

Request for Proposal (RFP)
for
Supply, Installation, Operation &
Maintenance of GIS Application
Development Centre
for
Jharkhand Police

By
Jharkhand Space Applications Center
Dept. of IT, Govt. of Jharkhand
2nd Floor Engineer's Hostel -1, Dhurwa, Ranchi-4

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Section -I

Bid Ref. No.: JSAC/18/2013

Director, Jharkhand Space Applications Center, Ranchi, invites sealed Technical & Commercial Bids on behalf of Office of the D.G & I.G of Police, Government of Jharkhand for Supply, Installation, Operation & Maintenance of GIS Application Development Centre for Jharkhand Police.

A complete set of Bid Documents may be purchased by any interested eligible Bidder on the submission of a written application to the Director, from the Office of Jharkhand Space Applications Center, Ranchi, 2nd Floor Engineer's Hostel-1, Dhurwa, Ranchi-834004 upon payment of a non refundable fee of **Rs. 5000/- (Rupees Five Thousand only)** in the form of Demand Draft in favour of Director, Jharkhand Space Applications Center, Ranchi, payable at Ranchi. The Bid Document may be purchased personally during office hours on all working days from **07/03/2013**.

Interested and eligible Bidders are required to submit the Technical and Commercial Bids in two separate sealed envelopes. The Technical and Commercial Bids should be accompanied by a bid security as specified in this Bid Document. The Bid Security (In the form of Demand Draft or Bank Guarantee) should be included in the same envelope containing the Technical Bid. The Technical and Commercial Bids along with the Bid Security must be delivered to Director, at the Office of Jharkhand Space Applications Center, Ranchi, 2nd Floor Engineer's Hostel-1, Dhurwa, Ranchi-834004 on or before **29/05/2013 till 4.00 pm**.

The envelope containing the Technical Bid and the Bid Security will be opened on the specified date & time in the presence of the Bidders or their authorized representatives who choose to attend. In the event of the date specified for bid receipt and opening being declared as a holiday for the Office, the due date for submission and opening of bids will be the following working day at the appointed times.

The summary of various activities with regard to this invitation of bids are listed in the table below:-

Bid Reference No.	JSAC/18/2013
Price of Tender Document	Rs. 5000/-
Date of commencement of sale of Tender Documents	07/05/2013
Pre-bid Meeting	17/05/2013
Last date and time for purchase of Tender documents	Till 3.00 pm on 28/05/2013
Last date & Time for submission of Bids	Till 4.00 pm on 29/05/2013
Date & Time of opening of bids	11.00 am on 30/05/2013

Section-II

Scope of Work

Introduction

Office of the D.G & I.G of Police, Jharkhand Police Headquarter, Government of Jharkhand, intends for the state of art GIS Centre at their premises.

The Scope of Work shall include supply, delivery, installation, operation of GIS Hardware & GIS Software for new GIS application development and Integration with existing web based applications as a turnkey project. The GIS application development and integration is as follows.

1. GIS integration with NIS[Existing Application] -SRS to be carried out with the s/w development
2. GIS integration with Crime Criminal Management System [Existing Application] - SRS to be carried out with the s/w development
3. New GIS application development [Call Detail Report ,Vehicle Tracking, etc] Requirement analysis to be carried out with new software development.
4. Providing GIS as a application service to other applications
5. GIS Operational Training to the department.

Note - All the GIS applications will be developed by the bidder based upon Open source GIS Web server, Open source GIS Data base and the Open source GIS desktop client. And all development should support android Mobile, Windows and Linux compatibility.

Maintenance

1. The Supplier shall provide comprehensive on-site warranty for all the equipments supplied under the contract at least for a period of **5 years** from the date of final acceptance of the system.

2. The maintenance services, including spares shall be **free of cost** during the warranty period.
3. During the term of Warranty the service/repair calls will have to be attended by the Supplier **within four hours** from the time of such calls. In case of major defects requiring the defective equipments to be taken to the Supplier's workshop, it should be returned within permissible time duly repaired and immediate substitute equipments will be provided by the Supplier for the smooth operation of the System.

Section-III

Terms & conditions

1. Tenderers are advised to study all technical and commercial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender document in every respect will be at the tenderer's risk and may result in the rejection of the bid. It will be imperative on each bidder to fully acquaint himself with all the local conditions and factors, which would have any effect on the performance of the contract.
2. Sealed offers prepared in accordance with the procedure enumerated in tender document should be submitted to the Director, of Jharkhand Space Applications Center, Ranchi, 2nd Floor Engineer's Hostel-1, Dhurwa, Ranchi-834004, not later than the date and time laid down and at the address given in the tender document.
3. All bids must be accompanied by a Earnest Money Deposit (EMD) of **Rs. 300000/-** in the form of Bank Draft Valid for period of 3 months drawn from a scheduled bank in favor of **Director, Jharkhand Space Applications**

Center payable at Ranchi. Tenders not accompanied by earnest Money or incomplete in any respect will be rejected outright.

4. This tender document is not transferable.
5. The categories of items and quantity will be as per requirements. Director, Jharkhand Space Applications Center reserves the right to increase or decrease the quantity or delete some or all of the items depending on the needs of the project without assigning any reasons.
6. The tenderer should indicate specifically the **Make & Model** of the items, Basic Price, Taxes/Excise duty, other duties (if any), and levies chargeable quantitatively against each item. No additional information will be entertained after due date. Blank Price Bid (mentioning the required quantity) should be submitted in the technical Bid
7. The tender should be submitted in Two cover system i.e a: Technical Bid and b: Price Bid. There should be proper indication of the contents on each envelope.
8. The draft must be in a separate sealed envelope indicating the amount, tender notice number, and due date enclosed with the bid.
9. The tenderer should clearly indicate the delivery period and validity period of tender.
10. The details particularly the Sales Taxes/excise duty, any other duty, if not quoted properly, will not be admissible at a later date.
11. The tenderers are required to quote for each item separately in terms of basic price and all other charges. Prices should be quoted in Indian currency only.
12. The Tender must be submitted along with the tender specific Manufacturers authorization letters from the manufacturer.
13. Director of Jharkhand Space Applications Center reserves the right to reject any or all tenders without assigning any reason whatsoever.
14. The tenders will be opened on the date and time indicated in the presence of tenderers if any present on the occasion. If the date of opening is declared to be a holiday the tenders will be opened on the next working day.

15. All damaged or unapproved goods shall be returned at the Tenderer risk and cost and the incidental expenditure thereupon shall be recovered from the concerned party.
16. Printed conditions of the firm sent along with the quotation, if any, shall not be binding on us.
17. Packing list must be put in all packets.
18. On acceptance of tender, the date of delivery should be strictly adhered to otherwise, Director, Jharkhand Space Applications Center reserves the right not to accept the delivery in full or in part. In case the order is not executed within the stipulated period, Director, Jharkhand Space Applications Center will be at liberty to make purchases through other sources, and to forfeit the earnest money of the tenderer.
19. Party should offer all equipments of state of the art quality & branded products.
20. Party shall be willing to offer Warranty/ Annual Maintenance Contract, (AMC), /Support at a reasonable price for a period of Five years.
21. The Bidder and OEM both should have Support centre in the State of Jharkhand.
22. To fulfill the eligibility criteria for bidding, the consortium of parties will not be allowed.

Section -IV
Eligibility Criteria

The Bidding is open to all qualified Bidder who fully meet the following qualifying requirements:-

- a. The bidder should enclose Manufacturers' Authorization Letter from the Original Equipment Manufacturer (OEM) for the relevant items along with the Technical Bid for this specific tender.
- b. The bidder should have successfully completed similar projects atleast 3 up to worth of Rs. 3 Crores each or above, during the last three years (Provide the details as per the format given in Annexure 2, also enclose the related work order).
- c. The Bidder should have an annual turnover of not less than 100 crores in any one of the two previous financial years. The documentary evidence (Attested photocopy of audited Balance Sheet, Certificate of Incorporation etc.) must be submitted along with Bid.
- d. The Bidder should have at least 500 (Five hundred) full time professionals on rolls over each of the last three years. Self-certification by the authorized signatory will be required.
- e. The Bidder should have Service Tax & VAT registration. The Latest VAT & Service Tax Return Certificate & Commercial taxes clearance Certificate valid as on the date of tender should be submitted.
- f. Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Tendering Authority. A Self - Declaration Certificate should be enclosed as in **Annexure - 3**.
- g. Bidder should have a Local/Branch office at Ranchi & the proof of the same along with name, contact no. & proper address should be submitted along with technical bid.
- h. Bidder's should have ISO 9001 Certification in the domain of System Integration & Software development
- i. Bidder should have CMM I Level 3 certification.
- j. Compnay Should be a profit making company for the last three years and minimum net profit margin should be 5 Cr. (Proof should be attached).

SECTION - V

Instructions to the Bidders

1. **Cost of Bidding**

The Bidder shall bear all the costs associated with the preparation and submission of its bid, and the Tendering Authority in no case, will be responsible or liable for these costs, regardless of conduct or outcome of the bidding process.

2. **Bidding Document**

The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of the bid.

3. **Preparation of Bids**

a. **Language of Bid**

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Tendering Authority shall be in **English only**.

b. **Bid Currency**

Prices shall be quoted in Indian Rupees only.

4. **Documents Comprising the Bids**

a. **Bid Prices**

The Performa of the bid price form is in **Annexure 5**. If required the tendering authority may at a later stage (i.e. after the finalization of contract or at the time of agreement) ask for a component wise breakup of the price.

b. Bid Proposal Sheet

Bid Proposal sheet duly filled in and signed and complete in all respects should be submitted (Format in **Annexure 1**).

5. Documents Establishing Bidder's Eligibility and Qualification.

- a. Bidder should attach all documentary proof for the eligibility criteria mentioned in the Section IV.

6. Earnest Money Deposit

- a. The Bidder shall furnish, as part of its bid, an Earnest Money Deposit (EMD) in the form of a DD in favour Director ,Jharkhand Space Applications Center, payable at Ranchi for an amount of Rs. 300000/- (Three Lakhs Only)
- b. The EMD shall be in Indian Rupees only.

7. Period of Validity of Bids

- a. Bids shall be valid for 90 days after the date of bid opening. A bid valid for a shorter period shall be rejected by the tendering authority as non – responsive.
- b. In exceptional circumstances, the Tendering Authority may solicit the Bidders consent to an extension of the period of validity .The request and response thereto shall be made in writing.
- c. Bid evaluation will be passed on the bid prices without taking into consideration the above changes.

8. Contents of Envelopes

- a. It will be a two envelope bid comprising of technical bid and commercial bid.
- b. **First envelope** shall be marked as Envelope No. 1 Technical Envelope and shall contain:
 - Demand Draft for Earnest Money Deposit (EMD)

- The documents establishing Bidder's eligibility, qualifications and conformity mentioned Tender Document.
 - Technical Bid Offer including all technical & contractual compliance.
- c. **Second envelope** shall be marked as envelope No.2 "Commercial Envelope" which will contain only price schedule in the prescribed proforma in **Annexure 5**.
- d. The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. A Written power-of-attorney accompanying the bid should support the latter authorization. The person or persons signing the bid shall initial all pages of the bid, except for un-amended printed literature.
- e. Any interlineations, erasures or overwriting shall be valid only if they are signed by the person(s) signing the bid. The bid will be summarily rejected if all the documents mentioned are not enclosed in technical bid.

9. Submission of Bids

Sealing and Marking of Bids

- i. The Bidders shall seal the envelope No.1 Technical envelope and envelope No.2 Commercial envelope in separate inner envelopes, duly marking the envelopes as "envelope No.1, Technical Envelope" and "envelope No.2 Commercial Envelope". He shall then place these two envelopes in an outer envelope. Both the inner envelopes and the outer envelope should be addressed to:
- Director ,Jharkhand Space Applications Center,2nd Floor, Engineer's Hostel-1, Dhurwa, Ranchi-834004.
- ii. The inner and outer envelopes shall bear the words:

**“Invitation for Bids for Supply, Installation, Operation and
Maintenance of GIS Centre**

- iii Both the inner envelopes shall indicate the name and address of the Bidder.
- iv. If the outer envelope is not sealed and marked, the Tendering Authority will assume no responsibility for the Bid’s misplacement or premature opening.
- v. Telex, cable or facsimile bids will be rejected.

b. Deadline for Submission of Bids

- i. Bids must be received by The Tendering Authority at the address, not later than the time and date specified in the **Invitation for Bids (Section I)**. In the event of the specified date for the submission of Bids being declared as a holiday for the Tendering Authority, the bids will be received up to the appointed time on the next working day.
- ii. The Tendering Authority may, at its discretion, extend this deadline for submission of bids by amending the bid documents, in which case all rights and obligations of The Tendering Authority and Bidders subject to the deadline will thereafter be subject to the deadline as extended.

c. Late Bids

Any bid received by the Tendering Authority after the deadline for submission of bids prescribed by the Tendering Authority, will be rejected and/or returned unopened to the Bidder.

d. Withdrawal of Bids

- i. The Bidder may withdraw its bid after the submission, provided that the Tendering Authority receives written notice of the withdrawal, prior to the deadline prescribed for submission of bids.

- ii. In case the Bidder wants to withdraw, the Bidder's withdrawal notice shall be prepared, sealed, marked and dispatched to the Tendering Authority in original.
- iii. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of the bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval shall result in the Bidder's forfeiture of its bid security.

10. Bid Opening and Evaluation of Bids

- a. After opening of the technical bids, those bidders, who are technically eligible (i.e. who satisfy the eligibility criteria) and have submitted all the documents mentioned in the tender documents, the financial bids of the technically qualified bidders will be opened.
- b. The Bidder or their authorized representative who wish to be present shall sign an attendance.
- c. The Bidder's name, bid modifications or withdrawals, bid prices and presence or the absence of requisite bid security and such other details as, the Tendering Authority at his discretion, may consider appropriate, will be announced at the time of opening. No bid shall be rejected at the openings except for the late bids, which shall be returned unopened to the Bidders.
- d. Bids that are not opened and read out at bid opening shall not be considered for further evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the Bidders.
- e. Bids will be opened in the presence of Tender Committee as well as Bidders or their representatives who choose to attend on the specified date and time.
- j. The Tendering authority reserves the right to disallow the opening of bid of any of the bidders without assigning any reason.

11. Clarification of Bids

During evaluation of bids, Tendering Authority may at its discretion, ask the Bidder for clarification of its bid. The request for clarification and response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted.

Any effort by a Bidder to influence the Tendering Authority in its decision on bid evaluation, bid comparison or contract award may result in disqualification of the Bidder's bid and also forfeiture of his bid security.

12. Award of Work

The finalization of the tenders will be done by a tendering committee.

- a. The Tendering Authority will award the work to the Successful bidder whose bid has been determined as the lowest evaluated bid provided further that the bidder is technically eligible.
- b. The Tendering Authority's may vary scope of contract at the time of award.

13. Tendering Authority's Right to Accept / Reject Any or All Bids

The Tendering Authority reserves the right to accept or reject any bid, or to annul the bidding process and reject all bids at any time prior to the award of Contracts, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Tendering Authority's action.

14. Performance Guarantee

Within 15 days after receipt of notification of award of work from the office of Director of Jharkhand Space Applications Center, the successful Bidder shall furnish performance Bank Guarantee bond to the Director of Jharkhand Space Applications Center, which shall be equal to 5 percent of the value of the contract and shall be in the form of a Performance Bank Guarantee valid up-to 63 months from the date of award of work.

15. Corrupt or Fraudulent Practices.

The Tendering Authority requires that the Bidders/suppliers/ contractors under this tender observe the highest standards of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Tendering Authority:

- a. Defines for the purposes of this provision, the terms set forth as follows:
 - i. “Corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of the public official in the procurement process or in contract execution; and
 - ii. “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or a execution of a contract to the detriment of the Tendering Authority, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Tendering Authority of the benefits of the free and open competition;
- b. The tendering Authority will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
 - a. The tendering Authority will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.
 - b. The past performance of the Bidder will be crosschecked if necessary. If the facts are proven to be dubious, the Bidders tender will be ineligible for further processing.

16. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity in the interpretation of any of the clauses in Tender Document or the Contract Document, the Tendering Authority’s interpretation of the clauses shall be final and binding on all parties.

17. Decision Taken

The decision taken by the Tender Committee in the process of Tender evaluation will be final and binding.

SECTION VI:
GENERAL CONDITIONS OF CONTRACT

1. Definitions

In this Contract, the following terms shall be interpreted as indicated:

“The Contract” means the agreement entered into between the Tendering Authority and the Supplier, as recorded in the Contract Form Signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein .

“Bidder” means any agency that is participating in the tender process.

“Provider ” means any agency that is a successful Bidder and to whom the contract will be awarded.

“The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.

The “ Items ” means the material which the Bidder is required to supply to the Department under the Contract.

The **“User Department”** means Office of the D.G & I.G of Police, Jharkhand Police Headquarters -Ranchi

“Service” means the Provider should come up with a Comprehensive solution as defined in the Scope of Work. The work will not be allotted in piecemeal. Bidders providing for part services / activities will not be considered.

2. Application

These General Conditions shall apply to the extent that provisions in other parts of the Contract do not supercede them.

3. Use of Contract Documents and Information

- a. The Provider shall not, without the Tendering Authority's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Tendering Authority in connection therewith, to any person other than a person employed by the Provider in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

- b. Any document, other than the Contract itself, shall remain the property of the Tendering Authority and shall be returned (in all copies) to the Tendering Authority on completion of the Supplier's performance under the Contract if so required by the Tendering Authority.

- c. The Service Provider shall permit the Tendering Authority to inspect the Service Provider's accounts and records relating to the performance of the Service Provider and to have them audited.

4. Delivery of Items

The vendor shall be responsible for delivery and installation of the ordered item(s) at the site and for making them fully operational at no extra charge within 20 days of the date of Supply order.

Delivery of the Items shall be made by the Provider in accordance with the terms specified by the Tendering Authority in the work order.

5. Incidental Services

The Provider is required to provide the following services, including additional services, if any:

- Performance or supervision of the on-site assembly and/or start-up of the supplied Items;
- Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Items;
- Performance or supervision or maintenance of the supplied items for the period of time mentioned in the Tender notification.

6. Delays in the Bidder's performance

Performance of the Contract shall be made by the Bidder in accordance with the time schedule specified by the Director of Jharkhand Space Applications Center as indicated in tender document.

An unexcused delay by the Bidder in the performance of its contract obligations shall render the Bidder liable to any or all of the following sanctions:

- i) Forfeiture of its performance security;
- ii) Imposition of liquidated damages; and/or
- ii) Termination of the Contract for default.

As soon as practicable, after receipt of the Bidder's notice, the Director of Jharkhand Space Applications Center shall evaluate the situation and may at its discretion extend the Bidder's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

7. Acceptance

The Acceptance Tests for delivery, installation and maintenance shall be conducted by the Bidder in the presence of a core Group of experts nominated by Director of Jharkhand Space Applications Center. The Acceptance Test must

be completed by the Bidder to the satisfaction of the Core Group within a period of thirty (30) days after Implementation.

8. Liquidated Damages

In the event of failure of the Bidder to secure acceptance of the items by the Director of Jharkhand Space Applications Center, within ninety (90) days after implementation, the Director of Jharkhand Space Applications Center reserves the option to recover from the Bidder as liquidated damages and not by way of penalty for the period after the said ninety (90) days, until acceptance a sum equivalent to two percent (2%) of the contract value for each month of the failure of Bidder up to a maximum deduction of Ten (10) percent, to secure acceptance or part thereof, without prejudice to the Director of Jharkhand Space Applications Center other remedies under the Contract.

9. Penalty Clause

If the Provider is not executing the contract to the satisfaction of the tendering authority then he may invoke any or all of the following clauses.

- i. The reported failure/malfunctioning must be resolved within 24 hours from the time of login. If the failure/ malfunctioning is not resolved within 24 hours there will a penalty charge of @Rs100.00 per hour which will be encharged form the Bank Guarantee or
- ii. Forfeit the performance Guarantee Amount.

10. Termination for Default

The Tendering Authority may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Provider, terminate the Contract in whole or part:

- i. If the Provider fails to deliver any or all of the Hardware within the period(s) specified in the Contract.

- ii. If the Provider fails to perform as per the performance standards.
- iii. If the Provider, in the judgment of The Tendering Authority has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

11. Force Majeure

- a. For purposes of this clause, “Force Majeure” means an event beyond the control of the Provider and not involving the Provider’s fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchase either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- b. If a force Majeure situation arises, the Provider shall promptly notify the Tendering Authority in writing of such conditions and the cause thereof. Unless otherwise directed by the Tendering Authority in writing, the Provider shall continue to perform its obligations under the Contract as far as it reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure.

12. Termination for Insolvency

The Tendering Authority may at any time terminate the Contract by giving written notice to the Provider. If the Provider becomes bankrupt or otherwise insolvent, in this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Tendering Authority.

13. Resolution of Disputes

The matter regarding any dispute shall be sorted out at the level of Director of Jharkhand Space Applications Center.

14. Legal Jurisdiction

All legal disputes are subject to the jurisdiction of Ranchi courts only.

15. Taxes and Duties

The rates quoted shall be in Indian Rupees and shall be inclusive of all taxes, duties as applicable up to the completion of job. Any increase in the rates will not be allowed.

16. Binding Clause

All decisions taken by The Tendering Authority regarding the processing of this tender and award of contract shall be final and binding on all concerned parties.

17. Tendering Authority, reserves the right:-

- a) To verify, modify, revise, amend or change any of the terms and conditions mentioned above or to reject any or all the tender/s without assigning any reason whatsoever thereof or may terminate the tender process midway without assigning any reason.
- b) The Decision regarding acceptance of Tender by the Tendering Authority will be full and final.
 - c) Conditional tenders shall be summarily rejected.
 - d) The vendor should be in a condition to fulfill the repeat orders, if asked to do so.

SECTION- VII :

SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract.

1. Provider's Integrity

The Provider is responsible for and obliged to conduct all contracted activities as defined in the scope of work in accordance with the Contract.

2. Provider's Obligations

- a. The Provider is obliged to work closely with the Tendering Authority's staff, act within its own authority and abide by directives issued by the Tendering Authority.
- b. The Provider will abide by the job safety measures prevalent in India and will free the Tendering Authority from all demands or responsibilities arising from accidents or loss of life the cause of which is the Provider's negligence. The Provider will pay all indemnities arising from such incidents and will not hold the Tendering Authority responsible or obligated.
- c. The Provider is responsible for managing the activities of its personnel or sub-contracted personnel and will hold itself responsible for any misdemeanor.
- d. The Provider will treat as confidential all data and information about The Tendering Authority, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the Tendering Authority.

3. The bidder will submit all deliverable specified in RFP and should mention the make & model no. for clarity..

4. Depending upon the project requirement the quantity of items as specified in the tender may increase. If some item other than the mentioned is required, it has to be arranged by the supplier.

5. In case of serious discrepancy in equipments supplied, the Director of Jharkhand Space Applications Center may cancel the entire purchase order and return the item(s) back to the vendor at vendor's costs and risks.

6. Payment and penalty terms

Payments will be released only on satisfactory acceptance of the deliverables for each Task as per the following schedule:

The contract value shall compose of two components- Milestone based payment and Ongoing services based payment. Payments shall be released only on the satisfactory acceptance of the deliverables for each milestone or services by the client based on the inputs provided by the Technical committee. The prices should remain firm and not subject to any upward revisions on any account whatsoever throughout the period of contact.

Sr. No.	Cost component
1.	WS1- Hardware supply, installation and support, software supply, installation, integration, License and support, Man power services for development, operation support.
	Component 1 (Total Project Cost)

Sr. No.	Milestone	Fee Payable	Penalty
Milestone based payment and timelines			
1.	Acceptance of the detailed project management plan, exit management plan along with establishment of live project management dashboard and delivery of software and hardware. (T+5 weeks)	M1 = 45% x Component 1	Beyond T+5 weeks penalty of Rs. 10,000.00 per week.
2.	On successful installation of hardware and software and deployment of manpower services. (T+10 Weeks)	M2 = 10% x Components 1	Beyond T +10 weeks penalty of Rs. 5,000.00 per week
3.	User acceptance certificate and go-live issued by Department nominated committee(T+15 weeks)	M3 = 5% x Components 1	Beyond T +15 weeks penalty of Rs. 5,000.00 per week
4.	Quarterly payment for 5 years after Go-live , Quarterly payment will start after completion of roll out of the application and integrated solution operations for 90 days (Payment should be made after completion of the quarter after deduction of any applicable penalties based on the submission of invoice and SLA compliance report. The invoice should contain reports of man month allocated, man month used, attendance, copy of the salary slip	M4= 2% x Components 1 (For 5 Years)	If any problem after go-live of the project like hardware failure /man power not deployed / training not held then penalty of Rs. 5,000.00 per week.

	actual net payment + the tax(PF, ESI, Other Tax) and performance evaluation certificate of the assigned work from the client.		
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* The estimated budgetary of the project is around Rs 3 crore.

Bid Proposal Sheet

To

**The Director,
Jharkhand Space Applications Center,
2nd Floor, Engineer's Hostel-1,
Dhurwa, Ranchi-834004**

Subject: Proposal for Supply ,Installation, Opration & Maintenance of GIS Centre

Sir,

1. We, the undersigned Bidders, having read and examined in detail the Specifications and all the bidding documents as specified in the Bidding documents No. < _____>.

2. **PRICE AND VALIDITY**

All the prices mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the prices and other terms and conditions of this proposal are valid for a period of 90 calendar days from the date of opening of the Bids.

We are an Indian firm and do hereby confirm that our Bid prices include all taxes including Income Tax and Professional Tax.

We have studied the Clause relating to Service Tax and hereby declare that if any Income Tax, Surcharge on Income Tax, Professional Tax and other Corporate Tax is altercated under law, we shall pay the same.

3. **Unit Rates**

We have indicated in the relevant schedules enclosed the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to/decrease from the Scope of Work under the contract.

4. EMD

We have enclosed a Demand Draft in favour of Director of Jharkhand Space Applications Center, Jharkhand Ranchi for a sum of Rs. Three Lakhs only (Rs 300000/-). This **EMD** is liable to be forfeited in accordance with the provisions of Bid documents.

We declare that all the Services/Works shall be performed strictly in accordance with the Scope of Work.

5. Bid Pricing

We further declare that the prices stated in our proposal are in accordance with your Instructions to Bidders included in Bidding documents.

6. Bid Price

We declare that our bid prices are for the entire scope of the work as specified in the technical specification and bid documents. These prices are indicated in **Annexure 5** attached with our proposal as part of the Commercial Bid.

7. Contract Performance Guarantee

We hereby declare that in case the Contract is awarded to us, we shall submit the Performance Bank Guarantee.

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

Thanking you,

Yours faithfully,

(Signature)

Printed Name and Designation

Seal

Date:

Place :

Business Address :

WORK EXPERIENCE CERTIFICATE

Name of the firm _____

Address: _____

Period from _____ to _____.

Order Number and date	Order Placed by (full contact address of such organizations)	Solution provided	Value of order in Rupees

Date: _____

Place: _____

Signature of the Bidder :

SELF-DECLARATION

Ref: _____

Date: _____

To,

**The Director,
Jharkhand Space Applications Center,
2nd Floor, Engineer's Hostel-1,
Dhurwa, Ranchi-834004**

In response to the tender No. _____ dt. _____ We hereby declare that our Company M/s _____ is having unblemished past record and was not declare ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time.

Name of the Bidder: -

Signature: -

Seal of the Company: -

CERTIFICATE OF CONFORMITY

Date:

To,

**The Director,
Jharkhand Space Applications Center,
2nd Floor, Engineer's Hostel-1,
Dhurwa, Ranchi-834004**

C E R T I F I C A T E

This is to certify that, the service for supply installation and maintenance of GIS Centre which I shall provide, if I am awarded with the work, are in conformity with the Scope of Work in the Tender document.

I also certify that the price I have quoted per unit cost basis is inclusive of all the cost factors involved in the execution of the project, to meet the desired standards set out in the Conditions of the contract.

Name:

Designation:

Seal:

Bid Price Form

Prices for **Supply, Installation, Operation and Maintenance of GIS Centre** in manner as specified in Specifications and Bidding documents.

Bidder's Name & Address

To

**The Director,
Jharkhand Space Applications Center,
2nd Floor, Engineer's Hostel-1,
Dhurwa, Ranchi-834004**

Format for Commercial Proposal [Including all taxes]

SL No	Description	QTY	Unit Price for 1 years [Rs]	Total Price for 5 years [Rs]
01	Work Station [Refer to Annexure - 6(i)]	2		
02	High End Desktop PC [Refer to Annexure -6(ii)]	5		
03	Rack Server [Refer to Annexure - 6(iii)]	4		
04	Additional SAN storage 10 x 3TB SATA hdd, 7200rpm .for existing IBM SAN Storage 5100	1		
05	MFP (Scanner, Copier, Printer) A0 Size [Refer to Annexure -6(iv)]	1		
06	Smart Card Printer[Refer to	1		

	Annexure -6(v)]			
07	Tablet [Refer to Annexure -6(vi)]	2		
08	Laptop [Refer to Annexure -6(vii)]	2		
09	Non - BSNL ISP Lease Line 10 Mbps (1:1) with F5 BIG-IP / equivalent 4 ISP link load balancer.	-		
10	10 KVA Online UPS [Refer to Annexure -6(viii)]	1		
11	Google Maps API for Business [1 license]	1		
12	Google earth pro [5 license]	5		
13	Adobe Creative Suite 6 Design & Web Premium 5 user license	1		
14	Video Wall [Refer to Annexure -6(ix)]	1		
15	24 port Network Switch [Refer to Annexure -6(x)]	2		
16	Electrical cabling & Network Wiring for 10 nodes with conduit , 1 Patch panel,10 Patch cable of 2m length , 10 patch cable of 1 m length,9u rack [Refer to Annexure -6(xi,xii,xiii,xiv,xv, xvii)]	1		
17	Partitioning(Cubicles), False ceiling etc work at GIS Cell(Approx. 800 Sq. feet) space will be provided by Jharkhand Police.	-		

18	Workstation Table [Refer to Annexure - 6(xviii)]	10		
19	Computer Chairs [Refer to Annexure - 6(xix)]	10		
20	Annual Maintenance Contract (AMC) of HP Design Jet Model-4100	1		
21	Earthing [Refer to Annexure - 6(xvi)]	1		
22	Hand Held Device for e-Challan[Refer to Annexure -6(xx)]	50		
S/W Development		Man months Required	Per Man months [net payment + other company expenses] [Rs]	Total Man months[Rs]
		[a]	[b]	[c]=[a] x [b]
22	Team Leader [Refer to Annexure - 6(xxi)]	60		
23	GIS Developer [Refer to Annexure - 6(xxi)]	60		
24	Application Developer [Refer to Annexure -6(xxi)]	180		
25	Web Designer [Refer to Annexure - 6(xxi)]	120		
26	Technical Assistant [Refer to Annexure -6(xxi)]	120		
Grand Total(Inclusive of all taxes)				

Total Amount in Rupees for 5 years: (In figures) _____

[In Words]

Signature of Bidder

Seal

Technical Specification

Specification of Workstation

SI No	Feature	Description
1	Processor	X86 Four Core (2.4GHz, 10M, 6.4 GT/s)
2	Motherboard	Form Factor- Full ATX
		Chipset- Intel® Tylersburg 36S or better intel chipset/equivalent
		Ethernet- Broadcom 5755 or better
		SATA/SAS Connectors 1* eSATA, 5*SATA Gen 2
		Memory Type- DDR3 ECC UDIMM
		Memory Speed- Up to 1333MHz or higher
		DIMM Slots-6 or more
		Maximum Memory - 16GB or higher
3	Graphics	NVIDIA Quadro 600 with 1 GB or better
4	Memory	16GB, 1333MHz, DDR3 RDIMM ECC 4 DIMM
5	Hard Disk	SATA - 3.5", 7200 rpm 1.0TB
6	Optical Drives	8X DVD +/- RW Optical Drive
7	Physical Chassis	Form Factor Mid-Tower / Tower
8	Internal Speaker	Multimedia Speaker Should be provided
9	Slots	2 * Gen 2 PCIe x16 Slots
		1 * PCIe x 4 Slots
		1 * PCIe x 1 Slots
		1 * PCI Slots
10	Bays	3* 3.5" Internal Bays
		1* 3.5" External Bays
		2* 5.25" External Bays
11	Power Supply	Wattage 625W
		Efficiency 85%+
		Rating - 100-127/200-240V , 8/4 A
12	Environmental	EPEAT Rating -Gold
		RoHS Compliant - Yes
		GREENGUARD® Certified- Yes
13	Front I/O	Back-lit Icons-Yes
		Memory Card Reader- 20-in-1
		Analog Audio- Stereo, Mic
14	Rear I/O	Serial Ports -1 No (2nd Optional)
		1* Ethernet Gigabit (RJ45)
		8 * USB Ports
		Analog Audio -6 Connectors for 7.1 HD Audio
		1 * eSATA
		Digital Audio - 1 Optical In, 1 Optical Out
15	Operating System Preloaded	Genuine Windows 7 with License
16	Operating systems Supported	Genuine Windows Vista® downgrade to
		Genuine Windows® XP Professional 32-bit
		Genuine Windows® XP Professional 64-bit

		Genuine Windows® 7 Professional 32/64-bit
		Red Hat® Enterprise Linux® 5.2 64-bit
17	Display	1 GB NVIDIA Quadro 2000,Dual Monitor,2DP and 1DVI,19 in (481 mm) viewable image size , Optimum resolution: 1440 x 900, Adjustable tilt stand for viewing comfort, 16 x 10 aspect ratio, Analog and DVI-D (support HDCP) attachments , Internal power , 100 mm VESA compliance, Kensington lock slot for security , ENERGY STAR 4.1 compliance, TCO'03 compliance, Power consumption(Max):22W , EPEAT Gold rating compliance
18	KBD & Mouse	Same OEM Keyboard & Optical Mouse

Specification of Desktops

SI No	Feature	Description
1	Processor	X86 processor dual core ,3 GHZ, 2M Cache
2	Motherboard	Chipset- •AMD980G /equivalent chipset
		Ethernet- •Broadcom BCM5761
		Memory- •1333 MHz DDR3 (Double Data Rate) dual channel memory support
		Memory Speed- Up to 1333MHz or higher
		Maximum Memory - 8 GB or higher
		Integrated Audio & Video Controllers
3	Memory	8 GB DDR 3
4	Hard Disk	SATA - 3.5", 7200 rpm 1.0TB
5	Optical Drives	DVD Writer
6	Physical Chassis	Small Form Factor
7	Speaker	Multimedia Speakers Should be provided
8	Slots	PCI Express x1 -2 No Low Profile, PCI Express x16 - 1 Low Profile,
9	Bays	3.5' Internal HDD Bay: 1(memory card reader) , 5'25 External ODD Bay: 1, HDD Support: 1, ODD Support: 1
10	Environmental	EPEAT Rating -Gold
		GREENGUARD® Certified- Yes
11	Front I/O	High Speed USB 2.0: 2, Microphone: 1, Headphone: 1
12	Rear I/O	High Speed USB 2.0: 6, Serial: 1, Integrated VGA port: 1, Integrated Display port: 1, RJ45: 1, Microphone: 1, Audio Line in: 1, Audio Line out: 1,
13	Operating Systems Preloaded	Genuine Windows 7 with License
14	Display	19 in (481 mm) viewable image size , Optimum resolution: 1440 x 900, Adjustable tilt stand for viewing comfort, 16 x 10 aspect ratio, Analog and DVI-D (support HDCP) attachments , Internal power , 100 mm VESA compliance, Kensington lock slot for security , ENERGY STAR 4.1 compliance, TCO'03 compliance, Power consumption(Max):22W , EPEAT Gold rating compliance
15	KBD & Mouse	107 Mechanical key board & Optical Mouse

Rack Server Specification

S. No	Parameter	Complete Description
1	Processor	Latest Generation x86-64 Bit Minimum 6-Core Processor with Minimum 2Ghz Clock Speed and 12MB L3 Cache
2	Number of Processors	Offered Server should be configured with 2 Processors with 6 core each
3	Memory	Minimum 48 GB DDR3 Memory Per Server
4	Memory Scalability	Memory Should be Scalable Minimum up to 192 GB within the existing enclosure
5	PCI-Express Slots	Server Should Have Minimum 2 * PCI Express Slots
6	Network Interface Ports	Minimum 2 * 10GbE SFP+ Ports Per Server Minimum 1 * 10/100 /1000Mb/s Port for Server Management
8	Internal RAID	Internal RAID Controller with minimum with RAID 0, 1, 5, 10 support and with minimum 256MB battery Backed Write Cache
9	Internal HDD	Server should be configured with 8 x 3 TB 7.2K RPM 6 Gbps NL-SAS disk
10	DVD	Internal DVD-RW
11	Power Supplies	Dual Redundant Hot Swappable Power Supplies
12	Fans	Redundant Hot Swappable Fans
14	OS Support	MS Windows, RHEL, SLES
15	Form Factor	2U Rack-Mount

Specification of MFP(Copier, Scanner, Printer)

SI No	Feature	Description
Scanner		
1	Maximum Image Width	40in (101.6cm)
2	Image Length	not limited by scanner
3	Maximum Media Width	44in (111.8cm)
4	Maximum Thickness	0.08in (0.2cm)
5	Scan Speeds in/sec (Mode :24-bit RGB@200dpi (400dpi Turbo))	minimum 3 inches per second
6	Scan Accuracy	+/-0.1% +/-1 pixel
7	Optical Resolution	600 DPI
8	Maximum Resolution	3600 DPI
9	Resolution Range	Variable from 100 to 3600dpi
10	Scan Modes	16.7 million color RGB (24-bit) 256 & 16 color RGB adaptive indexed color palette (8-bit & 4-bit), 256 level grayscale (8-bit),Black & White (1-bit)
11	Digital Image Processing	2D Intelligent Adaptive Thresholding (IAT) (1-bit mode) Fixed Threshold Black & White (1-bit mode) Dynamic Normalisation Application (DNA) with 16-bit super sampled data Precise factory set color calibration with automatic monitoring and automatic colour temperature adjustment
12	Color Space	Normalised / Linearised Raw RGB data
13	Color Image Processing	Gamma, brightness, black & white point adjustment
14	Advanced 2+4 wheel-drive Active Paper Transport (APT)	Dual, precision ground drive rollers Dual, all-wheel-drive contour rollers with high grip rubber tyres Dual, belt driven pressure rollers for active media control during scans Accurate, zero maintenance optical media sensors & automatic media size detection
15	All digital image sensor technology	Contact Image Sensors (CIS) with extended depth illumination Rigid beam scan head with maintenance free CIS alignment 25,500 pixels (RGB triplets) 48-bit primary point colour image capture 16-bit primary point greyscale image capture Panchromatic Black & White
16	Scanner Accessories	Floor stand ,Paper catch basket

17	User status & touch operation	LCD panel
18	Driver	TWAIN
19	Scan Destination	Scan to folder ,SMB,FTP
Copier		
1	Copying Process	Electro photographic printing
2	Copy speed	2.4/4.4 copies per minute
3	Resolution	600dpi
4	Memory	1024 MB+160 GB HDD
5	Zoom	25 - 400%
6	Paper input Capacity	Sheet bypass tray, 1 roll feeder ,2 roll feeder , 250 sheet paper
7	Paper size	Minimum : 210 x 297 mm Maximum: 914 x 15000 mm
Printer		
1	Controller type	Embedded
2	Print Speed	MP W2401: 2.4/4.4 prints per minute
3	Printer resolution	Maximum 600 dpi
4	Print Size	Maximum 914 x 15000 mm Minimum 210 x 257 mm
5	Network Protocol	TCP/IP
6	Interface	Wireless , Ethernet 10/100, USB 2.0

Card printer Specification

Print mode	<ul style="list-style-type: none"> • Color dye sublimation and monochrome thermal transfer • Enhanced color management system for top quality pictures • Dual-sided and edge-to-edge printing
Printer specifications	<ul style="list-style-type: none"> • Color printing module and laminating unit • 300 dpi print head (11.8 dots/mm) • USB & Ethernet TCP-IP connection • 16 MB RAM allowing two card storages (front & back) • Flip-over station for dual-sided printing or laminating • Detachable feeder with a capacity of 100 cards (0.76 mm or 30 mil) • Output hopper with a capacity of 100 cards (0.76 mm or 30 mil) • Reject box for 15 cards (0.76 mm or 30 mil) • Two-line LCD display and a status LED • Locking system to secure access to blank cards, ribbons, films and rejected cards • Support for a Kensington® locking system
Lamination mode	<ul style="list-style-type: none"> • Full card varnish and patch films • Dual-sided lamination • Speed range: 2 mm/s to 18 mm/s (0.08 inch/s to 0.71 inch/s) • Temperature range: 100°C to 180°C (212°F to 356°F)
Print and laminating speed	<p>Personalization throughput will depend on card design and lamination speed settings</p> <ul style="list-style-type: none"> • YMCK-K, 1.0 mil patch single-side - 85 to 105 cards/hour • YMCK, 1.0 mil patch single-side - 95 to 120 cards/hour
Supported platforms	<ul style="list-style-type: none"> • Windows™ 7 (32 & 64 bits), XP and Vista (32 & 64 bits) • Windows 2003 Server and Windows 2000 drivers available upon request - depending on system configuration • Mac OS X
Supported Card Types	All PVC, Composite PVC cards
Supported Card Format	ISO CR-80 - ISO 7810 (53.98 mm x 85.60 mm – 3.375" x 2.125")
Supported Card Thickness	From 0.25 mm (10 mil) to 1 mm (40 mil) - No lamination under 0.50 mm (20 mil), recommended from 0.76 mm (30 mil min.)

Supported Output hopper capacity	100 cards (0.76 mm - 30 mil)
Supported Card feeder capacity	100 cards (0.76 mm - 30 mil)

Tablet Specification

Processor	1.4 GHz Quad Core Exynos 4412
Voice Call	Support Yes
Supported Networks	2G: GSM 850, 900, 1800, 1900; 3G: UMTS 2100
Operating System	Android 4.0 (Ice Cream Sandwich)
User Interface	TouchWiz User Interface
Sensors	Accelerometer, Digital Compass, Gyroscope, Light
RAM	2 GB
Internal Storage	16 GB
Expandable Storage Capacity	32 GB
Memory Card Slot type	MicroSD
Display Type	10.1 inch TFT LCD Capacitive Touchscreen with 1280 x 800 pixels , 16 M Colors
Primary Camera	5 megapixels
Secondary Camera	1.9 megapixels
Flash Support	LED Flash
Video Recording	HD Recording at 720 x 1280 (30 fps)
Other Camera Features	Auto Focus, Multi-shot Mode, White Balance, Face and Smile Detection
Mail Features	Email, Pushmail
Document Support	Document Viewer, Document Editor
Other Business features	Polaris Office, S-Note, Adobe Photoshop
Battery Type	7000 mAh Lithium - Ion
Talk Time	71 hrs (2G); 38 hrs (3G)
Standby Time	2230 hrs (2G); 2020 hrs (3G)
Wi-Fi	802.11 a/b/g/n
3G	21 Mbps HSPA
Other Internet Connectivity Options	Gprs, Edge
Pre-Installed Browser	Internet Explorer, Android
Video Playback	Full HD Playback
Video Formats Supported	H.264, H.263, MP4, DivX, WMV
Audio Formats Supported	FLAC, MP3, eAAC, AC3
GPS	A-GPS
Map Support	Google Maps
HDMI	Support yes
Other Connectivity Features	Wi-Fi Channel Bonding
USB	Micro USB 2.0
Audio Jack	3.5 mm Headphone Jack
Bluetooth	v4, Supported Profiles(A2DP, AVRCP, GAVDP, GAP, GOEP, HID, HSP, OPP, SPP)

Laptop Specification

Display Resolution	Supported Resolution -1366x768 (native) at 16:9 ratio, 1152x720 and 1024x640 at 16:10 ratio, and 1024x768 and 800x600 at 4:3 ratio
Category	Notebook
WARRANTY	3 Year Manufacturer Warranty
SCREENSIZE	13.3-inch
PROCESSOR	1.8GHz dual-core Intel Core i5 (Turbo Boost up to 2.8GHz) with 3MB shared L3 cache
RAM	4GB of 1600MHz DDR3L onboard memory
WEIGHT	1.35 Kg
OPERATING SYSTEM	Includes Mail, Messages, Contacts, Calendar, Safari, Reminders, Notification Center, Notes, Dictation, iCloud, Time Machine, FaceTime, Photo Booth, AirPlay, Game Center, , iTunes, Gatekeeper, Twitter and Facebook
GRAPHIC CARD	Nvidia Geforce 320m Graphics Processor With 256mb /Intel HD Graphics 4000
HARD DRIVE SIZE	256GB flash storage
Wireless	802.11n Wi-Fi wireless networking; ³ IEEE 802.11a/b/g compatible,Bluetooth 4.0 wireless technology
Battery and Power	Up to 7 hours wireless web,Up to 30 days standby time,Built-in, 50-watt-hour, lithium-polymer battery,45W MagSafe 2 Power Adapter with cable management; MagSafe 2 power port
OTHER FEATURES	Video : Facetime Camera, Mini Displayport Output Port With Support For Dvi, VGA, Dual-link Dvi, And HDMI (requires Adapters, Sold Separately). Ports : Two USB Ports (up To 480 Mbps), Sdsd Card Slot. Audio : Stereo Speakers, Omnidirectional Microphone, Headphone Minijack. Networking : USB Ethernet Adapter Wireless : Airport Extreme Wi-fi (based On IEEE 802.11n Specification) ⁴ , Bluetooth 2.1 + Edr (enhanced Data Rate) Wireless Technology.
Camera support	720p FaceTime HD camera
External HDD	Should be supplied with additional usb 3.0 compatible 3TB external 3.5" HDD

Specification of UPS

Sl No	Feature	Description
1	Capacity	10 KVA
	Battery Backup	60 minutes
2	General	
	Inverter Technology	Pulse Width Modulation (PWM) using IGBTs, double conversion
	Switching frequency	20 KHz or higher
	Total Harmonic Distortion (THD)	< 2% for 100% linear load
	Voltage	< 3% for 100% non-linear load
	Noise level	Less than 55 db
	Operating Temperature	0° - 50° C
	Output Wave Form	Pure sine wave
	Cooling	Air Cooled
3	Input	
	Voltage Range	160 V AC to 270 V AC
	Frequency range	50 ± 6% Hz
	D/G set comp ability	Required
	Input Power Factor	0.9 or better at full output load leading to Unity with power factor correction (PFC)
4	Output	
	Voltage	230V AC +1 %, single phase
	Regulation	Less than + 1% in the following conditions
		1. No load to full load/Full load to no load
		2. 0.6 lag to Unity PF
		3. During Entire Backup time.
		4. Complete Input Voltage Range
	Frequency	50 Hz + 0.5 %
5	Efficiency	
	Overall	Efficiency 80 % or better on rated full load of 0.8 PF & 230V, 50Hz AC output
	Inverter Efficiency	90% or better on rated full load of 0.8 PF & 230V, 50Hz AC output
6	Overload Capacity	110% for 2 min. & 125% overload for 30sec.
7	Load Power Factor	0.8 lagging
8	Protection	Required for :
		Short Circuits

		Over Loading
		Over Temperature
		Input low/ high voltage control
		DC low/high voltage trip
9	Battery Make	CSB / Panasonic / Global Yuasa / Exide / Orchid / Okaya / Amar Raja make complying to JIS C 8702 test.
	UPS & Battery Housing	Powder coated UPS & battery cabinet with caster wheel should of minimum 1mm thick good quality material and should be free from sharp edge, scratches, nicks, & burs etc. Enclosure should conform to protection requirement of IP2L1 to IS13947 (Part 1)/1993 (reaffirmed 2004).
10	L.C.D. meter	To measure and monitor input voltage, output voltage, output current, DC current, DC voltage, input / output frequency
11	Indications	Mains on
		Load on Battery
		Inverter
		Battery level
		Load level
		Inverter over load
12	Audible Alarm	Over Temperature
		Main failure
		Battery low
		Inverter Overload
13	Switches	Main ON/OFF MCB
		Battery ON/OFF MCB
		Inverter push button with reset.
14	Output Connection	O/P Terminals of standard quality should be provided.
		03 Nos. of 5/15A/230V female ISI/ IEC Mark socket and all 3 sockets should
15	Isolation Transformer	Galvanic Isolation through Transformer

Specification for LED Professional Video Wall Display

S. No	Min Specifications
1	The Display should have aspect ratio of 16:9.
2	The Display should support true resolution of 1366 X 768 pixels.
3	The Display should have minimum (Native) contrast ratio of 3000:1.
4	The Display should have minimum life span of 50,000 Hrs.
5	The Display should have 450cd/m2 Brightness
6	The Gap between 2 LCD should be Not more than 6mm
7	The display should have following input terminals.
	a) RGB Input –Mini D-Sub 15 PIN x 1 (For connecting PC/LAPTOP)
	b) DVI-D In – 24+1 PIN (For More Laptop)
	c) RS-232C - D-Sub 9 PIN X 1 (For programming) (Input and Output)
	c) HDMI In – 2(For connecting DVD Players in future)
	d) LAN port - RJ45
8	The Display should have following functions:
	Screen Saver function – Wobbling (For preventing any ghost image to appear on display).
9	a) Auto Power off (For saving the power consumption when not in use)
	b) Power Saver Mode (For saving power if not in use for short duration during VC)
10	The Display should support various types of mounting accessories like:
	a) Wall Mount Bracket
11	The display should have the following standards certification
	a) RoHS compliant – For environment
	b) UL/IEC – For safety
	c) FCC – For radiations regulation

Video Wall Size		138" Diagonal [3X3]
Number of Panel Required		9 units
Panel	Bezel Width [Gap Between Panel]	4.3+2.4=6.7MM
	Per Display Diagonal Size	46"
	Type	S-PVA(DID)
	Resolution	1366*768
	Pixel Pitch(mm)	0.7455(H) * 0.7455(V)
	Active Display Area(mm)	1018.353(H) x 572.544(V)
	Brightness(Typ.)	450 cd/m2
	Contrast Ratio	4500:1
	Viewing Angle(H/V)	178/178
	Response Time(G-to-G)	8ms
	Display Colors	8 bit - 16.7M
	Color Gamut	72%
Display	Dynamic C/R	10000:1
	H-Scanning Frequency	30kHz ~ 81kHz
	V-Scanning Frequency	56Hz ~ 85Hz
	Maximum Pixel Frequency	148.5MHz

Connectivity	INPUT	RGB	Analog D-SUB, DVI-D, Display Port
		VIDEO	CVBS, HDMI1,HDMI2, Component(D-sub 15pin)
		AUDIO	RCA(L/R) , Stereo mini Jack
	OUTPUT	RGB	DVI-D(Loop-out)
		VIDEO	N/A
		AUDIO	Stereo mini Jack
		Power Out	5V
	EXTERNAL CONTROL		RS232C(in/out), RJ45
EXTERNAL SENSOR		Stereo mini jack(IR in/out), mini USB (Ext. BR/IR sensor)	
Power	Type		Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	214.5
		Typical[W/h]	190
		BTU(Max)	731.445
		Sleep Mode	less than 2W
Off Mode		less than 1W	
Mechanical Spec	Dimension (mm)	Set	1025.7 X 579.8 X 130.0
		Package	1148.0 * 705.0 * 330.0
	Weight (kg)	Set	19.3
		Package	24.6
	VESA Mount		600*400mm
	Protection Glass		N/A
	Stand Type		Foot Stand(optional)
	Media Player Option Type		N/A
Bezel Width (mm)		4.3mm(U/L), 2.4mm(R/B)	
Operation	Operating Temperature		0°C~ 40°C
	Humidity		10~80%
Feature	Key		Economic Super Narrow Bezel
	Special		Lamp Error Detection, Anti Retention, Temperature Sensor, RS232C/RJ45 MDC,Plug and Play (DDC2B), PIP/PBP, Video Wall(10x10), Pivot Display, Button Lock, Digital Daisy Chain, Smart Scheduling, Smart F/W update

Certification	Safety		UL (USA) : UL 60950-1 CSA (Canada) : CSA C22.2 No. 60950-1 TUV (Germany) : EN60950-1 NEMKO (Norway) : EN60950-1 KC (Korea) : K60950-1 CCC (China) : GB 4943-2001 PSB (Singapore) : IEC60950-1 GOST (Russia) : IEC60950-1, EN55022 SIQ (Slovenia) : IEC60950-1, EN55022 PCBC (Poland) : IEC60590-1, EN55022 NOM (Mexico) : NOM-019-SCFI-1993 IRAM (Argentina) : IEC60950-1 SASO (Saudi Arabia) : IEC60950-1
	EMC		FCC (USA) FCC Part 15, Subpart B class B CE (Europe) EN55022, EN55024 VCCI (Japan) V-3 (CISPR22) KCC (Korea) :KN22, KN24 BSMI (Taiwan) : CNS13438 (CISPR22) C-Tick (Australia) : AS/NZS3548 (CISPR22) CCC(China) :GB 9254-2008, GB 17625.1-2003
	Environment		ENERGY STAR 5.0 (USA)
Accessories	Included		Quick Setup Guide, Warranty Card, Application CD, D-Sub cable, Power Cord, Remote Controller, Batteries
	Optional	Floor Stand	No
		Wall Mount	Yes

Technical Specifications 24 Port Managed Switch

SL	Parameters	Specifications
1	Network Ports	The switch should have minimum 24 x 10/100/1000 Ports with 2 One Gigabit Ethernet SFP ports for uplinks
		UTP RJ-45 ports
2	Protocol	CSMA/CD
3	Standards Compliance	IEEE 802.3 10 Base-T Ethernet
		IEEE 802.3u 100BASE-TX Fast Ethernet
		IEEE/ANSI 802.3 Auto Negotiation
		IEEE 802.3x Full duplex Flow Control
4	Data Transfer Rates	Forwarding bandwidth 16gbps or more ,switching bandwidth 32gbps or more ,
		Fast Ethernet 100 Mbps(Half Duplex), 200 Mbps(Full-Duplex)
5	Memory	Flash memory 32mb or more,
		memory DRAM 64 mb
6	Power Supply	100V-240VAC
7	Max VLANS	255 or more
8	VLAN IDs	4000 or more
9	Maximum Transmission unit(MTU)	9000 bytes
10	Jumbo frames	900 bytes
11	Operating Temperature	-5 to 45 degree Centigrade
12	Auto Smartport	Port should provide automatic configuration as devices connect to the switch port, allowing auto detection and plug and play of the device onto the network
13	Preferred brand	Cisco /Juniper /equivalent
14	Warranty Coverage	Comprehensive warranty of 5 years

Technical Specifications CAT 6 Cable Lying

SL	Parameters	Specifications
1	Cable Laying	All the cabling shall run through PVC conduit / Casing Capping of suitable size of ISI standard.
2	Skilled Manpower	Cables shall be laid by skilled and experienced workmen using adequate equipments to minimize stretching of the cable.
3	Cable Terminations	All terminations should be carried out according to the manufacturer's instructions and guidelines and standards of generic cabling systems. When terminating outlets, care must be taken to avoid damaging the copper cores when stripping back the outer sheathing.
4	Testing & Documentation	Testing of each node should be done as per manufacturer standards and the final report should be submitted.
5	UTP COMPONENTS	Make sure that the system should Meet or exceed TIA/EIA 568 B-2 specifications of Category-6 as a system. All performance parameters -Attenuation, Pair -to-Pair and power sum NEXT, Pair And Power sum ELFEXT, Return Loss and Delay skew should be tested for 100m Channel as well as 90m permanent Link. It should be a single OEM solution and should ensure optimum system performance. There should not be any Impedance mismatch problems among components of the cabling system. The complete system should be tested up to 600 MHz for all the test parameters to ensure the end-to-end system performance.

Technical Specifications CAT 6 Patch Cord(1 Meter / 3 Meters)

SL	Parameters	Specifications
1	Length	1Meter /3 Meter
2	Conductor	24 AWG 7 / 32, stranded copper
3	Cable Type	UTP CAT 6 ANSI/TIA/EIA 568-B.2.1
4	Plug Protection	Matching colored boot to maintain bend radius
5	Category	Category 6
6	Terminals	Phosphor Bronze with gold plating
7	Jacket	PVC
8	Comprehensive Warranty	3 Years

Technical Specifications Information Outlet (Cat6-Single Port)

Sl	Parameters	Specifications
1	Type	1-port, Shuttered, White, with surface box for surface mount applications, Category 6,TIA/EIA 568-b Category
2	Material	ABS/Polycarbonate
3	No. of ports	One
4	Protection	Shutters
5	Identification	To be supplied with label for port identification
6	Comprehensive Warranty	3 Years

Technical Specifications Cat-6 Patch Panel

SL	Parameters	Specifications
1	Type	24 port patch panel as per requirement, Unshielded Twisted Pair, Category 6, ANSI/TIA/EIA 568- B.2.1
2	Circuit Identification Scheme	Port Labeling for port identification on each of 24-ports
4	Port Identification	Labels on each of 24/48-ports (to be included in supply),
5	Height	1U
6	Category	Category 6
7	Modular Jack	750 mating cycles
8	Comprehensive Warranty	3 Years

Technical Specifications Wall Mounted Network 9U Rack

SL	Parameters	Specifications
1	Size	19" Wall mount ,9 U height
2	Body	Minimum Powder coated steel Body with front door of glass. Completely covered & have security locks.
4	Accessories:	Proper ventilated with One Fan, One Cable Manager, Power Distribution Unit of 6 No. (5 and 5 Amp) Sockets with surge protection, Mounting Accessories,
5	Earthing	Fitted with Copper Strip for earthing the equipments
6	Comprehensive Warranty	5 Years

SPECIFICATION FOR PIT EARTH

G.I. Pipe of 60 mm diameter with a sole plate to be laid vertically down inside the ground to depth of 3.5 meter. To the G.I. Pipe four copper plates are fitted at the bottom inside the earth. The Copper plate is of One-meter Square. G.I. Pipe is fitted to Copper plates by means of brass bolts & nuts of 9.4 mm X 50 mm and with spring Washers & Plate washer. The trench is fitted with fine ash to a height of One meter, then Salt to a height of One meter, followed by Saw Dust to a height of One meter.

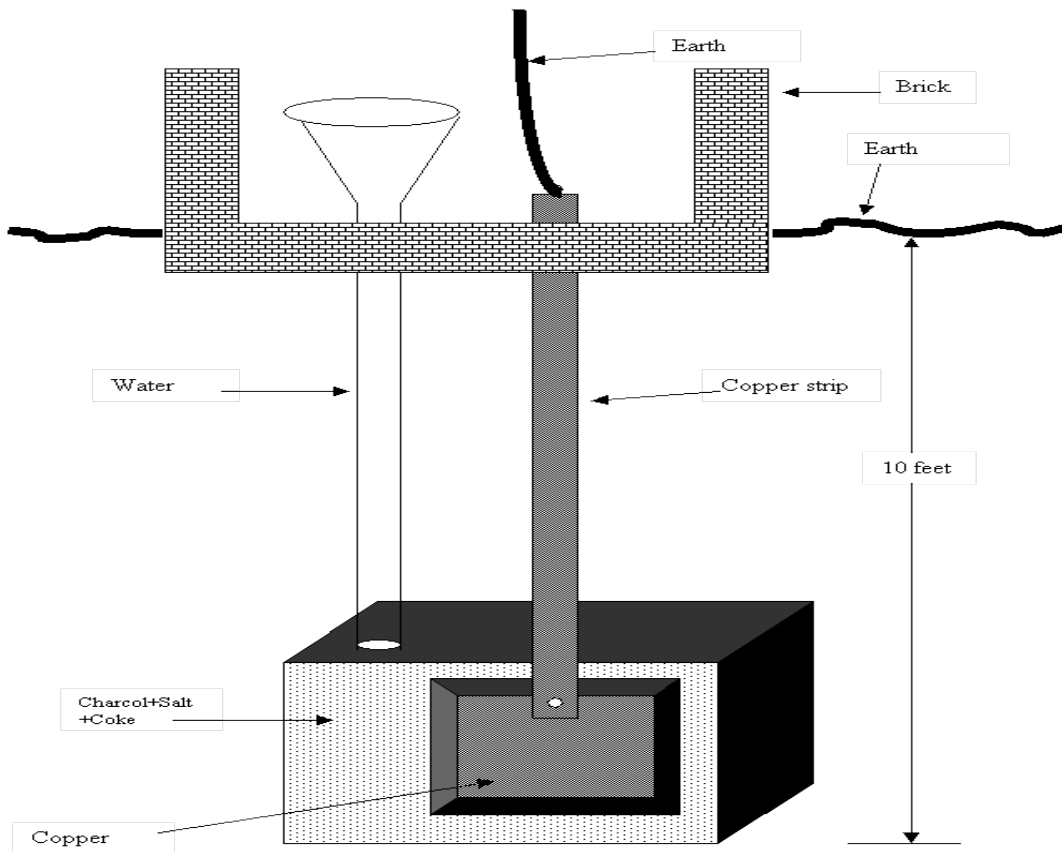
Thus the G.I. Pipe is buried inside, to a depth of three meters & only 0.5 meter is kept above ground level. From this portion connection is made to equipment Earth Strip as desired .

Copper plate .5-meter square 3 mm thick, sole plate 60 Sq. mm, 6 mm thick GI wire-to-wire earthing system connection should be made with compression connectors or otherwise weld connection.

Earth resistance measured must be less than 2 Ohm

S.N.	Materials	QTY.
	Copper Plate Earthing	
1.	300mm x 300mm x 4mm Thick Copper Plate (Not less than 95% copper purity)	15 Kg (1 in Nos)
2.	25mm x 3mm Thick Copper Strip (Not less than 95% copper purity)	12 ft/ 6 Kg
3.	Charcoal	200 Kg
4.	Salt	40 Kg
5.	(150 x 100 x 6mm Thick Terminal Plate Copper	2 Nos (0.900 Kg) each
6.	Sundries such as Brass, Nut bolts, Porcelain, Insulator, Thimbles, I/Tape etc.	As per requirement
7.	40mm Dia B-Class GI Pipe for watering & Strip protection.	10 ft
8.	Supply of Soft Soil (Optional)	4 Cu.Mts.

The Earthing diagram is as follows



Technical Specifications Electrical Cabling

	Parameters	Specifications
	Scope	Supply, install, testing, commissioning and maintenance of electrical cabling for supplying power to run installed devices .
	Skilled Manpower	Electrical Cabling shall be laid by skilled and experienced workmen using adequate equipments to minimize stretching of the cable.
	Cable Terminations	All terminations should be carried out according to the manufacturer's instructions and guidelines and standards of generic cabling systems. When terminating outlets, care must be taken for safety.
	Testing & Documentation	Testing of each node should be done as per manufacturer standards and the final report should be submitted.
	Specifications	Total 8 Electrical Points Including 3 Switches & 3 Sockets in Each Point, (2 No. 5-Amps and 1 No. 15 Amps.) - Point wiring using ISI approved PVC Conduit / Casing Capping, 1.1 KV grade 2.5 square meter FRLS Cu flexible wire including supply of wire, switch, socket and GI Box. Including all necessary hardware & accessories complete, material and labor as per requirement of the Police. For point wiring having Average Point length is 12 to 18 Meters.
	UPS & Generator Set Cabling	Electrical Cabling for Network Rack, Four Computer Points, separate cabling for Two Printers from main input and Generator set to UPS Including change-over, MCB and all other accessories as per requirement.

Annexure -6(xviii)

Technical Specifications Computer/Workstation Tables

	Parameters	Specifications
		Computer table of size – 700 mm (L) x 400 mm (W) x 750 mm (H) mm with extended verticals on three sides upto 900 mm (H) (150 mm above table top) having one pull out keyboard tray on telescopic channel for smooth movement & one storage shelf below top for keeping UPS & other accessories. Table top should have one wire manager for wires control. Table top, keyboard and storage shelf should be made of 19 mm pre-laminated MDF Board of premium brands such as Duroply / Kitply / Greenlam / Marino etc.
	Preferred Brand	Godrej / Methodex /Durian or equivalent
	Warranty Coverage	Comprehensive warranty for 5 years.

Technical Specifications Computer Chairs

Parameters & Specifications	
Ergonomic height adjustable revolving Computer Chair with Height adjustable armrest. Five pronged Nylon base with 60 mm double castors. Seat and back made of polyurethane foam on 12 mm hot pressed ply duly upholstered with low pilling and permeable fabric. Overall height of the chair – 95 to 105 cm.	
Preferred Brand	Godrej / Methodex / Durian
Warranty Coverage	Comprehensive warranty for 5 years.

Technical Specification of “Hand Held Device for e-Challan”

SL	Specifications
1	The system should allow the captured data/information to transfer through GPRS (or any of the equivalent/ advance technology using GSM/ CDMA/ 3G and better method) from the handheld devices to the central server.
2	The handheld device so offered must be capable for continuous, operation for at least 8hrs. Battery backup should also be of minimum 8 hours.
3	Handheld device so offered should be capable of day and night operations and should have a wide range light display unit (for day and night time visibility) for better view preferably QVGA LCD 3.5”display 240 x 320 pixels.
4	The system should support 3" or better inbuilt / external printer with long lasting prints for handheld devices with Paper width 76 mm 36 char/line/higher with diff fonts .
5	The system should support minimum 512mb.
6	The system should support Android / Windows Mobile CE/Blackberry/Apple ios
7	The system should have processor of 800mhz
8	The system should support GPS
9	The system should have Clear visibility and legibility under direct sunlight
10	The system should have Clear visibility and legibility under direct sunlight
11	The system should have carry case to carry device ,charger and extra battery
12	The system should provide with 16 GB SD card
13	The system should have minimum 3 megapixel or better built in camera for image capture
14	Intuitive GUI which can be touch-screen based for easy, quick and accurate operation or with keyboard with easy navigation.
15	The system should provide with USB port with data cable.
16	Automatic recording of place of offence via GPS
17	Should be able to print clear and legible copies of challans.
18	The system should have additional one extra or spare battery backup.
19	The system should have car /motor cycle charger
20	The system should have AC Main charger
21	If the system is coming with external printer it should be provided with car /motor cycle charger, AC main charger with carry pouch
22	The system should be rugged for external use
23	The system should support wifi 802.11 b/g/n
24	The system should support Bluetooth 2.0
25	The system should be a rugged device

Educational Qualifications, Experience and Role of Technical Professionals with Minimum Base Salary

All the degrees/diplomas should be pursued through course of a government recognized university/institution and all the technical persons should have requisite experience to carry out the project work. All the technical persons will be stationed at the GIS center for the whole project lifecycle for 5 years.

SI No	Role of the Individual	No. of Technical Manpower	Man months	Qualification
1	Team Leader cum solution architect*	1	60	M.Sc(Remote sensing / Geo-informatics) / M.Tech (Remote sensing / Geo-informatics) or equivalent with 5 years of GIS experience and leading a team of 6 programmers , experience in GIS Project is desirable
2	GIS Developer and Application Developer*	4	240	B.Tech (CS/IT) /B.E(CS/IT) / MCA or equivalent with 2 year experience in application development in PHP/Java/Dot Net /GIS/Mobile Application
3	Web Designer	2	120	1. Candidate needs to be Graduate with 2 years experience in web designing. 2. Need to have experience in working with Photoshop/ Flash /Coreldraw /Dreamweaver / Illustrator /CSS and HTML. 3. Knowledge required in the development of Website using advance CSS.
3	Technical Assistant cum Data entry operator*	2	120	BCA/Graduate /Diploma/ITI with two year experience

*The GIS team of 9 consists of 1 -Team leader, 1- GIS Developer, 3-Application developers , 2-Web Designer and 2 -Technical assistant will be deployed for 5 years at the GIS center to support the Jharkhand police. For their pay protection the minimum prescribed net payment or take home to the s/w development team after deducting all taxes and service charges is as follows. The Team Leader - Rs 40000.00, GIS Developer - Rs 30000.00, Application developer -30000.00, Web Designer- 30000.00 and Technical Assistant - 13500.00. With minimum 7% annual increment. All the manpower will be selected by client only. The bidder will have to provide man month utilization ,performance evaluation certificate ,attendance sheet and salary slips in their quarterly bill.

Check List		
Sl. No	Items	Compliance
1.	Tender Document Fee(Rs. 5000)	Yes/No
2.	EMD (Rs. 300000)	Yes/No
3.	The bidder should enclose Manufacturers' Authorization Letter from the Original Equipment Manufacturer (OEM) for the relevant items along with the Technical Bid for this specific tender.	Yes/No
4.	The bidder should have successfully completed similar projects atleast 3 up to worth of Rs. 3 Crores each or above, during the last three years (Provide the details as per the format given in Annexure 2, also enclose the related work order).	Yes/No
5.	The Bidder should have an annual turnover of not less than 100 crores in any one of the two previous financial years. The documentary evidence (Attested photocopy of audited Balance Sheet, Certificate of Incorporation etc.) must be submitted along with Bid	Yes/No
6.	The Bidder should have at least 500 (Five hundred) full time professionals on rolls over each of the last three years. Self-certification by the authorized signatory will be required.	Yes/No
7	The Bidder should have Service Tax & VAT registration. (i) Latest VAT & Service Tax Return (ii) Commercial taxes clearance Certificate valid as on the date of tender should be submitted.	Yes/No
8	Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Tendering Authority. A Self - Declaration Certificate should be enclosed as in Annexure - 3.	Yes/No
9	Bidder should have a Local/Branch office at Ranchi & the proof of the same along with name, contact no. & proper address should be submitted along with technical bid.	Yes/No
10	Bidder's should have ISO 9001 Certification in the domain of System Integration & Software development(Copy of valid ISO 9001 certificate)	Yes/No
11	Bidder should have CMM I Level 3 certification	Yes/No
12	Company Should be a profit making company for the last three years and minimum net profit margin should be 5 Cr. (As a proof Audited Balance Sheet for Last 3 Years).	Yes/No

Signature