validity Period will not be allowed.

Confidentiality

Information relating to the examination, clarification, evaluation and recommendation for the Bidders shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising JTDCL in relation to, or matters arising out of, or concerning the Selection Process. JTDCL will treat all information, submitted as part of the Proposal, in confidence and will require all those who have access to such material to treat the same in confidence. JTDCL may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or JTDCL.

4. SECTION 3: EVALUATION OF PROPOSALS

Opening and Evaluation of Proposal

JTDCL shall open the Proposals on the date specified in **Clause 1.3**, in the presence of the Bidders who choose to attend.

JTDCL will examine and evaluate the Proposals in accordance with the provisions set out in this **Section 3**.

To facilitate evaluation of Proposals, JTDCL may, at its sole discretion, seek clarifications in writing from any Bidder regarding its Proposal.

Any information contained in the Proposal shall not in any way be construed as binding on JTDCL, its agents, successors or assigns, but shall be binding against the Bidder if the Services are subsequently awarded to it under the Selection Process on the basis of such information.

Tests of Responsiveness

Prior to evaluation of Proposals, JTDCL will determine whether each Proposal is responsive to the requirements of the RFP. A Proposal shall be considered responsive only if:

- i. it is received by the Proposal Due Date including any extension thereof pursuant to **clause 3.2**;
- ii. is received through hard copy to be delivered by Courier/Registered Post/Speed Post/Hand delivery as stipulated in **Clause 3.6**.
- iii. it is accompanied with the EMD amount as set out in **Clause 3.3**;
- iv. it contains the information and documents as requested in the RFP;
- v. it provides the information in reasonable detail. (“**Reasonable Detail**” means that, but for minor deviations, the information can be reviewed and evaluated by JTDCL without communication with the Bidder). JTDCL reserves the right to determine whether the information has been provided in reasonable detail;
- vi. it does not contain any condition or qualification; and
- vii. it is not non-responsive in terms hereof.

JTDCL reserves the right to reject any Proposal which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by JTDCL in respect of such Proposal.

Bids of a single business entity which are found to be non-responsive shall be rejected.

Evaluation of Technical Bid of the Bidder

The Proposals/Bids received will be scrutinized to assess their eligibility based on the qualifying criteria. Those Proposals/Bids which do not meet the qualifying criteria will be rejected, forthwith, or at any stage of detection.

JTDCL will finalize agencies on basis of their technical credentials. This assessment will be done by a special Selection Committee of JTDCL.

Evaluation of Financial Proposals

The Financial Proposals of only the qualified Bidders as per **clause 4.3** shall be opened in the presence of the Bidder’s representatives who choose to attend on the date and time intimated to the qualified Bidders. The name of the Bidder and the proposed financial offer shall be read aloud and recorded.

For financial evaluation, the Service Fee and Annual Maintenance fees exclusive of all applicable Taxes indicated in the Financial Proposal for each component shall be evaluated.

JTDCL will determine whether the Financial Proposals are complete, unqualified and unconditional. The cost indicated in the Financial Proposal shall be deemed as final

and reflecting the total cost of services. Omissions, if any, in costing any services shall not entitle the selected Agency to be compensated and the liability to fulfill its obligations as per the scope of services mentioned in this RFP is within the total quoted Service Fee and Annual Maintenance fees shall be that of the Agency.

Selection of Bidder

The Bidder quoted the **Lowest Service Fee (L1)** shall be declared as Selected Agency for work.

In the event that the **L1** Bidder withdraws its Bids or is not selected for any reason in the first instance, JTDCL may invite the second ranked Bidder for negotiations.

The Bidder quoting the **Lowest Service Fee (L1)** shall be the Selected Agency.

Letter of Award (LOA) / Work Order

After selection, a Letter of Award (the “**LOA**”) / Work Order shall be issued, in duplicate, by JTDCL to the Selected Bidder(s) and the Selected Bidder(s) shall, within 7 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof. In the event the duplicate copy of the LOA duly signed by the Selected Bidder is not received by the stipulated date, JTDCL may, unless it consents to extension of time for submission thereof, appropriate the EMD of such Bidder on account of failure of the Selected Bidder to acknowledge the LOA, and the next eligible Bidder may be considered.

Contacts during Proposal Evaluation

Proposals shall be deemed to be under consideration immediately after they are opened and until such time JTDCL makes official intimation of award/ rejection to the Bidders. While the Proposals are under consideration, Bidders and/ or their representatives or other interested parties shall not make attempts to establish unsolicited and unauthorised contact by any means with JTDCL and/ or their employees/ representatives on matters related to the Proposals under consideration after opening of the Proposals and prior to notification of the Award. If any attempt by the Bidder causing extraneous pressure on JTDCL shall be sufficient reason to disqualify the Bidder.

Fraud and Corrupt Practices

The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, JTDCL shall reject a Proposal without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the “**Prohibited Practices**”) in the Selection Process. JTDCL, GoJ may also, in its sole

discretion, debar the Bidder (including its Associates) in participating in any of the bidding/ tender processes in the state for any time period determined by it.

Penalty Provision

In case of delay in execution of the assigned work and unsatisfactory performance by the Selected Agency, JTDCL may impose a penalty of 10% of the **Service Fee** or part thereof (subject to maximum of 30% of the **Service Fee**) or terminate the agency.

Safety/Quality Check

JTDCL will inspect the site on regular interval/quarterly and verify the work as per scope of work.

Transportation

The Agency/Bidders are required to transport and deliver the equipments at different destinations in the State as per direction of JTDCL. The cost of transportation, loading, un-loading, transit insurance, excise & custom shall be the responsibility of the agency. No separate charges shall be borne by the JTDCL.

Guarantee

The Guarantee shall remain valid for a minimum period of 12 month from the Original Equipment Manufacturer (OEM) or as per equipment/items category. The agency shall keep a stock of consumables & spare parts required for maintenance of the equipments. The guarantee shall include replacement of spare parts, service, and total replacement in case of any manufacturing defects of all equipment.

Site Visit

Agency/Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids.

ANNEXURE-1:- SCOPE OF WORK

The scope of services to be provided by the Agency as described below is general but is not exhaustive i.e. does not mention the entire incidental services required to be carried out. The services shall be provided all in accordance with true intent and meaning, regardless of whether the same may or may not be particularly described, provided that the same can be reasonably inferred there from. The scope of services shall also be governed by the provisions of the LOA/Work Order to be entered into between the Agency and Jharkhand Tourism Development Corporation Limited (JTDCL) which sets forth the detailed terms and conditions for grant of the right to the Agency (the “**Right**”). There may be several incidental services & assignments, which are not mentioned herein but will be necessary to complete the work in all respects. Main focus of JTDCL is to promote tourist destinations, create a strong brand identity and awareness of Jharkhand Tourism amongst the target tourists with their safety and security.

- (a) Supply, installation, integration and commissioning of IP Based wireless CCTV Cameras and other support equipments and accessories at JTDC units including all hardware, software and integration of VMS to enable viewing through VMS software in the Command and Control Centre (CCC).
- (b) The CCC has to be setup at the Head Office of JTDCL in Ranchi. The proposed solution architecture, functional requirement and detailed specification of required equipments are given in Annexure-1.
- (c) JTDCL has already installed cameras at its Units/ Complexes in Lake Resort Patratu (40 cameras out of which 40 cameras are working), Hotel Prabhat Vihar Netarhat New Building (64 cameras out of which 42 are working) and Hotel Birsa Vihar Ranchi (15 cameras out of which 14 cameras working). The Successful bidder should repair and integrate the existing cameras into the proposed VMS along with CCC Integration.
- (d) The Surveillance System need to be functional on 24x7 basis.
- (e) All the camera feeds have to be stored for at least 30 days in the respective units of JTDCL and Head Office.
- (f) Training: Upon completion of the installation & commissioning, the bidder should provide hands-on training on the installed equipment to the personnel of JTDCL at respective units and CCC for one week with training materials on operation and maintenance of the system and the equipment at free of cost.
- (d) The bidder should monitor the system after completion of installation, commissioning and system integration for at least 15 days before handing over the entire system to JTDCL.
- (e) The Command center will be in Ranchi for the surveillance monitoring. The Command and Control center should host the Server Room & Command and Control Centre; Video Wall should be installed in the command center for the effective monitoring.

Carry out all the activities required for successful **Supply, Installation, Integration and Commissioning of IP based CCTV wireless cameras and surveillance system at following units of JTDCL**, which shall include butnot limited to the following activities. The location of 12 Units of JTDCL including Head Office where Agency will be responsible for Supply, Installation, Integration and Commissioning of IP based CCTV cameras and surveillance system equipment mention below:

Sl. NO.	NAME OF UNIT	DISTRICT
1	HEAD OFFICE & TIC	RANCHI
2	ISLAND, LAKE RESORT,PATRATU	RAMGARH
3	HOTEL RATAN VIHAR	DHANBAD
4	HOTEL NATARAJ VIHAR AND RESTAURANT & TIC	DEOGHAR
5	HOTEL SHIV VIHAR, DUMKA	DUMKA
6	HOTEL BASUKI VIHAR, BASUKINATH	DUMKA
7	TOURIST COMPLEX, TENUGHAT	BOKARO
8	TOURIST COMPLEX, ITKHORI	CHATRA
9	HOTEL VAN VIHAR, BETLA	LATEHAR
10	WAYSIDE AMENITIES, BAGODAR	GIRIDIH
11	HOTEL PRABHAT VIHAR, NETARHAT(NEW BUILDING)	LATEHAR
12	HOTEL BIRSA VIHAR	RANCHI

1. HEAD OFFICE & TIC, RANCHI			
SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	3
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	7
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	2
6	PVC Box (6-4 or 4-4)	Nos.	10
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Pcs.	40
8	PVC Bent 1 inch	Pcs.	15
9	SHADDLE	Packet	4
10	Flexible Pipe	Mtrs	5
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	2
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Professional TV with HDMI cable LG	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1
2. HOTEL & RESTAURANT BIRSA VIHAR, RANCHI			
SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	4
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	6
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	2
6	PVC Box (6-4 or 4-4)	Nos.	8
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Nos.	25
8	PVC Bent 1 inch	Pcs.	10
9	SHADDLE	Packet	3
10	Flexible Pipe	Mtrs.	3
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Professional TV with HDMI cable LG	Nos.	1

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17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Route r minim um up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation &Laying of CAT6 Cable with PVC pipe Above Item	Lot	1
3. ISLAND, LAKE RESORT,PATRATU			
SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	1
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	1
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	1
6	PVC Box (6-4 or 4-4)	Nos.	2
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Pcs.	10
8	PVC Bent 1 inch	Pcs.	5
9	SHADDLE	Packet	2
10	Flexible Pipe	Mtrs	3
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Profession al TV with HDMI cable LG	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Route r minim um up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation &Laying of CAT6 Cable with PVC pipe Above Item	Lot	1
4.HOTEL & RESTAURANT RATAN VIHAR, DHANBAD			
SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	3
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	7
3	32 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	2
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	2
6	PVC Box (6-4 or 4-4)	Nos.	10
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Mtr.	30
8	PVC Bent 1 inch	Pcs.	10
9	SHADDLE	Packet	5
10	Flexible Pipe	Mtrs.	5
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Conn ectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1

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14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	2
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Professional TV with HDMI cable LG	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

5. HOTEL & RESTAURANT NATRAJ VIHAR & TIC, DEOGHAR

SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	4
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	8
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	2
4	HDD 10 TB Surveillance	Nos.	2
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	3
6	PVC Box (6-4 or 4-4)	Nos.	12
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Mtr.	40
8	PVC Bent 1 inch	Pcs.	15
9	SHADDLE	Packet	7
10	Flexible Pipe	Mtrs	7
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	2
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	2
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	2
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	3
15	Wall mount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	2
16	55" Professional TV with HDMI cable LG	Nos.	2
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	2
18	WIFI Router minimum up to 300 Mbps	Nos.	2
19	UPS 01 KV A WITH 60 minutes backup	Nos.	2
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	2

6. HOTEL SHIV VIHAR, DUMKA

SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	3
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	7
3	4 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	2
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	2
6	PVC Box (6-4 or 4-4)	Nos.	10
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Pcs.	30
8	PVC Bent 1 inch	Pcs.	10
9	SHADDLE	Packet	5

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10	Flexible Pipe	Mtrs	5
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	2
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

7.HOTEL BASUKI VIHAR BASUKINATH, DUMKA

SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	2
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	6
3	8 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	1
6	PVC Box (6-4 or 4-4)	Nos.	8
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Pcs.	25
8	PVC Bent 1 inch	Pcs.	15
9	SHADDLE	Packet	5
10	Flexible Pipe	Mtrs	3
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall mount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	1
16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

8. TOURIST COMPLEX & RESTAURANT, TENUGHAT, BOKARO

SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	2
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	2
3	8 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1

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5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	1
6	PVC Box (6-4 or 4-4)	Nos.	4
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Pcs	15
8	PVC Bent 1 inch	Pcs	5
9	SHADDLE	Packet	5
10	Flexible Pipe	Mtrs	2
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

9. TOURIST COMPLEX & RESTAURANT, ITKHORI, CHATRA

SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	1
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	1
3	8 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	1
6	PVC Box (6-4 or 4-4)	Nos.	2
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Mtr.	10
8	PVC Bent 1 inch	Pcs	5
9	SHADDLE	Packet	2
10	Flexible Pipe	Mtrs	3
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	1
16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum upto 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

10. HOTEL & RESTAURANT VAN VIHAR, BETLA, LATEHAR

SN.	Item Description	UoM	Qty.
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1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	2
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	2
3	8 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	1
6	PVC Box (6-4 or 4-4)	Nos.	4
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Mtr.	10
8	PVC Bent 1 inch	Pcs	5
9	SHADDLE	Packet	3
10	Flexible Pipe	Mtrs	2
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall mount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	1
16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

11. HOTEL & RESTAURANT PRABHAT VIHAR, NETARHAT, LATEHAR

SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	4
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	11
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	1
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	3
6	PVC Box (6-4 or 4-4)	Nos.	15
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Mtr.	30
8	PVC Bent 1 inch	Pcs	15
9	SHADDLE	Packet	5
10	Flexible Pipe	Mtrs	5
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	3
15	Wallmount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	1

16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum upto 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1
12. WAYSIDE AMENITIES & RESTAURANT, BAGODAR, GIRIDIH			
SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	2
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	3
3	8 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
4	HDD 10 TB Surveillance	Nos.	2
5	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	1
6	PVC Box (6-4 or 4-4)	Nos.	5
7	PVC Pipe 1 inch (25mm) having 03 meter Length	Mtr.	30
8	PVC Bent 1 inch	Pcs	10
9	SHADDLE	Packet	5
10	Flexible Pipe	Mtrs	2
11	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	1
12	RJ45 Connectors (100 pcs) 01 Pkt	Nos.	1
13	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	1
14	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	1
15	Wall mount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	1
16	55" Professional TV with HDMI cable	Nos.	1
17	Internet Connectivity 4G Router With 5 G Supports	Nos.	1
18	WIFI Router minimum up to 300 Mbps	Nos.	1
19	UPS 01 KV A WITH 60 minutes backup	Nos.	1
20	Installation & Laying of CAT6 Cable with PVC pipe Above Item	Lot	1

1.

2. Eligibility Criteria for CCTV OEM:

- i. OEM to have its valid GST Certificate
- ii. OEM Should be ISO 9001, ISO 14001, ISO 27001, CMMI 3 & 5 & GDPR Certified Company.
- iii. The CCTV OEM Company must have IEC-ISO 27032 cyber security certificate. Proof of the same to be submitted.
- iv. The OEM of the CCTV equipment's should not be debarred/banned/blacklisted or imposed sanctions by any Country or Government institution globally. OEM declaration to be submitted.
- v. OEM Must have valid GST certificate of Jharkhand state.
- vi. OEM Brand should have established in India at least for 5 years, it's presence should be supported with brand registration certificate like TM, COI etc.
- vii. OEM must be full member of ONVIF
- viii. The OEM of the CCTV camera must have more than 500 employees on its payroll in India. Any OEM which is a part of a larger group company but meeting the 500-employee criterion in India is also eligible. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM. Respective document/ certificate to be provided along with the bid.

- ix. CE, FCC, UL, BIS certificate required of Camera & NVR.
- x. CCTV OEM must have a service centre in Jharkhand.

Technical Specifications & Compliance				
4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.				
Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Image Sensor	1/2.7" 4Megapixel PS CMOS Image Sensor (0.9407 centimeters)		
2	Minimum Illumination	0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (IR on)		
3	Effective Pixels	2688(H) x 1520(V)		
4	Shutter Speed	Auto/Manual 1/3 s–1/100000 s		
5	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
6	Lens	2.8mm (3.6mm, 6mm optional)		
7	Gain Control (AGC)	Auto/Manual		
8	Video Compression	H.265+/H.265/H.264+/H.264/H.264H; H.264B; MJPEG		
9	Angle of View	2.8mm: H:103°; V: 55°; D: 122° 3.6mm: H:84°; V: 45° ; D: 100° 6mm: H: 52°; V: 28°; D: 61°		
10	Back Light Compensation	BLC / HLC / WDR(120dB)		
11	Video Streaming	Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25/30 fps) third stream (1280 × 720@1–25/30 fps)		
12	Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
13	Motion Detection	OFF/ON (4 areas, rectangular)		
14	Privacy Mask	4 areas		
15	ICR	ICR auto switch		
16	ROI	Yes (4 areas)		
17	Audio Input	1 channel (RCA port)		
18	Audio Output	1 channel (RCA port)		
19	Audio Compression	G.711a/ G.711Mu/ AAC/ G.726		
20	Alarm IN	1 channels in: 5mA 3V–5V DC		
21	Alarm Output	1 channel Out: 300mA 12VDC		
22	Audio	Built-in Mic		
23	Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps		
24	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; ONVIF (Profile S/Profile G); CGI; P2P		
25	Smart Detection	Tripwire; intrusion (Recognition of human and vehicle)		
26	Ethernet	RJ-45 (10/100Base-T)		

27	Event Trigger	Motion detection, SMD, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection, Security Exception (Abnormality)		
28	User Account	20 users		
29	Smart Phone	iPhone, iPad, Android Phone		
30	IR	IR Range of 50 Mtr.		
31	Micro SD	FTP, Mirco SD card 256GB, NAS		
32	Operating Temperature	-40°C to +60°C (-40°F to +140°F)/ less than ≤95%		
33	Power Source	12V DC/PoE		
34	Power Consumption	< 5.4W		
35	Weatherproof Standard	IP67		
36	Casing	Metal		
37	Working Humidity	10%~90%		

2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.

Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Image Sensor	1/2.8" 2MP Progressive scan CMOS (0.9071 cm)		
2	Minimum Illumination	0.002 Lux @ F1.6		
3	Effective Pixels	1920(H) x 1080(V)		
4	Shutter Speed	Auto/Manual 1/3 s-1/100000 s		
5	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
6	Lens	3.6mm fixed lens (2.8mm optional)		
7	Gain Control (AGC)	Auto/Manual		
8	Video Compression	H.265+/H.265/H.264+/H.264H/MJPEG (Sub Stream)		
9	Angle of View	2.8mm- H: 106.0° V: 56.0° D: 126.0° , 3.6mm- H: 87.0° V: 46.0° D: 104.0°		
10	Back Light Compensation	BLC / HLC / WDR(120dB)		
11	Video Streaming	Main Stream: 1080P(1 ~ 25/30fps), Sub Stream: D1(1-25/30fps)		
12	Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240)		
13	Digital Zoom	16x		
14	Motion Detection	Off / On (4 Zone, Rectangle)		
15	ICR	Auto(ICR)/Color/B/W		
16	Privacy Mask	Off / On (4 Area, Rectangle)		
17	ROI	Off / On (4 Area, Rectangle)		
18	Bit Rate	H.265: 12K ~ 6400Kbps, H.264: 32K ~ 10240Kbps		

19	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP, ONVIF (Profile S/Profile G); CGI; InstaOn; Milestone; Genetec		
20	Smart Detection	Tripwire, Intrusion		
21	Ethernet	RJ-45 (10/100Base-T)		
22	Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly		
23	User Account	20 Users		
24	IR	IR Range of 30 Mtr		
25	Smart Phone	iPhone, iPad, Android Phone		
26	Micro SD	FTP; Micro SD card (256GB); NFS; SAMBA		
27	Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
28	Operating Temperature	-40°C to +60°C (-40°F to +140°F)		
29	Humidity	≤95%		
30	Power Source	DC12V, PoE (802.3af)		
31	Power Consumption	<4.6W		
32	Casing	Metal		
33	Weatherproof Standard	IP67 & IK10		

16 Ch. 4K NVR 320 mbps with 04 SATA PORT

Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Processor	Industrial embedded micro-processor		
2	Operating System	Embedded LINUX		
3	User Interface	GUI		
4	Video Output	2 HDMI, 2 VGA		
5	Video Resolution	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720; HDMI2/VGA2: 1920 × 1080; VGA1/HDMI1 homologous output; VGA2/HDMI2 homologous output and VGA1/HDMI1 and VGA2/HDMI2 supports heterogeneous output		
6	Video Recording	Max 320Mbps Incoming Bandwidth		
7	Video Display Split	1/4/8/9/16		
8	Channel	16 channel		
9	Motion Detection	MD Zones: 396(22×18).		
10	Video Loss	supports		
11	Bandwidth Incoming	320Mbps		
12	Alarm Input	16 channels		
13	Alarm Output	6 channels		
14	Smart Phone	iPhone, iPad, Android Phone		

15	Hard Disk	4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature		
16	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips		
17	Recording Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent; POS)		
18	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
19	Backup Mode	USB Device/Network		
20	Playback	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom		
21	Max User Account	128 users		
22	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
23	Ethernet	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports		
24	Interface Ports	1 front USB 2.0 port, 2 rear USB 3.0 ports, 1 RS485, 1 RS232		
25	Protocols	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search; P2P; ONVIF (profile T/S/G); CGI; SDK		
26	Power Supply	Single, 100V~240V AC, 50 Hz~60 Hz		
27	Power Consumption	< 16.7W (without HDD)		
28	Working Temp	-10 ~+55°C / 10~90%RH / 86~106kpa		

32 Ch. 4K NVR 320 mbps with 04 SATA PORT				
Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Processor	Quad-core embedded processor		
2	Operating System	Embedded LINUX		
3	Two-way Talk	1 Channel Input, 2 Channel Output, RCA		
4	User Interface	GUI		
5	Video Output	2 HDMI, 2 VGA		
6	Video Resolution	HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768, VGA1: 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768, HDMI2/VGA2: 1920 × 1080		
7	Video Recording	Max 320Mbps		
8	Video Display Split	1st screen: 1/4/8/9/16/25/36 , 2nd screen: 1/4/8/9/16		
9	Video Compression	Instastream/H.265/Smart H.264+/H.264/MJPEG		
10	Channel	32 channel		
11	OSD	Camera title, Time, Camera lock, Motion detection, Recording		
12	Motion Detection	MD Zones: 396(22×18).		

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13	Video Loss	supports		
14	Bandwidth Incoming	320Mbps		
15	Alarm Input	16 Channel		
16	Alarm Output	6 Channel		
17	Smart Phone	iPhone, iPad, Android Phone		
18	Hard Disk	4 SATA ports, up to 10TB Each, 1 eSATA port		
19	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips		
20	Recording Mode	Manual, Schedule (Regular, MD (Motion Detection) , Alarm, IVS), Stop		
21	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
22	Backup Mode	USB Device/Network/eSATA Device		
23	Playback	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom		
24	Max User Account	128 users		
25	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
26	Ethernet	2 RJ-45 Ports (10/100/1000Mbps) Independent or Joint Working		
27	Interface Ports	3 USB Ports (2 Rear USB 3.0, 1 Front USB 2.0), 1 RS232, 1 RS485		
28	Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, ONVIF 2.4, SDK, CGI		
29	Power Supply	Single, AC 100~240V, 50/60 Hz		
30	Power Consumption	<16.7W (without HDD)		
31	Working Temp	-10 ~+55°C / 10~90%RH / 86~106kpa		

10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports				
Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Switch Capacity	24Gbps Full duplex		
2	Uplink Ports	2 x 1000Mbps RJ45 ports + 2 x 1000Mbps SFP ports		
3	PoE Power Budget	96W		
4	Surge Protection	Common mode/RJ45 port: 4KV Differential mode/RJ45 port: 2KV Common mode/Power board: 2K Differential mode/Power board: 2KV		
5	ESD	Air discharge: 8KV Contact discharge: 6KV		
6	Ethernet Port Light	Green light off: Link is disconnected Green light on: Link is connected Green light flash: Data Transmitting		
7	Network Port		12	

8	Transmission Distance	0-100m/1000Mbps or Port 7-8 Max. 250m/10Mbps via Cat.5e or more under Extend mode		
9	PoE Ports	8, 1000Mbps; RJ45 ports; Max. 30W Output of Single PoE Port		
10	PoE Power Supply	1/2(+),3/6(-)		
11	PoE Standard	IEEE802.3af, IEEE802.3at		
12	Packet Forwarding Rate	1.488Mpps/port		
13	MAC Address List	2K		
14	Power Source	Input: 100-240V AC, 50/60Hz, Bult-in Power Supply		
15	Power Consumption	<5W		
16	Operating Temperature	-10°C~ 50°C		
17	Humidity	10%-95% , non-condensing		
18	Storage Temperature	-40°C~70°C		

CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box

Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Conductor	Solid Bare Electrolytic Grade Copper		
2	Insulation	Polyethylene (HDPE)		
3	Nominal Conductor Diameter	23/24* AWG		
4	Cross Filler	HDPE		
5	Pairing	Twisted into Two core		
6	Outer Sheath	PVC Sheath/ LSZH		
7	Operating Temperature	-20 to +60°C		
8	Storage Temperature	-20 to +75°C		
9	Approximate OD	5.80mm		
10	Impedance	100±15% Ω		
11	Resistance Unbalance	5% Max		
12	Colour of Sheath	Grey (RAL-7035), Option Available		
13	Sequential Marking	Every Meter		
14	Packing	305 Mtrs		

CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box

Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Conductor	Solid Bare Electrolytic Grade Copper		
2	Insulation	Polyethylene (HDPE)		
3	Nominal Conductor Diameter	23 AWG (0.555 ± 0.015mm)		
4	Cross Filler	HDPE		
5	Pairing	Twisted into Two core		
6	Outer Sheath	PVC		
7	Operating Temperature	-20 to +60°C		
8	Storage Temperature	-20 to +75°C		
9	Approximate OD	9.30 ±0.50 mm		
10	Impedance	100±15% Ω		
11	Resistance Unbalance	5% Max		

12	Sequential Marking	At Every Meter		
13	Packing	305 Mtrs		

6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports				
Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Switch Capacity	12 Gbps (Non Blocking)		
2	Uplink Ports	2, 1000Mbps, SFP Port, Transmission Distance: 0-100m		
3	PoE Power Budget	65W		
4	Anti-thunder Level	Power board: 2KV; Network Port - Not supported		
5	ESD	n/a		
6	Ethernet Port Light	Power board: 2KV; Network Port - Not supported		
7	Network Port		6	
8	Transmission Distance	Default & VLAN mode: 0-100m/1000Mbps, Extended mode (cat 5 or above UTP) Port 1-2: 0-100m/1000Mbps, Port 3-4: Max. 250m/10Mbps		
9	PoE Ports	4, 100/1000Mbps RJ45 ports, Port 1 support Max. 60W output, other ports Max. 30W output of Single PoE Port; Transmission distance:0~250meters		
10	PoE Power Supply	1/2(+), 3/6(-)		
11	PoE Standard	IEEE802.3af, IEEE802.3at, IEEE802.3bt		
12	Packet Forwarding Rate	1.488 Mbps/port		
13	MAC Address List	2K		
14	Power Source	Input: 100-240V AC, 50/60Hz, 52V DC 1.25A built-in power supply		
15	Power Consumption	<5W		
16	Operating Temperature	-20°C ~50°C		
17	Humidity	10%-95% , non-condensing		
18	Storage Temperature	-20°C ~50°C		

Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)				
Sr No	Specifications	Compliance (Yes/No)	Remarks if any	
1	Basic frame: CRCA (MS SHEET) 0.6mm thick			
2	Construction- Welded			
3	Top & Bottom cover: cable entry cut-outs			
4	Front Door: Lockable with Lock & Key.			
5	PDU 3 Sockets, Included			
6	Standard finish: Powder coated.			
7	Dual-Tone Gray Color - fits in well with all indoor / outdoor aesthetics			

Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)

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Sr No	Specifications	Compliance (Yes/No)	Remarks if any
1	Width 550mm & Depth 350mm		
2	Basic frame: CRCA (MS SHEET) 0.6mm thick		
3	Construction - Welded		
4	Top & Bottom cover: cable entry cut-outs		
5	Front Door: Lockable–Toughened glass with Lock & Key		
6	Toughened Glass used as an excellent thief deterrent		
7	PDU 3 Sockets (5amp)		
8	Standard finish: Powder coated		
9	Dual-Tone Gray Color - fits in well with all indoor/outdoor aesthetics		
10	Differentiator Quality		
11	Load Bearing Capacity - 15kg		

**Wallmount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width)
1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)**

Sr No	Specifications	Compliance (Yes/No)	Remarks if any
1	Wall Mount Rack 6U.		
2	Basic frame: CRCA (MS SHEET).		
3	Construction: Welded.		
4	Cable Entry/Exit provision at Top & Bottom with Rubber at Edges.		
5	Front Door: Toughened Glass with Lock & Key.		
6	Toughened Glass used as an excellent thief deterrent.		
7	19” Vertical Mounting RAIL with Clear “U” Marking.		
8	Powder coated Color RAL– 7035.		
9	Conforms to DIN41494 or equivalent ISO Standards.		
10	Standard Accessories Available.		
11	Others Additional Accessories Optional.		
12	Load Bearing Capacity - 30Kg.		

Outdoor Rack 2U 350D With Front Metal Door Lock & Key; 0.8mm CRCA Sheet(450MM x 350MM)

Sr No	Specifications	Compliance (Yes/No)	Remarks if any
1	Basic frame: CRCA (MS SHEET) 0.8mm thickness.		
2	Construction– Welded		
3	Front plain door with key lock and gasket.		
4	Cooling fans provision on Left and Right side.		
5	Plain top with extension on 3 sides (LH, RH & Front).		
6	Bottom with 2nos. Cable Entry/Exit cut-outs with rubber protection.		
7	Wall/Pole mount with brackets		
8	IP55 Rated (Dust proof, Rust proof & Rain water protected).		
9	Standard Finish: Power Coated RAL 7035 PP (Light Grey).		
10	Dimension: 450 x 350 x 150mm		

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86" 4K Interactive Panel				
Sl. No.	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Screen Size	86 inch (218.44 Cm.)		
2	Aspect Ratio	16:09		
3	CPU	Quad-core A55		
4	Resolution	Panel resolution: 3840 (H) × 2160 (V)		
5	Viewing Angle	178°(H)/178°(V)		
6	RAM & ROM	4 GB & 32 GB		
7	Response Time	<10 ms		
8	Operating System	Android 9		
9	Writing Mode	Finger + Pen		
10	Contrast Ratio	Static Contrast: 1200:1; Dynamic Contrast: 6000:1		
11	Backlight	DLED		
12	Refresh Rate	60 Hz		
13	Lifespan	50,000 hours		
14	Wi-Fi	Dual-band Wi-Fi (2.4/5 GHz)		
15	Wi-Fi Hotspot	Dual-band (2.4/5 GHz); supports enabling Hotspot and Wi-Fi at the same time		
16	Touch Technology Type	Infrared Touch Technology		
17	Touch Points	20		
18	Touch Resolution	<10 ms		
19	IrDA	1		
20	Number of Multi-user Writing Points	10		
21	Number of Continuous and Precise Writing	2		
22	Distortion	≤5%		
23	Front Button	1 × power button (right side)		
24	Ports	1 × RJ-45, 1 × Wi-Fi; 1 × Hotspot, 1 × RS-232, 1 × HDMI IN, 1 × 3.5 mm (Line OUT); 3 × USB 3.0; 1 × Micro USB port		
25	Light Sensor	1		
26	Number of Microphones	2		
27	Microphone Pick-up Distance	Far-field sound pickup: 6 m–8 m (19.69 ft–26.25 ft)		
28	Built-in Speaker	2		
29	Speaker Power	Full frequency: 15 W × 2		
30	Echo Cancellation	Supported		
31	Noise Cancellation	Supported		
32	Polar Pattern	Omnidirectional		
33	Display Glass	Anti-dazzle tempered glass with a hardness of 7 on the Mohs scale		
34	Glass Thickness	3mm		
35	Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)		
36	Storage Temperature	-20 °C to +55 °C (-4 °F to +131 °F)		
37	Operating Humidity	10%–90%		
38	Storage Humidity	10%–90%		

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39	Power Supply	100–240 VAC, 50/60 Hz, 4A		
40	Power Consumption	400 W		
41	Standby Power Consumption	0.5 W		
42	Frame Color (Front/Back)	Bottom: Silver; top/left/right: black		
43	Casing	Metal		
44	Dimensions	Panel Dimensions: 86-inch, Product Dimensions: 1,953 mm × 87 mm × 1,205 mm		

SERVER

Sl. No.	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Processors	Intel® Xeon® Processors 3.0 Ghz Quad-Core or Higher		
2	RAM	64 GB		
3	Graphics Card / Inbuild Graphics	32 GB		
4	NIC	2 X 1G RJ45		
5	Operating System	Windows Server Latest		

SUMMARY OF SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL

SUMMARY			
SN.	Item Description	UoM	Qty.
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	32
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	61
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	6
4	8 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	5
5	4 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
6	32 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	1
7	HDD 10 TB Surveillance	Nos.	15
8	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	20
9	PVC Box (6-4 or 4-4)	Nos.	90
10	PVC Pipe 1 inch (25mm) having 03 meter Length	Pcs	295
11	PVC Bent 1 inch	Pcs	120
12	SHADDLE	Packet	51
13	Flexible Pipe	Mtrs	45
14	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	14
15	RJ45 Conn ectors (100 pcs) 01 Pkt	Nos.	13
16	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	13
17	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	19
18	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	13
19	Wallmount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	13
20	55" Professional TV with HDMI cable	Nos.	13
21	Internet Connec tivity 4G Router With 5 G Supports	Nos.	13
22	WIFI Route r minim um upto 300 Mbps	Nos.	13
23	UPS 01 KV A WITH 60 minutes backup	Nos.	13
24	Laying of CAT6 Cable with PVC pipe	Lot	13

Note:

1. The above specifications are minimum requirements. The bidders shall offer equipments strictly meeting the above requirements or with better specifications.
2. All product brochures, technical documentation/specifications should be enclosed with the quotation and also specify the warranty period.
3. Any material or equipment not specifically stated in the specification but which are necessary for satisfactory operation shall deem to be included in the scope of supply.

4. All the products should be supplied with complete accessories required.
5. All the above products should be of reputed brand, ISI/CE/ISO/BIS certified and conformity with the Indian/ International Standards.
6. Dedicated /toll Free Telephone No. for Service Support: BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
7. Escalation Matrix for Service Support: Bidder/OEM must provide Escalation Matrix of Telephone numbers for Service Support.
8. Installation, configuration, Testing Commissioning and Training to be carried out by the bidder.
9. Terms of delivery: Free Delivery at Site including loading/unloading. In respect of items requiring installation and / or commissioning and other services in the scope of supply (as indicated in respective product category specification)and the cost of the same is also included in the Contract price.
10. Taxes and Duties: Contract Prices are all inclusive i.e., including all taxes, duties, local levies / transportation / loading-unloading charges etc. Break up of GST shall be indicated by the Seller while raising invoice / bill on GeM. While submitting the bill / invoice Seller shall undertake that the Goods and Services Tax (GST) charged on this bill is not more than what is payable under the provision on the relevant Act or the Rules made there under and that the Goods on which GST has been charged have not been exempted under the GST Act or the Rules made there under and the charges on account of GST on these goods are correct under the provision of that Act or the rules made there under.
11. Warranty: - There should be onsite warranty of 1 year from the date of installation.
12. Number of locations and Cameras likely to be increased or decreased or change without assigning any reason.
13. The work consists of supply, Installation, testing, commissioning of Closed Circuit Television (CCTV) system in accordance with the technical specifications, terms and conditions mentioned in RFP.
14. The specification of the equipment supplied should be equivalent or higher than the specifications mentioned in the tender document and the vendor should specify the brand/model/make in their technical offer.
15. The cameras installed should cover maximum area.
16. All product brochures, technical documentation/specifications of CCTV cameras, NVR and LED TV should be enclosed with the quotation.
17. If required, the bidder can be called for an on-site demo to evaluate the quality of recording and video file out puts of the quoted CCTV equipment before it is approved.
18. The successful vendor should complete the work within 45 days from the receipt of order and failure to commence the work within fifteen days, the Authority will forfeit the EMD/performance security. A penalty of 0.5% amount of the total value of the order per day will be levied beyond 30 days.
19. The entire CCTV system supplied & installed should be under on-site warranty as specified against all types of defects from the date of handing over of the product to the Department. Any defects found in the product/sub-product within the warranty period shall be rectified / replaced by the Vendor free of cost. During this period of warranty, servicing at quarterly interval or earlier without any additional cost to the Authority besides attending to call back services in case of break down, as prescribed by the

manufacturer and as mutually agreed to, shall be carried out free- of-cost. This includes replacement of all parts and spare parts and any number of break down call.

20. Please note that Authority will apply penalty as below in case of discrepancy in services under warranty period:
21. On receiving complaint about equipment/ services, the Vendor will promptly respond and repair/ replace or provide required services within 24 hours, if failed, penalty shall be levied Rs. 500/- per day;
22. If the CCTV system is down for more than three working days, then Authority will forfeit the performance security;
23. If Authority observes any unsatisfactory services after sales, discipline/ conduct, delay in repair/maintenance, then Authority will forfeit the performance security and black list the company/firm.
24. Agency shall indemnify JTDCL/its agencies from any loss, damage or liability of property and life.
25. Agency must quote for all items as per RFP.

SECTION 4:- FORMATS FOR SUBMISSION OF PROPOSAL

Appendix – I – Letter of Proposal

(On the letterhead of the Bidder)

Dated:

To
The Managing Director
Jharkhand Tourism Development Corporation Limited
5, Mahatma Gandhi Marg, Ranchi,
Jharkhand – 834001

Dear Sir,

Sub: PROPOSAL FOR “SELECTION OF AN AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL”

- 1 With reference to your RFP document dated__ /___ /_____, I/We, having examined the Bidding Documents and understood their contents, hereby submit my/our Proposal for the aforesaid Service. The Proposal is unconditional and unqualified.
- 2 All information provided in the Proposal and in the Appendices is true and correct.
- 3 I/We shall make available to JTDCL any additional information it may find necessary or require to supplement or authenticate the Bid.
- 4 I/We acknowledge the right of JTDCL to reject our Proposal without assigning any reason or otherwise and hereby waive my/our right to challenge the same on any account whatsoever.
- 5 I/We understand that you may cancel the Selection Process at any time and that you are neither bound to accept any Proposal that you may receive nor to invite the Bidders to bid for the Services, without incurring any liability to the Bidders.
- 6 I/We hereby irrevocably waive any right which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by JTDCL in connection with the selection of the Bidder, or in connection with the Selection Process itself, in respect of the above mentioned activities and the terms and implementation thereof.
- 7 I/We offer a EMD of Rs.1,00,000/- (One Lakh only) to JTDCL in accordance with the RFP Document.
- 8 I/We agree and understand that the Proposal is subject to the provisions of the Bidding Documents. In no case, I/We shall have any claim or right of whatsoever nature if the activities/ Right is not awarded to me/us or our Proposal is not opened.
- 9 I/We agree to keep this offer valid for 180 (One Hundred and Eighty) days from the Proposal Due Date specified in the RFP.
- 10 I/We agree and undertake that the authorised signatory in Appendix- VI shall represent the company in all matters pertaining to the Selection Process. No third person, consultant, agency shall represent the company in all matters pertaining to the selection process.

11 I/We agree and undertake to abide by all the terms and conditions of the Bidding Document.

In witness thereof, I/we submit this Proposal under and in accordance with the terms of the RFP document.

Date: _____ Yours faithfully,
(Signature of the Authorised signatory)

Place: _____ (Name and designation of the of the Authorised signatory)
Name and seal of Bidder

Appendix – II- Details of Bidder

(On the letterhead of the Bidder)

1. (a) Name:
 - Place of incorporation:
 - Address of the corporate headquarters and its branch office(s), if any, in India:
 - Date of incorporation and/ or commencement of business:
2. Brief description of the Company including details of its main lines of business and proposed role and responsibilities for providing the Service
3. Details of the Authorised Signatory of the Bidder:
 - (a) Name:
 - (b) Designation:
 - (c) Company:
 - (d) Address:
 - (e) Telephone Number:
 - (f) E-Mail Address:
 - (g) Fax Number:

Note:

The Bidder must submit the following document to establish the legal status along with this Form:

- a. In case of a company, copy of the Certificate of Incorporation, Copy of Memorandum and Articles of Association of the Bidder.
- b. In case of a sole proprietorship firm or a Limited Liability Partnership firm, it should furnish copy of the registration certificate, GST, PAN and IT returns for the last three financial years preceding the Proposal Due Date as a proof of identity.
- c. Copy of the Bidder's duly audited financial Statement for the preceding 3 (three) Financial Years.

Appendix – III – Financial Capacity

Sl. No.	Financial Years	Annual Turnover (Rs.)
1	2019-20	
2	2020-21	
3	2021-22	
	Average Turnover	

Certificate from the statutory Auditor

This is to certify that.....(name of the Applicant)
has annual Turnover is as shown above the respective years.

Date:

(Signature, name and designation of the authorized signatory)

Name and seal of the audit firm

(Supporting financial statements and relevant documents are to be furnished.)

Appendix – IV – Experience of the Bidder

(On the letterhead of the Bidder)

Sl. No.	Particulars	Description
1	Name of the Organization	
2	Address of the contact details of Organization	
3	Details of Work Experience (FY 2019-20, 2020-21 and 2021-22).	
	Sl. No. -01	
	Name of client	
	Detail Description of Project	
	Duration of Assignment	
	Value of Assignment	
	Sl. No. -02	
	Name of client	
	Detail Description of Project	
	Duration of Assignment	
	Value of Assignment	
	(Project details to be furnished in similar Format) Separate sheets may be added)	

Name of the Bidder

.....

Signature of the Authorised Person

.....

Name of the Authorized Person

Appendix –V- Self Declaration
(Should not have been black listed)

(On the letterhead of the Bidder)

I/We agree that the decision of the Authority in relation to RFP for “**SELECTION OF AN AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF**

JTDCL”, addition or deletion will be final and binding to me / us. I / We confirm that we have not been blacklisted by Central or State Governments & PSUs.

Name of the Bidder

.....

Signature of the Authorised Person

.....

Name of the Authorized Person

Appendix –VI- Format for Power of Attorney for Signing of Proposal

(On Stamp paper of relevant value)

Know all men by these presents, We, _____ (name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorise Mr. / Ms (Name), son/daughter/wife of _____ and presently residing at _____, who is [presently employed with us and holding the position of _____], as our true and lawful attorney (hereinafter referred to as the “Attorney”) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Proposal for “SELECTION OF AN AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL”, proposed by the Jharkhand

Tourism Development Corporation Limited, Government of Jharkhand (the “JTDCL”) including but not limited to signing and submission of all applications, proposals, bids and other documents and writings, participate in Bidders' and other conferences and providing information / responses to JTDCL, representing us in all matters before JTDCL, signing and execution of all contracts and undertakings consequent to acceptance of our Proposal, and generally dealing JTDCL in all matters in connection with or relating to or arising out of our Proposal and/or upon award thereof to us.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, _____, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS _____ DAY OF _____, 20**.

For _____
(Signature)
(Name, Title and Address)

Witnesses:

1
2

Accepted _____
(Signature)
(Name, Title and Address
of the Attorney)

[Notarised]

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*

Appendix- VII- Format for Financial Proposal
(On the Letter head of the Bidder)

Date:

To,

The Managing Director

Jharkhand Tourism Development Corporation Limited

5, Mahatma Gandhi Marg,

Ranchi, Jharkhand – 834001

Dear Sir,

Sub: BID FOR SELECTION OF AN AGENCY FOR SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL.

1. We are pleased to quote our **Service Fee** offered for “SUPPLY, INSTALLATION, INTEGRATION AND COMMISSIONING OF IP BASED WIRELESS CCTV CAMERAS AND SURVEILLANCE SYSTEM AT VARIOUS UNITS OF JTDCL” of Rupees _____ (Rupees _____ Only) (exclusive of GST) for all locations (The “**Service Fee**”) and Annual Maintenance fees of Rupees _____ (Rupees _____ Only) (exclusive of GST) for all locations to the project specified in **Annexure - I** for the above mentioned Assignment.
2. Above cost shall include Supply, installation, testing, integration, transportation and commissioning of wireless CCTV cameras and surveillance system as per Annexure-I (Scope of work). Warranty Period will be one year.
3. The bidder shall pay applicable GST over and above of the **Service Fee** extra to the Authority
4. I/ We confirm and agree that we have reviewed all the terms and conditions of the Request for Proposal and confirm that we would abide by all the terms and conditions. We hereby declare that there shall be no deviations from the stated terms in the RFP.
5. I/ we agree that my/our Financial Proposal shall remain valid for a period of 180 (One hundred and Eighty) days from the Proposal Due Date prescribed for submission of Proposal.
6. I / we confirm that our Financial Proposal is unconditional and that we accept all terms and conditions specified in the RFP.
7. I / we agree to be bound by this offer if we are the Selected Agency for the said Assignment.
8. We further certify that we shall follow the Scope of Services, without any deviations, enumerated in this RFP, if the Assignment is awarded to us.

Note: Total Service Fee/Cost and Annual Maintenance Fees will be used for financial calculation.

Sincerely,

Name of the Bidder

.....

Signature of the Authorised Person

.....

Name of the Authorized Person

Appendix- VII- A Format for Rate

(On the Letter head of the Bidder)

SN.	Item Description	UoM	Rate/unit(Rs)
1	4 MP Full HD WDR IR Network Bullet Camera - 50 Mtr.	Nos.	
2	2 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.	Nos.	
3	16 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	
4	32 Ch. 4K NVR 320 mbps with 04 SATA PORT	Nos.	
5	HDD 10 TB Surveillance	Nos.	
6	10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 2 SFP Ports	Nos.	
7	PVC Box (6-4 or 4-4)	Nos.	
8	PVC Pipe 1 inch (25mm) having 03 meter Lenth	Pcs.	
9	PVC Bent 1 inch	Pcs.	
10	SHADDLE	Packet	
11	Flexible Pipe	Mtrs	
12	CAT6 CABLE 4 PAIR UTP 23 AWG CABLE 305 mtr. Box	Nos.	
13	RJ45 Conn ectors (100 pcs) 01 Pkt	Nos.	
14	6 Ports Switch with 4 Gigabit PoE Ports & 2 SFP Gigabit Uplink Ports	Nos.	
15	Wall Mount Rack 2U Size; with acrylic fiber glass door ; lock n key & PDU (3 sockets) (450MM x 350MM)	Nos.	
16	Wall Mount Rack 4U Size ; with toughened glass door; Lock n key, with PDU 3 Socket (550MM x 350MM)	Nos.	
17	Wallmount 6U 450D With Front Glass Door Lock & Key; toughened glass; cantilever Tray (220 mm width) 1 pc, PDU 5 amp(6 sockets) + cooling Fan 1 pc (550MM x 450MM)	Nos.	
18	55" Professional TV with HDMI cable	Nos.	
19	Internet Connec tivity 4G Router With 5 G Supports	Nos.	
20	WIFI Route r minim um upto 300 Mbps	Nos.	
21	UPS 01 KV A WITH 60 minutes backup	Nos.	
22	Laying of CAT6 Cable with PVC pipe	Lot	